

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

**Amendment No. 1
to
FORM S-1
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

X-Energy, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

4911
(Primary Standard Industrial
Classification Code Number)

41-3934505
(I.R.S. Employer
Identification Number)

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(301) 358-5600**
(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

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**Approximate date of commencement of proposed sale to the public:
As soon as practicable after the effective date of this registration statement.**

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended, or Securities Act, check the following box: ☐

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. ☐

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. ☐

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering. ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Securities Exchange Act of 1934, as amended.

Large accelerated filer	☐	Accelerated filer	☐
Non-accelerated filer	☒	Smaller reporting company	☐
		Emerging growth company	☒

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act. ☐

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act or until the registration statement shall become effective on such date as the Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

The information in this preliminary prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell these securities and we are not soliciting offers to buy these securities in any jurisdiction where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED APRIL 3, 2026
PRELIMINARY PROSPECTUS

Shares
X·ENERGY

X-Energy, Inc.
Class A Common Stock

This is the initial public offering of shares of Class A common stock of X-Energy, Inc. We are offering _____ shares of our Class A common stock.

Prior to this offering, there has been no public market for our Class A common stock. We expect that the initial public offering price per share of our Class A common stock will be between \$ _____ and \$ _____ per share.

We intend to apply to list our Class A common stock on the Nasdaq Stock Market LLC (“Nasdaq”), under the symbol “XE.”

Upon consummation of this offering, we will be a holding company in an organizational structure commonly referred to as an umbrella partnership-C-corporation (or “Up-C”) structure, and our principal asset will consist of ownership of _____ % of the common units (“Common Units”) of X-Energy Reactor Company, LLC (“XERC”) (or approximately _____ % of the Common Units if the underwriters exercise in full their option to purchase additional shares of Class A common stock). See “Risk Factors — Risks Related to Our Capital Structure.” We will operate and control all of the business and affairs of XERC and its direct and indirect subsidiaries, and conduct our business through XERC.

Following this offering, we will have two series of authorized common stock: shares of Class A common stock, having one vote per share and economic rights, and shares of Class B common stock, having one vote per share and no economic rights (collectively, the “Common Stock”). Holders of Class A and Class B common stock will vote together as a single class on all matters to be presented to our shareholders for their vote or approval, except as otherwise required by applicable law or our Bylaws (as defined herein). Our outstanding Class A common stock and Class B common stock will represent approximately _____ % and _____ %, respectively, of the total voting power of our outstanding Common Stock immediately following this offering, assuming no exercise of the underwriters’ option to purchase additional shares of Class A common stock. See “Description of Capital Stock” and “Organizational Structure.”

In connection with the offering, we will enter into a Tax Receivable Agreement (“TRA”) (as defined elsewhere in this prospectus) with XERC and the TRA Holders (as defined elsewhere in this prospectus) that will provide for certain cash payments to be made by the Company to such TRA Holders in respect of certain future tax benefits received by X-Energy, Inc., utilizing cash for the benefit of such unitholders that otherwise would have been available to us for other uses and for the benefit of all of our shareholders. Although the actual timing and amount of any payments that may be made under the Tax Receivable Agreement will vary, the Company expects such payments under the Tax Receivable Agreement are substantial. Any payments made by the Company to the TRA Holders will benefit the TRA Holders and will reduce cash that might have otherwise been available to the Company for reinvestment or other uses. See “Risk Factors — Risks Related to Our Capital Structure” and “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.”

We are an “emerging growth company” as defined under the federal securities laws. As such, in this prospectus we have taken advantage of certain reduced disclosure obligations that apply to emerging growth companies regarding our financial statements and executive compensation arrangements.

Investing in our Class A common stock involves risks. See the section titled “Risk Factors” beginning on page 25 to read about factors you should consider before buying shares of our Class A common stock.

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.

	Per Class A Share	Total
Initial public offering price	\$ _____	\$ _____
Underwriting discounts and commissions ⁽¹⁾	\$ _____	\$ _____
Proceeds, before expenses, to us	\$ _____	\$ _____

- (1) See the section titled “Underwriting” for a description of the compensation payable to the underwriters.
- At our request, the underwriters have reserved up to _____ shares of Class A common stock, or up to _____ % of the shares offered by this prospectus, for sale at the initial public offering price through a directed share program to our directors, officers, and certain employees and other parties related to X-Energy, Inc. See “Underwriting — Directed Share Program.”*
- The underwriters have the option for a period of 30 days from the date of this prospectus to purchase up to an additional _____ shares of our Class A common stock from us to cover over-allotments, if any, at the initial public offering price less underwriting discounts and commissions.*
- The underwriters expect to deliver the shares of our Class A common stock to purchasers on or about _____, 2026 through the book-entry facilities of The Depository Trust Company.*

Joint Bookrunning Managers

J.P. Morgan Morgan Stanley Jefferies Moelis & Company
Cantor UBS Investment Bank TD Securities Guggenheim Securities Wolfe | Nomura Alliance

Prospectus dated _____, 2026

X·ENERGY

Building Energy Solutions that Empower the Unprecedented



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Neither we nor the underwriters have authorized anyone to provide you with information different from that contained in this prospectus and any free writing prospectus we have prepared. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We and the underwriters are offering to sell Class A common stock and seeking offers to buy Class A common stock only under circumstances and in jurisdictions where such offers and sales are lawful. The information in this prospectus is accurate only as of the date of this prospectus (or as of any earlier date as of which such information is given), regardless of the time of delivery of this prospectus or of any sale of the Class A common stock. Our business, liquidity position, financial condition, prospects or results of operations may have changed since the date of this prospectus.

This prospectus contains forward-looking statements that are subject to a number of risks and uncertainties, many of which are beyond our control. See the sections titled "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements."

For investors outside the United States: Neither we nor the underwriters have done anything that would permit a public offering of the securities offered hereby or possession or distribution of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside the United States who come into possession of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus must inform themselves about, and observe any restrictions relating to, the offering of the securities and the distribution of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus outside of the United States.

BASIS OF PRESENTATION AND DEFINITIONS

Organizational Structure

In connection with the closing of this offering, we will effect certain organizational transactions. Unless otherwise stated or the context otherwise requires, all information in this prospectus reflects the consummation of the organizational transactions and this offering, which we refer to collectively as the “Transactions.” See “Organizational Structure” for a description of the Transactions and a diagram depicting our organizational structure after giving effect to the Transactions, including this offering.

As used in this prospectus, unless the context otherwise requires, references to:

- “we,” “us,” “our,” the “Company,” “X-energy” and similar references refer, following the consummation of the Transactions, including this offering, to X-Energy, Inc., and, unless otherwise stated, all of its subsidiaries, including X-Energy Reactor Company, LLC, which we refer to as “XERC” and, unless otherwise stated, all of its subsidiaries. When used in a historical context, such terms collectively refer to X-Energy Reactor Company, LLC, which we refer to as “XERC,” our predecessor for financial reporting purposes, and its operating subsidiaries.
- “ARDP” means the U.S. Department of Energy’s Advanced Reactor Demonstration Program.
- “ARDP Agreement” means the Cooperative Agreement between the U.S. Department of Energy and X-Energy, LLC, Award No. DE-NE0009040, effective as of February 2, 2021.
- “Basis Adjustments” means the tax basis adjustments expected to be obtained by X-Energy, Inc. resulting from (a) any future redemptions or exchanges of Common Units from the TRA Holders; (b) certain distributions (or deemed distributions) by XERC; and (c) payments made under the Tax Receivable Agreement.
- “Blocker Companies” means entities that are owners of Common Units in XERC prior to the Reorganization Transactions and are taxable as corporations for U.S. federal income tax purposes.
- “Blocker Mergers” means the merger of each of the Blocker Companies with X-Energy, Inc. as part of the Reorganization Transactions, pursuant to which the Blocker Shareholders receive shares of Class A common stock as consideration for the applicable Blocker Merger.
- “Blocker Shareholders” means the owners of the Blocker Companies prior to the Reorganization Transactions, who will exchange their interests in the Blocker Companies for shares of our Class A common stock in connection with the consummation of the Blocker Mergers.
- “Blocker Tax Attributes” means (i) the share of tax basis (including under Sections 734(b), 743(b) and 754 of the Code and Section 1.743-1(h) of the Treasury Regulations and, in each case, the comparable sections of U.S. state and local tax law) of certain of XERC Group’s assets that are amortizable under Section 197 of the Code or that are otherwise amortizable or depreciable for U.S. federal income tax purposes, in each case, attributable to the Common Units acquired by us from the Blocker Companies in the Blocker Mergers and (ii) net operating losses (and carryforwards thereof), capital losses (and carryforwards thereof), disallowed interest expense carryforwards under Section 163(j) of the Code and credit carryforwards of the Blocker Companies relating to taxable periods ending on or prior to the date of this offering, but, in the case of clause, (ii) excluding any tax attribute of a Blocker Company that is used to offset taxes of such Blocker Company, if such offset taxes are attributable to taxable periods (or portion thereof) ending on or prior to the date of the Blocker Mergers.
- “Code” means the U.S. Internal Revenue Code of 1986, as amended.
- “Common Units” means common units of membership interest in X-Energy Reactor Company, LLC.
- “Continuation Application” means a non-competitive application for an additional budget period within the contractual award timeline under the ARDP Agreement.
- “Continuing Equity Owners” refers collectively to those Original Equity Owners (including and certain of their affiliates, but excluding Management LLC) that will own Common Units in XERC and our Class B common stock after the Reorganization Transactions and who may, following the

consummation of this offering, redeem their Common Units for cash or shares of our Class A common stock as described in “Certain Relationships and Related Party Transactions.”

- “*DGCL*” means the Delaware General Corporation Law, as amended.
- “*DOE*” means the U.S. Department of Energy.
- “*Dow*” means Dow Inc. or its subsidiaries.
- “*Exchange Act*” means the U.S. Securities Exchange Act of 1934, as amended.
- “*Exchange Existing Basis*” means the tax basis in certain assets of XERC and certain of its direct or indirect subsidiaries (including assets that will eventually be subject to depreciation or amortization once placed in service) that is obtained by X-Energy, Inc., in connection with and is attributable to a Common Unit exchanged or redeemed by a TRA Holder, including with respect to Common Units contributed to X-Energy, Inc. by a TRA Holder in connection with the consummation of this offering.
- “*Existing Basis*” means the Exchange Existing Basis and IPO Existing Basis.
- “*FOAK*” means first-of-a-kind.
- “*Former Equity Owners*” refers to those Original Equity Owners other than the Blocker Companies and the Continuing Equity Owners.
- “*GAAP*” means U.S. generally accepted accounting principles.
- “*GFR*” means Gas-cooled Fast Reactors.
- “*Ghaffarian Enterprises*” means Ghaffarian Enterprises, LLC.
- “*GM Enterprises*” means GM Enterprises, LLC.
- “*HALEU*” means high-assay low-enriched uranium.
- “*HTGR*” means High Temperature Gas-cooled Reactors.
- “*HTF*” means Helium Test Facility.
- “*Incentive Units*” means the Class B-2 Common Units of Management LLC granted under the Management LLC Profits Interest Plan prior to the closing of this offering.
- “*Interest Deductions*” means deductions attributable to imputed interest and other payments of interest by X-Energy, Inc. pursuant to the Tax Receivable Agreement.
- “*IPO Existing Basis*” means the tax basis obtained by X-Energy, Inc. in connection with this offering or any subsequent capital contribution as a result of existing tax basis in certain assets of XERC and certain of its direct or indirect subsidiaries, including assets that will eventually be subject to depreciation or amortization, once placed in service.
- “*LLC Units*” means X-Energy Reactor Company, LLC’s existing Common Units and preferred units.
- “*Management LLC*” means X-Energy Management, LLC, a Delaware limited liability company.
- “*Material Breach*” means, with respect to the Tax Receivable Agreement, (i) subject to the exceptions set forth in the Tax Receivable Agreement (including the exceptions for failure to pay due to restrictions in X-Energy, Inc.’s debt instruments and similar agreements) X-Energy, Inc.’s failure to make a payment (along with any applicable interest) within ninety (90) calendar days of the applicable Final Payment Date (as defined in the Tax Receivable Agreement), (ii) an intentional material breach by X-Energy, Inc. of a material obligation under the Tax Receivable Agreement or (iii) the rejection of the Tax Receivable Agreement by operation of law in a case commenced in bankruptcy or otherwise.
- “*MPa*” means Megapascal.
- “*MSR*” means Molten Salt Reactors.
- “*NOAK*” means Nth-of-a-kind.
- “*NRC*” means the U.S. Nuclear Regulatory Commission.

- “*OPG*” means Ontario Power Generation, Inc.
- “*Original Equity Owners*” refers to the direct and certain indirect owners of XERC, collectively, prior to the Transactions.
- “*Person*” means any individual, firm, corporation, partnership, limited liability company, incorporated or unincorporated association, joint venture, joint stock company, governmental authority or instrumentality or other entity of any kind.
- “*Profits Interest Plan*” means the Profits Interest Plan of Management LLC in place prior to the closing of this offering.
- “*Recapitalization*” means the transactions whereby X-Energy Reactor Company, LLC will complete a recapitalization pursuant to which all outstanding equity interests in X-Energy Reactor Company, LLC will be converted or exchanged into Common Units.
- “*Reorganization Transactions*” has the meaning ascribed to it in “Organizational Structure”.
- “*Sarbanes-Oxley Act*” means the Sarbanes-Oxley Act of 2002.
- “*SEC*” means the U.S. Securities and Exchange Commission.
- “*Securities Act*” means the U.S. Securities Act of 1933, as amended.
- “*Series C-1 Investment*” means the purchase by the Series C-1 Investors of the Series C-1 Notes.
- “*Series C-1 Investors*” means those certain investors participating in the Series C-1 Investment.
- “*Series C-1 Notes*” means the Series C-1 Convertible/Exchangeable promissory notes issued by XERC.
- “*Series C-2 Investment*” means the purchase by the Series C-2 Investors of the Series C-2 Notes pursuant to the Series C-2 Securities Purchase Agreements.
- “*Series C-2 Investors*” means those certain investors participating in the Series C-2 Investment.
- “*Series C-2 Notes*” means the Series C-2 Convertible/Exchangeable promissory notes issued by XERC.
- “*Series C-2 Securities Purchase Agreements*” means the Series C-2 Convertible/Exchangeable Securities Purchase Agreements entered into between XERC and the Series C-2 Investors.
- “*SMR*” means Small Modular Reactors.
- “*Tax Receivable Agreement*” means the Tax Receivable Agreement to be entered into by and among X-energy, XERC and certain Original Equity Owners (the “*TRA Holders*”) at the consummation of this offering, pursuant to which, among other things, X-energy will be required to pay to each TRA Holder 85% of the amount of cash tax savings, if any, that it realizes (or in certain cases, is deemed to realize) as a result of the Existing Basis, Basis Adjustments, Blocker Tax Attributes and Interest Deductions. A copy of the form of Tax Receivable Agreement is attached to this prospectus.
- “*TRISO-X*” means TRISO-X, LLC, our wholly owned subsidiary.
- “*TRISO-X Fuel*” refers to the HALEU-based TRISO pebble fuel manufactured for the Xe-100 by our TRISO-X, LLC subsidiary.
- “*U.K.*” means the United Kingdom.
- “*U.S.*” means the United States of America.
- “*X-energy Founder*” means X-Energy Holdings, IBX Company Opportunity Fund 1, LP, IBX Company Opportunity Fund 2, LP, IBX Opportunity GP, Inc., X-energy KG Parent, LLC and GM Enterprises.
- “*X-Energy Holdings*” means X-Energy Holdings, LLC.
- “*XERC Group*” means XERC and each of its direct or indirect subsidiaries that is treated as a partnership or disregarded entity for U.S. federal, and applicable state and local, income tax purposes (but excluding any such subsidiary to the extent it is directly or indirectly held by or through any entity treated as a corporation for U.S. federal, and applicable state and local, income tax purposes (other than X-Energy, Inc.)).

- “*XERC LLC Agreement*” refers to XERC’s Eighth Amended and Restated Operating Agreement, which will become effective upon the consummation of this offering.
- “*XERC*” refers to our predecessor for financial reporting purposes, X-Energy Reactor Company, LLC.
- “*Xe-100 plant*” means the optimized four-reactor configuration of 320 MWe that the Xe-100 is expected to be commonly deployed in.

This prospectus includes certain historical condensed consolidated financial and other data for X-Energy Reactor Company, LLC. Immediately following this offering, we will be a holding company and the sole managing member of XERC, and upon completion of this offering and the application of proceeds therefrom, our principal asset will consist of common units of XERC. We will operate and control all the business and affairs of X-Energy Reactor Company, LLC and conduct our business through X-Energy Reactor Company, LLC and its subsidiaries. Following this offering, X-Energy Reactor Company, LLC will be the predecessor of X-Energy, Inc. for financial reporting purposes. As a result, the consolidated financial statements of X-Energy, Inc. will recognize the assets and liabilities received in the reorganization at their historical carrying amounts, as reflected in the historical financial statements of X-Energy Reactor Company, LLC. We will consolidate X-Energy Reactor Company, LLC on our consolidated financial statements and record a noncontrolling interest related to the LLC Units (as defined below) held by our Continuing Equity Owners (as defined below) on our consolidated balance sheet and statements of operations.

Presentation of Financial and Other Information

XERC is the predecessor of the issuer, X-Energy, Inc., for financial reporting purposes. X-Energy, Inc. will be the audited financial reporting entity following this offering. Accordingly, this prospectus contains the following historical financial statements:

- *X-Energy, Inc.:* Other than the balance sheet, dated as of December 31, 2025, the historical financial information of X-Energy, Inc. has not been included in this prospectus as it is a newly incorporated entity, has no business transactions or activities to date and had no assets or liabilities during the periods presented in this prospectus.
- *X-Energy Reactor Company, LLC:* As we will have no other interest in any operations other than those of X-Energy Reactor Company, LLC and its subsidiaries, the historical consolidated financial information included in this prospectus is that of X-Energy Reactor Company, LLC and its subsidiaries.
- *Unaudited Pro Forma Condensed Consolidated Financial Information:* This prospectus contains unaudited pro forma condensed consolidated financial information for the year ended December 31, 2025. The unaudited pro forma condensed consolidated financial information contained in this prospectus is derived from the “Unaudited Pro Forma Condensed Consolidated Financial Information” section of this prospectus. The unaudited pro forma condensed consolidated balance sheet as of December 31, 2025 contained in this prospectus presents the consolidated financial position of XERC after giving effect to the Transactions as if all such transactions had occurred on December 31, 2025 and has been prepared in accordance with Article 11 of Regulation S-X. The unaudited pro forma condensed consolidated statement of operations for the year ended December 31, 2025 contained in this prospectus presents the consolidated results of operations of XERC after giving effect to the Transactions as if all such transactions had occurred on January 1, 2025 and has been prepared in accordance with Article 11 of Regulation S-X. The unaudited pro forma condensed consolidated financial information is presented for informational purposes only and may not be indicative of the results that would have been achieved if the foregoing transactions had taken place on an earlier date or on the dates assumed. In addition, the unaudited pro forma condensed consolidated financial information does not purport to project the future financial condition and results of operations of XERC or X-Energy, Inc. See “Unaudited Pro Forma Condensed Consolidated Financial Information” for a complete description of the adjustments and assumptions underlying the summary unaudited pro forma condensed consolidated financial data.

Certain monetary amounts, percentages and other figures included in this prospectus have been subject to rounding adjustments. Percentage amounts included in this prospectus have not in all cases been calculated on the basis of such rounded figures, but on the basis of such amounts prior to rounding. For this reason,

percentage amounts in this prospectus may vary from those obtained by performing the same calculations using the figures in our consolidated financial statements included elsewhere in this prospectus. Certain other amounts that appear in this prospectus may not sum due to rounding. Figures shown as totals in certain tables or charts may not be the arithmetic aggregation of the figures that precede them, and figures expressed as percentages in the text may not total 100% or, as applicable, when aggregated may not be the arithmetic aggregation of the percentages that precede them.

Our fiscal year begins on January 1 and ends on December 31 of the same year.

TRADEMARKS, TRADE NAMES AND SERVICE MARKS

We use the X-energy logo and other marks as trademarks in the U.S. and other countries. This prospectus contains references to our trademarks and service marks and to those belonging to other entities. Solely for convenience, trademarks and trade names referred to in this prospectus, including logos, artwork and other visual displays, may appear without the ® or ™ symbols, but such references are not intended to indicate in any way that we will not assert, to the fullest extent under applicable law, our rights or the rights of the applicable licensors to these trademarks and trade names. We do not intend our use or display of other entities' trade names, trademarks or service marks to imply a relationship with, or endorsement or sponsorship of us by, any other entity.

MARKET AND INDUSTRY DATA

We are responsible for the disclosure contained in this prospectus. Information contained in this prospectus concerning the market and the industry in which X-energy competes, including its market position, general expectations of market opportunity, size and growth rates, is based on information from various third-party sources, X-energy's knowledge of the markets for its services and solutions, and assumptions made by X-energy based on such sources and knowledge. This information and any estimates provided in this prospectus involve numerous assumptions and limitations, and you are cautioned not to give undue weight to such information. Third-party sources generally state that the information contained in such source has been obtained from sources believed to be reliable but that there can be no assurance as to the accuracy or completeness of such information. Notwithstanding the foregoing, we are liable for the information provided in this prospectus. The industry in which X-energy engages or proposes to engage is subject to a high degree of uncertainty and risk. As a result, the estimates and market and industry information provided in this prospectus are subject to change based on various factors, including those described in the sections of this prospectus entitled "*Cautionary Note Regarding Forward-Looking Statements*" and "*Risk Factors — Risks Related to X-energy — Risks Relating to X-energy's Business*" and elsewhere in this prospectus.

PROSPECTUS SUMMARY

This summary highlights selected information contained elsewhere in this prospectus and provides an overview of the Company. This summary does not contain all of the information you should consider before investing in our Class A common stock. For a more complete understanding of our business, you should read this entire prospectus carefully, including the sections titled “Risk Factors,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations of X-energy,” “Business” and our audited consolidated financial statements and the related notes included elsewhere in this prospectus, before making an investment decision. Capitalized terms not otherwise defined in this prospectus have the meanings assigned to them under “Basis of Presentation and Definitions” included elsewhere in this prospectus.

Overview

Our company

X-energy is a leading designer of advanced nuclear reactor technology (commonly referred to as small modular reactors, “SMRs”) and manufacturer of advanced nuclear fuels. We believe these scalable, power generation technologies help satisfy historically unprecedented electricity demand growth, driven by the development of AI and associated data center infrastructure. Total demand for new electricity generation is expected to increase globally by 7,626 TWh from 2023 to 2030 and the challenges associated with meeting this demand have led policymakers and industry leaders to recognize nuclear energy, particularly advanced nuclear, as a key component to address this need.

Founded in 2009 by Dr. Kamal “Kam” Ghaffarian to bring clean, safe, secure and affordable technology to market, X-energy is seeking to redefine the energy industry through its flagship product, the Xe-100, an advanced small modular High Temperature Gas-cooled Reactor (“HTGR”), in development for nearly a decade. The Xe-100 reactor is designed to generate 80 megawatts of electric power or 200 megawatts of thermal output (heat), or a combination thereof. This reactor technology builds on more than 50 years of research and development by the global nuclear industry and the operating experience of previous HTGRs including those at Peach Bottom in the U.S., and Dragon in the U.K. in the 1960s-1970s, and more recently with China’s ongoing deployments of HTGRs in the 21st century.

The Xe-100 has several technological attributes that we believe make it advantaged compared to other sources of baseload generation. These include advanced safety features, virtually no direct greenhouse gas (“GHG”) emissions during generation, high thermal output, load-following capabilities and modularity, all of which allow X-energy to more specifically meet a customer’s power and/or industrial heat needs. X-energy’s simple Xe-100 design directly translates into simplicity of project delivery through reduced supply chain complexity and labor intensity during construction, which we believe will lead to lower cost and faster deployment timelines when compared with conventional nuclear energy sources. X-energy has optimized the deployment of its Xe-100 into a four-reactor format that outputs 320 MWe (or 800 MWt). By deploying four independent reactor modules instead of a single unit, this optimized four-reactor configuration inherently delivers the high levels of reliability and redundancy required for both AI and industrial heat applications.

X-energy’s reactors use a tri-structural isotropic (“TRISO”) coated particle fuel in the form of a spherical ‘pebble’, called TRISO-X fuel. This pebble fuel consists of HALEU fuel kernels individually encapsulated in layers of silicon carbide and pyrolytic carbon, forming miniature containment systems that trap fission products. These particles are then embedded in a graphite matrix to make fuel pebbles that possess exceptional safety margins and compacts, enabling operations at very high temperatures. The HALEU fuel used in our TRISO-X pebble fuel is enriched to 15.5%, a higher energy density form than the less than 5% low-enriched uranium (“LEU”) fuel used in conventional nuclear reactors. TRISO-X fuel will be produced at our fuel fabrication facility in Oak Ridge, Tennessee. The first facility, known as TX-1, began construction in October 2024 and is expected to be completed by the first half of 2028 (“TX-1”). Upon completion, it is expected to be North America’s first purpose-built commercial advanced nuclear fuel fabrication facility. The TX-1 facility will have sufficient production capacity to support the fuel fabrication needs of the first 11 Xe-100 reactors at steady state operations.

In addition to its technology leadership, X-energy has three high-quality customers in Dow, Amazon, and Centrica, who we expect will underpin the deployment of the initial fleets of Xe-100 reactors. Taken together, assuming each customer exercises its contingent rights in full, these three customers provide us with a more than 11 gigawatts electric (“GWe”), 144 reactor pipeline across the U.S. and the U.K. with advanced development efforts already underway on the first Dow project at its Seadrift Operations site in Texas and the first Amazon project in connection with Energy Northwest.

X-energy maintains a strong relationship with the DOE and in December 2020 was awarded an initial \$1.2 billion as part of its selection as one of two awardees in the ARDP, the most substantial federal commitment to deploying advanced nuclear technology. The cooperative agreement for the program, signed in February 2021 (the “ARDP Agreement”), provides 50/50 cost share of \$2.4 billion of eligible costs (\$1.2 billion reimbursement) through 2027, allowing X-energy to continue work toward design, licensing, commercialization and construction of its first-of-a-kind commercial advanced nuclear plant and commercial TRISO-X fuel fabrication facility, while benefiting from decades of nuclear experience and knowledge within the DOE.

As of December 31, 2025, X-energy has been reimbursed approximately \$438 million in funding under the ARDP Agreement. We submit our budgets through an ongoing “budget period” basis tied to project milestones under the ARDP Agreement, and our current budget covers a budget period that began in March of 2025 and extends through August 2026. We submit a Continuation Application to the DOE to extend funding into subsequent periods. Extensions beyond the current budget period are subject to DOE discretion and approval. Under the terms of the ARDP Agreement that rely on the Office of Management and Budget (OMB) guidance, the total extension of the award may not exceed three years (for a total period of performance of 10 years). Any additional extension would require an approval within DOE above the level of the Contracting Officer. If we are unable to obtain extensions and incur eligible costs beyond the currently approved period of performance, we would forgo reimbursement for such costs and may face deobligation of unobligated funds at closeout. There can be no assurance that we will receive additional ARDP funding beyond the current budget period or that extensions will be granted.

Our organizational structure following the offering and the Reorganization Transactions is commonly referred to as an umbrella partnership-C corporation (or “Up-C”) structure. Pursuant to this structure, following this offering we will hold a number of Common Units equal to the number of shares of our issued and outstanding Class A common stock, and holders of Common Units (each, an “Common Unit holder”) (other than us) will hold a number of Common Units equal to the number of our issued and outstanding Class B common stock. The Up-C structure was selected in order to (i) provide our Continuing Equity Owners with an option to continue to hold their economic ownership interests in our business in “pass-through” form for U.S. federal income tax purposes through their ownership of Common Units and (ii) potentially allow our Continuing Equity Owners and us to benefit from certain net cash tax savings that we might realize in the future, as more fully described in the subsection titled “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.”

Our Market Opportunity

Load growth is accelerating globally with the International Energy Agency (the “IEA”) estimating electricity consumption to grow by more than 25% from approximately 30,000 TWh in 2023 to approximately 37,000 TWh by 2030. In the U.S., power demand is being driven by the increasing data center buildout from cloud computing providers, industrial growth and reshoring of manufacturing, and broader electrification (e.g., electric vehicle installed base). Other sources (BNEF New Energy Outlook 2025) also indicate that power demand is being driven by growing load growth demand from AI and industrial use. Policymakers and industry leaders recognize that nuclear, particularly advanced nuclear, will be a key contributor to meeting this load growth and securing America’s energy independence, with the stated goal of the current federal administration to expand U.S. nuclear capacity to 400 GWe by 2050 (from approximately 97 GWe at present).

We believe the market for SMRs is vast and that X-energy is well positioned to capture this opportunity. According to a 2024 report from PA Consulting, the U.S., the U.K. and Canada, X-energy’s planned core markets, comprise approximately one-third of potentially serviceable global electricity usage. Across these three geographies, there is an estimated total addressable market (“TAM”) of cumulative capacity additions of 743 GWe and 1,146 GWe by 2040 and 2050, respectively. Of this TAM, PA Consulting estimates 72 GWe in

2040 and 158 GWe in 2050 will be best served by SMRs based on needs, siting efficiencies, and demand for co-generation. These capacity additions, across a representative set of SMR use cases including powering data centers, utility power generation, industrial applications and behind-the-meter (“BTM”) generation, implies a potential need for approximately around 1,975 Xe-100 reactors (the equivalent of 494 four-reactor deployments), or an estimated \$2.3 trillion market opportunity for X-energy in 2050.

We believe the following secular movements will continue to support the use cases and power needs for scalable, firm, clean baseload power that SMRs, particularly the Xe-100, can deliver.

- ***Demand for AI is Prompting Investment in Nuclear Power Generation.*** Cloud computing providers and AI companies are deploying capital across data center infrastructure to keep up with the growing computing demand required by AI. As part of this expansion, electricity demand in the U.S. from data centers is expected to grow from approximately 108 TWh in 2020 to approximately 426 TWh by 2030. Since data center facilities must be continuously powered, nuclear generation can provide a key solution for reliable supply. SMRs are particularly well suited to meet the average 300 MWe to 1,000 MWe power capacity that data centers require. SMRs have a smaller physical footprint to meet siting requirements, and have modular scalability which provides the flexibility to meet facility-specific capacity needs.
- ***High Carbon-Intensity Industrials Require Replacement for Industrial Heat and Steam Production.*** Industrial companies have historically relied on fossil fuel fired boilers to generate electricity and steam for their industrial processes. The current installed base of industrial boilers operates below capacity and is frequently offline for maintenance. The current fleet is facing a near-term replacement cycle due to age. For industrial processes requiring consistent steam availability, X-energy’s HTGR solution can reliably provide industrial steam in addition to onsite power. With an expected capacity factor of 95%, X-energy’s SMR presents a compelling replacement opportunity for aging infrastructure to both decarbonize and achieve greater reliability.
- ***Current Alternatives Are Not Well-Suited to Deliver Reliable, Uninterrupted, Clean and Co-Located Power.***
 - *Renewables with or without energy storage* — Solar and wind generation have relatively low-capacity factors (i.e., the actual energy output in a given period of time relative to its theoretical maximum output) of 23% and 33% (EIA) respectively, since they only produce power when the sun is shining or the wind is blowing. Addressing this inherent intermittency issue would require the integration of large-scale battery energy storage systems or supplementary dispatchable generators for the production capacity of these renewables to even be comparable with the anticipated 95% capacity factor of our reactor. Large-scale deployment of battery storage is complicated by global supply chain availability and incremental cost.
 - *Conventional fossil fuel generation with or without carbon capture* — Standalone fossil fuel fired generation can deliver capacity factors similar to those of nuclear power but often require backup generation when maintenance takes key assets offline. Conversely, the Xe-100 can deliver critical redundancy due to its modular nature which results in a reliability advantage without requiring grid redundancy. Further, many consumers and governments have climate targets, giving SMRs (with virtually no direct GHG emissions from energy generation) a distinct advantage over carbon-intensive alternatives such as coal, oil, and natural gas generation, which would require pairing them with expensive carbon capture solutions to try to meet climate targets.
 - *Traditional Nuclear Power* — Large-scale nuclear, while typically operating around-the-clock (other than planned outage maintenance and refueling cycles, as compared to the Xe-100’s online refueling), requires a large footprint and has consistently suffered from historical project delays and cost overruns. By contrast, advanced nuclear requires a much smaller operating footprint, on average about 1/4th to 1/10th that of a traditional nuclear plant. Additionally, HTGR sites in the U.S. will require a significantly smaller safety zone radius (400 meters versus 16 kilometers) because of built-in passive safety features. These safety characteristics enable lower costs and more compact designs due to a reduction in the quantity of concrete and steel safety infrastructure. The smaller overall footprint of SMRs allows co-location with new power demand hubs, and the modular nature of the Xe-100 enables scalable power output through additional on-site reactors to match specific needs.

- **Ongoing Support from the U.S. Government Beyond the ARDP.** Support for nuclear power has been increasing over the past decade with billions of additional dollars being allocated to nuclear energy through recent energy-related legislation. For instance, the One Big Beautiful Bill Act (“OBBBBA”), signed in July 2025, maintained tax credits that were first introduced as part of the Energy Policy Act of 2005 and later expanded under the Inflation Reduction Act for nuclear projects. Additionally, the U.S. President issued four Executive Orders in May 2025, including support for the acceleration of regulatory review for advanced nuclear reactors and promotion of investment in a domestic nuclear supply chain. We believe these broader initiatives, building from U.S. nuclear policy precedent, will provide long-term support for advanced nuclear reactors like the Xe-100.

Competitive Strengths

As pioneers of next generation nuclear reactor and fuel technologies, we believe that our collective expertise can allow us to capitalize on our competitive strengths. We believe we will establish a leadership position in the evolving market, including by leveraging the strengths of our early customer relationships to give us a differentiated path to success.

Existing Customer Base Provides Initial Momentum and Support. Both Dow and Amazon have supported our initial projects, and we expect will serve as offtake customers in the future. These initial projects also enable X-energy’s goal of scaling its design to two different offtake customer applications: Industrial Heat Applications and Data Center Projects. Dow and Amazon also provide project development insight through their own operations portfolios. X-energy expects to learn from and engage with these and other customers as it builds the pipeline. This repeatable project schedule, which is also anticipated for the recently announced Centrica partnership, is expected to enable X-energy to scale from First-of-a-Kind to an Nth-of-a-Kind model that we believe will reduce our project cost and significantly derisk future projects.

Differentiated Design that Provides Attractive Solution for Customers. The characteristics of the Xe-100 provide several advantages over many other energy production alternatives. First, traditional renewables like wind and solar cannot provide reliable baseload power without being paired with longer-term storage technologies. They are also dependent on exogenous factors, which make them incapable of quickly ramping up to address increases in demand. Second, the Xe-100 has a versatile design that can be applied to several end markets, including industrial heat and conventional power generation. In addition, other emerging SMR technologies, many of which are based on conventional light water reactor (“LWR”) technology, may not be designed to efficiently load-follow or operate at temperatures high enough to provide industrial heat, and are further constrained by the availability of large amounts of water, a constraint that the Xe-100 does not have.

Improved Proven Technology. Unlike some other advanced reactor technologies, X-energy is leveraging HTGR technology that has been previously deployed across the globe, including in the U.S. at Peach Bottom and in the U.K. at Dorset (Dragon), and building on more than 50 years of research and development by the global nuclear industry. Both of these reactors served as proof-of-concept for the HTGR technology in the U.S. and, along with other HTGRs in Europe and Asia, provide valuable experience and data that X-energy has used to improve its design, leading to a more efficient, commercially deployable technology.

Intrinsically Safer Based on Physics without Needing Active Safety Systems. Our simplified Xe-100 reactor design is not dependent upon active safety systems, which are susceptible to failure and therefore necessitate the redundancy found in a typical LWR reactor design. Our design relies on physics and intrinsic safety features, such that in the event of a total loss of power to a Xe-100 reactor, the reactor does not require any operator or computer actions, grid connections, emergency backup power or additional water to cool the reactor. The reactor has a strong negative temperature coefficient, which means that increased temperature (such as from the loss of coolant circulation) slows the fission reaction, causing the reactor to shut down. Finally, due to the relatively low power density of the core, the remaining heat load is naturally dissipated through passive cooling.

Superior Fuel Based on Decades of Research & Development. We expect our TRISO-X fuel to demonstrate technical quality and a streamlined fuel qualification pathway, providing us a competitive edge in the commercial fabrication of TRISO fuel forms. The TRISO-X fuel used in the Xe-100 is a containment vessel itself and designed not to melt, enabling the technological and safety advantages of the HTGR. Due to decades of research, development and testing, including the DOE’s Advanced Gas Reactor (AGR) Fuel

Development and Qualification Program, the TRISO-X particle fuel is relatively well understood. This historical data has established the parameters for TRISO-X fuel testing and qualification. Our TRISO-X pebble fuel qualification methodology is approved by the NRC, and we have a streamlined path towards final fuel qualification by the time of our first Xe-100 deployment.

Attractive Intellectual Property-Driven Business Model. X-energy serves as both a reactor technology provider and a fuel fabrication provider, offering customers an integrated solution. In our reactor business line, we expect to receive technology fees for licensing use of our proprietary Xe-100 technology, while also receiving fees for coordinating assembly and construction support with customers and anticipated blue-chip third-party vendors. We also intend to leverage our knowledge and expertise in regulatory licensing, construction, procurement, operations, maintenance and other processes to provide customers with a full suite of services from the development of a project, and ultimately for the operating life of the reactors. We do not construct the power plants and do not plan to own or operate the power plants once constructed and, as a result, do not incur capital expenditures relating to constructing, maintaining, owning or operating the facilities. However, we intend to remain involved with the EPC process throughout the project by providing strategic consulting related to the integration of the reactor technology. We believe this intellectual property-driven business model will position us to generate attractive free cash flow.

Leading TRISO Fuel Provider. From our TRISO-X fuel manufacturing facilities in Oak Ridge, Tennessee, X-energy plans to provide customers with initial reactor fuel loads of as well as ongoing delivery of TRISO-X fuel required to refuel plants over the lifetime of a plant. This provision of fuel to our customers would generate a strong, recurring, revenue stream. X-energy's fuel can also be fabricated for other advanced reactor technologies, making it a key enabler of the broader advancement of the SMR space. X-energy was selected to receive one of the first allocations of HALEU from the DOE. This HALEU is required to begin initial fuel production but X-energy does not, and does not intend to, bear any significant inventory risk associated with uranium or fuel feedstock. We intend to provide only fabrication supply services (e.g., transformation of HALEU into the final TRISO-X fuel form) for customers and assume limited risks associated with holding the title to uranium or enriched uranium fuel feedstock.

Visionary Management Team and Highly Expert Employee Base. We have an experienced and passionate team of leaders and innovators who have been directly involved in the development of advanced nuclear technology and who have led large-scale nuclear projects and operations. As of January 1, 2026, we have a highly educated workforce of 889 employees, of whom 312 have master's degrees and 107 have Ph.Ds. Our executive leadership team has experience in nuclear design, nuclear project delivery, nuclear fuel fabrication, operations, government relations and public companies in organizations such as OPG, Hitachi-GE Nuclear Energy, Ltd. ("GEH"), the DOE, the Nuclear Regulatory Commission, Constellation Energy, Hunt Consolidated, BWXT, Westinghouse, Hartree Partners, and Emirates Nuclear Energy Corporation. The management team is led by our CEO, J. Clay Sell, who is one of the foremost leaders in the U.S. energy market. As the former Deputy Secretary of the DOE, he brings the perspective of the U.S. energy industry to X-energy. Further, his experience in renewables development after his time as Deputy Secretary has given him key experience in major project development and valuable insight into the limitations of intermittent renewable technologies, and in turn the value of nuclear generation.

Strength of Government Relationships. The ARDP significantly derisks the delivery of X-energy's First-of-a-Kind reactor deployments through the Dow Project. Because of the 50/50 cost share program, X-energy has had significant ongoing engagement with the DOE and benefits from the DOE's collective knowledge and support. Further, X-energy has developed high credibility with the Nuclear Regulatory Commission through our ongoing engagement for both our FOAK Fuel Fabrication facility and Dow projects, evidenced by the docketing of the first Construction Permit Application for an 18-month review schedule, one of the shortest CPA timelines ever given.

Our Business Model

We have an intellectual property-driven business model based on our reactor and fuel. We expect to derive revenues from technology licensing, services and fuel operations that span the development and operation of the reactors.

- **Reactors:** The revenue stream from reactors includes technology fees for the use of our intellectual property of the Xe-100 technology. We will not own and operate the facilities themselves, which we believe significantly reduces the amount of capital needed to operate our business.

We anticipate offering site-specific engineering and site characterization, project planning, assembly coordination, construction support, regulatory support, procurement support and long-term services to customers. Utilizing our knowledge and expertise in licensing, construction, procurement and other processes, we plan to provide customers with a full suite of value-added services during development of the nuclear power facilities. At the same time, we expect to generate long-term recurring revenue from services such as the ongoing maintenance and operator training through the anticipated 60-year life of a facility.

- **Fuel:** We intend to provide manufacturing services to customers, including producing an initial fuel load of both TRISO-X fuel and an LEU-based TRISO fuel at commissioning of a plant. We expect to generate additional long-term recurring revenue from our own proprietary TRISO-X fuel that is required to refuel plants during the anticipated 60-year life of each facility. We expect to bear limited inventory risks related to uranium or enriched uranium fuel feedstock. We intend to provide only fabrication supply services (e.g., transformation of HALEU into the final TRISO-X fuel form) for customers and assume limited risks associated with holding the uranium or enriched uranium fuel feedstock. Additionally, we will not have any responsibility for spent fuel management beyond the design of such facilities to adequately handle spent fuel during the life of the plant. During operations, spent fuel remains the responsibility of the plant operator. Thereafter, permanent spent fuel management remains the responsibility of the DOE.

Growth Strategies

We intend to grow our business by leveraging the competitive advantages of our differentiated and reliable Xe-100 technology and our strong customer and government relationships to achieve scale. We believe we have several avenues to achieve our growth objectives:

Continue to Develop our Next Generation Technology. We intend to continue developing our reactor and fuel technology with the goal of achieving commercial delivery of our first fleets of reactors by the early 2030s. We have substantially advanced detailed design for the Xe-100 and are working with our engineering and construction partners to complete that process. Furthermore, we will work with our initial Xe-100 customers to complete the site-specific environmental studies required for licensing and progress toward the submission of the construction permit application, including the preliminary safety analysis report. We have produced TRISO-X pebble fuel in kilogram batch quantities in our fuel fabrication pilot facility and have begun construction on North America's first purpose-built commercial advanced nuclear fuel fabrication facility in Oak Ridge, Tennessee.

Execute on Attractive Business Development Pipeline. We believe the market for our Xe-100 and TRISO-X fuel technologies is wherever non-intermittent, reliable power is needed. We are initially focused on deploying our advanced SMRs to both industrial (including large-scale chemical manufacturing) and cloud-based service provider customers (e.g. data centers) who have needs for both electric power and efficient production of high-temperature steam with high reliability needs. We also plan to serve traditional utilities and independent power producers ("IPPs") seeking to replace carbon-intensive fossil-fueled power plants in their jurisdictions.

Leverage Repeated Project Execution Learnings to Scale From FOAK to NOAK. Traditional nuclear has been plagued by cost and schedule overruns. Vogtle units 3 & 4 cost more than \$16.0 billion each and were seven years over schedule in part because they were the first and second AP1000 reactors deployed in the U.S. While the fourth unit was reportedly approximately 20% less expensive than the third as learnings were applied, achieving expected Nth-of-a-Kind scale with standard costs and schedule timelines is possible only through repeated project delivery over a large order book. The DOE and industry experts expect that Nth-of-a-Kind delivery can unlock potential savings of more than 30%. Starting with Dow and Amazon, X-energy is already working to deliver eight reactors across its first announced sites at Seadrift, Texas and Richland, Washington, respectively. With substantial potential for further targeted pipeline with Amazon and Centrica, we expect to be able to achieve reductions in costs and the acceleration of schedule timelines as we deliver more reactors in

the future. We believe that NOAK will be achieved through repetitive project execution and financial de-risking, including early supply chain engagement, construction timeline compression, and regulatory streamlining. As we apply lessons learned from each deployment, we expect these steps will significantly reduce overall project execution costs and risks for subsequent Xe-100 projects.

Continue Geographic Expansion. Our initial core markets are the U.S., Canada and the U.K., which have sophisticated regulators that are capable of licensing our technology. Beyond these initial geographies, which together represent only one-third of the serviceable energy consumption, we anticipate expansion into new markets where we already have customer engagement, including countries in Eastern Europe, the Middle East and East Asia.

Drive Technology Advancements. Using our innovative technology platform, we believe that we are well-positioned to continue making technology advancements over time. These improvements include optimizing the Xe-100 for industrial heat applications and innovations in the design to support steam outlet temperatures greater than 800° C to support more efficient hydrogen production processes.

Develop New Products. We continue to explore the development of innovative new products based on our core technology and varied use cases for our proprietary Xe-100 reactor, TRISO-X fuel and other microreactor technologies. TRISO-X is currently performing fuel fabrication work for others whose reactor technologies also use TRISO-based fuel, including space applications. Similarly, our Emerging Technologies team is involved in U.S. government-funded studies (such as those from the DOD) for innovative remote powering and lunar applications that may involve our microreactor and related technologies.

Our Technology

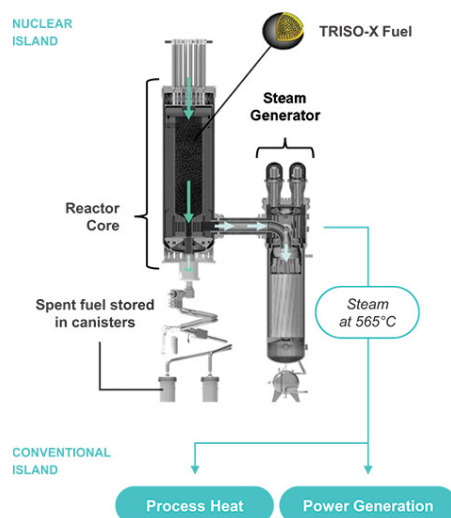
X-energy was founded by Kam Ghaffarian. The technology used today was matured through the Pebble Bed Modular Reactor program, a South African public-private partnership which advanced high temperature gas-cooled reactor technology. X-energy initially focused on the conceptual design of the Xe-100, discussed below, with an emphasis on top-level requirements designed to meet the broadest set of use cases. The company has continued to mature the Xe-100 design and has expanded into the production of TRISO fuel. Finally, X-energy has developed the design for the XENITH microreactor and we continue to invest in other research and development efforts.

Xe-100—Our Advanced Reactor Technology

The Xe-100 is an HTGR which is designed to have advantages in economics, reliability and safety over conventional LWRs and other advanced SMR designs. The Xe-100 is a Generation IV advanced nuclear technology that has been designed to remedy weaknesses associated with traditional LWR designs. The Xe-100 can efficiently produce electricity or process heat. When configured for electricity generation, each reactor can power an 80 MWe turbine generator. Deployment of these reactors is scalable and is optimized in a four-reactor configuration to form a 320 MWe power plant.

The Xe-100 has made substantial progress in the NRC licensing process in the U.S. After several years of pre-application engagement, we supported Dow's subsidiary, Long Mott Energy, LLC, in submitting a construction permit application to NRC for the proposed advanced nuclear project utilizing the Xe-100 reactor design in Dow's Seadrift, Texas site. The pre-application engagement was intended to help reduce licensing risk, as regulatory challenges or delays can materially affect a project's timing, cost, design or overall viability. Citing the completeness and quality of the application, and the effectiveness of pre-application engagements, the NRC established an 18-month review schedule to complete its safety and technical reviews for the Dow Construction Permit Application.

Xe-100 Schematic



One Xe-100 plant produces 320 MWe¹

Note: Figure is intended to represent an illustrative rendering and is for illustrative purposes only.

The Xe-100 has the following characteristics:

- **Cleaner and more reliable** — Like all nuclear reactors, HTGRs produce virtually zero direct GHG emissions during energy generation, are “always” on (at 95%+ availability), and provide firm, dispatchable power that is cleaner than most available firm alternatives.
- **Designed with Intrinsic Safety Features** — The Xe-100 HTGR is safer by design and because of the intrinsic physics of the reactor, requires fewer mechanical safety systems than traditional nuclear as well as fewer personnel for operations.
- **More Secure** — The TRISO-X pebble fuel is a containment vessel in itself, supporting the secure nature of the Xe-100.
- **Scalable** — The Xe-100 is expected to be commonly deployed in its optimized four-reactor configuration of 320 MWe, referred to as the “Xe-100 plant,” with the opportunity to scale on site to additional reactors as needed.
- **Streamlined** — Due to its superior intrinsic safety attributes, the Xe-100 design needs fewer safety-related specialized materials and therefore utilizes substantially more off-the-shelf components than traditional nuclear reactors, allowing for scalability from commercial vendors.
- **Versatile** — In addition to electricity, the Xe-100 plant can be configured to deliver high temperature steam at 565°C, providing a solution for difficult-to-decarbonize industrial heat applications such as oil sands operations, mining, chemical production and petroleum refining and other industrial processes.
- **Load-following** — The Xe-100 is designed to ramp down from full power to 40% power in minutes and ramp back up in a similar short time span.

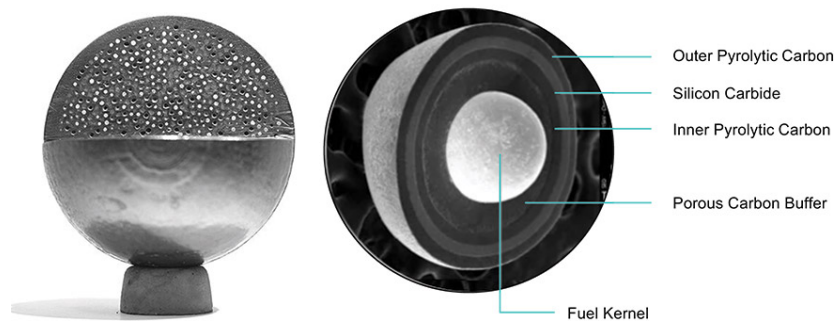
TRISO-X Pebble Fuel — Our Proprietary TRISO Fuel

Our reactors use TRISO particle fuel, a technology first developed in conjunction with the U.K.’s Dragon reactor in the 1960s. The DOE describes TRISO particles as “the most robust nuclear fuel on Earth.” We manufacture our own TRISO fuel using proprietary methods, through our wholly owned subsidiary, TRISO-X, LLC, to ensure supply and quality control. Further, many of the advanced nuclear reactor designs in development are expected to be powered by TRISO fuel or other coated-particle fuels. As part of our business model, we intend to not only fabricate and sell TRISO-X fuel to our customers but to also fabricate and sell TRISO-X fuel and other encapsulated fuels to other advanced nuclear reactor customers, including governmental and private entities.

Safe, established fuel form: While TRISO fuel is already an established fuel after decades of research and development, we expect our proprietary fabrication method to further differentiate our TRISO-X fuel and deliver a competitive edge in the commercial fabrication of TRISO fuel forms. We anticipate our patented and novel process will demonstrate superior quality characteristics as well as economic performance compared to historical TRISO and potential future TRISO competitors. The TRISO-X pebble fuel is a containment vessel in itself, encased in graphite, pyrolytic carbon and silicon carbide and designed not to melt due to its ability to withstand extreme temperatures. After HALEU has been encased in a TRISO pebble form, security and proliferation risks are substantially reduced. Its robust nature allows for passive safety and, we expect a small emergency planning zone for our reactors, providing additional flexibility in site design and access to non-traditional nuclear markets and customers.

Robust integrity: Our TRISO-X pebble fuel is designed not to melt due to its robust construction. This structure minimizes the requirement for the extensive use of expensive and large concrete and steel containment structures typically required in conventional reactors.

TRISO-X Fuel X-energy’s Proprietary TRISO Fuel



Integrated fuel fabrication business: We currently manufacture TRISO-X fuel in our TRISO-X Pilot Facility in Oak Ridge, Tennessee, which has operated since 2016. In February 2026, we received a Special Nuclear Material License from the NRC that establishes TX-1 as the first-ever Category II nuclear fuel facility licensed in the United States. TX-1 will be a state-of-the-art Category II nuclear facility designed specifically for handling and processing HALEU feedstock for the fabrication of TRISO-X pebble fuel. We anticipate constructing TX-2 on the same site, which will allow for the license to extend to both facilities. We do not expect to hold significant inventory of the fuel feedstock, which we expect to be procured by our customers. Our business will be fabricating the pebble fuels into their final fuel form for customers to purchase for operation of the Xe-100 reactor and its refueling needs.

Path to qualification due to extensive R&D: The ability to leverage decades of prior TRISO research and development, particularly the DOE’s Advanced Gas Reactor (AGR) Fuel Development Program, provides

X-energy with a well-defined pathway for fuel qualification. X-energy's TRISO-X Pebble Fuel Qualification Methodology has been approved by the NRC and references the AGR test results as a basis for qualification. This established framework provides X-energy a streamlined path towards obtaining qualified TRISO-X fuel by the time of its first Xe-100 deployment. Based on the approved fuel qualification methodology, we are currently in the irradiation test phase and in the final stages of qualifying our TRISO-X pebble fuel.

Long-term revenues derisked: We plan to provide our Xe-100 customers with their initial fuel loads while generating additional long-term and recurring revenue streams by refueling Xe-100 reactors throughout their anticipated 60-plus year lives. We further assume that we will be the initial sole supplier of proprietary TRISO-X fuel.

Research and Development

In addition to our core Xe-100 reactor, we continue to innovate and develop new products with our Emerging Technologies team. We are expanding our portfolio to address a broader range of energy needs and use cases beyond utility-scale power generation.

XENITH Microreactor

We have developed the XENITH microreactor, a compact solution designed to deliver reliable energy in locations where traditional power infrastructure is unavailable, impractical or vulnerable. XENITH is designed to be deployed in months and operate continuously for 20 years, delivering 3-10 MWe of electricity with minimal maintenance requirements.

XENITH is not yet operational but is currently exploring commercialization opportunities. The development of the microreactor began in the Pele program through the U.S. Department of Defense ("Project Pele"), for which X-energy was awarded approximately \$60 million in various contracts. Conceptual design was progressed during Pele Phase 1 and 2, and design work has continued into what is now the XENITH microreactor. The microreactor is likely to be deployed in a 5 MWe format, or as dual reactors in a 10 MWe electric format.

Like the Xe-100, XENITH is also a High Temperature Gas-cooled reactor that runs on TRISO fuel. The required fuel is expected to be in the form of compacts rather than pebbles. The expected operating temperature is 750 degrees Celsius. The value proposition is expected to be as follows:

- Scalable Power. Factory-built, transportable nuclear energy solution that prioritizes rapid site readiness and compatibility with existing infrastructure to support deployment in a wide range of locations.
- Resilient & Reliable. Provides reliable, long-term power with no required refueling over the 20-year lifetime, eliminating vulnerability to supply chain disruptions while providing 24/7 reliability.
- Tailored to the Target Market. Military, defense, and remote applications, including potential for black-starts, and remote communities that require secure, independent power.

Space Applications

Our innovative HTGR design and high-temperature-resistant fuel make a unique and compelling combination for nuclear electric propulsion, nuclear thermal propulsion and lunar surface power.

Our use of robust TRISO fuel in combination with innovative reactor designs and advanced moderator materials, all work together to increase the efficiency of the fission reaction while minimizing bulk and weight, keeping the reactor light enough for spaceflight. These characteristics have allowed us to develop viable concepts for a Fission Surface Power (FSP) reactor. This concept was studied through a joint venture award from the DOE and the U.S. National Aeronautics and Space Administration (NASA) in June 2022 to advance the design of a Fission Surface Power (FSP) solution.

Our Customers

Dow

Dow is X-energy's first customer to receive a reactor and is a global leader in the specialty chemicals industry, involved in the manufacturing and distribution of a wide range of chemical and plastic products. In

the course of its annual operations, Dow produces over 12 million MWh of electricity and is committed to the ongoing decarbonization of its operations.

X-energy has partnered through a Master Project Development Agreement (“MPDA”) and Commercial Cooperation Agreement (“CCA”) with Dow to provide our services in support of a FOAK deployment of four Xe-100 reactors to provide power with virtually zero direct GHG emissions and industrial steam at Dow’s UCC Seadrift site in Texas. With the support and assistance of X-energy, Long Mott Energy, LLC, a wholly owned subsidiary of Dow, filed a Construction Permit Application (“CPA”) with the NRC in March 2025 which was docketed in May 2025 for an 18-month review period with an expected review completion by late 2026 and receipt of the CPA expected in the first quarter of 2027. Initial construction can commence after receipt of the CPA.

Dow provides expertise in plant design and industrial heat as well as in the development of the Xe-100’s first plant, which will be a first-of-its-kind co-generation facility with unique heat capabilities not available in other technologies. Under the CCA, as between the parties, X-energy will own the intellectual property related to the reactor systems, controls, software, and related nuclear plant technologies, as well as fuel technology-related intellectual property, created by the parties for this project. As between the parties, Dow will own all of the conventional island intellectual property related to the non-nuclear systems that turn reactor steam into electricity and run steam and water for the facility, as well as intellectual property for equipment and processes that sit outside both the nuclear and conventional plant areas, created by the parties for this project.

Amazon

After an extensive evaluation of potential carbon free generation solutions for its extensive data center footprint, Amazon made an equity investment in X-energy in 2024 and announced options to bring more than 5 GWe of new Xe-100 projects online across the U.S. by 2039, which assuming full exercise of these options, will represent the largest commercial deployment target of SMRs to date as of August 2025.

The first deployment under this 5 GWe total potential target is a project with Energy Northwest in central Washington. Amazon and Energy Northwest entered into a Carbon Free Development and Funding Agreement for an initial deployment of four reactors representing 320 MWe, with the potential to upsize the power capacity to 960 MWe.

Centrica

Centrica is a major provider of energy services across the U.K. and owns a 20% stake in the full fleet of operating nuclear reactors in the country. In September 2025, X-energy and Centrica signed a Joint Development Agreement (“JDA”) dedicated to building and operating Xe-100 reactors in the U.K. The announcement followed a pledge from President Donald Trump and Prime Minister Keir Starmer to work together on nuclear power and constitutes a new strategic commercial alliance to accelerate the deployment of SMRs, bringing together a leading player in delivering the U.K.’s clean energy future and the developer of the world’s most advanced nuclear technology.

The Xe-100 was selected after a significant review period by Centrica of advanced Gen IV nuclear technologies. Centrica prioritized partnership with X-energy because of the reactor’s safety and capabilities for industrial heat that Centrica sees as key to expansion in the U.K. market. The U.K. government is currently pursuing a “three-legged” approach to nuclear development, designed to ensure a diverse and resilient nuclear energy sector. Under this strategy, the first “leg” focuses on large-scale nuclear projects, such as those being developed in partnership with EDF, to provide substantial baseload power. The second “leg” supports the deployment of Gen III+ light water SMRs, with Rolls Royce’s SMR technology selected as the leading solution in this category. The third “leg” is dedicated to other small and advanced modular reactors, including HTGRs like Xe-100, which are prioritized for their potential to deliver both electricity and high-grade industrial heat, supporting decarbonization across a range of sectors.

X-energy and Centrica have identified Hartlepool as the preferred site for the first of a planned U.K. fleet of approximately six GWe (representative of 76 reactors likely deployed as 19 four-reactor configurations). A project at Hartlepool will be comprised of up to twelve 80 MWe reactors, each with the capability to provide

high temperature steam for industrial decarbonization. Subject to securing appropriate permissions and licenses, the first electricity generation is expected to be in the mid-2030s.

Other Key Partnerships

Department of Energy

Through the ARDP, we are partnering with DOE and others to build the world's first commercial scale advanced nuclear reactor. In December 2020, X-energy, initially in collaboration with Energy Northwest, was selected for an award, initially in the amount of \$1.2 billion to deliver a first-of-a-kind commercial advanced nuclear plant and TRISO-X fuel fabrication facility. This project is now being developed with Dow with continued financial support from the DOE on a 50/50 cost share basis. As one of only two parties selected out of many applicants for the ARDP, X-energy was recognized as having an advanced reactor technology of choice.

Ontario Power Generation

In 2022, X-energy and OPG entered into a framework agreement to work exclusively with one another with respect to advanced nuclear power industrial applications in Ontario, Canada, and to co-market and advance the Xe-100 as the nuclear technology of choice for industrial applications throughout Canada. OPG will be the operator of any Xe-100 facilities that are deployed under this agreement. OPG is also an equity investor in X-energy.

Talen Energy Corporation

In March 2026, X-energy and Talen Energy Corporation ("Talen") signed a Letter of Intent ("Talen LOI") to assess deployment of X-energy Xe-100 reactors in Pennsylvania and across the PJM Interconnection Regional Transmission Organization market. Under the Talen LOI, which is non-binding, X-energy and Talen plan to conduct early-stage project development activities, feasibility studies, site evaluations, and a project execution framework. The parties have not entered into binding agreements at this stage.

Our Key Supply Chain Partners

We have a network of partners that enable our growth and success. These partners include:

- ***Curtiss-Wright.*** Curtiss-Wright is a leading U.S. designer and supplier of critical nuclear power plant systems, equipment, services, and spare parts to the U.S. domestic and global nuclear power industry. Following several competitive bid processes, X-energy selected Curtiss-Wright as the successful bidder for multiple Xe-100 systems. Curtiss-Wright was selected as a preferred strategic supplier to X-energy for the ARDP and subsequent Xe-100 projects in the U.S. Curtiss-Wright is an equity investor in X-energy.
- ***Doosan Enerbility ("Doosan").*** Doosan is a preferred strategic supplier to X-energy. Doosan is a major global manufacturer and supplier of core components of nuclear power plants, such as reactor pressure vessels, steam generators, and steam turbines. Doosan has a vertically integrated manufacturing facility in Changwon, Korea, which is capable of raw material production to final assembly of nuclear components. Doosan has manufactured and supplied 34 reactor pressure vessels and 124 steam generators globally. Doosan is an equity investor in X-energy. In December 2025, Doosan signed a Reservation Agreement with X-energy, committing to the construction of a new SMR fabrication facility to support the execution of X-energy's more than 11 GWe commercial pipeline.
- ***DL E&C.*** DL E&C will work with X-energy to identify opportunities around the world to employ best practices to support the development and deployment of Xe-100 plants on a global scale. Founded in 1939, DL E&C has the longest business history among construction companies in Korea and has maintained a top ten Korean engineering and construction company ranking for the past 50+ years. DL E&C is the flagship company of DL Group, and has a broad range of experience in global mid/downstream energy sector engineering, procurement and construction, providing total services and

solutions in more than 35 nations, focusing on a more sustainable and better future. DL E&C is an equity investor in X-energy.

- *Korea Hydro & Nuclear Power (“KHNP”).* KHNP is the Korean entity that operates its nuclear and hydroelectric sector as a subsidiary of Korea Electric Power Corporation (“KEPCO”), the majority state-owned utility. Since 1971, KHNP has successfully constructed and operated 30 nuclear power plants still in operation today, 26 in South Korea and four in the United Arab Emirates (“UAE”). KHNP provides significant expertise in the construction of nuclear reactors. In August 2025, KHNP signed a joint compact with X-energy, Amazon, and Doosan outlining the intention to collaborate on the deployment of the Amazon order book in the U.S.
- *SGL Carbon LLC (“SGL”).* SGL is a developer and manufacturer of advanced carbon materials. X-energy and SGL have collaborated since 2015 on the qualification of NBG-18 graphite for use in the Xe-100, leveraging SGL’s experience manufacturing graphite for high-temperature gas-cooled reactors. In January 2026, SGL announced a 10-year graphite supply agreement for reactor components of X-energy’s Xe-100 SMRs, and has commenced production for the Dow Seadrift plant site as part of an initial three-year award valued at over \$100 million.
- *IHI Corporation (“IHI”).* IHI is a Japanese manufacturer and supplier of critical nuclear components. In March 2026, X-energy and IHI signed a Memorandum of Understanding (“IHI MOU”) that establishes a collaboration framework to explore opportunities for commercial-scale manufacturing of nuclear-grade components. Under the IHI MOU, X-energy and IHI will collaborate to assess manufacturing opportunities for critical, long-lead components used in X-energy’s Xe-100 reactors. The parties have not entered into binding agreements at this stage.

SUMMARY RISK FACTORS

Investing in our common stock involves substantial risk. The risks described under the section titled “Risk Factors” immediately following this prospectus summary may cause us to not realize the full benefits of our objectives or may cause us to be unable to successfully execute all or part of our strategy. Some of the more significant challenges include the following:

- We have not yet delivered a commercial Xe-100 or achieved final investment decisions (FIDs) for any deployments; our FOAK schedule, cost, and performance are uncertain and delays or setbacks, particularly on initial projects, could materially harm our business, reputation, and finances.
- We may not generate sufficient liquidity to fund operations and growth; our business is capital intensive and we will require substantial additional financing, which may not be available on acceptable terms and could be dilutive.
- Our business depends heavily on U.S. government support, including the ARDP; future appropriations are uncertain, and any reduction, delay, or termination, or failure to obtain needed extensions or modifications under the ARDP Agreement or increases due to inflation and cost growth, could materially and adversely affect our projects, TX-1 fuel facility plans, and commercialization.
- We face significant regulatory and licensing risks for both our reactors and fuel facilities; NRC and other regulatory approvals may be delayed, conditioned, or denied, including as a result of public interventions and hearings, which could increase costs and extend timelines.
- Access to HALEU is limited and failure of commercial HALEU supply to materialize on required timelines and at predictable costs could delay fuel fabrication (TX-1 and beyond) and reactor deployments and impair competitiveness.
- Our cost, schedule, and unit economics are subject to substantial uncertainty, including inflation, supply chain constraints, labor availability, site-specific factors, and first-of-a-kind risks; if cost reductions from NOAK learning are lower or slower than expected, our products may not be cost competitive.
- We have limited operating and commercial experience at our intended scale and configuration; latent design, manufacturing, construction, or operational issues may emerge late and be costly to remediate.

- We rely on a limited number of specialized suppliers (including graphite and other nuclear-grade materials and first-of-a-kind components); supply disruptions, quality issues, shipping/logistics risks, tariffs, or trade policy changes could delay projects and increase costs.
- Safety, security, and cybersecurity incidents at our facilities, our customers' facilities, or elsewhere in the nuclear industry, could result in regulatory actions, project delays, increased costs, reputational harm, and reduced demand.
- Market adoption of Gen IV SMRs is nascent and uncertain; demand may grow more slowly than expected, customers may defer or cancel projects, and our products may face competition from low-cost alternatives (including gas, renewables with storage, or other advanced reactors).
- We face intense competition from domestic and state-supported international nuclear suppliers; competitors may have greater resources, faster regulatory paths in some jurisdictions, or lower costs, which could pressure pricing and margins.
- Our reliance on key partners and customers, including Dow (ARDP) and cloud computing providers, exposes us to counterparty and execution risk; changes in partner priorities, funding, or timelines could materially affect our path to commercialization. Our JDA with Centrica is non-binding and may not result in definitive agreements or revenues.
- Customer contractual terms (including Amazon's priority queue slots, rights of first refusal, and most favored pricing) may constrain capacity allocation, compress margins, increase operational complexity, and expose us to payment or performance obligations.
- Our fuel business depends on licensing and scaling TX-1 and subsequent facilities; delays in NRC licensing, materials qualification, or facility construction, or inability to recruit and retain specialized talent, could impair fuel availability and recurring revenue.
- We may not carry insurance covering performance of the Xe-100 or all relevant project risks; even if obtained, insurance may be unavailable, insufficient, or costly.
- Changes in laws, regulations, incentives, export controls, or government policies could increase costs, delay approvals, limit market access, restrict technology transfers, or reduce the value of expected incentives.
- Public perception and political support for nuclear energy can shift; adverse events, activism, or changes in policy priorities could slow licensing and deployment and increase costs.
- Spent fuel and governmental waste management policies remain unsettled; customer concerns about storage or disposal costs and responsibilities could reduce demand for our technology.
- We depend on key personnel and our ability to hire and retain highly specialized talent; shortages, immigration constraints, or turnover could delay programs and increase costs.
- We have identified a material weakness in internal control over financial reporting; failure to remediate the existing weakness or to maintain effective controls could adversely affect our financial reporting and the market price of our stock.
- We are subject to intellectual property risks; we may be unable to obtain, maintain, or enforce intellectual property rights, or we may face third-party claims that could require costly litigation, licensing, redesigns, or limit commercialization; our IP protection is territorial and may be limited abroad.
- Data privacy and cybersecurity risks could lead to service interruptions, regulatory inquiries, liability, and reputational harm; increased AI use introduces additional privacy, IP, bias, and compliance risks.
- We are exposed to construction, siting, industrial application, severe weather, disaster, and logistics risks; catastrophic events or unusual siting requirements could increase costs, delay schedules, and strain resources.
- Our illustrative capacity figures and unit economics in this prospectus are estimates based on numerous assumptions (including technology fees, services, and fuel pricing); actual results may differ materially, including lower pre- and post-COD revenues and margins.

- Compliance with government contracting requirements (FAR, False Claims, pricing/cost rules) and audits carries risk of penalties, repayment, suspension, or debarment; U.S. budget deficits, shutdowns, and continuing resolutions may disrupt program funding and payments.
- Export/import controls and sanctions can restrict sales, technology transfers, and collaborations; violations or policy shifts could result in penalties and lost market access.
- Energy market rules and oversight (including FERC, NERC, and ISO/RTO market design) may affect customer project economics and indirectly our demand; noncompliance could result in sanctions on customers.
- Tax law changes and interpretations (including OBBBA) may increase complexity, audit risk, and effective tax rates; changes in accounting estimates and quarterly variability could materially impact reported results.
- As a holding company, we will depend on distributions from our operating subsidiary to fund taxes, expenses (including under a Tax Receivable Agreement), and any dividends; such distributions may be restricted, and TRA payments (including with respect to a change of control (as defined in the Tax Receivable Agreement), Material Breach or early termination) may be substantial and could exceed realized tax benefits, constraining liquidity.
- An active trading market for our Class A common stock may not develop or be sustained; our stock price may be volatile, large sales (including post lock-up) may depress the price, analyst coverage may be limited, and you may lose part or all of your investment.

Please see “Risk Factors” for a more complete discussion of these and other risks.

IMPLICATIONS OF BEING AN EMERGING GROWTH COMPANY

We are an emerging growth company, as defined in Section 2(a) of the Securities Act, as modified by the Jumpstart Our Business Startups Act of 2012 (the “JOBS Act”), and we may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies, including relief from the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, less extensive disclosure obligations regarding executive compensation in our registration statements, periodic reports and proxy statements, exemptions from the requirements to hold a non-binding advisory vote on executive compensation, and exemptions from stockholder approval of any golden parachute payments not previously approved. We may also elect to take advantage of other reduced reporting requirements in future filings. As a result, our stockholders may not have access to certain information that they may deem important and the information that we provide to our stockholders may be different than, and not comparable to, information presented by other public reporting companies. We could remain an emerging growth company until the earliest of (i) the last day of the year following the fifth anniversary of the completion of this offering, (ii) the last day of the year in which we have total annual gross revenue of at least \$1.235 billion, (iii) the last day of the year in which we are deemed to be a “large accelerated filer” as defined in Rule 12b-2 under the Exchange Act, which would occur if the market value of our Class A common stock and Class B common stock held by non-affiliates exceeded \$700.0 million as of the last business day of the second fiscal quarter of such year and (iv) the date on which we have issued more than \$1.0 billion in non-convertible debt securities during the prior three-year period.

In addition, the JOBS Act also provides that an emerging growth company may take advantage of the extended transition period provided in the Securities Act for complying with new or revised accounting standards. An emerging growth company may therefore delay the adoption of certain accounting standards until those standards would otherwise apply to private companies. We have elected to avail ourselves of this exemption and, as a result, will not be subject to the same implementation timing for new or revised accounting standards as are required of other public companies that are not emerging growth companies, which may make comparison of our financial information to those of other public companies more difficult.

CORPORATE INFORMATION

X-Energy Reactor Company, LLC is a Delaware limited liability company formed on December 14, 2018, and is the predecessor for financial reporting purposes of X-Energy, Inc., a Delaware corporation formed on September 18, 2025.

X-energy's principal executive offices are located at 530 Gaither Road, Suite 700, Rockville, MD 20850 and our phone number is (301) 358-5600.

Our website address is www.x-energy.com. Information contained in, or accessible through, our website is not a part of this prospectus, and the inclusion of our website address in this prospectus is only an inactive textual reference.

ORGANIZATIONAL STRUCTURE

In connection with the closing of this offering, we will undertake certain organizational transactions subsequent to which we will conduct our business through what is commonly referred to as an “Up-C” structure, which is often used by partnerships and limited liability companies when they decide to undertake an initial public offering. Unless otherwise stated or the context otherwise requires, all information in this prospectus reflects the consummation of the Reorganization Transactions.

Following the consummation of the Reorganization Transactions, we will be a holding company. Our sole material asset will be our equity interest in XERC, which, through its direct and indirect subsidiaries, conducts all of our operations. Because X-Energy, Inc. will be the sole managing member of XERC, we will indirectly operate and control all of the business and affairs (and will consolidate the financial results) of XERC and its subsidiaries.

Prior to the consummation of the Transactions, the capital structure of XERC consists of three classes of membership interests: Common Units, Preferred Units and Incentive Units.

In connection with the consummation of this offering, we will complete a series of reorganization transactions, including: (i) the eighth amendment and restatement of the XERC LLC Agreement to, among other things, effect a recapitalization in which all existing ownership interests in XERC are converted into one class of Common Units; (ii) the amendment and restatement of the X-Energy, Inc. certificate of formation to, among other things, authorize two classes of common stock; (iii) X-Energy, Inc.’s designation as managing member of XERC, (iv) X-Energy, Inc.’s acquisition of Common Units held by the Blocker Companies pursuant to the Blocker Mergers, (v) X-Energy, Inc.’s acquisition of all of the Common Units held by the Former Equity Owners (except for Management LLC, who is addressed in clauses (vi) and (vii), below) and a portion of the Common Units held by the Continuing Equity Owners, in each case, in exchange for an equal number of shares of Class A common stock, (vi) the second amendment and restatement of the Management LLC Agreement to, among other things, effect a recapitalization in which all existing ownership interests in Management LLC are converted into one class of Common Units, (vii) Management LLC’s contribution of all of its Common Units of XERC to X-Energy, Inc. in exchange for an equal number of shares of Class A common stock, which shares shall remain subject to the same vesting conditions applicable to the corresponding Common Units immediately prior to such contribution and (viii) X-Energy, Inc.’s issuance to the Continuing Equity Owners of a number of shares of Class B common stock (equal to the number of Common Units held by the Continuing Equity Owners) in exchange for a nominal cash contribution made by such Continuing Equity Owners, resulting in a combined company organized in an umbrella partnership C corporation structure (such structure, an “Up-C”) in which substantially all of the assets and the business of the company will be held by X-Energy Reactor Company, LLC, as more fully described elsewhere in this prospectus (such transactions, the “*Reorganization Transactions*”). See “Certain Relationships and Related Party Transactions” for additional information.

Prior to the completion of the offering, X-Energy, Inc. will enter into a Tax Receivable Agreement with XERC and the TRA Holders. This Tax Receivable Agreement will provide for the payment by X-Energy, Inc. to the TRA Holders of 85% of the amount of cash tax savings, if any, that X-Energy, Inc. is deemed to realize (calculated using certain assumptions) as a result of the Basis Adjustments, Existing Basis, Blocker Tax Attributes and Interest Deductions. Assuming no material changes in the relevant tax laws and that we earn sufficient taxable income to realize all tax benefits that are subject to the Tax Receivable Agreement, we expect the tax savings associated with the purchase of Common Units in connection with this offering, together with future redemptions or exchanges of all remaining Common Units owned by the TRA Holders pursuant to the XERC LLC Agreement as described above, would aggregate to approximately \$ million over years from the date of this offering based on the assumed initial public offering price of \$ per share of our Class A common stock (the midpoint of the estimated price range set forth on the cover page of this prospectus), and assuming all redemptions or exchanges would occur immediately after the initial public offering for the remaining ownership of XERC not acquired by X-Energy, Inc. Under such scenario, assuming future payments are made on the date each relevant tax return is due, without extensions, we would be required to pay approximately 85% of such amount, or approximately \$ million over the -year period from the date of this offering, to the TRA Holders. The actual amounts we will be required to pay under the Tax Receivable Agreement may be significantly different from the amounts described in the preceding sentence.

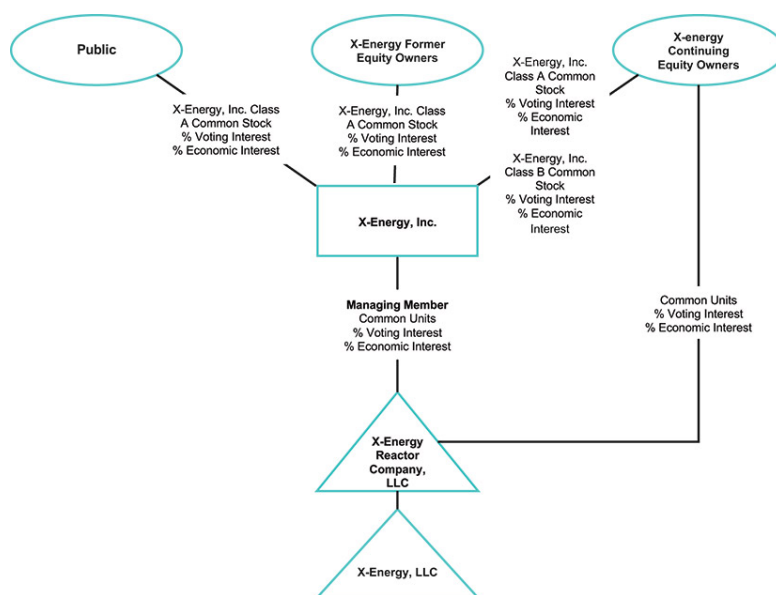
The term of the Tax Receivable Agreement will continue until all such tax benefits have been utilized or expired unless we exercise our right to early terminate the Tax Receivable Agreement and elect to make a single

lump sum payment, in which case, we would be required to pay to the TRA Holders an amount representing the present value of anticipated future tax benefits under the Tax Receivable Agreement (computed using certain assumptions). For example, should we elect to terminate the Tax Receivable Agreement immediately following this offering, assuming no material changes in the relevant tax laws or tax rates and that we earn sufficient taxable income to realize all potential tax benefits that are subject to the Tax Receivable Agreement, we estimate that the aggregate of termination payments would be approximately \$ million (at a discount rate of SOFR plus 100 basis points) based on the assumed initial public offering price of \$ per share of our Class A common stock, which is the midpoint of the range set forth on the cover page of this prospectus, and assuming SOFR (as defined in the Tax Receivable Agreement) were to be %.

Importantly, upon a change of control or a Material Breach of our obligations under the Tax Receivable Agreement, the Tax Receivable Agreement will not terminate nor will a single, accelerated lump sum payment be due. Thus, if we commit a Material Breach under the Tax Receivable Agreement, or experience a change of control (as defined in the Tax Receivable Agreement) our (or our successor's) future payments under the Tax Receivable Agreement for each taxable year after any such event would be calculated utilizing certain valuation assumptions, including that (i) in the case of a change of control, any Common Units that have not been exchanged are deemed exchanged for the market value of the shares of our Class A common stock at the time of the change of control and (ii) in either case, X-Energy, Inc. will have sufficient taxable income to fully utilize the tax attributes covered by the Tax Receivable Agreement.

For additional information, see “Risk Factors — Risks Related to Our Capital Structure” and “Certain Relationships and Related Party Transactions — Tax Receivable Agreement” for additional information regarding the Tax Receivable Agreement.

The following diagram reflects our simplified organizational structure after giving effect to the Transactions, including this offering:



We intend to use all of the net proceeds we receive from this offering to purchase newly issued Common Units from XERC. In the event the underwriters exercise their option to purchase additional shares of Class A common stock, we intend to use any proceeds from such exercise to purchase additional newly issued Common Units from XERC. See “Organizational Structure,” “Use of Proceeds,” and “Certain Relationships and Related Party Transactions”.

Subject to the terms and conditions of the XERC LLC Agreement, the Continuing Equity Owners will have the right to have XERC redeem their Common Units for shares of Class A common stock on a one-for-one basis or, at our election (determined solely by our independent directors (within the meaning of Nasdaq rules) who are disinterested), to the extent there is cash available from a contemporaneous public offering or private sale of Class A common stock by us, a corresponding amount of cash, in either case, contributed to XERC by X-Energy, Inc., unless X-Energy, Inc. elects, in its sole discretion (determined solely by our independent directors (within the meaning of Nasdaq rules) who are disinterested), to effect such transaction as a direct exchange with the relevant Continuing Equity Owner. Upon any such redemption or exchange of Common Units, the corresponding shares of Class B common stock held by such Continuing Equity Owner will be surrendered and immediately canceled. See “Certain Relationships and Related Party Transactions — XERC LLC Agreement” for additional information regarding such redemption and exchange rights.

THE OFFERING	
Common stock offered by us	shares of Class A common stock.
Class A common stock to be outstanding after this offering	shares, or shares if the underwriters exercise their option to purchase additional shares of Class A common stock in full.
Class B common stock to be outstanding after this offering	shares, or shares if the underwriters exercise their option to purchase additional shares of Class A common stock in full.
Option to purchase additional shares	The underwriters have an option to purchase up to an aggregate of additional shares of Class A common stock from us. The underwriters can exercise this option at any time within 30 days from the date of this prospectus.
Use of proceeds	We estimate that the net proceeds to us from the sale of shares of our common stock in this offering will be approximately \$. We intend to use the proceeds from this offering to acquire newly issued Common Units from XERC. The foregoing purchases of Common Units will be at a price per unit equal to the public offering price per share of Class A common stock in this offering, less the underwriting discounts and commissions. XERC intends to use the proceeds received from us for working capital and other general corporate purposes, which may include research and development and sales and marketing activities, general and administrative matters, and capital expenditures. We may also use a portion of the proceeds for future growth projects. See “Use of Proceeds.”
Voting rights	Holders of shares of our Class A common stock and our Class B common stock will vote together as a single class on all matters presented to shareholders for their vote or approval, except as otherwise required by law or our amended and restated certificate of incorporation. Each share of our Class A common stock and Class B common stock entitles its holder to one vote on all matters to be voted on by shareholders generally. See “Description of Capital Stock.”
Redemption rights for Common Units	Prior to this offering, we will amend and restate the XERC LLC Agreement so that the Continuing Equity Owners may (subject to the terms of such limited liability company agreement), elect to have XERC redeem their Common Units for either shares of Class A common stock on a one-for-one basis or at our election (determined solely by our independent directors (within the meaning of Nasdaq rules) who are disinterested), to the extent there is cash available from a contemporaneous public offering or private sale of Class A common stock by us, a corresponding amount of cash, in either case, contributed to XERC by X-Energy, Inc., unless X-Energy, Inc. elects, in its sole discretion (determined solely by our independent directors (within the meaning of Nasdaq rules) who are disinterested), to effect such transaction as a direct exchange with the relevant Continuing

Dividend policy	Equity Owner. Upon any such redemption or exchange of Common Units, the corresponding shares of Class B common stock will be canceled. See “Certain Relationships and Related Party Transactions — XERC LLC Agreement.” We do not expect to pay any dividends on our common stock for the foreseeable future. See “Dividend Policy.” The declaration, amount and payment of any future dividends will be at the sole discretion of our Board. Our Board may take into account general economic and business conditions, our financial condition and operating results, our available cash and current and anticipated cash needs, capital requirements, contractual, legal, tax, and regulatory restrictions, and implications on the payment of dividends by us to our shareholders or by our subsidiaries (including XERC) to us, and such other factors as our Board may deem relevant. Holders of our Class B common stock do not have any economic rights or any right to receive dividends, or to receive a distribution upon a liquidation, dissolution, or winding up of X-Energy, Inc., with respect to their Class B common stock. X-Energy, Inc. is a holding company and has no material assets other than a controlling equity interest in XERC. The XERC LLC Agreement that will be in effect at the time of this offering provides that certain distributions to cover the taxes of the holders of Common Units will be made based upon assumed tax rates and other assumptions provided in such limited liability company agreement. Additionally, in the event X-Energy, Inc. declares any cash dividend, we intend to cause XERC to make distributions to X-Energy, Inc., in an amount sufficient to cover such cash dividends declared by us. If XERC makes such distributions to X-Energy, Inc., the other holders of Common Units will also be entitled to receive the respective equivalent pro rata distributions in accordance with their respective ownership of vested Common Units.
Tax Receivable Agreement	Upon the completion of this offering, we will be a party to the Tax Receivable Agreement with XERC and the TRA Parties. Under the Tax Receivable Agreement, we generally will be required to pay to the TRA Parties 85% of the amount of cash tax savings, if any, that we actually realize (or in some circumstances are deemed to realize) as a result of (i) Basis Adjustments, (ii) Existing Basis, (iii) Blocker Tax Attributes and (iv) Interest Deductions. We will retain the benefit of the remaining 15% of these cash tax savings. See “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.”
Stock exchange symbol	“XE”
Risk factors	Investing in our common stock involves a high degree of risk. See “Risk Factors” beginning on page 25 in this prospectus for a discussion of factors you should carefully consider before investing in our common stock.
Directed Share Program	At our request, the underwriters have reserved up to shares of Class A common stock, or % of the shares offered by this prospectus, for sale at the initial public offering price to our directors, officers, and certain employees and other parties related to X-Energy, Inc. Shares purchased through the directed share program will not be subject to a lock-up restriction, except in the case of shares purchased

by any of our directors or officers. The number of shares of Class A common stock available for sale to the general public will be reduced to the extent these individuals purchase such reserved shares. Any reserved shares that are not so purchased will be offered by the underwriters to the general public on the same basis as the other shares offered by this prospectus. Morgan Stanley & Co. LLC will administer our directed share program. See “Certain Relationships and Related Party Transactions” and “Underwriting — Directed Share Program.”

Except as otherwise indicated, the number of shares of our Class A common stock and Class B common stock to be outstanding immediately after this offering is based on an aggregate of shares of Class A common stock and Class B common stock (which includes shares of common stock and shares of unvested restricted common stock subject to a repurchase option by us) outstanding as of _____, and excludes:

- _____ shares of Class A common stock reserved for issuance upon redemption or exchange of Common Units that will be held by the Continuing Equity Owners on a one-for-one basis; and
- _____ shares of Class A common stock reserved for future issuance under our 2026 Equity Incentive Plan (the “2026 Plan”), which will become effective upon the effectiveness of the registration statement of which this prospectus forms a part (which number includes _____ shares of our Class A common stock subject to restricted stock unit awards and stock options that will be granted to certain of our employees and directors pursuant to our 2026 Plan in connection with the consummation of this offering, based upon an assumed initial public offering price of \$ _____ per share (the midpoint of the estimated price range set forth on the cover page of this prospectus)).
- _____ shares of Class A common stock reserved for future issuance under our 2026 Employee Stock Purchase Plan (the “ESPP”), which will become effective upon the effectiveness of the registration statement of which this prospectus forms a part.
- _____ shares of Class A common stock reserved for issuance upon exercise of the 2025 Warrant in the event that the Vesting Event occurs.
- In addition, our 2026 Plan and ESPP each provide for annual automatic increases in the number of shares reserved thereunder.

Unless otherwise indicated, this prospectus assumes or gives effect to:

- the completion of the Transactions described under “Organizational Structure,” including the amendment and restatement of the XERC LLC Agreement and the reclassification of all outstanding equity of XERC into a single class of Common Units, which will occur immediately prior the closing of this offering (the Recapitalization);
- no exercise of outstanding stock options referred to above;
- no exercise by the underwriters of their over-allotment option;
- an assumed initial public offering price of \$ _____ per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus; and
- the filing and effectiveness of our amended and restated certificate of incorporation and the effectiveness of our amended and restated bylaws, each of which will occur immediately prior to the completion of this offering.

SUMMARY HISTORICAL AND PRO FORMA FINANCIAL INFORMATION OF X-ENERGY

The following table shows summary historical and pro forma financial data for each of the periods indicated. The summary historical financial information for X-energy presented below for the years ended December 31, 2025 and 2024 have been derived from X-energy's audited financial statements included elsewhere in this prospectus. The unaudited summary pro forma consolidated financial data set forth below as of and for the year ended December 31, 2025 have been derived from our unaudited pro forma condensed consolidated financial statements included elsewhere in this prospectus.

The unaudited pro forma condensed statement of operations for the year ended December 31, 2025 gives effect to the pro forma events as if they had been consummated on January 1, 2025. The unaudited pro forma condensed balance sheet as of December 31, 2025 gives effect to the pro forma events as if they had been consummated on December 31, 2025. We have derived the summary unaudited pro forma condensed balance sheet and the unaudited pro forma condensed statement of operations from our unaudited pro forma condensed consolidated financial statements as of and for the year ended December 31, 2025, which are included elsewhere in this prospectus. The pro forma adjustments are based on available information and upon assumptions that management believes are reasonable in order to reflect, on a pro forma basis, the effect of the pro forma events on our historical financial information. The adjustments are described in the notes to the unaudited pro forma condensed balance sheet and the unaudited pro forma condensed statements of operations. The unaudited pro forma condensed financial information is presented for illustrative purposes only and do not purport to represent the results of operations or the financial position that would actually have occurred had the pro forma events been consummated on the dates assumed or to project the Company's results of operations or financial position for any future date or period.

The summary information in the following tables should be read in conjunction with “Basis of Presentation — Organizational Structure,” “Capitalization,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations of X-energy,” “Unaudited Pro Forma Condensed Consolidated Financial Information” and our financial statements and accompanying notes included elsewhere in this prospectus.

	Year ended December 31, 2025	Year ended December 31, 2024	Pro Forma Year Ended December 31, 2025
Consolidated Statements of Operations			
Services revenue	\$ 94,260	\$ 83,986	\$
Grant income	14,838	36,166	
Total revenues and grant income	\$ 109,098	\$ 120,152	
Operating expenses:			
Direct costs	161,367	130,115	
Selling, general and administrative	116,318	111,887	
Research and development	1,708	1,662	
Total operating expenses	279,393	243,664	
Operating loss	(170,295)	(123,512)	
Other income (expense):			
Interest expense	(475)	(16,190)	
Interest income	20,293	2,833	
Other income (expense), net	(239,301)	10,909	
Total other expense, net	(219,483)	(2,448)	
Net loss	<u><u>\$ (389,778)</u></u>	<u><u>\$ (125,960)</u></u>	<u><u>\$</u></u>

Balance Sheet Data	As of December 31, 2025	As of December 31, 2024	Pro Forma as of December 31, 2025
Total assets	\$ 1,211,271	\$ 579,510	
Total liabilities	369,011	125,695	
Total mezzanine equity	2,066,555	1,300,376	
Total members' deficit	(1,224,295)	(846,561)	

RISK FACTORS

Investing in our Class A common stock involves a high degree of risk. You should consider carefully the risks and uncertainties described below, together with all of the other information in this prospectus, including the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations of X-energy” and our consolidated financial statements and the accompanying notes included elsewhere in this prospectus before deciding whether to invest in shares of our Class A common stock. The risks and uncertainties described below are not the only ones we face. Additional risks and uncertainties that we are unaware of or that we deem immaterial may also become important factors that adversely affect our business. If any of the following risks occur, our business, financial condition, operating results, and future prospects could be materially and adversely affected. In that event, the market price of our Class A common stock could decline, and you could lose part or all of your investment.

Throughout this section, unless otherwise noted, the “Company,” “we,” “us” or “our” refers to X-Energy, Inc. and its consolidated subsidiaries.

Risks Relating to X-energy’s Business

Our ability to execute on our business plan and our continued existence are dependent upon our ability to obtain additional funding and financing.

While we currently expect that we have sufficient sources of liquidity, taking into account our current cash on hand and the expected net proceeds from this offering, to continue working on our reactor and fuel projects with our key customers and partners, we will need additional sources of funding and financing to support our ongoing operations and to execute on our business plan.

We have had, and expect that we will continue to have, an ongoing need to raise additional capital from outside sources to fund our operations and expand our business. Historically, our primary sources of funding to support our operations have been revenue from the ARDP Agreement, contributions and loans from members, loans from financial institutions and capital raises.

As of December 31, 2025, we had cash and cash equivalents of \$458.9 million, short-term investment balances of \$304.9 million and long-term investment balances of \$261.5 million and continue to meet our obligations to customers, vendors, counterparties and employees in the ordinary course of business. Our expected primary uses of cash on a short-term and long-term basis are for working capital requirements, capital expenditures, and other general corporate services. Our primary working capital requirements are for project execution activities including purchases of materials, subcontracted services and payroll which fluctuate during the year, driven primarily by the timing and extent of activities required on new and existing projects. We expect that working capital requirements will need to continue to be funded through a combination of cash on hand, funding awarded under the ARDP Agreement, further issuances of securities, and capital raises.

In addition, management expects that future operating losses and negative operating cash flows may increase from historical levels because of additional costs and expenses related to the development of our technology and the development of market and strategic relationships with other businesses. In particular, in connection with our business plan, management anticipates additional increases in operating expenses and capital expenditures relating to the development and commercialization of the Xe-100. We intend to finance these expenses with further issuances of debt or equity securities. Thereafter, we expect we will need to raise additional capital and generate revenues to meet long-term operating requirements.

If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our equity holders could be significantly diluted, and these newly issued securities may have rights, preferences or privileges senior to those of existing equity holders. If we raise additional funds by obtaining loans from third parties, the terms of those financing arrangements may include negative covenants or other restrictions on our business that could impair our operating flexibility and also require us to incur interest expense.

If we are unable to raise additional capital when desired, we may not be able to construct the TX-1, deliver the Xe-100 or any other reactor to customers on time or on budget or at all, conduct other research and

development, undertake other projects, or fulfill our business plan, and therefore, we may need to delay or abandon these and other projects.

Any of the foregoing would materially and adversely affect our business, financial condition, operating results, and future prospects.

We may not generate sufficient revenues or liquidity to operate our business, and a successful transition to attaining profitable operations depends upon achieving a level of revenue adequate to support us.

We expect that working capital requirements will need to continue to be funded through a combination of cash on hand, funding awarded under the ARDP Agreement, further issuances of securities, and capital raises. In addition, we will need to generate increased revenues sufficient to meet long-term operating requirements.

At present, our revenues are generally derived from contract services performed for the U.S. government and commercial entities from cost-share agreements such as the ARDP and research and development, product development, and fuel services provided to other government agencies and commercial entities. In the future, we expect to generate revenue through licensing or technology fees for the use of the proprietary intellectual property and build-to-print design of the Xe-100 technology, project planning, assembly coordination, construction support, regulatory support, procurement support, long-term services to customers and the supply of fuel and associated services. However, we have not yet entered into any such licensing, technology or other agreements, and there can be no assurances that customers will accept our anticipated fees and pricing under these agreements or that we will be able to charge the fees and pricing that we anticipate under our business plan. If we are unable to obtain sufficient fees and pricing under these agreements, our business, financial condition, operating results and future prospects will be materially and adversely affected.

Our revenue growth also may be adversely affected by other factors including: our inability to maintain, grow and develop the X-energy products; our ability to continue to receive funding from government contracts; weakness in the industry generally; general economic conditions, including as a result of tariffs, high interest rates and inflation; terrorism, sanctions or other geopolitical events globally; global pandemics and other public health emergencies; increasing competition; and the other risks described in this “Risk Factors” section.

Our historical revenue growth is not indicative of our future performance. If we are unable to maintain, grow, and develop X-energy’s business and generate sufficient revenue and achieve profitability, our business, financial condition, operating results and future prospects will be materially and adversely affected. We may also achieve business growth in quantity of deployed plants, but achieve lower than anticipated revenue on each deployment, including achieving lower than anticipated margin on our projects. Additionally, our cash needs may increase in the future as we focus on growing and developing products.

Our future capital requirements will depend on many factors, including the ability to meet (or continue to meet, as the case may be) the requirements of Nasdaq for listing or any other exchange, future credit losses, the ability to obtain the necessary financing to meet obligations and repay liabilities arising from business operations when they come due, the ability to generate and maintain sufficient cash, and the ability to generate profitable operations in the future. There can be no assurance that our liquidity will be sufficient to achieve our long-term objectives, grow and develop our products, operate our business, or comply with the terms of our indebtedness.

If we are not able to generate sufficient revenues or liquidity to operate our business, and to support our long-term business plan, it would materially and adversely affect our business, financial condition, operating results, and future prospects.

We have not yet delivered the Xe-100 or any other reactor to customers and have not achieved final investment decisions for the purchase or deployment of any of our reactors, and there is no guarantee that we will be able to do so. Any delays or setbacks we may experience during our first commercial delivery, which is planned for the early 2030s, or failure to obtain final investment decisions would have a material adverse effect on our business, financial condition, operating results, and future prospects, and could harm our reputation.

The success of our business will depend in large part on our ability to successfully deliver the Xe-100 to customers on time and on budget at guaranteed performance levels, which would give greater confidence in

our subsequent customers. There is no guarantee that our planned deployments of the Xe-100 will be successful, on schedule, or on budget, or that our customers will elect to exercise their options for additional Xe-100 units. We are in the design phase of the Xe-100, and as a result our cost and schedule estimates are subject to significant uncertainty and change. Our current cost model and estimates have limited fidelity and may prove inaccurate, which could result in material cost growth, schedule extensions, or scope changes that adversely affect project economics, final investment decisions and customer commitments.

Moreover, because the Xe-100 will be considered a first-of-a-kind technology, there can be no assurance that we will not experience operational or process failures and other problems during our first commercial deployment or any planned deployment thereafter. The nuclear industry has historically experienced significant cost overruns, schedule delays and cancellations on first-of-a-kind and follow-on projects, which have, in many cases, rendered projects uneconomical; similar dynamics could affect our projects notwithstanding our planning, risk management and contracting strategies. In the event that we fail to develop and successfully commercialize our technology, if we fail to develop such first-of-a-kind technologies before our competitors or if such technologies fail to perform as expected, are inferior to those of our competitors or are perceived as less safe than those of our competitors, our business and financial condition could be materially and adversely impacted. Any failures, delays or setbacks, particularly on our first commercial deployments, would likely harm our reputation and have a material adverse effect on our business prospects, financial condition, results of operation and cash flows.

Any delays in the development and manufacture of our SMRs and related technology may adversely impact our business and financial condition.

We have previously experienced and may experience in the future, delays, cost overruns or other complications in the design, manufacture, production and delivery of the Xe-100 and related technology, such as the TRISO-X Fuel Fabrication Facility, that could prevent us from delivering any SMRs on our current anticipated timeline. For example, as part of our iterative Xe-100 reactor design process, we employ phased development cycles and review gates to progress from concept through product delivery. Each system within the reactor plant undergoes a thorough assessment at each gate to determine if all product requirements (for example, performance, safety, delivery) are being met or are at risk of not achieving full capability. In the course of certain major gate reviews of the Xe-100 reactor design in the past, we identified areas where further design or analysis work was required to achieve a fully acceptable engineered design. Likewise, development delays at our Fuel Fabrication Facility site have occurred in connection with resolving certain infrastructure requirements and environmental analyses prior to commencing construction. While the aforementioned activities, and others like them, have not materially delayed delivery for a customer to date, they may do so in the future. If delays like these occur, if our remediation or resolution measures and process changes do not continue to be successful, if we fail to find satisfactory manufacturers or suppliers, or if we experience issues with planned manufacturing or construction activities or design and safety, we could experience issues or delays in reaching, sustaining or increasing deployment and sales of our SMRs. The effect of such delays may be increased as a result of rising commodity prices and interest rates, which may increase costs to us and to our customers and may adversely affect the competitiveness of our reactors compared to more established, competing means of supplying electricity or heat.

We are highly dependent on our partnership with Dow for the successful and timely installation of the Xe-100 at our first-of-a-kind facility at one of Dow's U.S. Gulf Coast sites under the ARDP, and any slowdown, suspension or termination of this project could have a material adverse effect on our business, financial condition, results of operations, cash flows and stock price.

Our agreements with Dow, including our MPDA and CCA, provide for certain engineering services, site selection, joint NRC licensing, technology use and further the ARDP-related work that is funded by Dow and is subject to the DOE's and Dow's ongoing support and approval. As such, we are reliant on Dow's continued partnership to develop and finalize the project selected for the ARDP and to establish a framework to pursue industrial projects in connection therewith, including the initial deployment of the Xe-100 pursuant to the ARDP. Such framework includes critical elements for the successful deployment of our initial Xe-100, including marketing, project ownership structures, project delivery models, plant operations, incentive structures, finance arrangements and other joint responsibilities and obligations.

Our strategic plan contemplates the Dow project serving as a cornerstone reference facility to validate our technology, execution capabilities and commercial model. There is no guarantee that this project will proceed as planned, on schedule or on budget. As a first-of-a-kind facility, it is subject to significant uncertainties, including permitting and regulatory approvals, engineering and design changes, supply chain constraints (including long-lead nuclear components and fuel), contractor performance, labor availability, site access and infrastructure, safety or environmental incidents, community opposition, financing availability, force majeure and other factors beyond our control. We also depend on Dow and other counterparties to perform their obligations; we do not control their decisions, priorities or operations. For example, Dow may terminate its MPDA and CCA with us at any time for convenience without regard for our performance. Cost growth, schedule extensions, scope changes or performance shortfalls at this facility could impair project economics, delay or prevent subsequent customer commitments and final investment decisions, and damage our reputation. If Dow were to terminate and neither Dow nor another potential near-term customer enters into similar agreements with us, our initial deployment of the Xe-100 and ongoing services associated with such deployment could be significantly delayed, and the initial deployment of the Xe-100 under the ARDP government cost-sharing arrangement could also be significantly delayed. This could adversely affect our business, financial condition, results of operations and cash flows.

Any slowdown, suspension or termination of work on the Dow facility due to technical challenges, regulatory or legal proceedings, funding constraints, counterparty defaults or termination or other disruptions could materially and adversely affect our ability to commercialize our technology, limit revenue generation, increase cash burn, require additional capital on unfavorable terms, and reduce investor confidence. Such events, particularly because of the project's prominence and first-of-a-kind nature, could have a material adverse effect on our business prospects, financial condition, results of operations and cash flows, and could result in significant volatility in, or a decline of, our stock price.

The Dow project timeline extends beyond the ARDP funding period, which could result in significant incremental funding requirements for Dow and adversely affect the project.

The Dow project's Construction Permit Application is anticipated to be received in the first quarter of 2027, following which construction can commence, and its commercial operations date is expected to be in the early 2030s. This timeline extends beyond our current ARDP budget period, which runs through August 2026, and beyond the maximum period of performance under the ARDP Agreement, even assuming all extensions are obtained. Based on the original February 2021 award contractual date, the outside date for ARDP funding is expected to be in or around 2030 (assuming the maximum three-year extension is granted). Without another extension or change in the contract, which would require approval above the level of the contracting officer, construction activities scheduled to occur after 2030 would not be eligible for ARDP reimbursement.

If the Dow project is unable to be completed within the ARDP funding period, Dow would then be requested to fund the remaining costs related to the construction of the reactor without ARDP reimbursement. The precise funding requirement that would need to be borne by Dow absent ARDP reimbursement depends on the stage of project completion at the time ARDP funding expires, the scope of remaining construction activities, and market conditions at that time. If Dow is unwilling or unable to do so, the Dow project could be delayed or terminated, which would have a material adverse effect on our business, financial condition, results of operations and cash flows.

As of December 31, 2025, we have been reimbursed approximately \$438 million in ARDP funding. The DOE manages allocation and reimbursement of funds appropriated by Congress, approval of extensions, and compliance with program requirements. If extensions are not granted or if the project timeline extends further than currently anticipated, the incremental funding requirement that Dow would need to bear for its portion of the ARDP project could increase materially. Any such increase could affect Dow's final investment decision, cause delays or modifications to the project scope or timeline, or lead Dow to terminate its participation in the project. X-energy is under no obligation to continue funding to the Dow project or construction on the plant itself in the event Dow does not make a final investment decision in the Dow project.

Our joint development agreement with Centrica is non-binding, and there can be no assurance that it will result in definitive agreements or any future revenue, which could have a material adverse effect on our business, financial condition, results of operations and cash flows.

Our JDA with Centrica to explore the potential deployment of the Xe-100 in the U.K. is non-binding. The JDA is preliminary in nature and does not obligate either party to enter into definitive agreements, commit

capital, or proceed with any specific project. The continuation of discussions and any future collaboration remain subject to a number of conditions and contingencies, including, among others, negotiation and execution of binding contracts, receipt of regulatory approvals, site selection, financing arrangements, and the satisfaction of other commercial and technical requirements.

There can be no assurance that we will be able to reach agreement with Centrica on definitive terms, or that any project contemplated by the JDA will proceed. Even if definitive agreements are reached, the timing, scope, and economics of any resulting project may differ materially from our current expectations. If the relationship with Centrica does not progress as anticipated, or if Centrica elects not to move forward with the development or purchase of our reactors, we would not realize any of the potential revenues or strategic benefits associated with the arrangement. Any failure to convert the JDA into a binding commercial agreement, or any delay or cancellation of potential projects under the JDA, could adversely affect our business, financial condition, results of operations and cash flows.

Our sales and profitability may be impacted by, and we may incur liabilities as a result of, terms to certain customers, our failure to meet performance guarantees under customer contracts or customer safety standards.

Terms in contracts or agreements we have entered into with existing or future customers may constrain our capacity allocation, impact our pricing and margins, and limit our strategic flexibility. Under our agreements with Amazon, we have granted Amazon first-priority allocation of Xe-100 manufacturing queue slots across 2031 to 2039 to allocate to utilities and independent power producers, primarily current nuclear operators, who will ultimately own and operate the SMR facilities. We have also granted Amazon a right of first refusal on a portion of our scheduled delivery. While Amazon is not obligated to purchase, its rights could limit our ability to allocate capacity to other customers and may lead to underutilization or planning inefficiencies if Amazon delays or declines to exercise its allocated capacity. Under our agreements with Amazon, we are also obligated to offer Amazon the most favorable pricing and commercial terms available to any non-affiliate customer, including minimum TRISO-X fuel allocations commensurate with our most favored customers. If we cannot make a reserved slot available, we must use commercially reasonable efforts to provide replacement capacity to honor our targets under the agreement.

These commitments may reduce our flexibility to prioritize higher-margin or strategic customers and require us to match the best terms we offer to others, which could compress margins and adversely affect revenue mix. They may also increase operational complexity and costs (including TRISO-X fuel allocations) and result in disputes. Additionally, successor and transfer provisions require any transferee of manufacturing assets or relevant equity interests to assume queue-slot obligations, which could limit our ability to pursue strategic transactions or restructurings on favorable terms.

Under our agreements with Amazon, beginning on the fifth anniversary of the commercial operations date of the first Amazon-sponsored project, we are required to make payments to Amazon reflecting the cost efficiencies we have achieved relative to the PPA prices applicable to the initial projects. These obligations could be material, and could adversely affect our liquidity, cash flows, and financing flexibility, particularly if our costs decline on other projects, which would increase the premium owed on Amazon-sponsored projects. The timing and magnitude of payments may be volatile due to annual reforecasts, project performance, and exogenous variables, reducing cash available for operations, investment, and debt service, and potentially extending the final maturity beyond our original expectations.

Further, we anticipate that our customers may require performance guarantees as to the performance of the Xe-100s we deliver. Prospective future customers may also require that we comply with their own unique requirements relating to their compliance with policies, priorities, regulations, controls, and mandates, including provision of data and related assurance for environmental, social, and governance related standards or goals, and such compliance may add cost and timeline uncertainty or risk. Failure of our products to operate properly or to meet specifications of our customers or our failure to meet our performance guarantees may increase costs by requiring additional engineering resources and services, replacement of parts and equipment or monetary reimbursement to a customer, or could otherwise result in liability to our customers. There are significant uncertainties and judgments involved in estimating performance guarantee obligations, including changing product designs, differences in customer installation processes and failure to identify or disclaim certain variables. To the extent that we incur substantial performance guarantee claims in any period, our earnings and ability to obtain future business could be materially adversely affected.

The illustrative capacity figures and unit economics included in this prospectus are illustrative in nature, are based on a number of assumptions, and may not reflect our actual future performance.

The illustrative capacity figures presented in this prospectus are based on our current agreements with customers, including Dow, Amazon, and Centrica, and reflect our internal assumptions regarding the capacity of the Xe-100, the number of units that may be deployed, and the time periods in which we anticipate such units being constructed and placed into service. Numerous risks and uncertainties could cause the actual deployed capacity to differ materially from the illustrative figures, including our and our customers' ability to successfully construct and deliver Xe-100s (none of which have been built or operated to date) or to do so on a timely basis, obtain required regulatory approvals, secure adequate financing, and manage supply chain constraints, labor availability, cost overruns, and construction delays. In addition, customers such as Dow, Amazon, and Centrica have rights to delay, reduce, or terminate their commitments, and any such changes, along with potential modifications in the scope, scale, or timing of customer projects, technological or engineering challenges, or shifts in energy policy, electricity market demand, or public acceptance of nuclear power, could materially impact our ability to achieve the levels of capacity reflected in this prospectus. As a result, our actual cumulative deployed capacity may be substantially less than that shown, or may not be achieved at all, and investors should not place undue reliance on these illustrative figures in evaluating our business, financial condition, operating results or future prospects.

We do not carry insurance coverage for the risks associated with the Xe-100 or its components, and our current insurance coverage may not be adequate, or we may not be able to obtain insurance at acceptable rates at all.

We do not carry insurance coverage for the performance of the Xe-100 or its components. Even if we purchase this kind of insurance, the insurance may not fully protect us from the financial impact of defending against product liability claims that may occur in future. In the event that our technologies fail to perform as expected, are inferior to those of our competitors or are perceived as less safe than those of our competitors, our business and financial condition could be materially and adversely impacted. Other than contractual protections provided by our vendors for certain components and systems, we have not employed other risk sharing structures to mitigate all risks associated with the successful delivery and performance of the Xe-100. As we have not yet delivered the Xe-100 or any other reactor to customers, we have determined that our current insurance coverage is sufficient for our business operations. However, we may need to purchase additional insurance to operate our business. If we fail to obtain the required insurance, or if we were to incur substantial losses or liabilities due to fire, explosions, floods, other natural disasters or accidents or business interruption that we are not adequately covered under our existing insurance, our business and results of operations could be materially and adversely affected.

We depend significantly on U.S. government contracts, which often are only partially funded, subject to immediate termination, and heavily regulated and audited. Continued full funding of, and any upward adjustments to funding available under, the ARDP are subject to future government appropriations and continued political support. Our ability to access ARDP funding is subject to significant timing and regulatory risks. The termination of, or failure to fully fund, the ARDP, or our failure to timely secure upward adjustments in the ARDP funding to cover actual costs could have a material, adverse impact on our business prospects, relationship with our partners, financial condition, results of operations and cash flows and may result in a more limited ARDP fuel facility development, changes to project development timelines, or other commercial changes to the ARDP.

In addition to at least \$500 million in funding appropriated in FY2020-FY2024, the Infrastructure Investment and Jobs Act (Public Law 11758) appropriated funds for the ARDP in total of \$2.47 billion. Of ARDP funding to date, at least \$1.1 billion has been allocated to X-energy's award. Ongoing ARDP funding is provided to X-energy through Continuation Applications for each "budget period", with the latest funding through at least August of 2026. Congress has appropriated funding that was allocated towards X-energy's award, in total of approximately \$1.1 billion of the \$1.2 billion commitment as part of the Infrastructure Investment and Jobs Act in 2022 to support our ARDP award, as well as recent additional appropriations of \$3.1 billion to ARDP, some portion of which we expect to be allocated to X-energy. In recent years, U.S. government appropriations have been affected by larger U.S. government budgetary issues and related legislation. As of December 31, 2025, we have been reimbursed over \$438 million in funding under the ARDP. We cannot predict the extent to which funding may be increased, if at all, or if total funding may be reduced as part of a subsequent appropriations process ultimately approved by U.S. Congress and the President of the

U.S. or in separate supplemental appropriations or continuing resolutions, as applicable. The termination of funding for the ARDP would result in a loss of anticipated future revenue attributable to that program, which could have an adverse impact on our operations. In addition, the termination of the ARDP or the failure to commit additional funds to the ARDP could result in lost revenue and increase our overall costs of doing business, and may result in the deferral or more limited development of TX-1 and subsequent fuel fabrication facilities, and jeopardize our ability to complete our initial deployments of the Xe-100, which could adversely affect our ability to market and deploy Xe-100 units to other customers and other commercial effects.

Under the ARDP Agreement, if we fail to incur eligible costs within the currently approved period of performance, including any DOE-approved extension, we would forgo reimbursement for such costs and could face de-obligation of unobligated funds at closeout. Extensions under the ARDP Agreement are at the DOE's discretion. If the DOE denies or limits an extension, our ability to claim ARDP reimbursement after 2027 could be materially curtailed. Continuation of funding across budget periods is further contingent on additional appropriations and DOE policy. Any adverse appropriations outcomes, performance shortfalls, or contractual compliance issues could materially reduce or eliminate ARDP funding available to us. Because the award is incrementally funded and DOE's maximum share at any time is capped at amounts actually obligated, even with an extension granted, we may not receive additional ARDP funding unless and until DOE agrees to obligate further amounts to us.

Generally, U.S. government contracts are subject to oversight audits by U.S. government representatives. Such audits could result in adjustments to our contract costs. Any costs found to be improperly allocated to a specific contract will not be reimbursed, and such costs already reimbursed must be refunded. We have recorded contract revenue based on costs we expect to realize upon final audit. However, we do not know the outcome of any future audits and adjustments, and we may be required to materially reduce our revenue or profits upon completion and final negotiation of audits. Negative audit findings could also result in termination of a contract, forfeiture of profits, suspension of payments, fines or suspension or debarment from U.S. government contracting or subcontracting for a period of time.

U.S. government contracts generally contain provisions permitting termination, in whole or in part, without prior notice at the U.S. government's discretion upon payment only for work done and commitments made at the time of termination. Under some contracts, we are a subcontractor and not the prime contractor, and in those arrangements, the U.S. government could terminate the prime contractor for convenience without regard for our performance as a subcontractor. We can give no assurance that one or more of our U.S. government contracts will not be terminated under those circumstances. Also, we can give no assurance that we would be able to procure new contracts to offset the revenue lost as a result of any termination of our U.S. government contracts. Because a majority of our revenue is dependent on our performance and payment under our ARDP Agreement, the loss of that particular contract could have a material adverse impact on our business, financial condition, operating results and future prospects.

Our contracts and services with the U.S. government are also subject to specific procurement regulations and a variety of socioeconomic and other requirements. These requirements, although customary in U.S. government contracts, increase our performance and compliance costs. These costs might increase in the future, reducing our margins, which could have a material adverse effect on our business prospects, financial condition, results of operations and cash flows. The U.S. government has implemented, and may continue to implement initiatives focused on efficiencies, affordability and cost control and other changes to its procurement practices. These initiatives and changes to procurement practices may change the way U.S. government contracts are solicited, negotiated and managed, which may affect whether and how we pursue opportunities to provide our products and services to the U.S. government, including the terms and conditions under which we do so, which may have an adverse impact on our business, financial condition, operating results and future prospects.

Failure to comply with applicable regulations and requirements could lead to fines, penalties, repayments, or compensatory or treble damages, or suspension or debarment from U.S. government contracting or subcontracting for a period of time. Among the causes for debarment are violations of various laws and regulations, including those related to procurement integrity, export control (including the International Traffic in Arms Regulations at 22 C.F.R. Parts 120-130), U.S. government security, employment practices, protection of the environment, accuracy of records, proper recording of costs and foreign corruption. The termination

of a U.S. government contract or relationship as a result of any of these acts would have an adverse impact on our operations and could have an adverse effect on our standing and eligibility for future U.S. government contracts.

Government funding is subject to the political process, which is inherently unpredictable, highly competitive and dependent on budgetary limitations, congressional appropriations and administrative allotment of funds, all of which may be affected by changes in U.S. government policies resulting from various political developments. If political support for the prioritization of the development of nuclear energy decreases, including due to policy changes by the current administration or future administrations and changing congressional funding priorities, we may be unable to secure continued government funding under the ARDP or any requested increases to such funding. Our failure to secure upward adjustments in the ARDP funding to cover actual costs, should such a need arise, could have a material, adverse impact on our business prospects, which would materially and adversely affect our development timeline, financial condition, relationship with our partners, results of operations and cash flows. In addition, any such failure to obtain requested increases to such funding could result in a more limited ARDP fuel facility development or other commercial changes to the ARDP.

In addition, in connection with future requests for increases to funding under the ARDP, in connection with our entry into U.S. government contracts, or for any other reason, the U.S. government may stipulate conditions or make certain requests of us in return, including, but not limited to, requests for amendments to existing U.S. government contracts or requests to acquire and/or purchase shares of our Class A common stock or securities that give the U.S. government the right to acquire shares of our Class A common stock. Any such conditions or requests, whether or not we agree to them, and the terms of any such securities, could have a material adverse impact on our relationship with the U.S. government, could have a material adverse effect on our business prospects, financial condition, results of operations and cash flows, and could result in significant volatility in, or a decline of, our stock price.

Our ability to receive ARDP funding is subject to budget period limitations, extension approvals, and an outside date, and we may not receive the full amount of the ARDP reimbursement.

Our current ARDP Agreement provides for 50% reimbursement of \$2.4 billion in eligible costs (\$1.2 billion in total reimbursement). As of December 31, 2025, we have received approximately \$438 million in ARDP funding. We submit our budgets through an ongoing “budget period” basis tied to project milestones under the ARDP Agreement, and our current budget covers a budget period that began in March of 2025 and extends through August 2026. At the time of the initial award, the estimated total project cost was approximately \$2.4 billion, which reflected management’s then-current estimates for design, licensing, fuel fabrication facility construction, and demonstrator reactor construction activities over the program period. Since 2020, the estimated total project costs have increased, and we expect that cost estimates will continue to be revised in connection with each budget period’s Continuation Application as project scope, market conditions, and external factors evolve.

Continuation of funding is contingent on DOE approval of additional budget periods. Extensions under the ARDP Agreement are at the DOE’s discretion and are subject to criteria including: (1) availability of appropriations; (2) availability of future-year budget authority; (3) substantial progress toward meeting project objectives; (4) submittal of required reports; and (5) compliance with the terms and conditions of the award. We submit a Continuation Application to the DOE to extend funding; however, there can be no assurance that extensions will be approved. As part of the Continuation Application process required under the ARDP Agreement, we are required to submit updated budgets for each subsequent budget period, which are subject to review and approval by the DOE. These updated budgets reflect the best information available at the time of submission and may differ materially from prior estimates due to the factors described above. The DOE’s current reimbursement share under the ARDP is \$1.2 billion (representing 50% of the original \$2.4 billion estimate), meaning any increases in estimated project costs above the original \$2.4 billion estimate without adjustment of the current award value would require X-energy and Dow to fund the incremental amounts from non-ARDP sources. If actual project costs exceed the amounts eligible for ARDP reimbursement we and Dow would be required to bear the full amount of such excess costs without government cost-sharing, which could have a material adverse effect on our business, financial condition, results of operations and cash flows. X-energy and Dow are under no obligation to continue funding the project scope from ARDP.

Under the ARDP Agreement, the total extension of the period of performance may not exceed three years beyond the original 7 year award period, resulting in a maximum period of performance of 10 years. Any additional extension would require an approval within DOE above the level of the Contracting Officer. Based on the original award date in February 2021, the outside date for ARDP funding, assuming all extensions are granted, is expected to be in or around 2030. Dow, as our partner under the ARDP Agreement, does not separately need to apply for ARDP funding or extensions. Dow's 50% reimbursements for the Dow project are tied to project milestones and they are not subject to our budget periods. If the Dow project, with a target commercial operations date in the early 2030s, is unable to be completed within the ARDP funding period and Dow elects to construct the project, Dow would then fund remaining costs related to the construction of the reactor without ARDP reimbursement. If Dow is unwilling or unable to do so, the Dow project could be delayed or terminated, which would have a material adverse effect on our business, financial condition, results of operations and cash flows. X-energy is under no obligation to fund the construction of the Dow project, and is under no obligation to construct a reactor without a final investment decision from Dow.

If we fail to incur eligible costs within the currently approved period of performance, including any DOE-approved extension, we would forgo reimbursement for such costs and could face de-obligation of unobligated funds at closeout. Even with an extension granted, we may not receive additional ARDP funding unless and until DOE agrees to obligate further amounts to us. Any adverse appropriations outcomes, performance shortfalls, contractual compliance issues, or denial of extension requests could materially reduce or eliminate ARDP funding available to us, which would have a material adverse effect on our business, financial condition, results of operations and cash flows.

The original ARDP cost estimate was developed in 2020 and has since increased; future cost increases may require us and our partners to fund amounts in excess of available ARDP reimbursement.

The ARDP Agreement was based on management's reasonable cost estimates developed at the time of X-energy's ARDP application in 2020. At the time of award, total estimated project costs were approximately \$2.4 billion, with DOE providing \$1.2 billion in 50/50 cost-share reimbursement for eligible costs under the ARDP Agreement. This reflected management's then-current estimates and did not account for subsequent inflation, supply chain cost increases, scope evolution, or other factors that have since affected project costs.

Since the original award in 2020, our estimated project costs have increased, and we expect that cost estimates will continue to be revised in connection with each budget period's Continuation Application. The nuclear industry has historically experienced significant cost overruns on first-of-a-kind projects. While the Xe-100's modular design is intended to reduce first-of-a-kind risks, we cannot provide assurance that cost increases will not occur. Factors that may contribute to cost increases include:

- Inflation and general price escalation across labor, materials, and services;
- Supply chain disruptions and increased costs for nuclear-grade materials and components;
- Scope refinements and design modifications resulting from ongoing engineering work;
- First-of-a-kind engineering challenges and regulatory requirements;
- Extended project timelines, including potential delays in obtaining regulatory approvals; and
- Changes in tariff regimes or trade restrictions affecting procurement costs.

As part of the Continuation Application process, we submit updated budgets to the DOE for each budget period, including cost estimates and supporting justification. These updated estimates are subject to DOE review and approval and may differ materially from prior estimates. In January 2026, Congress appropriated additional funding of \$3.1 billion towards three Advanced Reactor programs, including 1) the Generation III SMR deployments, 2) the Risk Reduction for Future Demonstrations Program, and 3) the Advanced Reactor Demonstration Program, of which X-energy is one of two awardees. We expect to be allocated some portion of this to our project incremental to the current \$1.1B allocated to date. If the DOE does not approve updated budgets or if additional funding is not appropriated by Congress, we may be unable to complete project activities within the ARDP cost-share framework. This could require us to obtain additional capital on terms that may not be favorable, which could materially impact our business, financial condition, operating results and future prospects.

Our business plan may also include the development of other configurations of our SMR or other new projects, and makes certain assumptions with respect to learnings, efficiencies, and regulatory approvals as a result of this new development approach which may not be accurate or correct. Any adverse change to these assumptions may have a material adverse effect on our business prospects, financial condition and results of operations and cash flows.

We compete in a market characterized by rapid technological advances, evolving regulatory standards in software technology and frequent new product introductions and enhancements. To succeed, we may also rely on the development of other configurations of our SMRs or other new projects we may decide to undertake. The development of other configurations of our SMRs, or the undertaking of other new projects, has inherent risks, including, but not limited to:

- higher than expected research and development costs;
- delays or unexpected costs in developing new plant configurations;
- ability or delays in obtaining regulatory approval;
- customers delaying purchase decisions in anticipation of new configurations;
- customer confusion and extended evaluation and negotiation time;
- educating our sales, marketing, and consulting personnel to work with new configurations;
- competition from earlier and more established entrants;
- market acceptance of earlier configurations; and
- the accuracy of assumptions about the nature of customer demand.

If we are unable to successfully introduce, market, and sell other configurations of our SMRs, or undertake any other new projects in a timely and cost-effective manner, and properly position and/or price our products, our business, financial condition, operating results and future prospects could be materially impacted.

If we fail to manage our growth effectively, we may be unable to execute our business plan, and our business, financial condition, operating results and future prospects could be harmed.

In order to achieve the substantial future revenue growth we have projected, we must finalize our reactor design, receive regulatory approvals, including NRC licensing of additional fuel fabrication facilities, and continue to develop and market new products and services to traditional and nontraditional end users. We intend to expand our operations significantly to meet anticipated demand. To properly manage our growth, we will need to hire and retain additional personnel, upgrade our existing operational management and financial and reporting systems, and improve our business processes and controls. Our future expansion will be dependent on:

- hiring and training new personnel with the skill and expertise required;
- completing the licensing and construction of TX-1 and subsequent fuel fabrication facilities and optimizing the production of our TRISO-X fuel;
- finalizing our reactor design and developing new technologies and services (e.g., training, maintenance, procurement);
- optimizing applications of our reactors to serve both traditional utility and electric power customers and a broad base of nontraditional industrial customers interested in utilizing the efficient high temperature heat produced by our design;
- controlling expenses and investments in anticipation of expanded operations and rising costs;
- manufacturing and maintaining a sufficient supply of pebbles;
- managing the costs of our reactors;
- managing construction timelines, performance and budgets of our engineering, procurement and construction (“EPC”) partners and other third-party contractors;

- upgrading the existing operational management and financial reporting systems and team to comply with requirements as a public company; and
- implementing and enhancing administrative infrastructure, systems and processes.

If our operations continue to grow as planned, of which there can be no assurance, we will need to expand our sales and marketing, research and development, customer and commercial strategy, products and services, supply chain, and manufacturing functions, among others. These efforts will require us to invest significant financial and other resources, including in industries and sales channels in which we have limited experience to date. We will also need to continue to leverage our manufacturing and operational systems and processes, and there is no guarantee that we will be able to scale the business as currently planned or within the planned timeframe. The continued expansion of our business may also require additional manufacturing and operational facilities, as well as space for administrative support, and there is no guarantee that we will be able to find suitable locations for such facilities.

Our continued growth could increase the strain on our resources, and we could experience operating difficulties, including difficulties in hiring and training employees, finding manufacturing capacity to produce our SMRs and related equipment, delays in production, challenges in scaling up fuel and component fabrication capacity and difficulty sourcing adequate raw material, such as graphite and HALEU (which our customers are responsible for procuring), for our reactors. These difficulties may divert the attention of management and key employees and impact financial and operational results. If we are unable to drive commensurate growth, these costs, which include lease commitments, headcount and capital assets, could result in decreased margins, which could have a material adverse effect on our business, financial condition, operating results and future prospects.

Further, if our capital needs are greater than anticipated or the timing of expenditures accelerates, we may need to raise additional debt or equity, reduce scope, defer projects, or pursue alternative delivery models and risk-sharing structures; there can be no assurance such capital will be available when needed or on acceptable terms. See *Risks Related to X-energy's Capital Resources — In order to fulfill our business plan, we will require additional funding. To the extent we require such additional investor funding in the future, such funding may be dilutive to our investors and no assurances can be provided as to terms of any such funding. Any such funding and the associated terms will be highly dependent upon market conditions and the progress of our business at the time we seek such funding. The terms of any financing that we pursue may be less favorable than previously anticipated and could become even less favorable depending on the amount of funds we may require.*

There is limited commercial operating experience for our planned SMRs and facilities, configuration, and scale. This creates risks in cost and schedule estimates and lack of recent domestic commercial experience in terms of labor and supply chain and other factors may result in greater than expected construction cost, deployment timelines, maintenance requirements, differing power output and greater operating expense.

While our SMR design will be actively managed through design reviews, prototyping, testing, involvement of external partners with subject matter expertise, and application of approaches utilized in the operation of the Xe-100, we could still fail to identify latent design, manufacturing, construction, and operations issues early enough to avoid negative effects on production, fabrication, construction or ultimate performance of the Xe-100 and related technologies, or we may encounter unexpected regulatory issues. Moreover, the cost and time associated with the construction and maintenance of our SMRs may be greater than we or our customers expect because we or they may face a lack of a domestic labor force with relevant commercial experience and an inexperienced or insufficient supply chain for this type of reactor. Where these issues arise at later stages of deployment, deployment could be subject to greater costs or be significantly delayed, which could materially and adversely affect our business. Although nearly all of the cost to construct the Xe-100 is borne by our customers, such costs incurred by our customers could significantly exceed their and our expectations, including for reasons outside of their and our control, which could make existing or prospective customers less likely to contract with us and use our SMR design in the future, which could have a material adverse effect on our business, results of operations and financial prospects.

We have not yet entered into any technology fee agreements with our customers, which could materially impact our revenue model.

A key component of our business model generally and the illustrative unit economics provided in this prospectus is the ability to reach binding agreements with potential customers for use of and access to our

Xe-100 technology and designs and to realize the fees associated with such agreements. To date, we have not entered into any such agreements with our customers, and our customers have not paid such fees, and there can be no assurance that they will enter into such agreements in the future at levels currently anticipated or at all. Potential customers may resist paying technology fees given the substantial capital expenditures already associated with the construction of SMRs, or the potential development of technologies that may prove more efficient or effective. If we are unable to enter into these agreements or enforce or collect these fees, our expected revenue streams could be materially reduced.

Any failure to effectively create the design, ensure its commercial viability and implement the construction and operations of our planned SMRs and facilities or ensure cost competitiveness could reduce the marketability of X-energy designs and has the potential to impact deployment schedules.

Creating our designs and ensuring their commercial viability and implementing the construction and operations will be necessary to be competitive and attractive in the market, particularly in the U.S. where the price of power is generally lower than in certain other key markets. If we are not able to achieve and maintain cost competitiveness of our fuel or our planned SMRs in the U.S. or elsewhere, our business could be materially and adversely affected.

We may not attract customers to our Xe-100 technology as quickly as we expect, or at all, and acquiring customers may be more expensive than we currently anticipate.

Adoption of the Xe-100 among our potential customers may progress more slowly than we anticipate or it may be more expensive to bring potential customers into our pipeline. Any delay or failure to attract potential customers to our reactors or SMR technology may have a material and adverse impact on our business and financial condition.

The amount of time and funding needed to bring our nuclear fuel to market at scale may significantly exceed our expectations. Any material change to our assumptions or expectations, or any material overruns or other unexpected increases in costs, could have a material adverse effect on our expected revenues, gross margins and on the other information included in the illustrative unit economics provided in this prospectus or our ability to develop and market other coated particle fuels.

The development of our TRISO-X fuel at scale will take a significant amount of time and funding. TRISO-X fuel is produced through a highly specialized, small-batch manufacturing process. Scaling from pilot-scale production to commercial-scale production involves significant technical, regulatory, and economic challenges. Any shortfall in research, development, and testing funds, unexpected or significant increases in costs, any delay in achieving fuel development milestones, and any uncertainty in regulatory licensing timelines or adverse public reaction to developments in the use of nuclear power by special interest groups, community organizations and state and local government agencies leading to environmental litigation or other legal proceedings could result in significant delays and cost overruns and could adversely affect our ability to deploy, and our customers' ability to operate, the Xe-100. At this stage, we cannot accurately predict the amount of funding or the time required to successfully manufacture and sell our nuclear fuel in the future at scale. The actual cost and time required to commercialize our fuel technology may vary significantly from our initial forecasts depending on, among other things:

- the results of our research and product development efforts;
- the cost of developing or licensing our nuclear fuel and TX-1 and any subsequent fuel facilities;
- the cost to construct and operate TX-1 and subsequent fuel fabrication facilities, including potential construction delays;
- the ability of customers to efficiently adopt and use TRISO-X fuel in their reactors;
- changes in the focus and direction of our research and product development programs;
- access to test facilities;
- competitive and technological advances;
- the cost of filing, prosecuting, defending, and enforcing claims with respect to patents;

- the regulatory approval process;
- the fuel manufacturing process;
- adverse public reaction to the developments in the use of nuclear power resulting in environmental litigation or other legal proceedings;
- staffing and training qualified personnel to operate TX-1 and any other TRISO-X fuel facilities;
- the scalability of our TRISO-X fuel operations;
- availability and cost of LEU and HALEU;
- availability and cost of other raw materials necessary for fuel manufacturing, including graphite, process gases, and chemicals, among others; and
- marketing and other costs associated with commercialization of these technologies.

Because of this uncertainty, even if financing is available to us, we may need significantly more capital than anticipated, which may not be available on terms acceptable to us or at all. As a result, the expected revenues and other expected benefits from our nuclear fuel technology may be delayed or never realized. Any material change to our assumptions or expectations, or any material overruns or other unexpected increase in costs, could have a material adverse effect on our expected revenues, gross margins and on the other information included in the illustrative unit economics provided in this prospectus or our potential to develop and market other coated particle fuels.

If our customers are unable to access HALEU, our ability to manufacture TRISO-X fuel will be adversely affected, which could have a material adverse effect on our business, financial condition, operating results and future prospects.

Existing commercial nuclear infrastructure, including enrichment facilities and fuel fabrication facilities, were in most cases designed and are currently licensed to handle uranium in pellet and rod form, with enrichment up to 5% of the isotope Uranium 235 (LEU). Our fuel designs are based on a spherical pebble design composed of graphite, pyrolytic carbon and silicon carbide encapsulated uranium particles that have been enriched up to 15.5% for use in the Xe-100. This higher enriched uranium (greater than 5% but still below 20%) is known as HALEU. Supplying HALEU to our TX-1 and any subsequent fuel fabrication facilities, which will manufacture the fuel for our SMRs, will require certain modifications to NRC licensing of existing commercial uranium enrichment facilities, none of which are owned or operated by us, along with the construction of our TX-1 facility and construction and NRC licensing of any subsequent fuel fabrication facilities.

Presently, HALEU enrichment services are available only in limited quantities globally. In the U.S., HALEU can be sourced in limited quantities from the DOE, and a limited domestic supply from the private sector that we do not expect will be a significant source of our HALEU. Despite U.S. government initiatives designed to ensure initial HALEU quantities, including the establishment of the HALEU Availability Program to ensure access to HALEU for civilian domestic research, development, demonstration, and commercial use, the HALEU program is still in its early stages, and significant progress is required to achieve reliable and scalable production.

Government funding is subject to the political process, which is inherently unpredictable and can be highly competitive. The funding of government programs is dependent on budgetary limitations, congressional appropriations and administrative allotment of funds, all of which may be affected by changes in U.S. government policies resulting from various political developments, including recent efforts to negotiate an increase in, or suspension of, the debt ceiling. If an alternative commercial-scale supply of HALEU outside of Russia or China fails to materialize, including as a result of a lack of political support for the prioritization of the development of nuclear energy or otherwise, it may affect our ability to secure HALEU fuel in the future, which would materially adversely affect our business, financial condition, operating results and future prospects.

Our initial ARDP plant deployment may consequently depend on HALEU feedstocks released by the U.S. government, which may initially be in the form of highly enriched uranium, or “HEU” (enriched above

20%), that will be down-blended to HALEU levels for use in our TX-1, any subsequent fuel fabrication facilities and, ultimately, in ARDP reactors owned and operated by our partners. HEU can be processed to HALEU by only a limited number of licensed U.S. third parties. These third parties do not currently produce commercial levels of HALEU and may require regulatory approvals and process changes in order to produce the HALEU we require for the ARDP project. Our customers' longer term fuel feedstock supply arrangements and subsequent fuel fabrication, whether related to X-energy's TRISO-X fuel or other coated particle fuels we may manufacture for others, are likely to rely on commercial suppliers that do not yet produce and market HALEU, and which will also require NRC regulatory licenses in order to do so. Therefore, our customers' ability to obtain adequate long term HALEU supplies for our reactors on a predictable schedule and at predictable cost may be impaired, and activities like fuel loading, testing, and ultimate operation of our SMRs may be delayed, and our customers exposed to cost and schedule uncertainty, all of which may negatively affect the competitiveness of our SMRs.

Any HALEU enrichment facility will need to secure NRC licenses to enrich uranium to HALEU levels, and our TX-1 and any subsequent fuel fabrication facilities will require an NRC license to accept and fabricate HALEU into TRISO-X fuel. In February 2026, we received a Special Nuclear Material License from the NRC that establishes TX-1 as the first-ever Category II nuclear fuel facility licensed in the United States, enabling TRISO-X to commercially manufacture fuel using HALEU at its TX-1 site under an initial 40-year license. We anticipate constructing TX-2 on the same site, which will allow for the license to extend to both facilities. There is risk of relevant entities within the nuclear power industry being slow to make any required facility infrastructure modifications or to obtain, maintain or extend required licenses or approvals to enable such enrichment of HALEU fuel. Finally, there is a risk associated with possible negative public perception of uranium enrichment to greater than 5% that could potentially delay or hinder regulatory approval of our nuclear fuel designs. Should any of these events occur, our business would be materially adversely impacted.

Unsatisfactory safety performance or security incidents at our facilities, or any nuclear facility around the world, could have a material adverse effect on our business, financial condition, operating results and future prospects.

We design and will facilitate the manufacturing of highly sophisticated SMRs that depend on complex technology. We also work cooperatively with our suppliers, subcontractors, venture partners and other parties. Failures, disruptions or compromises to our or our third parties' systems or facilities may be caused by natural disasters, accidents, power disruptions, telecommunications failures, acts of terrorism or war, computer viruses, bugs or vulnerabilities, physical or electronic break-ins, human error, targeted cyberattacks, other intentional conduct, or similar events or incidents. While we have built operational processes to ensure that the design, manufacture, performance and servicing of our SMRs meet rigorous safety standards and performance goals, there can be no assurance that we will not experience operational or process failures or other problems, including through manufacturing or design defects, failure of third-party safeguards, mishandling or process failures, natural disasters, cyber attacks, or other intentional acts, that could result in potential safety risks. There can be no assurance that our preparations, or those of third parties, will be able to prevent or address any such incidents.

Any actual or perceived safety issues at our facilities, those of our customers, or any nuclear facility around the world may result in significant reputational harm to our businesses; in addition, such safety issues at our or our customers' facilities could result in enforcement proceedings brought by government regulators, tort liability, maintenance costs, increased safety infrastructure requirements and other costs that may arise. Such issues with our SMRs, facilities, or customer safety could result in delaying or cancelling delivery of SMRs to our customers, increased regulation or other systemic consequences. Our inability to meet our safety standards or address adverse publicity affecting our reputation as a result of accidents, mechanical failures, damages to customer property or medical complications could have a material adverse effect on our business, financial condition and results of operation.

In the nuclear industry, an accident or incident involving the mishandling of nuclear materials at any nuclear facility in the world can have an impact on other nuclear facilities around the world in terms of public acceptance, political pressures, and regulatory requirements and scrutiny. For example, the March 2011 accident at the Fukushima Daiichi plant in Japan resulted in millions of dollars in additional regulatory reviews and requirements for U.S. nuclear power plants. As a result of the Fukushima accident, some countries that were considering launching new domestic nuclear power programs delayed or cancelled the preparatory

activities they were planning to undertake as part of such programs. If a safety incident occurs at any nuclear facility in the world, it could delay licensing and/or drive up costs to license or own our SMRs and negatively impact our business or financial condition.

We rely on a limited number of suppliers for certain materials and supplied components, some of which are highly specialized and are being designed for first-of-a-kind or sole use in the Xe-100. We and our third-party vendors may not be able to obtain sufficient materials or supplied components to meet our manufacturing and operating needs, or obtain such materials on favorable terms or at expected costs.

We rely on a limited number of suppliers for certain raw materials and supplied components. We may not be able to obtain sufficient raw materials or supplied components to meet our manufacturing and operating needs, or obtain such materials on favorable terms or at expected costs, which could impair our ability to fulfill our orders in a timely manner or increase our costs of production.

We do not directly manufacture any of the components of our SMRs. Our ability to manufacture our SMRs is dependent upon sufficient availability of raw materials and supplied components, including many highly technical components that are still under design, are being designed for first-of-a-kind or sole use in the Xe-100 and have not yet been qualified for use, are only produced by a limited number of suppliers and may be particularly susceptible to cost increases, supply chain disruptions or inflationary pressures. Any supply chain disruption incurred by our third party suppliers or degradation in the quality and processes of our manufacturer partners, may result in delays, cost overruns or impairments to the development of our reactors.

Certain materials, such as the graphite used to line our reactor cores and for our TRISO-X fuel and helium, which is used as a reactor coolant, are currently produced in limited quantities and currently available from a limited number of vendors, which in some cases are predominantly outside of the U.S. (e.g., Germany and Japan). There is also increasing scrutiny on the environmental, social, or geographic provenance of certain goods, including critical minerals, which may require us to incur certain costs or further limit our ability to source certain goods required for our operations. For example, in December 2021, the U.S. adopted the Uyghur Forced Labor Prevention Act (“UFLPA”) which creates a rebuttable presumption that any goods, wares, articles, and merchandise mined, produced, or manufactured in whole or in part in the Xinjiang Uyghur Administrative Region of China or that are produced by certain entities are prohibited from importation into the United States. These import restrictions came into effect on June 21, 2022. While we are not presently aware of any direct impacts of these restrictions on our supply chain, the UFLPA may have an adverse effect on global supply chains which could adversely impact our business and results of operations. Although U.S. graphite suppliers are developing the capability and capacity to supply our needs, our current reliance on foreign suppliers to secure raw materials and supplied components exposes us to volatility in the prices and availability of these materials, and may result in our being susceptible to changes in geopolitical relationships. We may not be able to obtain a sufficient supply of raw materials or supplied components, on favorable terms or at all, which could result in delays in, or the inability to, manufacture our TRISO-X fuel and SMRs or result in increased costs.

We are dependent on the ability of our supplier partners to scale their production output to meet the requirements of our forecast. If our supplier partners cannot increase their production capacity to meet the demand, it could result in delays in our ability to manufacture our reactors at the rates required.

Certain key components of our SMR are currently manufactured outside the U.S. and we rely on the timely and cost-effective transportation of goods via ocean freight. Disruptions to global shipping networks, such as port congestion, vessel capacity shortages, labor strikes, extreme weather events, piracy, geopolitical tension, or new environmental regulations could significantly delay shipments, increase transportation costs, or impair our ability to meet customer demand. If such disruptions occur, we may be unable to secure alternative transportation in a timely manner, which could adversely affect our supply chain, customer relationships and financial performance.

Moreover, a major shipping accident could have a severe, negative impact on the delivery schedule and cost of our early projects, such as in the case of key components being lost at sea due to severe weather.

Additionally, the imposition of tariffs and impacts of inflation on raw materials or supplied components for our reactors could have a material adverse effect on our operations. Prolonged disruptions in the supply of

any of our key raw materials or components, difficulty qualifying new sources of supply, implementing use of replacement materials or new sources of supply or any volatility in prices could have a material adverse effect on our ability to operate in a cost efficient, timely manner. Such prolonged disruptions could also cause us to experience cancellations or delays of scheduled launches, customer cancellations or reductions in our prices and margins, any of which could harm our business, financial condition, operating results and future prospects.

In particular, recent global trade tensions and policy shifts have created an unpredictable environment for businesses operating across international borders. Changes in trade agreements, sanctions, export controls, and customs regulations may limit our ability to source materials from certain countries or entities, potentially forcing rapid and costly adjustments to our supply chain. Trade policies can change with limited notice, making long-term planning difficult and increasing operational costs.

While we attempt to mitigate these risks through diversification of our supplier base, inventory management strategies, and contractual protections, there can be no assurance that these measures will be effective. Any significant disruption to our supply chain resulting from tariffs or trade policy changes could have a material adverse effect on our business, financial condition, and ability to meet projected deadlines and milestones.

We depend on key executives and management to execute our business plan and conduct our operations. A departure of key personnel could have a material adverse effect on our business.

Our success depends, in significant part, on the continued services of our senior management team and on our ability to attract, motivate, develop and retain a sufficient number of other highly skilled personnel, including engineers, manufacturing and quality assurance, finance, marketing and sales personnel. Our senior management team has extensive experience in the energy industry, including nuclear, and manufacturing industries, and we believe that their depth of experience is instrumental to our continued success. The loss of any one or more members of our senior management team, for any reason, including resignation or retirement, could impair our ability to execute our business strategy and have a material adverse effect on our business and financial condition if we are unable to successfully attract and retain qualified and highly skilled replacement personnel.

Our business plan requires us to attract and retain qualified personnel including personnel with highly technical expertise. Were we not to be able to successfully recruit and retain experienced and qualified personnel, it could have a material adverse effect on our business.

Our future success depends in part on our ability to contract with, hire, integrate, and retain highly competent nuclear reactor and fuels focused engineers and scientists, and other qualified personnel. Competition for the limited number of these skilled professionals is intense. If we are unable to adequately anticipate our needs for certain key competencies and implement human resource solutions to recruit or improve these competencies, our business, financial condition, operating results and future prospects would suffer. Additionally, U.S. immigration policy may make it more difficult for qualified foreign nationals to obtain or maintain work visas. These visa limitations may make it more difficult and more expensive for us to hire the skilled professionals we need to execute our growth strategy and may adversely impact our business. If we are unable to recruit and retain highly skilled personnel, especially personnel with sufficient technical expertise to develop our reactors and fuel, we may experience delays, increased costs and reputational harm. additional requirements, which could adversely affect our results of operations.

We must complete nuclear grade material qualifications and obtain regulatory approvals for the use of various materials in our TRISO-X fuel and our reactor designs. This includes long lead time irradiation testing and analysis, which may require redesign or use of alternative suppliers if results are unsatisfactory. Further, certain key nuclear grade materials and components, such as graphite, are only produced in limited quantity and predominantly outside of the U.S. Cultivating expanded foreign or domestic U.S. supply chain manufacturing capacity for key materials and components depends on cooperation from government and supply chain partners that may result in shortages and delays if not accomplished within assumed timelines or costs. These key materials and components may also be particularly vulnerable to inflationary pressures and cost increases.

The equipment, components, and materials used in a nuclear power plant are subject to a heightened level of manufacturing and quality assurance scrutiny, in compliance with NRC regulations, applicable codes and

nuclear industry standards. Moreover, it is critical to demonstrate in facility design and development that the materials used in the reactor facility, which will be exposed to radioactive materials, perform in accordance with necessary design parameters. The heightened manufacturing and quality assurance requirements and regulatory oversight limit the number of potential suppliers from whom we can procure many types of equipment, components, and materials used in our reactors and within TX-1, as well as the types of facilities where we can test certain materials. We may not be able to obtain sufficient materials or supplied components to meet our manufacturing and operating needs, or obtain such materials on favorable terms, which could impair our ability to fulfill our orders in a timely manner or increase our costs of production.

Our suppliers' ability to manufacture components for our fuel fabrication facilities is dependent upon sufficient availability of materials and possibly other supplied components, some of which are highly specialized and are being designed for first-of-a-kind or sole use in our fuel fabrication facilities. Any supply chain disruption incurred by our third-party suppliers or degradation in the quality and processes of our manufacturer partners, may result in delays, cost overruns or impairments to the development of our fuel fabrication facilities.

These suppliers and the key materials and essential components may be particularly vulnerable to price increases, as a result of supply and demand dynamics, inflation, the current administration's implemented tariffs, and other price pressures. As a result, supplier delays, unexpected performance testing results, issues in the manufacturing process or procuring necessary materials, international procurement needs, regulatory compliance issues, component qualification issues or delays, increases in costs as a result of inflation or otherwise, and geopolitical considerations can all impact our ability to perform necessary R&D, assist a customer in licensing a reactor, license TX-1, assist customers in constructing and operating an X-energy reactor design, or construct and operate TX-1. Such prolonged disruptions could also cause us to experience cancellations or delays of scheduled projects, customer cancellations or reductions in our prices and margins, any of which could harm our business, financial condition, operating results and future prospects.

Our business is subject to the risks of earthquakes, fire, floods and other natural catastrophic events, global pandemics, and interruptions by man-made problems, such as network security breaches, computer viruses or terrorism. Material disruptions of our business or information system resulting from these events could adversely affect our operating results.

We are vulnerable to damage from catastrophic events, such as natural disasters, global pandemics, power loss, and similar unforeseen events beyond our control. Catastrophic events could disrupt our business operations, reduce or restrict our supply of products and services, incur significant costs to protect our employees and facilities, or result in regional or global economic distress, which may materially and adversely affect our business, financial condition, operating results and future prospects. Actual or threatened war, terrorist activities, political unrest, civil strife, and other geopolitical uncertainty could have a similar adverse effect on our business, financial condition, and results of operations. Any one or more of these events may adversely affect our operation results, or even for a prolonged period of time, which could materially and adversely affect our business, financial condition, and results of operations.

We cannot guarantee that we are adequately protected from the effects of earthquakes, fire, floods, typhoons, global pandemics, power loss, telecommunications failures, break-ins, war, riots, network security breaches, computer viruses, terrorist attacks or similar events. Any of the foregoing events may give rise to interruptions, damage to our property, delays in production, breakdowns, system failures, technology platform failures, or internet failures, which could cause the loss or corruption of data or malfunctions of our internet system as well as adversely affect our business, financial condition, and results of operations.

If a natural disaster, power outage or other event occurred that prevented us from using all or a significant portion of our headquarters, damaged critical infrastructure, or otherwise disrupted operations, it may be difficult or, in certain cases, impossible for us to continue our business for a substantial period of time. The disaster recovery and business continuity plans we have in place are unlikely to provide adequate protection in the event of a serious disaster or similar event. We may incur substantial expenses as a result of the limited nature of our disaster recovery and business continuity plans, which could have a material adverse effect on our business.

Our use of AI-based technology may present new risks and challenges to our business.

The rapidly evolving use of AI in our industry presents significant risks. If we fail to adopt, manage, and govern AI responsibly, our brand, regulatory approvals, operations, and financial results could be adversely affected.

We may explore the usage of third-party AI or machine learning (“ML”) platforms, offerings and tools, including AI chatbots and generative AI products (“AI/ML Technology”), in our internal operations. The development and use of AI/ML Technology present various privacy and security risks that may impact our business. AI/ML technology is subject to privacy and data security laws, as well as increasing regulation and scrutiny. The use of AI/ML technology and third-party open-source AI tools by our employees and consultants could pose risks relating to the protection of data, including the potential exposure of our proprietary, confidential or otherwise protected information to unauthorized recipients and the misuse of our or third-party intellectual property. Use of AI tools may result in allegations or claims against us related to violation of third-party intellectual property rights, unauthorized access to or use of proprietary information and failure to comply with open-source software requirements.

We have developed policies governing the use of AI/ML Technology by our employees, contractors, and authorized agents that are designed to protect our assets, including intellectual property, competitive information, personal information we may collect or process, and customer information. Any failure by our personnel, contractors or other agents to adhere to our policies could result in a violation of confidentiality obligations or applicable laws and regulations (including data privacy laws), jeopardize our intellectual property rights, cause or contribute to unlawful discrimination, result in the misuse of personally identifiable information, or introduce greater vulnerabilities to cybersecurity attacks or malware into our systems. We also could be subject to claims from providers of third-party AI/ML Technology that we are using their products, tools or outputs in a manner that is inconsistent with their terms of use, and such claims may result in costly legal proceedings.

The regulatory framework for AI/ML Technology is rapidly evolving as many federal, state and foreign government bodies and agencies have introduced or are currently considering additional laws and regulations. Additionally, existing laws and regulations may be interpreted in ways that would affect our use of AI/ML Technology, or could be rescinded or amended as new administrations take differing approaches to evolving AI/ML Technology. As a result, we cannot be certain that our policies or adherence to the existing laws and regulations will offer us sufficient protection or that the use of the AI/ML Technology will not harm our reputation, financial condition or operating results.

Several jurisdictions around the world, including Europe, the U.S. federal government and certain U.S. states, have proposed, enacted or are considering laws and policies governing the development, deployment and use of AI/ML, such as the EU Artificial Intelligence Act. It is possible that further new laws and regulations will be adopted in the U.S. and in other non-U.S. jurisdictions, or that existing laws and regulations, including competition and antitrust laws, may be interpreted in ways that would limit our ability to use AI/ML Technology for our business. Additionally, certain privacy laws extend rights to consumers (such as the right to delete certain personal data) and regulate automated decision making, which may be incompatible with our use of AI/ML. These obligations may make it harder for us to conduct our business using AI/ML, jeopardize our proprietary information, lead to regulatory fines or penalties, require us to change our business practices, retrain our AI/ML, or prevent or limit our use of AI/ML. If we cannot use AI/ML or our use is restricted, our business may be less efficient, or we may be at a competitive disadvantage. In addition, uncertainties regarding developing legal and regulatory requirements and standards may require significant resources to modify and maintain business practices to comply with laws in the U.S. and other jurisdictions concerning the use of AI/ML Technology, the nature of which cannot be determined at this time.

The use of third-party AI/ML Technology by our business partners and employees with access to our confidential information, including trade secrets, may continue to increase. This could lead to the misuse or disclosure of such information, which could negatively impact us, including our ability to realize the benefits of our intellectual property. The use of AI/ML Technology by our business partners may lead to cybersecurity risks, which could have a material adverse effect on our operations and reputation as well as the operations of any of our business partners. Finally, the use of AI/ML Technology also presents emerging ethical issues, and

if our use of third-party AI/ML Technology becomes controversial, we may experience brand or reputational harm or legal liability or we may be at a competitive disadvantage.

Further, constraints or shocks in AI/ML Technology supply chains could increase costs or delay projects as we continue to rely on them for faster design and delivery of our solutions. Availability and pricing of advanced computing, specialized chips, and cloud capacity used for model development and simulation fluctuate with industry demand. Supply constraints could slow our digital engineering or analytics roadmaps or increase spend.

Any of these risks could be difficult to eliminate or manage and, if not addressed, could have a material adverse effect on our business, financial condition, operating results and future prospects.

Risks Related to the Industry, Competition and General Economic Conditions

The market for our products and services is still in the early stages of growth and if it does not continue to grow, it grows more slowly than we expect, or fails to grow as large as we expect, our business, financial condition, operating results and future prospects may be adversely affected.

Our success depends substantially on the willingness of consumers to widely adopt our products and services and to pay associated prices for our products and services sufficient to meet our revenue and margin targets in terms of percentage and gross receipts. To be successful, we will have to educate consumers about our products and services through significant investment and provide quality products that are superior to the products provided by our competitors. It is difficult to predict the future growth rates, if any, and size of our market. We cannot assure you that our market will develop or that our products and services will be widely adopted. If our market does not develop, develops more slowly than expected, or becomes saturated with competitors, or if our products and services do not achieve market acceptance, our business, financial condition, operating results and future prospects could be adversely affected.

The market for Gen IV advanced nuclear reactor designs generating electric power and high-temperature heat is not yet established and may not achieve the growth potential we expect or may grow more slowly than expected.

The market for Gen IV advanced nuclear reactor designs such as the Xe-100 has not yet been established. SMRs utilizing advanced nuclear technologies have limited operational history and have not been proven at scale. Estimates for the total addressable market and our expectations, inclusive of recent updates, with regard to certain illustrative unit economics provided in this prospectus are based on a number of internal and third-party estimates, including our potential contracted revenue, the number of potential customers who have expressed interest in our SMRs, assumed prices and production and regulatory costs for our SMRs, our ability to leverage our current logistical and operational processes, assumptions regarding our technology and general market conditions. However, our assumptions and the data underlying our estimates may not be correct and the conditions supporting our assumptions or estimates may change at any time, reducing the predictive accuracy of these underlying factors. As a result, our expected performance as indicated by the illustrative unit economics provided in this prospectus, our estimates of the annual total addressable market and serviceable addressable market for our services, as well as the expected growth rate for the total addressable market and serviceable addressable market for our services, may prove to be incorrect.

In addition, our reactors, financial models and the illustrative unit economics included in this prospectus assume an anticipated plant life of 60 years. However, the licenses we receive from the NRC and other government authorities are limited to an initial term of 40 years, which is the maximum initial licensing term currently permitted. There is no assurance that we will be able to obtain license renewals or extensions, and if we are unable to do so, our reactors may be required to cease operations before the end of their useful lives, which could reduce the economic return of our projects, adversely affect customer demand, and negatively impact our business, financial condition, operating results and future prospects.

Our cost estimates are highly sensitive to broader economic factors, and our ability to control or manage our costs may be limited.

Capital and operating costs for the deployment of a first-of-a-kind reactor such as the Xe-100 are difficult to project, inherently variable and are subject to significant change based on a variety of factors, including site

specific factors, customer offtake requirements, regulatory oversight, operating agreements, supply chain availability, local labor rates, inflation, detailed design, engineering and other factors. Opportunities for cost reductions with subsequent deployments are similarly uncertain. To the extent cost reductions are not achieved within the expected timeframe or magnitude, the Xe-100 and TRISO-X fuel may not be cost competitive with alternative technologies, which could materially and adversely affect our expected revenues, gross margins and the information included in the illustrative unit economics provided in this prospectus.

In addition, our cost estimates and project economics could be materially impacted by tariffs or other trade restrictions imposed on materials, components or equipment required for the construction and operation of our reactors and fuel facilities. While we do not expect to purchase certain key materials and components for several years, changes in tariff regimes or the imposition of new tariffs prior to or during our procurement period could significantly increase our costs or limit our ability to source necessary items. The potential for future tariffs or trade actions creates additional uncertainty in our cost projections and could adversely affect our competitiveness, margins and financial results.

The illustrative unit economics presented in this prospectus are estimates only, reflecting management's current expectations and based on numerous assumptions. The illustrative unit economics presented in this prospectus may not be realized, and actual results could differ materially from the illustrative estimates presented.

Given our early stage of development, it is difficult to predict what results we might ultimately achieve. While we present “illustrative unit economics” in this prospectus, these figures are not projections, forecasts, targets or guidance for our future operating results but what we believe to be illustrative of potential revenues based on customer fees, and associated costs, based on information available to us as of the date of the prospectus. Our ability to actually achieve these unit economics and our business model depend on numerous factors and are based on numerous assumptions. In particular, the illustrative unit economics described in this prospectus are based on management’s current expectations and assumptions regarding customer fees, costs, and margins for a single plant. Actual results will depend on numerous factors outside our control, including customer negotiations and fee structures, market conditions, supply-chain costs and dynamics, manufacturing efficiency and utilization, financing terms and assumptions, customer adoption and actual operational performance, and are subject to the risks described below and elsewhere in this “Risk Factors” section. Any variation in these assumptions could cause our actual results to differ materially from the illustrative estimates presented.

Technology Fees. The illustrative unit economics reflect management’s current expectations regarding the amount and timing of technology fees we would expect to charge for customers’ use of our Xe-100 technology. These expectations are based on management’s internal benchmarking of IP licensing and industrial technology fees across various similar industries and sectors, together with the experience of our team and ongoing customer discussions. However, there is no directly comparable technology against which to benchmark the fee, and there can be no assurance that we would be able to collect from our customers fees that are typical in other industries or sectors. While we have had preliminary discussions with certain customers regarding a proposed fee estimate within the middle of the range reflected in the illustrative unit economics, we have not yet entered into any technology, intellectual property or related agreements, and we can provide no assurance that customers will accept our anticipated fee structure or pricing. In addition, because the technology fees relates to the use of our intellectual property, the associated cost to us is assumed to be zero.

The final fee will be negotiated on a case-by-case basis with each customer, based on numerous factors specific to each customer, and our actual revenues and customer fees from our technology fee may differ materially from the estimates in the illustrative unit economics, including as a result of the following factors, among others:

- customer negotiations that result in materially lower fees or delayed payment schedules;
- variations in project scope, timing, and customer profile that affect negotiated pricing;
- the potential emergence of competitors or alternative reactor technologies that exert downward pressure on fees;
- evolving market conditions, regulatory developments, and cost of capital for nuclear projects;
- customer reluctance to pay milestone-based technology fees prior to commercial operation;

- customers not being willing to pay higher fees for later stage plants, even after scaling and validation; and
- litigation, claims or other events that could result in an associated costs to us related to the use of our intellectual property.

If we are not able to receive our anticipated technology fee structure and pricing, it would have an impact on the amount of revenues, the timing of revenues and the percentage of revenues we anticipate generating pre-COD. For example, we expect approximately 15–35% of revenue in our reactor line of business to be realized prior to (and including) COD, and this includes both the technology fee and the services fees described below. If the actual technology fee we receive is lower, or customers are not willing to pay the assumed higher fees for later stage plants or on the milestone-based payment structure, then our illustrative pre-COD revenues and our illustrative percentage of pre-COD revenue will be lower, which could have a material and adverse impact on our business, results of operations and financial prospects, including our need to obtain additional financing or to generate sufficient liquidity or revenues to operate our business pre-COD.

Services. The illustrative unit economics reflect management’s current expectations regarding the amount and timing of services fees we would expect to charge customers for providing them with a suite of project development and operating services, including site selection, permitting, engineering, training, and procurement support and, following commercial operation date (“COD”), ongoing maintenance and operator training. Our assumptions regarding services pricing, timing, and margins are based on limited experience to date from the provision of initial strategic business and other services we have provided to customers and potential customers, as well as industry benchmarking and our team’s collective experience. However, there can be no assurance that we would be able to collect from our customers fees that are typical in other industries or sectors. To date, we have entered into only limited services or other agreements with potential customers, and we can provide no assurance that customers will accept our anticipated fee structure or pricing. The illustrative unit economics also assume that our customers will continue to rely on us as a service provider throughout the operational life of a plant, and there is no assurance that they will continue to do so. In addition, our services business depends on assumptions about customer demand, pricing, and long-term relationships that may not materialize.

- Our actual services revenues, customer fees, costs and margins may differ materially from the estimates in the illustrative unit economics, including as a result of the following factors, among others: our estimates are based on our limited history providing services at commercial scale, and actual costs to provide these services may be higher, and we may not be able to pass through all of the costs to our customers at our estimated fees and our estimated margin;
- we have only entered into a small number of services agreements with potential customers and those may not be representative of future revenues, fees, costs or margins that we are able to achieve;
- third-party service providers could enter the market, introducing price competition and thereby reducing revenue and fees, increasing costs and reducing margins;
- customers may elect to self-perform or contract with alternative vendors for site services, maintenance, or operator training; and
- our ability to maintain efficient staffing, supply-chain arrangements, and project execution will directly affect costs and profitability.

If our services assumptions prove inaccurate, our expected revenues, fees and margins could be materially reduced, and we may experience higher costs than currently anticipated. Because we do not construct, own, or operate plants, following COD, we depend entirely on customers’ continued engagement of our services to generate recurring revenue from our reactor line of business, with approximately 65-85% of revenue from our reactor line expected to be from the provision of long-term services offered post-COD. In addition, if the actual pre-COD services fees we receive are lower, then our illustrative pre-COD revenues and our illustrative percentage of pre-COD revenue will be lower, which could have a material and adverse impact on our business, results of operations and financial prospects, including our need to obtain additional financing or to generate sufficient liquidity or revenues to operate our business pre-COD. Similarly, if we do not generate the anticipated revenues post-COD, or if our costs are higher or margins are lower than anticipated, it could

have a material and adverse impact on our business, results of operations and financial prospects, including our need to obtain additional financing or to generate sufficient liquidity or revenues to operate our business post-COD.

Fuel Pricing. The illustrative unit economics reflect management's current expectations regarding the amount of TRISO-X fuel we will sell to customers, the price at which we will do so, and our related operating and capital costs. Our expectations assume that we will supply the initial core fuel load at COD and, following COD, provide recurring fuel supply for refueling over the life of each plant. We further assume that we will be the initial sole supplier of proprietary TRISO-X fuel. We have not yet entered into definitive fuel supply agreements, and there can be no assurance that customers will agree to the anticipated fee structure, pricing, or volume commitments. Customers may seek lower-cost alternatives, negotiate volume discounts, or purchase from other suppliers once alternative sources of TRISO-X fuel become available.

Our actual revenues, fees, costs and margins from selling TRISO-X fuel to our customers may differ materially from the estimates in the illustrative unit economics, including as a result of the following factors, among others:

- the emergence of third-party suppliers or alternative fuel technologies that compete on price or performance;
- changes in uranium, feedstock, or manufacturing costs that adversely affect our margins;
- delays or cost overruns in developing and commissioning our fuel fabrication facilities, including the costs of labor, materials, and overhead;
- customer decisions to source fuel from other vendors once alternative supply chains are available; and
- the need to finance future fuel facilities at assumed utilization levels that may not be achieved.

If actual utilization of our manufacturing or fuel-fabrication facilities is lower than expected, or if costs increase due to inflation, regulatory delays, or operational inefficiencies, our margins could be materially reduced. In addition, the assumptions underlying the illustrative unit economics also exclude any costs or risk related to uranium procurement or inventory, feedstock procurement, or spent fuel management, which are borne by our customers. If we are required to bear any of these costs, or if fuel costs increase due to inflation, supply-chain constraints, or regulatory changes, our expected margins could be materially reduced. If our fuel pricing assumptions prove inaccurate, expected revenues, fees and margins could be materially reduced, and we may experience higher costs than currently anticipated. In addition, if the costs borne by our customers exceed their expectations, our reputation with our customers may be negatively impacted. Any of the foregoing could have a material and adverse impact on our business, results of operations and financial prospects, including our need to obtain additional financing or to generate sufficient liquidity or revenues to operate our business.

Our economics are based on an anticipated 60-year operating life of a reactor. While the Atomic Energy Act of 1954 limits initial licensing to 40 years, the current operating fleet was designed to operate beyond that limit. Similarly, the Xe-100 is designed with substantial margins to support operation beyond the initial 40-year licensing term. The NRC established a license renewal program that permits licensees to seek approval for subsequent 20-year operating periods. In license renewal, the NRC focuses on evaluating whether aging management programs adequately address the effects of aging on structures, systems, and components important to safety. For much of the current operating fleet, license renewal requirements were not in place at the time of initial licensing, and comprehensive aging management programs were therefore developed and reviewed as part of the license renewal process. Almost every U.S. commercial nuclear power plant operates under a renewed license, valid for 40–60 years of potential total operations, and the NRC is now reviewing applications for “subsequent license renewal,” valid for 60–80 years of potential operations. The Xe-100 design contemplates long-term operations, and while X-energy is incorporating aging management considerations into the reactor design from the outset to be well positioned to support future license renewal applications, NRC approval cannot be assured.

While the NRC license renewal process is well established and the majority of applications have been approved, the NRC has, in limited circumstances, denied or reversed license renewal approvals where applications failed to satisfy applicable safety, environmental, or regulatory requirements. Accordingly,

X-energy's proactive approach to aging management and regulatory compliance may not eliminate license renewal risk. If the NRC does not approve our license renewal application, or if the anticipated operating life of a reactor is lower than anticipated, it could have a material and adverse impact on our business, results of operations and financial prospects.

Competition from existing or new companies could cause us to experience downward pressure on prices, fewer customer orders, reduced margins, the inability to take advantage of new business opportunities, and the loss of market share.

We operate in highly competitive markets and are subject to competition based upon product design, performance, project execution, constructability, pricing, quality, and services, from competing nuclear suppliers as well as from alternative means of producing electricity and/or heat. There are a number of advanced reactor designs, and some advanced reactor projects, under development in the U.S. Many of these designs are involved in preapplication review with the NRC. Our advanced design, projected product design performance, engineering expertise, and quality control have been important factors in our growth; nonetheless other companies providing competing technologies could capture customers or market share from us, which could have a material adverse effect on our business or financial condition.

In addition, some markets experience very low power prices due to a combination of subsidized renewables and low-cost fuel sources, and we may not be able to compete in these markets unless the benefits of the Xe-100 and our TRISO-X fuel are sufficiently valued in the market.

For sales and/or deployments outside of jurisdictions with highly developed nuclear regulatory frameworks, some of our foreign competitors currently benefit from, and others may benefit in the future from, permissive regulatory and licensing regimes and/or from protective measures by their home countries where governments are providing financial support, including significant investments in the development of new technologies. Competitors based in Russia and China, such as China National Nuclear Corporation, currently operate commercial or near-commercial SMRs in their home countries, while competitors based in Korea are pursuing SMR development but do not currently operate commercial SMRs. Although their SMR designs have not been approved or licensed for use by the NRC or any other nuclear regulator in any jurisdiction outside of their native countries, those competitors may have a competitive advantage if they are able to obtain approvals, or if they can demonstrate to potential customers the value and benefits of their SMRs, particularly in jurisdictions that have less stringent nuclear regulatory requirements. These competitors may have access to greater sources of funding to develop and commercialize their SMRs than we do, whether as a result of potential competitive advantages or from supportive national governments. This market environment may result in increased pressures on our pricing and other competitive factors.

We believe our ability to compete successfully in designing, engineering and manufacturing our products and services at significantly reduced costs to customers does and will depend on a number of factors which may change in the future due to increased competition, our ability to meet our customers' needs and the frequency and availability of our offerings. If we are unable to compete successfully, our business, financial condition, operating results and future prospects would be adversely affected.

Changes in the availability and cost of electricity, natural gas, oil and other forms of energy are subject to volatile market conditions that could adversely affect our business.

The prices for and availability of electricity, natural gas, oil and other energy resources are subject to volatile market conditions. We do not control these market conditions, which are, moreover, often affected by political and economic factors beyond our control. Decreases in energy prices, or changes in nuclear energy costs relative to other forms of energy, may adversely affect our business. To the extent that these uncertainties cause suppliers and customers to be more cost sensitive or to adjust their business plans and operations, decreased energy prices may have an adverse effect on our results of operations and financial condition.

The cost of electricity generated from nuclear sources may not be cost competitive with other electricity generation sources in some markets, which could materially and adversely affect our business.

U.S. electricity markets are heavily regulated at the federal, state and local levels. Many U.S. electricity markets price electric energy, capacity, and/or ancillary services on a competitive basis, with market prices

subject to substantial fluctuations. Other markets require that power purchase decisions by electric utilities be subject to various competitiveness or prudence tests. As a result of competitive pressures, some electricity markets experience low marginal energy prices at certain times due to a combination of subsidized generating resources, competitors with low cost or no cost fuel sources, or market design features that create incentives for certain attributes or deliver revenue in unpredictable ways over time, and X-energy may not be able to compete in these markets unless the benefits of the low carbon, reliable and/or resilient energy generation provided by the Xe-100 are sufficiently valued. Even in electricity markets that price reliable capacity on a long term basis, there is no guarantee that our customers' Xe-100 units will be sufficiently low cost so as to clear auction style capacity markets, and clearing a capacity auction in any one year is no guarantee of clearing in successive years.

Given the relatively lower electricity prices and higher availability of power in the U.S. when compared to many international markets, the risk associated with lower cost alternatives may be greater with respect to our business and operations in the U.S. Regardless of jurisdiction, however, failure of our SMRs to provide competitively priced electric energy, capacity and/or ancillary services could materially and adversely affect our business.

We and our customers operate in a politically sensitive environment, and the public perception of nuclear energy can affect our customers and us.

Successful execution of our business model is dependent upon public support for nuclear power in the U.S. and other countries. The risks associated with uses of radioactive materials, both in our proposed TX-1 fuel fabrication facility, and subsequent fuel fabrication facilities and by our customers in future deployments of our SMR designs, and the public perception of those risks, can affect our business. Opposition by third parties can delay or prevent the licensing and construction of new nuclear power facilities and in some cases can limit the operation of nuclear reactors. Adverse public reaction to developments in the use of nuclear power could directly affect our customers and indirectly affect our business. Adverse public reaction, increased regulatory scrutiny and related litigation could contribute to extended licensing and construction periods for new nuclear reactors, delay construction schedules, or even shut down operations at already-constructed reactors. There have only been two new nuclear reactors built in the U.S. over the past 30 years, so there is not a good calibration today of the level of public acceptance or adverse reactions to nuclear power. Public perception of nuclear energy, as with most energy sources tends to be locally generated depending on the politics of the impacted communities rather than federally driven. As with other very visible technologies, a potential accident by any company or organization in the nuclear community can negatively impact the public perception of a particular project, such as our or our customer's projects.

From a political perspective, while the current U.S. federal administration and select members of Congress are currently quite favorable towards nuclear energy, we cannot guarantee that such sentiment will last or that opponents of nuclear energy will not be successful in increasing the cost, complexity, or timelines associated with nuclear energy, whether in our operations or those of the broader industry and value chain. Any such delays may also impact the marketability of our technology internationally or our competitive position relative to others. For example, China already has a 500 MWt High Temperature Gas-cooled Reactor (HTGR) plant in operation, has a TRISO-X fuel facility, and is already marketing their technology internationally. Although Russian and Chinese competitors have SMR designs that have not been approved by the NRC or in any jurisdiction outside of their native countries, those competitors may have a competitive advantage if they are able to obtain approval comparable to the NRC's Standard Design Approval, or if they can otherwise demonstrate to potential customers the value and benefits of their SMRs, particularly in jurisdictions that have less stringent regulatory requirements. In addition, these competitors may have access to greater government or other funding to develop and commercialize their SMRs than we do.

The direct and indirect impact on us and our customers from severe weather and other effects of climate change and the economic impacts of the transition to noncarbon based energy, could adversely affect our financial condition, operating results, and cash flows.

There are inherent climate-related risks wherever business is conducted. Our operations and properties, and those of our customers, may in the future be adversely impacted by flooding, wildfires, high winds, drought and other effects of severe weather conditions. Climate change is expected to increase the frequency and

severity of such events, as well as contribute to chronic changes (such as changes to meteorological and hydrological patterns) that may result in similar risks. These events can force us or our customers to suspend operations at impacted properties and may result in significant damage to such properties. Even if these events do not directly impact us or our customers they may indirectly impact us and our customers through increased insurance, energy or other costs. The ongoing transition to non-carbon based energy also presents certain risks, including macroeconomic risks related to higher energy costs and energy shortages, among other things, which may also impact us directly or indirectly, such as through our supply chain. The speed and direction of the energy transition are also uncertain and subject to various competing pressures, including as a result of political, market, and other forces. If policymakers or the market coalesce around alternative energy technologies — such as renewables with battery storage, hydrogen, geothermal, or fossil fuels with carbon capture — such trend may adversely impact our ability to capture benefits associated with the energy transition. These direct and indirect impacts from climate change could adversely affect our financial condition, operating results, supply chain and cash flows.

We are subject to a series of risks related to sustainability matters.

There is ongoing scrutiny from investors, customers, policymakers and other stakeholders regarding companies' consideration and management of climate change, human capital, and various other environmental and social matters. We from time to time engage in various initiatives (including disclosures) to address such matters and related stakeholder expectations; however, such initiatives entail costs and may not have the desired effect. Methodologies, standards, and data associated with sustainability disclosures are often complex and continuing to evolve. As with other companies, our approach to such matters is also expected to evolve, and we cannot guarantee that our approach will align with the expectations or preferences of any particular stakeholder. For example, in some instances, companies have been subject to accusations of greenwashing due to alleged deficiencies in disclosure, methodology, or actions. Additionally, in some instances, such stakeholders have different, or even conflicting, expectations, which can increase the cost and complexity of response. Failure to successfully navigate such expectations (including any regulatory requirements) may result in reputational harm, loss of customers or contracts, engagement from regulators or capital providers, or other adverse impacts to our business. Certain of our suppliers, customers, and other stakeholders are also subject to similar expectations, which may result in new or greater risks, including risks that may not currently be known to us.

Risks Related to X-energy's Use of Technology

Technological changes could render our technology and products uncompetitive or obsolete, which could prevent us from achieving market share and sales.

Our failure to refine or advance our SMR technologies could cause our reactor technology to become uncompetitive or obsolete, which could prevent us from achieving market share and sales. We may need to invest significant financial resources in research and product development to keep pace with technological advances in the industry and to compete in the future; we may be unable to secure such financing. A variety of competing alternative technologies may be in development by other companies that could result in lower manufacturing or operating costs and/or higher performance than those expected for our technology. Our development efforts may be rendered obsolete by the technological advances of others, and other technologies may prove more advantageous for commercialization.

We and our third-party providers are subject to information technology and cyber security risks which could result in material adverse effects to our business, financial condition, operating results and future prospects, including damage to our reputation, material financial penalties, and legal liability.

We are increasingly dependent upon information technology systems, infrastructure and data to operate our business (collectively "IT Systems"). We own and manage some of these IT Systems but also rely on third parties for a range of IT Systems and related products and services. In the ordinary course of business, we collect, store and transmit confidential information (including but not limited to intellectual property, proprietary business information and personal information) (collectively, "Confidential Information") through our IT Systems. It is critical that we do so in a secure manner to maintain the confidentiality and integrity of

such Confidential Information. We also have outsourced elements of our operations to third parties, and as a result we manage a number of third-party contractors who have access to our Confidential Information.

The IT Systems and those of our contractors and consultants face numerous and evolving cybersecurity risks that threaten the confidentiality, integrity and availability of our IT Systems and Confidential Information, including breakdown or other damage or disruption from service interruptions, system malfunction, natural disasters, terrorism, war and telecommunication and electrical failures, as well as security breaches from inadvertent or intentional actions by our employees, contractors, consultants, business partners, and/or other third parties, or from cyberattacks by malicious third parties (including the deployment of harmful malware, ransomware, denial-of-service attacks, social engineering and other means to affect service reliability and threaten the confidentiality, integrity and availability of information).

Cyberattacks are expected to accelerate on a global basis in frequency and magnitude as threat actors are becoming increasingly sophisticated in using techniques and tools, including AI, that circumvent security controls, evade detection and remove forensic evidence. As a result, we may be unable to detect, investigate, remediate or recover from future attacks or incidents, or to avoid a material adverse impact to our IT Systems, Confidential Information or business. There can also be no assurance that our cybersecurity risk management program and processes, including our policies, controls or procedures, will be fully implemented, complied with or effective in protecting our IT Systems and Confidential Information. Furthermore, given the nature of complex systems, software and services like ours, and the scanning tools that we deploy across our networks and products, we regularly identify and track security vulnerabilities to include potential risk level and severity. We are unable to comprehensively apply patches or confirm that measures are in place to mitigate all such vulnerabilities, or that patches will be applied before vulnerabilities are exploited by a threat actor.

While we have not experienced any material cyberattacks or other incidents to date, we cannot assure you that such incidents will not occur in the future, which could have a material adverse effect on our reputation, business, financial condition and results of operations. For example, we maintain databases comprised of our Xe-100 nuclear design technical engineering information and operations information, which have been and will continue to be used to design the Xe-100 reactors and will be utilized in “digital twin” construction and operations environments to allow for highly efficient construction and operations of these designs. If this database were to be lost or compromised, our ability to efficiently deploy and operate our reactors could be significantly impaired.

Furthermore, any adverse impact to the availability, integrity, or confidentiality of our IT Systems or Confidential Information could result in financial, legal, business, and reputational harm to us. For example, any such event that leads to unauthorized access, use, or disclosure of Confidential Information, including personal information related to our employees, could harm our reputation directly, compel us to comply with federal and/or state breach notification laws and foreign law equivalents, subject us to mandatory corrective action, and otherwise subject us to liability under laws and regulations that protect the privacy and security of personal information, which could result in significant legal and financial exposure and reputational damages that could potentially have an adverse effect on our business. Finally, we cannot guarantee that any costs and liabilities incurred in relation to an attack or incident will be covered by our existing insurance policies or that applicable insurance will be available to us in the future on economically reasonable terms or at all.

If we fail to continuously offer innovative products and services and keep pace with changes in technology, our fees and our ability to obtain new engagements will be adversely affected and our revenues and profitability will decline.

Our business depends, in part, on our ability to anticipate industry, business and technology trends that help businesses to become more competitive and profitable. To remain competitive, we will need to continue to develop new services and products for our clients that distinguish us from our competitors. We also will need to identify new and evolving technologies that will gain acceptance in the marketplace and develop relationships with new leaders in technology as they emerge. If we fail to accomplish these objectives, we may be unable to compete effectively for new engagements, which may cause our revenues and profitability to decline. We may also invest resources in new services that are not competitive or that do not gain wide acceptance from our clients, which may cause our profitability to decline. When providing innovative services that distinguish us from our competitors, we expect to be able to obtain higher margin fees. Over time, however,

if our competitors begin to offer services which we may have developed or pioneered, we may experience decreases in the amount of fees we can charge for these services.

Risks Related to Ongoing and Future Changes to Our Reactor and Fuel Design

Our reactor and fuel designs have evolved over time and are expected to continue to change as we progress through development, regulatory review, and commercialization. The process of refining and optimizing our technology is ongoing and may result in material modifications to the design, configuration, or performance characteristics of our products. These changes may be driven by regulatory feedback, advances in technology, supply chain constraints, customer requirements, or lessons learned during prototyping, testing, and early deployment.

Any significant changes to our design may require additional engineering, testing, and regulatory review, which could result in increased costs, delays in our development timeline, or the need to repeat certain qualification or licensing activities. Design changes may also impact our ability to achieve standardization, scale manufacturing, or meet previously communicated performance, safety, or cost targets. Furthermore, customers or partners may delay purchase decisions or require renegotiation of terms in response to design changes, which could adversely affect our business prospects and financial condition.

There is also a risk that changes made to address one set of requirements may introduce new technical challenges or unforeseen issues, potentially impacting the commercial viability or regulatory acceptance of our products. If we are unable to effectively manage ongoing design changes, or if such changes result in negative perceptions among customers, regulators, or investors, our business, financial condition, and results of operations could be materially and adversely affected.

If we are unable to scale our fuel fabrication facilities, our ability to manufacture pebble fuel will be adversely affected, which could have a material adverse effect on our business prospects, financial condition, results of operations and cash flows.

The Xe-100 requires pebble fuel in order to function, the manufacturing of which is not yet at scale. We may not be able to manufacture a sufficient amount of pebble fuel in order to support our reactors. Our ability to become profitable in the future will not only depend on our ability to successfully market the Xe-100 and TRISO-X fuel, but also to ensure we have a sufficient supply of fuel pebbles to support our business. If we are unable to efficiently design, manufacture, market, sell, distribute and service our pebble fuel, our margins, profitability and prospects would be materially and adversely affected.

Our ability to introduce new features, integrations, capabilities and enhancements is dependent on adequate research and development resources.

To remain competitive, we must maintain adequate research and development resources, such as the appropriate personnel and development technology, to meet the demands of the market. If we are unable to develop features, integrations, capabilities and enhancements internally due to certain constraints, such as employee turnover, a lack of management ability or a lack of other research and development resources, our business may be harmed. Moreover, research and development projects can be technically challenging and expensive. The nature of these research and development cycles may cause us to experience delays between the time we incur expenses associated with research and development and the time we are able to offer compelling features, integrations, capabilities and enhancements and generate revenue, if any, from such investment. If we expend a significant amount of resources on research and development and our efforts do not lead to the successful introduction or competitive improvement of features, integrations, capabilities and enhancements, it could harm our business, financial condition, operating results and future prospects. In addition, our failure to maintain adequate research and development resources or to compete effectively with the research and development programs of our competitors may harm our business, financial condition, operating results and future prospects.

Operating a nuclear reactor in an unusual environment, whether due to unusual siting or an industrial application, has additional risks and costs compared to conventional electric power applications.

We expect our initial deployment of the Xe-100 under the ARDP to include industrial heat applications. This deployment is expected to be the first instance of using SMR technology for such applications. Such a

deployment will require additional overhead associated with the licensing process, configuration control of the plant, chemistry control, Tritium containment, minimum operating staff, training, security infrastructure, radiation protection, government reporting, and nuclear insurance, all of which may be cost prohibitive or require separate operating agreements to provide necessary nuclear overhead without disrupting industrial processes. While we have attempted to address such increases in our updated cost estimates, any additional costs or increased regulatory requirements may cause delays under our project timelines and costs and may have an adverse impact on our ARDP partner.

Additionally, our technologies are also designed to be able to serve customers in locations historically atypical for nuclear energy, whether due to being far away from urban infrastructure, in closer proximity to population centers, and/or areas that may experience more extreme planetary conditions. Such deployment may come with additional risks and costs, including beyond any projections we may have made, which may adversely impact our business.

Risks Related to X-energy's Proprietary and Intellectual Property Rights

We rely heavily on our intellectual property portfolio. Our ability to maintain, protect or enforce our patents and other intellectual property rights may be challenged and is not guaranteed. If we are unable to protect our intellectual property rights, our business and competitive position may be harmed.

Our success depends in part on our ability to maintain, protect and enforce our intellectual property rights, including our patents in connection with our SMRs. We rely on a combination of the intellectual property protections afforded by patent, trademarks/service mark, copyright and trade secret laws in the U.S. and other jurisdictions, as well as contractual restrictions in our agreements such as confidentiality agreements, assignment agreements, and license agreements with our employees, consultants, suppliers, and other third parties with whom we have a business relationship, to protect, establish, maintain and enforce our intellectual property rights, including rights associated with our SMRs and related proprietary technologies. However, the steps we take to protect our intellectual property and other confidential information may not adequately secure our intellectual property rights, and we may not be able to prevent the unauthorized disclosure or use of confidential information. Furthermore, if any of our employees, consultants, suppliers, or other third parties with whom we have a business relationship breaches or violates the terms of any of these agreements, we may not have adequate remedies for any such breach or violation. It is also possible that our confidential or other proprietary information could be obtained by third parties as a result of breaches of our physical or electronic security systems. Even where remedies are available, enforcing a claim that a party illegally disclosed or misappropriated our confidential or other proprietary information is expensive and time consuming, and the outcome is unpredictable. In addition, we cannot be certain that our competitors will not independently develop same or similar technology, obtain information we regard as proprietary, or design around intellectual property rights of ours.

For example, on August 13, 2024, X-energy, through counsel, notified Ultra Safe Nuclear Corporation ("Ultra Safe") of our belief that Ultra Safe could be infringing certain of our patents relating to fuel fabrication. Ultra Safe subsequently filed for bankruptcy and we have filed an objection and reservation of rights to Ultra Safe's debtors' bidding procedures and sale before the Delaware Bankruptcy Court, objecting to the potential sale of the certain assets believed by us to be infringing on our patents. While we are seeking to resolve the matter, an adverse outcome or prolonged litigation could materially impact our ability to operate or commercialize our technology.

Our success depends in large part on our ability to obtain and enforce patent protection for our SMRs. We either own or have license rights to certain intellectual property applicable to our SMRs and fuel technology, including issued patents and patent applications. However, merely holding patents or licenses to patents on our nuclear power reactors and fuel technologies is not a guarantee of protection or rights. Furthermore, we cannot be certain that our patent applications will result in patents being issued, or that our existing or future issued patents will afford protection against competitors with similar technology. During the patent prosecution process, a patent office may require us or our licensors to narrow the scope of the claims of our or our licensors' patent applications. This may limit the scope of patent protection and our or our licensors' ability to assert patent infringement if the patent is subsequently issued. In some cases, a patent may not be issued if we or our licensors are unable to overcome rejections from a patent office, which may have a material

adverse effect on our ability to prevent others from commercially exploiting products similar to ours. By pursuing patent rights by filing a patent application, we or our licensors may lose trade secrets that would have otherwise been protected had a patent not been sought, and third parties may be able to exploit such published information in our patent application. Additionally, even if we obtain a patent in one jurisdiction (e.g., the U.S.), we cannot guarantee that we will obtain a corresponding patent in another jurisdiction (e.g., China) as patent laws differ from jurisdiction to jurisdiction. Additionally, maintaining and enforcing patent rights can involve complex legal and factual questions, and may be subject to litigation in some cases. For example, third parties may challenge the validity or enforceability of our or our licensors' patents at a tribunal such as the Patent Trial and Appeal Board at the U.S. Patent and Trademark Office or in federal court. Third parties may prevail in invalidating a patent or preventing a patent application from being issued as a patent. Furthermore, issued patents or patent applications owned by third parties exist in the fields in which we have developed, are developing or will develop in the future our technology. In addition to the risk of infringing those patents, those patents may also be used as a basis to invalidate our patents or prevent our patent applications from issuing as patents.

Even if our patent applications succeed and we are issued patents, it is still uncertain whether these patents will be contested, circumvented, infringed upon, invalidated or limited in scope in the future. The rights granted under any issued patents may not provide us with meaningful protection or competitive advantages, and some foreign countries provide significantly less effective patent enforcement than in the U.S. In addition, the claims of our issued patents may not be broad enough to prevent others from developing technologies that are similar or that achieve results similar to ours. The intellectual property rights of others could also bar us from licensing and exploiting our issued patents. In addition, patents issued to us may be infringed or designed around by others and others may obtain patents that we need to license or design around, either of which would increase costs and may adversely affect our business, financial condition, operating results and future prospects.

We currently enjoy only limited geographical protection with respect to certain issued patents and may not be able to protect our intellectual property rights throughout the world.

We do not have worldwide patent rights for our SMRs and related proprietary technologies because intellectual property rights are territorial. Accordingly, we may not be able to protect our intellectual property rights in certain jurisdictions. Filing, prosecuting and defending patents on our SMRs in multiple jurisdictions can pose several challenges. First, procuring patent rights in multiple jurisdictions may be cost prohibitive because individual patent offices in different jurisdictions examine each patent application separately. Once a patent is issued, we or our licensors will also have the continued obligation of paying maintenance fees periodically to avoid patents from becoming abandoned or lapsed. Second, the breadth of claims in patents may vary from jurisdiction to jurisdiction. For instance, certain patent offices may require narrower claims, resulting in patent rights that are less extensive. Further, we may not be able to obtain patents in some jurisdictions even if we obtain patents in other jurisdictions. Accordingly, our competitors may operate in countries where we do not have patent protection and can freely use our technologies and discoveries in such countries to the extent such technologies and discoveries are publicly known or disclosed in countries where we have issued patents or patent applications.

Further, many countries have compulsory licensing laws under which a patent owner may be compelled to grant licenses to third parties. Many countries also limit the enforceability of patents against government agencies or government contractors. In these countries, the patent owner may have limited remedies, which could materially diminish the value of such patent. If we or any of our licensors are forced to grant a license to third parties with respect to any patents relevant to our business, our competitive position may be impaired, and our business and financial condition may be adversely affected.

We may be subject to intellectual property rights claims by third parties, which are extremely costly to defend, could require us to pay significant damages and could limit our ability to use certain technologies.

We cannot be certain the conduct of our business does not or will not infringe, misappropriate or otherwise violate the intellectual property rights of a third party. Third parties, including our existing and future competitors, may currently hold or obtain in the future patents, trademarks/service marks or other intellectual property rights that cover aspects of our proprietary technology or other intellectual property that

would prevent, limit or interfere with our ability to develop our intellectual property and make, use, develop, import, offer to sell or sell our SMRs and related technology, which may have a materially adverse effect on our business and financial condition. From time to time, we have received and may in the future receive communications from holders of patents or other intellectual property rights inquiring whether we are infringing their intellectual property rights, seeking court declarations that we do not infringe their intellectual property rights or requesting us to obtain a license from them. If we are determined to have infringed a third party's intellectual property rights, we may be required to do one or more of the following, among other things: (i) cease selling, incorporating or using SMRs that are found to be infringing; (ii) pay substantial damages; (iii) pay for and obtain a license from the holder of the infringed intellectual property right, which may not be available on reasonable terms or at all; or (iv) redesign part or all of our technology. In the event of a successful claim of infringement against us and our failure or inability to obtain a license to the infringed technology, our business, financial condition, operating results and future prospects could be materially adversely affected. In addition, any litigation or claims, whether or not valid, could result in substantial costs and diversion of resources and management's focus and attention.

We also license patents and other intellectual property from third parties, and we may face claims that the use of this intellectual property infringes the rights of other third parties. In such cases, we may seek indemnification from the licensors under our license contracts with those licensors, or other damages. However, our rights to indemnification or damages may be unavailable or insufficient to cover our costs and losses, depending on our use of the technology, whether we choose to retain control over conduct of the litigation, and other factors.

We review and assess third-party patents and other intellectual property rights relevant to our products and fuel fabrication processes. However, we may not identify all relevant third-party patents, or may incorrectly interpret their scope, relevance, or expiration. Any such oversight could expose us to infringement claims, require us to modify our technology, or limit our ability to develop, manufacture, or market our SMRs and related products. This could result in costly litigation, delays, or the need to obtain licenses on unfavorable terms, any of which could adversely affect our business, financial condition, and results of operations.

In addition, there are several circumstances under which a patent application may not be published and accessible to us or our licensors. For example, patent applications in the U.S. and many foreign jurisdictions are typically not published until 18 months after filing, but some patent applications in the U.S. may be maintained in secrecy until the patents are issued. Publications in the scientific literature also often lag behind actual discoveries. Therefore, we cannot be certain that others have not filed patent applications for technology covered by our issued patents or patent applications, or that we were the first to invent the technology or to file a patent application covering the technology. Our competitors may have filed, and may in the future file, patent applications covering our SMRs or technology similar to ours without us knowing. Any such patent application may have priority over our patent applications or patents, which could require us to procure rights to issued patents covering such technologies in order to avoid infringement claims.

We may be subject to claims of ownership and other rights to our patents and other intellectual property by third parties.

While we require our employees, consultants, contractors and other third parties to assign the intellectual property conceived by them to us in the event that the intellectual property is not automatically assigned (e.g., as work made for hire), those agreements may not be effective or honored, and obligations to assign intellectual property may be challenged or breached. Moreover, there may be some circumstances where we are unable to negotiate for such ownership rights, or where others misappropriate those rights.

We may be subject to claims that former or current employees, consultants, contractors or other third parties have an interest in our patents or other intellectual property. Litigation may be necessary to resolve these claims challenging inventorship and ownership. Furthermore, we may enter into agreements to clarify the scope of our rights in such intellectual property. If we fail in defending any such claims, in addition to paying monetary damages, we may lose exclusive ownership of, or the right to use or license, valuable intellectual property. Such an outcome could have a material adverse effect on our business. Even if we are successful in defending against such claims, litigation could result in substantial costs and be a distraction to management and other employees.

Risks Relating to Compliance with Law, Government Regulation and Litigation

Our business and the businesses of our customers are subject to the policies, priorities, regulations, mandates and funding levels of multiple governmental entities and may be negatively impacted by any change thereto.

We and our customers are subject to a wide variety of complex laws and regulations relating to various aspects of our business, including with respect to the use, possession and manufacturing of radioactive materials; design, manufacture, operations, marketing and export of nuclear technologies; employment and labor; tax; data security of the operational and information technology we use; the U.S. Foreign Corrupt Practices Act and other applicable anti-bribery laws; health and safety; zoning and environmental issues. All of our facilities and our customers' projects are subject to various regulations regarding matters such as human health and safety, including, among others, wastewater, stormwater, air emissions, investigation and cleanup of contaminated sites, and storage of hazardous materials, including petroleum. We must also comply with the Occupational Safety and Health Act (OSHA). Laws and regulations at the international, federal, state and local levels frequently change and are often interpreted in different ways, especially in relation to new and emerging industries, and we cannot reasonably predict the impact from, or the ultimate cost of compliance with, current or future law or regulatory or administrative changes. We cannot guarantee that our measures to monitor these developments and the time and resources we spend to comply with these laws, regulations, and guidelines will be satisfactory to regulators or other third parties, such as our customers, who are also subject to extensive government regulation. Our efforts to comply with new and changing laws and regulations may result in increased general and administrative expenses and a diversion of management time and attention. Our insurance and compliance costs may increase as a result of changes in environmental, health and safety laws and regulations or changes in enforcement. Moreover, changes in law or the interpretation of existing laws, the imposition of new or additional regulations, or the enactment of any new or more stringent legislation that impacts our business could require us to change the way we operate and could have a material adverse effect on our sales, profitability, cash flows, financial condition, and lead to regulatory delays that could impact our ability to obtain licenses, certificates, authorizations, permits, approvals, and/or certifications from regulatory agencies (collectively "Regulatory Approvals").

Failure to comply with laws, regulations or Regulatory Approvals may result in civil, criminal or administrative enforcement actions and penalties, the imposition of remedial obligations, installation of additional pollution control equipment, the issuance of orders enjoining our operations, private lawsuits, liability for property damage and personal injuries, or the suspension or revocation of those Regulatory Approvals, any of which would have a negative impact on our or our customers' business and could prevent us from operating our business. With respect to our TX-1, we require regulatory approval from the NRC to construct and operate the facility under a nuclear materials license, in addition to local and state permitting requirements. While we have already obtained NRC approval, we must comply with the requirements to maintain this approval and may need to extend the license in the future. Any of these Regulatory Approvals may be subject to denial, revocation or modification under various circumstances, including:

- failure to provide adequate financial assurance for closure;
- failure to comply with environmental, health and safety laws and regulations or permit conditions;
- local community, political or other opposition;
- executive action; and
- legislative action.

Failure on our or our customers' part to comply with these laws and regulations, obtain the required Regulatory Approvals, or receive exemptions from such regulations when available could result in fines, penalties, or the inability to operate our business. Any delays in regulatory actions allowing us to manufacture our TRISO-X fuel could also adversely affect our ability to meet fuel contract requirements and thereby affect our financial performance.

Our SMRs are subject to regulations in all jurisdictions related to nuclear safety, environmental, health and safety and financial qualification. Regulatory Approvals, such as construction permits and operating licenses issued by the NRC, are necessary for our customers to construct and operate our SMRs. Our plans to deploy SMRs rely on timely receipt of such Regulatory Approvals in the jurisdictions in which we seek to do

business. Such regulatory approval processes may be subject to change, can be technically challenging to address, may result in the imposition of conditions that impact the financial viability of our SMR products, and may also provide opportunities for third parties to lodge objections or seek more stringent requirements for our products that, in each case, could hinder or prevent developments of our or our customer's projects.

Over the past several years, Congress has enacted laws that aim to put nuclear energy on a level playing field with respect to government incentives, tax credits, and other financial instruments to make nuclear energy more economically competitive with other energy sources. These incentives have been signed into law through the Infrastructure Investment and Jobs Act (IIJA) and the OBBBA. The benefits of these government financial tools are incorporated into our business model and that of our customers. The benefit from these subsidies are subject to cancellations and sunsets or changes to sunset provisions by both Congress and the current administration. The impact of changes to these financial benefits could materially impact the demand for our products.

The reduction or elimination of Section 48C, the Qualifying Advanced Energy Project Credit under the Inflation Reduction Act of 2022 ("48C"), investment tax credits ("48E") and production tax credits ("45Y") received through the U.S. government and Clean Technology Investment Tax Credits ("CT ITCs") received through the Canadian government related to clean energy solutions could adversely affect our business and reduce the demand for our Xe-100 and other technologies.

Our business model and financial performance are significantly dependent on the availability of 48C, 48E, CT ITCs and 45Y. The reduction, denial, delay, recapture, or adverse modification of federal, state, or local tax incentives for clean energy — including 48C, 48E, 45Y, and CT ITCs — could adversely affect our business and reduce demand for our Xe-100 and other technologies. Our business model and the economics of customer projects, supplier expansions, and financing structures are significantly dependent on the availability, amount, timing, and monetization of these incentives.

Many of our counterparties rely on the receipt and monetization of 48C, 48E, CT ITCs or 45Y to finance or price projects involving our technologies. If these parties do not receive, cannot monetize, or later lose expected credits — due to changes in law, allocation caps, eligibility requirements, compliance failures, or market conditions — they may delay, renegotiate, or terminate contracts, reduce order sizes, or default on obligations to us. In addition, changes in transferability, direct pay rules, or market liquidity for these credits could further diminish project returns and impair demand.

Any reduction or unavailability of these incentives, or counterparties' inability to obtain or monetize them as anticipated, would likely reduce the demand for the Xe-100, SMRs and nuclear energy solutions in general, which would have a material, adverse impact on our business, financial condition, operating results and future prospects.

The U.S. government's budget deficit and the national debt, as well as any inability of the U.S. government to complete its budget or appropriations process for any government fiscal year could have an adverse impact on our business, financial condition, results of operations and cash flows.

The U.S. government's budget deficit and the national debt, along with any negotiated resolution to increase or suspend the so-called debt ceiling, as well as any inability of the U.S. government to complete its budget process for any government fiscal year and consequently having to shut down or operate on funding levels equivalent to its prior fiscal year pursuant to a "continuing resolution," could have an adverse impact on our business, financial condition, results of operations and cash flows.

Uncertainty will continue to exist regarding how future budget and program decisions will unfold, including the energy spending priorities of the U.S. government, what challenges budget reductions will present for the energy industry and whether annual appropriations bills for all agencies will be enacted for U.S. government fiscal 2026 and thereafter. Some of the changes in the political environment, include a change to the leadership within the current administration, and any resulting uncertainty or changes in policy or priorities and resultant funding. There can be no assurance that increases in funding we may currently experience will continue, and any plateau or reduction in funding for our programs could adversely affect our ability to execute our strategy, meet milestones, and achieve projected financial results. The U.S. government's

budget deficit and the national debt could have an adverse impact on our business, financial condition, results of operations and cash flows in a number of ways, including the following:

- the U.S. government could reduce or delay its spending on, reprioritize its spending away from, or decline to provide funding for the government programs in which we participate, or fail to increase funding as anticipated;
- U.S. government spending could be impacted by arrangements similar in effect to sequestration, which increases the uncertainty as to U.S. government spending priorities and levels; and
- we may experience declines in revenue, profitability and cash flows as a result of reduced or delayed orders or payments or other factors caused by economic difficulties of our customers and prospective customers, including U.S. federal, state and local governments.

Other contributing factors that could impact the company's financial situation are rising interest rates as more U.S. government spending must be appropriated to servicing the national debt or the potential impact of tariffs on our supply chain as we begin to long lead procurements on certain materials and systems. Budget and program decisions made in this environment would have long-term implications for us and the entire nuclear energy industry.

We are required to comply with numerous laws and regulations, some of which are highly complex, and our failure to comply could result in fines or civil or criminal penalties or suspension or debarment by the U.S. government that could result in our inability to continue to work on or receive U.S. government contracts, which could materially and adversely affect our results of operations.

We must comply with laws and regulations relating to the formation, administration, and performance of U.S. government contracts, which affect how we do business. Such laws and regulations may potentially impose added costs on our business and our failure to comply with those laws and regulations may lead to civil or criminal penalties, including termination of our U.S. government contracts, including the ARDP Agreement, and/or suspension or debarment from contracting with federal agencies. Some significant laws and regulations that affect us include:

- the Federal Acquisition Regulation (the "FAR"), and agency regulations supplemental to the FAR, which regulate the formation, administration, and performance of U.S. government contracts. For example, the FAR 52.203-13 requires contractors to establish a Code of Business Ethics and Conduct, implement a comprehensive internal control system, and report to the government when there is credible evidence that a principal, employee, agent, or subcontractor, in connection with a government contract, has violated certain federal criminal laws, violated the civil False Claims Act, or has received a significant overpayment;
- the False Claims Act, which imposes civil and criminal liability for violations, including substantial monetary penalties, for, among other things, presenting false or fraudulent claims for payments or approval;
- the False Statements Act, which imposes civil and criminal liability for making false statements to the U.S. government;
- the Truthful Cost or Pricing Data Statute (formerly known as the Truth in Negotiations Act), which requires certification and disclosure of cost and pricing data in connection with the negotiation of certain contracts, modifications, or task orders;
- the Procurement Integrity Act, which regulates access to competitor bid and proposal information and certain internal government procurement sensitive information, and our ability to provide compensation to certain former government procurement officials;
- laws and regulations restricting the ability of a contractor to provide gifts or gratuities to employees of the U.S. government;
- post-government employment laws and regulations, which restrict the ability of a contractor to recruit and hire current employees of the U.S. government and deploy former employees of the U.S. government;

- laws, regulations, and executive orders restricting the handling, use and dissemination of information classified for national security purposes or determined to be “controlled unclassified information” or “for official use only” and the export of certain products, services, and technical data, including requirements regarding any applicable licensing of our employees involved in such work;
- laws, regulations, and executive orders regulating the handling, use, and dissemination of personally identifiable information in the course of performing a U.S. government contract;
- international trade compliance laws, regulations and executive orders that prohibit business with certain sanctioned entities and require authorization for certain exports or imports in order to protect national security and global stability;
- laws, regulations, and executive orders governing organizational conflicts of interest that may restrict our ability to compete for certain U.S. government contracts because of the work that we currently perform for the U.S. government or may require that we take measures such as firewalling off certain employees or restricting their future work activities due to the current work that they perform under a U.S. government contract;
- laws, regulations and executive orders that impose requirements on us to ensure compliance with requirements and protect the government from risks related to our supply chain;
- laws, regulations and mandatory contract provisions providing protections to employees or subcontractors seeking to report alleged fraud, waste, and abuse related to a government contract; and
- the FAR Cost Accounting Standards and Cost Principles, which impose accounting and allowability requirements that govern our right to reimbursement under certain cost-based U.S. government contracts and require consistency of accounting practices over time.

In addition, the U.S. government adopts new laws, rules, and regulations from time to time that could have a material impact on our results of operations. Adverse developments in legal or regulatory proceedings on matters relating to, among other things, cost accounting practices and compliance, contract interpretations and statute of limitations, could also result in materially adverse judgments, settlements, withheld payments, penalties, or other unfavorable outcomes.

Our performance under our U.S. government contracts and our compliance with the terms of those contracts and applicable laws and regulations are subject to periodic audit, review, and investigation by various agencies of the U.S. government, and the current environment has led to increased regulatory scrutiny and sanctions for non-compliance by such agencies generally. In addition, from time to time we may report potential or actual violations of applicable laws and regulations to the relevant governmental authority. Any such report of a potential or actual violation of applicable laws or regulations could lead to an audit, review, or investigation by the relevant agencies of the U.S. government. If such an audit, review, or investigation uncovers a violation of a law or regulation, or improper or illegal activities relating to our U.S. government contracts, we may be subject to civil or criminal penalties or administrative sanctions, including the termination of contracts, forfeiture of profits, the triggering of price reduction clauses, withholding or suspension of payments, fines and suspension, or debarment from contracting with U.S. government agencies. Such penalties and sanctions are not uncommon in the industry, and there is inherent uncertainty as to the outcome of any particular audit, review, or investigation. If we incur a material penalty or administrative sanction or otherwise suffer harm to our reputation, our profitability, cash position, and future prospects could be materially and adversely affected.

Further, if the U.S. government were to initiate suspension or debarment proceedings against us or if we are indicted for or convicted of illegal activities relating to our U.S. government contracts following an audit, review, or investigation, we may lose our ability to be awarded contracts in the future or receive renewals of existing contracts for a period of time which could materially and adversely affect our results of operations or financial condition. We could also suffer harm to our reputation if allegations of impropriety were made against us, which would impair our ability to win awards of contracts in the future or receive renewals of existing contracts.

Uncertain global macro-economic and political conditions could materially adversely affect our results of operations and financial condition.

Our results of operations are materially affected by economic and political conditions in the U.S. and internationally, including inflation, deflation, interest rates, availability of capital, energy and commodity prices, trade laws and the effects of governmental initiatives to manage economic conditions. Current or potential customers may delay or decrease spending on our products and services as their business and budgets are impacted by economic conditions. The inability of current and potential customers to pay us for our products and services may adversely affect our earnings and cash flows.

We are subject to stringent U.S. export and import control laws and regulations. Unfavorable changes in these laws and regulations or U.S. government licensing policies, our failure to secure timely U.S. government authorizations under these laws and regulations, or our failure to comply with these laws and regulations could have a material adverse effect on our business, financial condition, and results of operations.

The inability to secure and maintain required export licenses or authorizations could negatively impact our ability to compete successfully or market our SMR technology and TRISO-X fuel for commercial applications outside the U.S. For example, if we were unable to obtain or maintain our licenses to export certain nuclear hardware, software, source code, or technical assistance, we would be effectively prohibited from exporting our SMR and TRISO-X fuel technology to non-U.S. locations, limiting our customer base to the U.S. and providing a competitive advantage to international SMR suppliers. In such cases, these restrictions could also require us to implement design changes to our SMRs to address issues with our domestic supply chain, which may increase costs or result in delays in delivery of new plants and subsequent additional SMRs when ordered. Certain key components of our SMRs are currently manufactured outside the U.S., and the imposition of sanctions, tariffs, or material changes in import and export requirements on a nation-by-nation basis, on materials or supplied components for our SMRs could have a material adverse effect on our operations. Additionally, we may require U.S. approvals in order to import certain materials and components that may be predominantly produced outside of the United States. Failure to comply with import and export requirements and regulations could expose us to civil or criminal penalties, fines, investigations, more onerous compliance requirements, loss of export privileges, debarment from government contracts or limitations on our ability to enter into contracts with the U.S. government. Any changes in export control regulations or U.S. government licensing policy, such as that necessary to implement U.S. government commitments to multilateral control regimes, may restrict our operations. Any delays, conditions or unexpected requirements may increase costs for us or our customers and may result in uncertainty regarding the ability to deploy our technology in a predictable way, which may adversely impact our competitiveness.

We are part of the highly regulated nuclear power industry. Our fuel designs differ from fuels currently licensed and used by commercial nuclear power plants, and our SMR designs similarly differ from reactors currently in operation, including with respect to potential industrial applications. As a result, the regulatory licensing and approval process for our nuclear power plants and for others that operate with our nuclear fuels will be first-of-a-kind and therefore may experience delays and increased costs as part of the regulatory review process or additional fuel testing and/or fuel design modifications and costs to accommodate for actual fuel performance after fuel irradiation testing and post irradiation examination evaluations. Industry acceptance of our nuclear fuels may also be hindered. Additionally, there is no guarantee that our fuel will ultimately receive regulatory approval, and regulators could determine that our fuel does not meet applicable safety, performance, or environmental standards, which could prevent us from commercializing our fuel products.

All entities that operate nuclear power facilities, fabricate nuclear fuel, or transport nuclear materials in the U.S. are subject to the jurisdiction of the NRC (except for those facilities and applications separately regulated by the DOE or the U.S. Department of Defense (the “DOD”)), and entities performing the same activities in other countries are subject to regulation by the NRC’s counterparts around the world. Our SMR designs also differ significantly from the reactors used today by commercial nuclear power facilities. These differences may result in a more extensive and prolonged review by the NRC and its counterparts around the world, potentially causing delays in fuel and reactor development program and in commercialization.

TRISO-X fuel cannot be used in existing nuclear reactors, and no currently available commercial fuel will work in our SMRs. Our fuel development timeline depends on the relevant nuclear regulator accepting and

approving technical information and documentation that is generated during the fuel qualification program, including ongoing fuel irradiation testing at the Idaho National Lab test facility. There is a risk that the TRISO-X fuel may not perform as well as expected during the fuel qualification program or that regulators may require additional information regarding the fuel's behavior or performance, either of which could result in unplanned analytical or experimental work, less efficient fuel, or possible fuel design changes, potentially leading to schedule delays, increased research and development costs, increased reactor operating, maintenance and fuel expenses, and increased fuel fabrication costs. There is no guarantee that our fuel will ultimately receive regulatory approval, and regulators could determine that our fuel does not meet applicable safety, performance, or environmental standards, which could prevent us from commercializing our fuel products. If we are unable to obtain the necessary regulatory approvals for our fuel or reactor designs, or if such approvals are significantly delayed, our ability to generate revenue from our core products and our business prospects could be adversely impacted. Similarly, our reactor development timeline depends on the relevant nuclear regulator accepting and approving technical information and documentation about our reactor designs in the course of any design-specific licensing, certification, approval or similar process, or facility-specific licensing. There is a risk that regulators may require additional information regarding the reactor's behavior or performance that could cause delays and additional costs. With respect to both fuel performance and reactor design, the regulators may impose operational restrictions, such as lower fuel burnup limits, reactor power levels, or more frequent maintenance and testing of components, which could adversely affect the commercial viability of our products.

We must obtain governmental licenses to possess and use radioactive materials, including isotopes of uranium, in our TX-1 operations. Failure to obtain or maintain, or delays in renewing, such licenses could impact our ability to fabricate TRISO-X fuel for our customers, who will initially be reliant on us for TRISO-X fuel, and have a material adverse effect on our business, financial condition and results of operation.

In February 2026, TRISO-X received an initial 40-year Special Nuclear Material License under 10 CFR Part 70 from the NRC enabling TRISO-X to commercially manufacture X-energy's TRISO-X fuel at TX-1, a facility intended to manufacture the fuel for our reactor designs and for other advanced reactor designs that utilize coated particle fuel. We expect this license to also cover our TX-2 facility if built as currently planned on the same site. Failure to maintain compliance with the NRC license during construction and operation of TX-1 or to appropriately extend such license could interfere with or prevent provision of our TRISO-X fuel to initial and subsequent Xe-100 reactors, inhibit interest in our reactors by future customers, impair our ability to produce and market other coated particle fuels, or impact our ability to begin plans for TX-2, our second facility. We also face the risk that the NRC could impose conditions in future extensions of the license that are not acceptable to us, which could materially and adversely affect our business and the commercial viability of our nuclear fuel products.

Given the nature and length of the permitting process, significant turnover and organizational changes within the NRC's workforce, including at the Commission, project management, and technical staff levels could cause a reduced and transitioning workforce and could lengthen review timelines for any future extensions of the license — particularly in light of the increasing number of applications being submitted to the NRC by other companies. The combination of staffing adjustments and a heavier workload may result in delays in the review and approval of any future license extension applications, which would negatively impact our business and ability to develop our and our customers' projects.

The operations of our planned TX-1 facility in Tennessee, and any future fuel fabrication facilities, will be highly regulated by U.S. federal and state level governmental authorities, including the NRC as well as the State of Tennessee and any other state jurisdictions in which we may establish operations. Our operations could be significantly impacted by changes in government policies and priorities.

The NRC has the authority to issue notices of violation for violations of the Atomic Energy Act of 1954, as amended (the "Atomic Energy Act"), NRC's regulations and conditions of licenses, certificates of compliance, and orders. The NRC has authority to impose civil penalties (the maximum amount of which is adjusted annually to account for inflation) or additional requirements and to order cessation of operations for violations of these requirements. Penalties under the NRC regulations and applicable agency guidelines could include substantial fines, imposition of additional requirements, or withdrawal or suspension of licenses or certificates. Any penalties imposed on us could adversely affect our results of operations and liquidity. The

NRC also has the authority to issue new regulatory requirements or to change existing requirements. Changes to the regulatory requirements also could adversely affect our results of operations and financial condition.

Our TX-1 in Oak Ridge, Tennessee will also be regulated by the State of Tennessee pursuant to Atomic Energy Act authority transferred under the NRC's Agreement State Program and applicable state laws and regulations. Any future fuel fabrication facilities will be highly regulated in the location in which they are located.

Additionally, certain aspects of our current fuels R&D activity take place within DOE's Oak Ridge National Laboratory (separate and apart from our TX-1 within the City of Oak Ridge). These activities are subject to DOE regulation and contractual requirements. Changes to those requirements could also materially affect our operations.

Changes in federal, state or local government laws, regulations, policies and priorities can impact our nuclear fuel operations. These could include changes in interpretations of regulatory requirements, increased inspection or enforcement activities, changes in budgetary priorities, changes in tax laws and regulations and other government actions or inaction. Any of these local, state and federal agencies may have the authority to impose civil and criminal penalties and our designs, facilities and projects must be approved by various regulatory bodies and to date, have not been approved. The public has the ability to intervene in licensing proceedings before the NRC for a fuel fabrication facility or a reactor.

The Xe-100 design has not yet been approved or licensed for use at any site by the NRC or any other national regulatory body, and approval or licensing of these designs is not guaranteed. Under the Atomic Energy Act and the implementing NRC regulations, members of the public, including state, local or tribal governments, have the right to request a public hearing or file a petition to intervene in connection with the NRC's review of a license or permit application. Such requests may oppose the issuance of a license or permit in whole, or challenge specific aspects of the application or the NRC's review. These proceedings can be complex and time-consuming, requiring the devotion of significant management attention and incur substantial legal and technical expenses to prepare responses, participate in hearings and address intervenor contentions. These proceedings may also delay or prevent the issuance of required Regulatory Approvals for any of our or our customer's projects, including TX-1 or a customer's Xe-100. The outcome of such proceedings is inherently uncertain and could result in the imposition of additional licensing conditions, or, in some cases, the denial of a Regulatory Approval. Any such delays or adverse outcomes could materially affect the timing, cost and feasibility of the projects and operations. Additionally, these hearing processes may also have adverse impacts on the local population's perception of the safety of our facilities adversely impacting their timely deployment and efficient operations.

For example, as of August 12, 2025, one such public entity has filed a petition to intervene and request a hearing in connection with the pending application for a construction permit for one of our customer's projects which will utilize our SMR technology under NRC Docket No. 50-614-CP. The petition challenges certain safety and environmental findings contained in the construction permit application. As of January 22, 2026, the NRC's Atomic Safety and Licensing Board granted Waterkeeper's intervention, admitted for litigation two contentions concerning financial qualifications, and rejected the remaining contentions. As of the date of this prospectus, the adjudicatory proceeding is ongoing. The Board also directed the parties to proceed with mandatory disclosures and scheduling, and indicated the proceeding will be conducted under 10 C.F.R. Part 2, Subparts C and L, which may extend timelines and increase costs. In addition, the NRC has received admissible contentions from Waterkeepers, an advocacy group, related to their opposition of our fuel fabrication facility plans. Should such a petition result in delay or denial of regulatory approvals, our business would be materially adversely impacted. We are also subject to Canadian regulatory approval processes for a portion of our business seeking approval in Canada. We must work through material parts of the Canadian review processes and engage with the NRC to address technical, policy, and programmatic matters ahead of formal application reviews for new projects.

To date, the Xe-100 has not yet been licensed, certified or approved by the U.S. NRC, U.K. Office for Nuclear Regulation ("ONR") or the Canadian Nuclear Safety Commission ("CNSC"), and no currently operating NRC or CNSC-regulated reactor uses high temperature gas-cooled reactor technology or our TRISO-X fuel.

If the NRC, ONR or CNSC disagrees with our, or our customers', licensing approach or the technical bases supporting the nuclear safety and environmental impact evaluations, the construction and operating license application processes could take longer than currently expected, or a license may not be granted at all, which would materially and adversely affect our business. Further, the NRC or CNSC could impose conditions in a license that are not favorable or acceptable to us or our customers, which could materially and adversely affect our business. Any delays, conditions or unexpected requirements may increase costs for us or our customers and may result in uncertainty regarding the ability to deploy our technology in a predictable way, which may adversely impact our competitiveness.

Since taking office in January 2025, President Trump has announced, revised, paused, and enacted various executive orders and tariffs which could have wide-reaching economic and regulatory impact, including but not limited to causing the NRC to change its regulatory standards and thresholds. Any unexpected changes to the NRC's requirements may result in substantial delay or increased costs for us or our customers, which may adversely impact our competitiveness.

Even if the Xe-100 is licensed in the U.S., U.K. and Canada, we must still obtain approvals on a country-by-country basis to deploy this reactor technology, which approvals may be delayed or denied or which may require modification to our design.

Even if the Xe-100 is licensed, certified and/or approved in the U.S., U.K. and Canada, if we are to deploy our technology in other countries, we must first obtain regulatory approvals for our technology in those countries. The regulatory framework to obtain approvals is complex, varies from country to country, and may involve authorities on a subnational or local level. Timelines are likely to be longer for initial deployments of our technology in any jurisdiction, as regulatory agencies may not be familiar with our technology and how it differs from the technology used in legacy nuclear power facilities. Moreover, other countries' approval processes may differ markedly from the NRC process or the CNSC process, or they may require that we alter aspects of our design before providing approval. Design modifications to meet country-specific requirements could adversely impact our ability to achieve standardization and therefore increase design, construction, and/or operational costs. Denial or delay in approvals abroad could materially and adversely affect our business outside of the U.S. and Canada.

Our operations involve the use, transportation and disposal of toxic, hazardous and/or radioactive materials and could result in liability without regard to fault or negligence.

Our operations involve the use, transportation, and disposal of toxic, hazardous and radioactive materials. A release of these materials could pose a health risk to humans, plants and animals or the environment. If an accident were to occur, its severity would depend on the volume and location of the release and the speed of corrective action taken by emergency response personnel, as well as other factors beyond our control, such as weather and wind conditions.

Under federal, state and local laws and regulations, a current or former owner or operator of real property may be liable for costs to remediate contamination resulting from the presence or release of hazardous substances, wastes or petroleum products. These laws and regulations continue to evolve and have generally become more stringent over time. The costs associated with remediating contamination could be substantial, and liability under such laws is strict, joint and several and may attach whether or not the owner or operator knew of or caused such contamination. Moreover, the presence of contamination may expose us to third-party claims for property damage or bodily injury, subject our properties to liens in favor of the government for damages and cleanup costs, impose restrictions on the manner in which we use our properties, and materially adversely affect our ability to sell, lease, insure or develop our properties. We also may be liable for costs of remediating third-party disposal sites to which we arranged for the disposal or treatment of hazardous substances without regard to whether such disposal occurred in compliance with environmental laws. These matters could have an adverse effect on our financial condition.

Additionally, we may be responsible for decontamination or decommissioning of facilities where we conduct, or previously conducted, operations. Activities of our contractors, suppliers or other counterparties similarly may involve toxic, hazardous, and radioactive materials, and we may be liable contractually, or under applicable law, to contribute to remedy damages or other costs arising from such activities, including the decontamination or decommission of third-party facilities.

In the U.S., the nuclear liability law codified at 42 U.S.C. 2210 (along with subsequent amendments, the “Price Anderson Act”) and applicable NRC regulations and corresponding insurance requirements channel liability to the nuclear operator of a nuclear power plant for third-party offsite damages caused by a nuclear incident or a precautionary evacuation due to a possible or actual nuclear incident. U.S. law is substantially similar in effect to global nuclear liability regimes wherein operators are subject to robust liability channeling and financial protection regimes, such as required insurance policies or government indemnification, to cover the operator’s financial risk in the event of a nuclear incident that gives rise to third-party offsite liability. If, however, an incident or precautionary evacuation is not covered under such a nuclear liability limiting regulatory framework we could be financially liable for damages arising from such incident or evacuation, which could have an adverse effect on our results of operations and financial condition.

The Price Anderson Act does not, however, cover onsite loss or damage to property due to a nuclear incident. Rather, the NRC, like many nuclear regulators around the world, requires nuclear operators to maintain onsite property damage insurance for loss or damage to property due to a nuclear incident. If an incident resulting in onsite property damage is not otherwise covered by the mandatory insurance policy maintained at the facility or the damages exceed policy coverage limits, then we could be potentially liable for damages arising from such incident, which could have an adverse effect on our results of operations and financial condition. We cannot provide assurance that any insurance we obtain will be adequate to cover our losses or liabilities or that such coverage will continue to be available, or available on acceptable terms or at acceptable rates.

There is no assurance that our contractual limitations on liability will be effective in all cases or in all jurisdictions. The costs of defending against a claim arising out of a nuclear incident or precautionary evacuation not otherwise covered by insurance, and any damages awarded as a result of such claim, could adversely affect our results of operations and financial condition.

Unresolved spent nuclear fuel storage and disposal issues and associated costs could have a significant negative impact on X-energy’s business operations if potential Xe-100 customers view the risks associated with these issues and costs as unacceptably high. Additionally, U.S. policy related to storage and disposal of used fuel from our power plant and/or negative customer perception of risks relating to these policies could have a significant negative impact on our business prospects, financial condition, results of operations and cash flows.

During the licensing process, a nuclear power plant operator must indicate how it will decommission its power plant and must have a “standard agreement” with the DOE related to the storage of the fuel waste created during its operating life. Therefore, the requirement for our customers’ facilities to establish the disposal of fuel may create challenges related to timeline and optimal use of our TRISO-X fuel. The Nuclear Waste Policy Act (“NWP”) of 1982 requires the DOE to take title to, and to provide for the permanent geologic disposal of, spent nuclear fuel (“SNF”) and associated high-level nuclear radioactive waste (“HLW”) generated by domestic nuclear reactors. In 1987, Congress amended the NWP to designate Yucca Mountain, in Nevada, as the only site that the DOE could consider for a permanent repository. The DOE has suspended the Yucca Mountain licensing process due to lack of congressional appropriations, but the site remains designated in federal law. Under the NWP and the Standard Contracts DOE has entered into with nuclear utilities, DOE remains obligated to provide for permanent disposal of all SNF and HLW. Interim storage of SNF and HLW is authorized under the NWP and NRC regulations and requires the construction and maintenance of NRC licensed SNF/HLW storage facilities. While the costs of developing and maintaining these interim storage facilities can have a significant effect on the costs associated with waste storage and disposal for nuclear reactors, including X-energy’s reactors, these costs could themselves be impacted by the timing of the opening of a disposal facility, as well as any possible future changes to the interim storage or transportation requirements for SNF and other forms of HLW, and the extent to which operators are able to continue to successfully recover costs from DOE through breach-of-contract litigation for its continued failure to provide for permanent disposal.

There are currently two consolidated interim storage (“CIS”) facilities under development in the U.S. for the interim storage of SNF/HLW. Both facilities — Holtec International’s HI-STORE CIS in New Mexico and Interim Storage Partners’ facility in Texas — have been issued licenses by the NRC for construction and operation. These licenses were challenged in federal court, and in June 2025, the U.S. Supreme Court upheld the NRC’s authority to issue the licenses; however, further engagement with the states and DOE is necessary

to construct the projects. It is possible that SNF/HLW generated at an X-energy reactor could be stored at one of these CIS facilities; however, it is also possible that these CIS facilities are never built or become operational, or are unable to store such waste from an X-energy reactor, in which case, the waste would need to be stored onsite or at another interim SNF storage facility until another disposal option became available, such as a U.S. government-determined permanent national repository or other government storage facility.

The establishment of a national repository for the storage and/or permanent disposal of SNF, such as the one previously considered at Yucca Mountain, Nevada, the timing of such a facility's opening and the ability of such a facility to accept waste from an X-energy reactor, and any related regulatory action, could impact the costs associated with our Xe-100 customers' storage and/or disposal of SNF/HLW. Likewise, the establishment of a CIS for the storage of SNF/HLW, the timing of such a facility's opening and being able to accept waste from an X-energy reactor, and any related regulatory action, could impact our customers' costs associated with storage of SNF/HLW. These waste storage issues, and changes to the current waste disposal practices or changes to reactor operators' ability to recover storage costs from DOE through litigation, could be material to X-energy's operations if potential customers view waste disposal as problematic, detrimental or a negative factor when considering an investment in an X-energy reactor.

Our SMRs may not qualify as low-emissions or emissions-free pursuant to regulatory or incentive frameworks that consider emissions on a lifecycle basis or that otherwise account for fuel cycle emissions or energy consumption.

While our SMRs directly generate virtually no air emissions, including greenhouse gas emissions, during operations, our SMRs may nonetheless not qualify as providers of emissions-free, carbon-free, low-carbon or similar generating resources under emissions-limitation schemes that assess emissions on a lifecycle basis or that otherwise consider emissions from energy consumed in our fuel cycle because of the use of carbon in our TRISO-X fuel production and because our TRISO-X fuel and its feedstocks require substantial amounts of energy to produce. Our fuel fabrication facilities and our suppliers' facilities may rely on the local electric grid and its mix of generating sources for electricity or may rely on contracted supply that does not provide a choice among electric generation sources. We cannot control the generation and electricity purchasing decisions of local electric utilities and their suppliers or of electric suppliers to our third-party partners. Certain regimes, such as various sustainability "taxonomies," may also consider eligibility based on a wider array of environmental objectives, which we cannot guarantee we or our customers will be able to meet. The failure of our SMRs to qualify for inclusion in emissions reduction or climate change related emissions control schemes, or emissions-based incentive programs may result in higher costs or lower revenues for us or our customers, as well as eligibility for financing from capital providers focused on certain sustainability criteria, and may adversely impact the demand for our products from our customers, which could materially and adversely affect our business, financial condition, operating results and future prospects.

Changes in effective tax rates or adverse outcomes resulting from examination of our income or other tax returns could adversely affect our results of operations and financial condition.

We are subject to taxation by U.S. federal, state, and local tax authorities. Our future effective tax rates could be subject to volatility or adversely affected by a number of factors, including:

- allocation of expenses to and among different jurisdictions;
- changes to our assessment about our ability to realize, or in the valuation of, our deferred tax assets that are based on estimates of our future results, the prudence and feasibility of possible tax planning strategies, and the economic and political environments in which we do business;
- expected timing and amount of the release of any tax valuation allowances;
- tax effects of stock-based compensation;
- costs related to intercompany restructurings;
- changes in tax laws, regulations, or interpretations thereof;
- the outcome of current and future tax audits, examinations, or administrative appeals;

- lower than anticipated future earnings in jurisdictions where we have lower statutory tax rates and higher than anticipated future earnings in jurisdictions where we have higher statutory tax rates; and
- limitations or adverse findings regarding our ability to do business in some jurisdictions.

Any changes in U.S. taxation may increase our effective tax rate and harm our business, financial condition, and results of operations. In particular, new income or other tax laws or regulations could be enacted at any time, which could adversely affect our business operations and financial performance. Further, existing tax laws and regulations could be interpreted, modified, or applied adversely to us.

The unavailability, reduction or elimination of government and economic incentives and credits could have a material adverse effect on our business, prospects, financial condition, results of operations, and cash flows.

Any unavailability, reduction, or elimination of government and economic incentives and credits because of policy changes, or the reduced need for such incentives and credits due to the perceived success of nuclear energy or other reasons, may result in the diminished competitiveness of the alternative fuel and nuclear energy industry generally or our reactors, software and services in particular. Any of the foregoing could materially and adversely affect the growth of the alternative fuel automobile markets and our business, prospects, financial condition, results of operations, and cash flows.

While certain tax credits and other incentives for alternative energy production, alternative fuel, and nuclear energy have been available in the past, there is no guarantee these programs will be available in the future. Some of these tax credits and incentives require interpretations from government bodies and any changes could impact the applicability of these tax credits and incentives. Incentives provided by federal or state authorities may have predetermined expiration dates, may conclude once allocated funds are depleted, or could be reduced or discontinued due to changes in regulatory or legislative priorities. Consequently, the availability of tax credits or other government incentives and our ability and that of our customers and competitors to benefit from these credits and incentives remain uncertain at this time.

We may become involved in litigation that may materially adversely affect us.

From time to time, we may become involved in various legal proceedings relating to matters incidental to the ordinary course of our business, including intellectual property, commercial, product liability, employment, class action, whistleblower, personal injury, property damage, and other litigation and claims, and governmental and other regulatory investigations and proceedings. Such matters can be time-consuming, divert management's attention and resources from the operation of our business and cause us to incur significant expenses or liability or require us to change our business practices. Because of the potential risks, expenses and uncertainties of litigation, from time to time, we may settle disputes, even where we believe that we have meritorious claims or defenses. Because litigation is inherently unpredictable, we cannot assure you that the results of any of these actions will not have a material adverse effect on our business.

Some of our customers' projects will be regulated by U.S. federal energy regulators and may be materially adversely affected by changes in law, policy or regulation, or a failure to comply with laws or regulations.

Some of our customers' projects in the U.S. will be subject to regulation at the federal level, by the Federal Energy Regulatory Commission ("FERC"). Under the Federal Power Act, FERC regulates the sale of electric energy at wholesale in interstate commerce and the transmission of electric energy in interstate commerce. FERC rate regulation will subject projects making wholesale sales of energy to a suite of regulations as well as certain risks, including the possibility that FERC may revoke or otherwise restrict their authorizations to make sales if FERC determines that such a company and its affiliates can exercise horizontal or vertical market power, create barriers to entry or engage in abusive affiliate transactions or market manipulation. Public utilities and their holding companies are subject to FERC reporting requirements that impose administrative burdens and that can expose a public utility to criminal and civil penalties for failure to comply with such requirements. Our projects will also likely be subject to certain reliability standards overseen by the North American Electric Reliability Corporation ("NERC"). Failure to comply with NERC reliability standards could lead to sanctions, including substantial monetary penalties.

Some of our customers' U.S. projects will be located within organized bulk power markets administered by electric grid operators and some of our U.S. project companies will sell power in, and participate in, those

markets. These electric grid operators each have their own rules set forth in FERC-approved tariffs and related documents that govern the functioning of the wholesale electricity markets they oversee, as well as interconnection to the transmission system. These electric grid operators, which operate like quasi-regulatory bodies, can impose new rules or adopt new interpretations thereof that can have a material adverse effect on our business. Electric grid operators market rules regularly change over time, and such changes may materially adversely affect our project companies' ability to sell energy, capacity, and ancillary services at a beneficial price and materially adversely affect our business.

A failure to comply with U.S. energy laws or FERC, NERC or electric grid operator rules and regulations could have a material adverse effect on our customers, which could in turn have a material adverse effect on our business, including any existing or future financing arrangements.

Any actual or perceived failure to comply with new or existing laws, regulations and other requirements relating to the privacy, security and processing of Personal Information could adversely affect our business, results of operations, or financial condition.

In connection with running our business, we receive, store, use and otherwise process information that relates to individuals and/or constitutes "personal data," "personal information," "personally identifiable information," or similar terms under applicable data privacy laws (collectively, "Personal Information"), including from and about actual and prospective customers, as well as our employees and business contacts. We therefore may be subject to laws, regulations and other requirements relating to the privacy, security and handling of Personal Information.

The application and interpretation of such laws, regulations, and other requirements are constantly evolving and are subject to change, creating a complex compliance environment. In some cases, these requirements may be either unclear in their interpretation and application or they may have inconsistent or conflicting requirements with each other. Further, there has been a substantial increase in legislative activity and regulatory focus on data privacy and security in the U.S. and elsewhere, including in relation to cybersecurity incidents.

It is possible that new laws, regulations and other requirements, or amendments to or changes in interpretations of existing laws, regulations and other requirements, may require us to incur significant costs, implement new processes, or change our handling of information and business operations. In addition, any failure or perceived failure by us to comply with laws, regulations and other requirements relating to the privacy, security and handling of information could result in legal claims or proceedings, regulatory investigations, or enforcement actions. We could incur significant costs in investigating and defending such claims and, if found liable, pay significant damages or fines or be required to make changes to our business. These proceedings and any subsequent adverse outcomes may subject us to significant negative publicity and an erosion of trust. If any of these events were to occur, our business, results of operations, and financial condition could be materially adversely affected.

Risks Relating to X-energy's Capital Resources

In order to fulfill our business plan, we will require additional funding. To the extent we require such additional investor funding in the future, such funding may be dilutive to our investors and no assurances can be provided as to terms of any such funding. Any such funding and the associated terms will be highly dependent upon market conditions and the progress of our business at the time we seek such funding. The terms of any financing that we pursue may be less favorable than previously anticipated and could become even less favorable depending on the amount of funds we may require.

Our business is capital intensive. We expect that significant additional capital will be needed in the future to continue our planned operations, including commercialization efforts, expanded research and development activities, investment in our customers' projects, risk-sharing arrangements, and costs associated with operating as a public company. To raise capital, we may enter into financing arrangements that may be costly or impose certain restrictive covenants or otherwise restrict our ability to seek additional leverage or financing. We may also seek to sell common stock, convertible securities or other equity securities in one or more transactions at prices and in a manner we determine from time to time. If we sell common stock, convertible securities or other equity securities, investors may be materially diluted by subsequent sales. Such sales may

also result in material dilution to our existing stockholders, and new investors could gain rights, preferences and privileges senior to the holders of our common stock. Any of the above events could significantly harm our business, prospects, financial condition and results of operations and cause the price of our common stock to decline.

Our corporate expenditures, including our corporate level outspend, are subject to numerous risks and uncertainties.

Our current and future operating expenses are uncertain and impacted by various factors outside of our control, including rising costs and other impacts of inflation, evolving regulatory requirements, raw material availability, global conflicts, global supply chain challenges and component manufacturing and testing uncertainties, among other factors. Accordingly, it is possible that our overall expenses and related outspend could be higher than the levels we currently estimate, and any increases could have a material adverse effect on our business, financial condition, operating results and future prospects.

We may experience a disproportionately higher impact from inflation and rising costs.

Inflation has resulted in, and may continue to result in, higher interest rates and capital costs, higher shipping costs, higher material costs, supply shortages, increased costs of labor and other similar effects. Although the impact of material cost, labor, or other inflationary or economically driven factors will impact the entire nuclear and energy transition industry (including renewable sources of electricity, like solar and wind), the relative impact may not be the same across the industry, and the particular effects within the industry will depend on a number of factors, including material use, design, structure of supply agreements, project management and others, which could result in significant changes to the competitiveness of our technology and our ability to sell Xe-100 reactors and our TRISO-X fuel, which could have a material adverse effect on our business, financial condition, operating results and future prospects.

We have a history of losses and may not achieve profitability in the future. We will need substantial additional capital to fund our operations. If we fail to obtain significant additional capital in connection with the consummation of this offering, we will be unable to sustain operations unless we are able to raise additional capital following this offering from additional funding sources.

We expect to continue to incur operating losses for the foreseeable future as we continue to expand and develop, and we will need additional capital from external sources. If we are unable to raise additional capital, we will have to significantly delay, scale back or discontinue one or more of our research and development programs. We may be required to cease operations or seek partners for our product candidates at an earlier stage than otherwise would be desirable and on terms that are less favorable than might otherwise be available. In the absence of additional capital, we may also be required to relinquish, license or otherwise dispose of rights to technologies, product candidates or products that we would otherwise seek to develop or commercialize on terms that are less favorable than might otherwise be available. If we are unable to secure additional capital, we may be required to take additional measures to reduce costs in order to conserve our cash in amounts sufficient to sustain operations and meet our obligations. These measures may significantly alter our business plan and could cause significant delays in the development of our product candidates.

Future indebtedness could expose us to risks that could adversely affect our business, financial condition, operating results and future prospects.

In the future, we may incur indebtedness. Future indebtedness could have significant negative consequences for our security holders, business, results of operations and financial condition by, among other things:

- increasing our vulnerability to adverse economic and industry conditions;
- limiting our ability to obtain additional financing;
- requiring the dedication of a substantial portion of our cash flow from operations to service our indebtedness, which will reduce the amount of cash available for other purposes;
- limiting our flexibility to plan for, or react to, changes in our business; and

- placing us at a possible competitive disadvantage with competitors that are less leveraged than us or have better access to capital.

Our business may not generate sufficient funds, and we may otherwise be unable to maintain sufficient cash reserves, to pay any additional indebtedness that we may incur. Any future indebtedness that we may incur may contain financial and other restrictive covenants that will limit our ability to operate our business, raise capital or make payments under our indebtedness. If we fail to comply with such covenants or to make payments under any of our indebtedness when due, then we would be in default under that indebtedness, which could, in turn, result in that indebtedness becoming immediately payable in full and cross-default or cross-acceleration under our other indebtedness and other liabilities.

Our actual operating results may differ significantly from our guidance.

From time to time, we may release guidance in our quarterly earnings releases, quarterly earnings conference calls, or otherwise once we are a public company, regarding our future performance that represents our management's estimates as of the date of release. This guidance, which includes forward-looking statements, will be based on projections prepared by our management. These projections are not prepared with a view toward compliance with published guidelines of the American Institute of Certified Public Accountants, and neither our registered public accountants nor any other independent expert or outside party compiles or examines the projections. Accordingly, no such person expresses any opinion or any other form of assurance with respect to the projections.

Projections are based upon a number of assumptions and estimates that, while presented with numerical specificity, are inherently subject to significant business, economic, and competitive uncertainties and contingencies, many of which are beyond our control, such as the effects of inflation on our cost estimates and expectations, and are based upon specific assumptions with respect to future business decisions, some of which will change. Any material change to the assumptions or estimates underlying the projections management prepares, or any material overruns or other unexpected increase in costs, could have a material adverse effect on the projections and the guidance on which it is based. The rapidly evolving market in which we operate may make it difficult to evaluate our current business and our future prospects, including our ability to plan for and model future growth. We intend to state possible outcomes as high and low ranges which are intended to provide a sensitivity analysis as variables are changed. However, actual results will vary from our guidance and the variations may be material. The principal reason that we release guidance is to provide a basis for our management to discuss our business outlook as of the date of release with analysts and investors. We do not accept any responsibility for any projections or reports published by any such persons. Investors are urged not to rely upon our guidance in making an investment decision regarding our common stock.

Any failure to successfully implement our operating strategy or the occurrence of any of the events or circumstances set forth in this "Risk Factors" section could result in our actual operating results being different from our guidance, and the differences may be adverse and material.

Our financial results may vary significantly from quarter to quarter.

We expect our revenue and operating results to vary from quarter to quarter. We may incur significant operating expenses during the startup and early stages of large contracts and may not be able to recognize corresponding revenue in that same quarter. We may also incur additional expenses when contracts are terminated or expire and are not renewed.

Payments due to us from our customers may be delayed due to billing cycles or as a result of failures of government budgets to gain congressional and administration approval in a timely manner. The U.S. government's fiscal year ends September 30. If a federal budget for the next federal fiscal year has not been approved by that date in each year, our customers may have to suspend engagements that we are working on until a budget has been approved. Any such suspensions may reduce our revenue in the fourth quarter of the federal fiscal year or the first quarter of the subsequent federal fiscal year.

Additional factors that may cause our financial results to fluctuate from quarter to quarter include those addressed elsewhere in this "Risk Factors" section and the following factors, among others:

- the terms of customer contracts that affect the timing of revenue recognition;
- variability in demand for our services and solutions;
- commencement, completion or termination of contracts during any particular quarter;
- timing of shipments and product deliveries;
- timing of award or performance incentive fee notices;
- timing of significant bid and proposal costs;
- the costs of remediating unknown defects, errors or performance problems of our product offerings;
- variable purchasing patterns under blanket purchase agreements and other indefinite delivery/indefinite quantity contracts;
- restrictions on and delays related to the export of nuclear articles and services;
- costs related to government inquiries;
- strategic decisions by us or our competitors, such as acquisitions, divestitures, spin-offs and joint ventures;
- strategic investments or changes in business strategy;
- changes in the extent to which we use subcontractors;
- seasonal fluctuations in our staff utilization rates;
- changes in our effective tax rate, including changes in our judgment as to the necessity of the valuation allowance recorded against our deferred tax assets; and
- the length of sales cycles.

Changes in our accounting estimates and assumptions could negatively affect our financial position and results of operations.

We prepare our consolidated financial statements in accordance with U.S. GAAP. These accounting principles require us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of our financial statements. We are also required to make certain judgments that affect the reported amounts of revenues and expenses during each reporting period. We periodically evaluate our estimates and assumptions including, but not limited to, those relating to amortization and depreciation, estimates of costs to complete long-term contracts and the associated revenues, the valuation of profits interests, unit-based compensation, preferred units, warrants, exchanged debt, and liabilities measured at fair value. We base our estimates on historical experience and various assumptions that we believe to be reasonable based on specific circumstances. These assumptions and estimates involve the exercise of judgment and discretion, which may evolve over time in light of operational experience, regulatory direction, developments in accounting principles and other factors. Actual results could differ from these estimates as a result of changes in circumstances, assumptions, policies or developments in the business, which could materially affect our consolidated financial statements.

Risks Related to our Capital Structure

Our principal asset after the completion of this offering will be our interest in XERC, and, as a result, we will depend on distributions from XERC to pay our taxes and expenses (including payments under the Tax Receivable Agreement) and pay dividends. XERC's ability to make such distributions may be subject to various limitations and restrictions.

Upon the consummation of this offering and the Transactions, we will be a holding company and will have no material assets other than our ownership of Common Units. As such, we will have no independent means of generating revenue or cash flow, and our ability to pay our taxes and operating expenses or declare and pay dividends in the future, if any, will be dependent upon the financial results and cash flows of XERC and distributions we receive from XERC. There can be no assurance XERC will generate sufficient cash flow

to distribute funds to us or that applicable state law and contractual restrictions, including negative covenants in any applicable debt instruments, will permit such distributions. XERC is currently subject to debt instruments or other agreements that restrict its ability to make distributions to us, which may in turn affect XERC's ability to pay distributions to us and thereby adversely affect our cash flows.

XERC will continue to be treated as a partnership for U.S. federal income tax purposes and, as such, generally will not be subject to any entity-level U.S. federal income tax. Instead, any taxable income of XERC will be allocated to holders of Common Units, including us. Accordingly, we will incur income taxes on our allocable share of any net taxable income of XERC. Under the terms of the XERC LLC Agreement, XERC will be obligated, subject to various limitations and restrictions, including with respect to our debt agreements, to make tax distributions to holders of Common Units, including us. In addition to tax expenses, we will also incur expenses related to our operations, including payments under the Tax Receivable Agreement, which we expect will be significant. See "Certain Relationships and Related Party Transactions — Tax Receivable Agreement." We intend, as its managing member, to cause XERC to make cash distributions to the holders of Common Units in an amount sufficient to (i) fund all or part of their tax obligations in respect of taxable income allocated to them and (ii) cover our operating expenses, including payments under the Tax Receivable Agreement. However, XERC's ability to make such distributions may be subject to various limitations and restrictions, such as restrictions on distributions that would either violate any contract or agreement to which XERC is then a party, including debt agreements, or any applicable law, or that would have the effect of rendering XERC insolvent. If we do not have sufficient funds to pay tax or other liabilities, or to fund our operations (including, if applicable, because of an acceleration of our obligations under the Tax Receivable Agreement), we may have to borrow funds, which could materially and adversely affect our liquidity and financial condition, and subject us to various restrictions imposed by any lenders of such funds. To the extent we are unable to make timely payments under the Tax Receivable Agreement for any reason, such payments generally will be deferred and will accrue interest until paid; provided, however, that nonpayment for a specified period may constitute a Material Breach under the Tax Receivable Agreement resulting in the future payments under the Tax Receivable Agreement for each taxable year after any such Material Breach being calculated utilizing certain deemed exchanges and valuation assumptions. See "Certain Relationships and Related Party Transactions — Tax Receivable Agreement." In addition, if XERC does not have sufficient funds to make distributions, our ability to declare and pay cash dividends will also be restricted or impaired, although we do not anticipate declaring or paying any cash dividends on our Class A common stock in the foreseeable future. See "Risk Factors — Risks Related to the Offering and Ownership of our Class A common stock" and "Dividend Policy."

In addition, the tax distributions that XERC may be required to make may be substantial, and the amount of any additional tax distributions XERC is required to make likely will exceed the tax liabilities that would be owed by a corporate taxpayer similarly situated to XERC. As a result of (i) potential differences in the amount of net taxable income allocable to us and to the other holders of Common Units, (ii) the lower tax rate applicable to corporations as opposed to individuals, and (iii) certain tax benefits covered by, and payments under, the Tax Receivable Agreement, these tax distributions may be in amounts that exceed our tax liabilities. Our board of directors will determine the appropriate uses for any excess cash so accumulated, which may include, among other uses, the payment of obligations under the Tax Receivable Agreement and the payment of other expenses. We will have no obligation to distribute such cash (or other available cash) to our shareholders. No adjustments to the exchange ratio for Common Units and corresponding shares of Class A common stock will be made as a result of any cash dividend or distribution by us or any retention of cash by us. As a result, the holders of Common Units (other than us) may benefit from value, if any, attributable to such cash balances if they acquire shares of Class A common stock in exchange for their Common Units, notwithstanding that such holders may have participated previously as holders of Common Units in distributions that resulted in such excess cash balances to us. See "Description of Capital Stock." To the extent we do not distribute such excess cash as dividends on our Class A common stock we may take other actions with respect to such excess cash, for example, holding such excess cash, lending or contributing it (or a portion thereof) to XERC, which may result in shares of our Class A common stock increasing in value relative to the value of Common Units, or repurchasing outstanding shares of our Class A common stock. Following a contribution of such excess cash to XERC, we may, but are not required to, make an adjustment to the outstanding number of Common Units held by holders of Common Units (other than us).

Funds used by XERC to satisfy its obligation to make tax distributions will not be available for reinvestment in our business, except to the extent we or certain other Continuing Equity Owners use any excess cash received to reinvest in XERC for additional Common Units.

Moreover, because cash available for additional tax distributions will be determined by taking into account the ability of XERC and its subsidiaries to take on additional borrowing, XERC may be required to increase its indebtedness in order to fund additional tax distributions. Such additional borrowing may adversely affect our results of operations, cash flows and financial position by, without limitation, limiting our ability to borrow in the future for other purposes, such as capital expenditures, and increasing our interest expense and leverage ratios.

The Tax Receivable Agreement with XERC and the TRA Holders requires us to make cash payments to the TRA Holders in respect of certain tax benefits to which we may become entitled, and we expect that such payments will be substantial.

In connection with the consummation of this offering, we will enter into a Tax Receivable Agreement with XERC and the TRA Holders. Under the Tax Receivable Agreement, we will be required to make cash payments to the TRA Holders equal to 85% of the cash tax savings, if any, that we actually realize, or in certain circumstances are deemed to realize, as a result of (i) Basis Adjustments, (ii) Existing Basis, (iii) Blocker Tax Attributes and (iv) Interest Deductions. We will be required to make such payments to the TRA Holders even if all of the TRA Holders were to exchange or redeem their remaining Common Units.

The payment obligations under the Tax Receivable Agreement are an obligation of the Company and not of XERC. We expect that the amount of the cash payments we will be required to make under the Tax Receivable Agreement will be substantial. Any payments made by us to the TRA Holders under the Tax Receivable Agreement will not be available for reinvestment in our business and will generally reduce the amount of overall cash flow that might have otherwise been available to us. To the extent that we are unable to make timely payments under the Tax Receivable Agreement for any reason, the unpaid amounts will be deferred and will accrue interest until paid by us; provided, however, that nonpayment for a specified period may constitute a Material Breach under the Tax Receivable Agreement. In the case of a Material Breach, or in the event of certain changes of control (as defined under the Tax Receivable Agreement), which includes certain mergers, asset sales and other forms of business combinations, the Tax Receivable Agreement will not terminate nor will a single, accelerated lump sum payment be due; however, the calculation of certain future payments made under the Tax Receivable Agreement will utilize certain valuation assumptions, including that (i) in the case of a change of control any Common Units that have not been exchanged are deemed exchanged for the market value of the shares of our Class A common stock at the time of the change of control and (ii) in either case, X-Energy, Inc. will have sufficient taxable income to fully utilize the tax attributes covered by the Tax Receivable Agreement. See “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.” These payment obligations could (i) make us a less attractive target for an acquisition, particularly in the case of an acquirer that cannot use some or all of the tax benefits that are the subject of the Tax Receivable Agreement and (ii) result in holders of our Class A common stock receiving substantially less consideration in connection with a change of control transaction than they would receive in the absence of such obligation. Accordingly, the TRA Holders’ interests may conflict with those of the holders of our Class A common stock. Furthermore, if we exercise our right to terminate the Tax Receivable Agreement, we would be obligated to make an immediate payment, and such payment may be significantly in advance of, and may materially exceed, the actual realization, if any, of the future tax benefits to which the payment relates.

Assuming no material changes in the relevant tax laws and that we earn sufficient taxable income to realize all tax benefits that are subject to the Tax Receivable Agreement, we expect that the tax savings associated with the purchase of Common Units in connection with this offering, together with future redemptions or exchanges of all remaining Common Units owned by the TRA Holders pursuant to the XERC LLC Agreement as described above, would aggregate to approximately \$ million over years from the date of this offering based on the assumed initial public offering price of \$ per share of our Class A common stock, which is the midpoint of the range set forth on the cover page of this prospectus, and assuming all redemptions or exchanges would occur immediately after the initial public offering for the remaining ownership of XERC not acquired by X-Energy, Inc., which is assumed to occur on for purposes of the pro forma information presented herein and elsewhere in this prospectus. Under such scenario, assuming

future payments are made on the date each relevant tax return is due, without extensions, we would be required to pay approximately 85% of such amount, or approximately \$ million, over the -year period from the date of this offering, to the TRA Holders. The actual Basis Adjustments, Existing Basis, Blocker Tax Attributes and Interest Deductions and the actual utilization of any resulting tax benefits, as well as the amount and timing of any payments under the Tax Receivable Agreement, will vary depending upon a number of factors including: the timing of redemptions by the TRA Holders; the price of shares of our Class A common stock at the time of the exchange; the extent to which such exchanges are taxable; the amount of gain recognized by such TRA Holders; the amount and timing of the taxable income allocated to us or otherwise generated by us in the future; the portion of our payments under the Tax Receivable Agreement constituting imputed interest; and the federal and state tax rates then applicable.

Our organizational structure, including the Tax Receivable Agreement, confers certain benefits upon the Continuing Equity Owners that will not benefit holders of our Class A common stock to the same extent that it will benefit the Continuing Equity Owners.

Our organizational structure, including the Tax Receivable Agreement, confers certain benefits upon the Continuing Equity Owners that will not benefit the holders of our Class A common stock to the same extent that it will benefit the Continuing Equity Owners. We will enter into the Tax Receivable Agreement with XERC and the TRA Holders in connection with the completion of this offering and the Transactions, which will provide for the payment by us to the TRA Holders of 85% of the amount of cash tax savings, if any, that we actually realize, or in some circumstances are deemed to realize, as a result of (i) Basis Adjustments, (ii) Existing Basis, (iii) Blocker Tax Attributes and (iv) Interest Deductions. See “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.” Although we will retain 15% of the amount of such tax benefits, this and other aspects of our organizational structure may adversely impact the future trading market for our Class A common stock.

In certain cases, payments under the Tax Receivable Agreement to the TRA Holders may be accelerated or significantly exceed any actual benefits we realize in respect of the tax attributes subject to the Tax Receivable Agreement.

The Tax Receivable Agreement will generally apply to each of our taxable years, beginning with the first taxable year ending after the consummation of the Transactions. There is no maximum term for the Tax Receivable Agreement. Importantly, upon a change of control, the Tax Receivable Agreement will not terminate nor will the lump sum payment be due. However, the Tax Receivable Agreement will provide that if we (i) commit a Material Breach under the Tax Receivable Agreement or (ii) undergo a change of control, which includes certain mergers, asset sales, other forms of business combinations or other changes of control occurring after the consummation of this offering, then our obligations, or our successor’s obligations, under the Tax Receivable Agreement to make payments will be calculated utilizing certain valuation assumptions, including that (x) in the case of a change of control any Common Units that have not been exchanged are deemed exchanged for the market value of the shares of our Class A common stock at the time of the change of control and (y) in either case, X-Energy, Inc. will have sufficient taxable income to fully utilize the tax attributes covered by the Tax Receivable Agreement. Furthermore, the Tax Receivable Agreement will provide that if we elect an early termination of the Tax Receivable Agreement, the payment will be accelerated and we will be required to make a payment to the TRA Holders based on certain assumptions, including an assumption that we will have sufficient taxable income to fully utilize all potential future tax benefits that are subject to the Tax Receivable Agreement.

As a result of the foregoing, we would be required to make an immediate cash payment equal to the present value of the anticipated future tax benefits that are the subject of the Tax Receivable Agreement, based on certain assumptions, which payment may be made significantly in advance of the actual realization, if any, of such future tax benefits. Such cash payment to the TRA Holders could be greater than the specified percentage of any actual benefits we ultimately realize in respect of the tax benefits that are subject to the Tax Receivable Agreement. In these situations, our obligations under the Tax Receivable Agreement could have a substantial negative impact on our liquidity and could have the effect of delaying, deferring, or preventing certain mergers, asset sales, other forms of business combinations or other changes of control. For example, should we elect to terminate the Tax Receivable Agreement immediately following this offering, assuming no material changes in the relevant tax laws or tax rates and that we earn sufficient taxable income

to realize all potential tax benefits that are subject to the Tax Receivable Agreement, we estimate that the aggregate of termination payments would be approximately \$ _____ million (at a discount rate of SOFR plus 100 basis points) based on the assumed initial public offering price of \$ _____ per share of our Class A common stock, which is the midpoint of the range set forth on the cover page of this prospectus, and assuming SOFR (as defined in the Tax Receivable Agreement) were to be _____. There can be no assurance that we will be able to fund or finance our obligations under the Tax Receivable Agreement. We may need to incur debt to finance payments under the Tax Receivable Agreement to the extent our cash resources are insufficient to meet our obligations under the Tax Receivable Agreement as a result of timing discrepancies or otherwise.

We will not be reimbursed for any payments made to the TRA Holders under the Tax Receivable Agreement in the event that any tax benefits are disallowed.

Payments under the Tax Receivable Agreement will be based on the tax reporting positions that we determine, and the Internal Revenue Service ("IRS"), or another tax authority, may challenge all or part of the Basis Adjustments, Existing Basis, Blocker Tax Attributes, Interest Deductions or other tax benefits we claim, as well as other related tax positions we take, and a court could sustain such challenge. If the outcome of any such challenge would reasonably be expected to materially and adversely affect the rights and obligations of TRA Holders under the Tax Receivable Agreement, then we will not be permitted to settle such challenge without the consent (not to be unreasonably withheld or delayed) of the TRA Holders. The interests of the TRA Holders in any such challenge may differ from or conflict with our interests and your interests, and the TRA Holders may exercise their consent rights relating to any such challenge in a manner adverse to our interests and your interests. We will not be reimbursed for any cash payments previously made to the TRA Holders under the Tax Receivable Agreement in the event that any tax benefits initially claimed by us and for which payment has been made to a TRA Holder are subsequently challenged by a taxing authority and are ultimately disallowed. Instead, any excess cash payments made by us to a TRA Holder will be netted against future cash payments, if any, that we might otherwise be required to make to such TRA Holder, under the terms of the Tax Receivable Agreement. However, we might not determine whether we have effectively made an excess cash payment to a TRA Holder for a number of years following the initial time of such payment. Moreover, the excess cash payments we made previously under the Tax Receivable Agreement could be greater than the amount of future cash payments against which we would otherwise be permitted to net such excess. The applicable U.S. federal income tax rules for determining applicable tax benefits we may claim are complex and factual in nature, and there can be no assurance that the IRS or a court will agree with our tax reporting positions. As a result, payments could be made under the Tax Receivable Agreement significantly in excess of any actual cash tax savings that we realize in respect of the tax attributes with respect to a TRA Holder that are the subject of the Tax Receivable Agreement.

The acceleration of payments under the Tax Receivable Agreement in the case of an early termination or the application of certain valuation assumptions under the Tax Receivable Agreement in the case of certain changes of control or a Material Breach may negatively impact the value received by owners of our Class A common stock.

The Tax Receivable Agreement will provide that if we elect an early termination of the Tax Receivable Agreement, at X-Energy, Inc.'s obligations with respect to the Tax Receivable Agreement would be accelerated and based on certain assumptions, including that we (or our successor) would have sufficient taxable income to fully utilize the benefits arising from the increased tax deductions and tax basis and other benefits covered by the Tax Receivable Agreement. In the event of certain changes of control, or a Material Breach of the Tax Receivable Agreement by X-Energy, Inc., including an insolvency event, the calculation of certain future payments made under the tax receivable agreement will utilize certain valuation assumptions, including that (i) in the case of a change of control, Common Units that have not been exchanged are deemed exchanged for the market value of the shares of our Class A common stock at the time of the change of control and (ii) in either case, X-Energy, Inc. will have sufficient taxable income to fully utilize the tax attributes covered by the Tax Receivable Agreement. Such payments may significantly exceed the actual benefits X-Energy, Inc. realizes in respect of the tax attributes subject to the Tax Receivable Agreement. Consequently, it is possible, in these circumstances, that the actual cash tax savings realized by us may be significantly less than the corresponding tax benefit payments under the Tax Receivable Agreement. We expect that the payments that we may make under the Tax Receivable Agreement following a change of control will be substantial and may be in excess of 85% of X-Energy, Inc.'s actual cash tax benefits. X-Energy Inc.'s accelerated payment obligations and/or

assumptions adopted under the Tax Receivable Agreement may negatively impact the value received by owners of our Class A common stock in a change of control transaction.

The Continuing Equity Owners, including the X-energy Founder and certain of their affiliates, may have conflicting interests with holders of shares of our Class A common stock.

Immediately following this offering and application of the net proceeds therefrom, the X-energy Founder and certain of their affiliates will beneficially own approximately % of the combined voting power of our Class A common stock or Class B common stock (or approximately % if the underwriters exercise in full their option to purchase additional shares of Class A common stock). Each share of Class A common stock entitles the holder to one vote per share and each share of Class B common stock entitles the holder to one vote per share on all matters on which shareholders are entitled to vote generally. For a description of our multi-class structure, see “Description of Capital Stock.”

In addition, immediately following this offering and application of the net proceeds therefrom, the Continuing Equity Owners, including the X-energy Founder and certain of their affiliates, will own approximately of the Common Units (or approximately % if the underwriters exercise in full their option to purchase additional shares of Class A common stock). Because they hold their ownership interest in our business directly in XERC, rather than through the Company, the Continuing Equity Owners, including the X-energy Founder and certain of their affiliates, may have conflicting interests with holders of shares of our Class A common stock. For example, if XERC makes distributions to the Company, the non-managing members of XERC will also be entitled to receive such distributions pro rata in accordance with their ownership of Common Units and their preferences as to the timing and amount of any such distributions may differ from those of our public shareholders. The Continuing Equity Owners, including the X-energy Founder and certain of their affiliates, may also have different tax positions from us that could influence their decisions regarding whether and when to dispose of assets, especially in light of the existence of the Tax Receivable Agreement that we entered into in connection with this offering with XERC and the TRA Holders, whether and when to incur new or refinance existing indebtedness and whether and when the Company should terminate the Tax Receivable Agreement and accelerate its obligations thereunder. In addition, the structuring of future transactions may take into consideration our Continuing Equity Owners tax or other considerations even where no similar benefit would accrue to us. See “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.”

Our shares of Class B common stock will not have economic rights. Immediately following the consummation of this offering, all of our Class B common stock will be held by certain Continuing Equity Owners, and certain of their affiliates.

Changes in tax laws and unanticipated tax liabilities could adversely affect our effective income tax rate and profitability.

We are subject to income taxes in the U.S. Our effective income tax rate and profitability could be adversely affected in the future by several factors, including changes in tax laws, regulations, administrative guidance or interpretations at the federal, state, or international level and changes in the valuation of deferred tax assets and liabilities.

On July 4, 2025, the President signed into law the OBBBA, a sweeping tax and spending law that makes permanent many provisions of the 2017 Tax Cuts and Jobs Act (the “TCJA”), while introducing new tax policies and restructuring others. While certain provisions may reduce our tax liability, such as modifications to corporate tax rates, deductions, credits, treatment of foreign income, and expensing rules, others may introduce new complexity and audit risk. We will continue to monitor the potential impact of the OBBBA. Because tax laws are dynamic and often retroactive or uncertain in interpretation, projected tax liabilities may differ significantly from eventual obligations. The net impact remains uncertain, and misapplication of the new rules could lead to materially adverse outcomes.

We regularly assess all of these tax-related matters to determine the adequacy of its tax provision. If current tax strategies are ineffective or not in compliance with domestic and international tax laws, our financial position, operating results, and cash flows could be adversely affected.

Risks Related to the Offering and Ownership of our Class A common stock

There has been no prior public market for our Class A common stock, the stock price of our Class A common stock may be volatile or may decline regardless of our operating performance, and you may not be able to resell your shares at or above the initial public offering price.

There has been no public market for our Class A common stock prior to this offering. The initial public offering price for our Class A common stock was determined through negotiations between us and the underwriters and may vary from the market price of our Class A common stock following this offering. The market prices of the securities of newly public companies such as us, particularly in the nuclear industry, have historically been highly volatile. The market price of our Class A common stock may fluctuate significantly in response to numerous factors, many of which are beyond our control, including:

- overall performance of the equity markets and the performance of technology companies in particular;
- variations in our operating results, cash flows, and other financial metrics and non-financial metrics, and how those results compare to analyst expectations;
- changes in the financial projections we may provide to the public or our failure to meet these projections;
- failure of securities analysts to initiate or maintain coverage of us, changes in financial estimates by any securities analysts who follow our company, or our failure to meet these estimates or the expectations of investors;
- recruitment or departure of key personnel;
- the economy as a whole and market conditions in our industry;
- negative publicity related to problems in our manufacturing or the real or perceived quality of our products, as well as the failure to timely launch new products or services that gain market acceptance;
- rumors and market speculation involving us or other companies in our industry;
- announcements by us or our competitors of new products, services, features and content, significant technical innovations, acquisitions, strategic partnerships, joint ventures, or capital commitments;
- new laws or regulations or new interpretations of existing laws or regulations applicable to our business;
- lawsuits threatened or filed against us, litigation involving our industry, or both;
- developments or disputes concerning our or other parties' products, services, or intellectual property rights;
- other events or factors, including those resulting from war, incidents of terrorism, or responses to these events;
- the expiration of contractual lock-up or market standoff agreements; and
- sales of shares of our Class A common stock by us or our stockholders.

In addition, the stock markets have experienced extreme price and volume fluctuations that have affected and continue to affect the market prices of equity securities of many companies. Stock prices of many companies have fluctuated in a manner unrelated or disproportionate to the operating performance of those companies. In the past, stockholders have instituted securities class action litigation following periods of market volatility. If we were to become involved in securities litigation, it could subject us to substantial costs, divert resources and the attention of management from our business, and adversely affect our business.

Sales, directly or indirectly, of a substantial amount of our Class A common stock in the public markets by our existing security holders may cause the price of our Class A common stock to decline.

Sales of a substantial number of shares of our Class A common stock into the public market, particularly sales by our directors, executive officers, and principal stockholders, or the perception that these sales might occur, could cause the market price of our Class A common stock to decline and could impair our ability to

raise capital through the sale of additional equity securities. Many of our existing security holders have substantial unrecognized gains on the value of the equity they hold, and may take, or attempt to take, steps to sell, directly or indirectly, their shares or otherwise secure, or limit the risk to, the value of their unrecognized gains on those shares.

All of the shares of Class A common stock sold in this offering will be freely tradable without restrictions or further registration under the Securities Act except that any shares held by our affiliates, as defined in Rule 144 under the Securities Act, would only be able to be sold in compliance with Rule 144 and any applicable lock-up agreements described below.

In connection with this offering, subject to certain customary exceptions, we, all of our directors and executive officers, and substantially all of the holders of the Common Units, have entered into market standoff agreements with us or lock-up agreements with the underwriters that prohibit them from selling, contracting to sell, granting any option for the sale of, transferring, or otherwise disposing of any shares of common stock, stock options, or any security or instrument related to common stock or stock options without the permission of J.P. Morgan Securities LLC on behalf of the underwriters for a period of 180 days from the date of this prospectus, subject to early termination as described below. See “Underwriting.”

Holders of our outstanding shares of Class A common stock and securities convertible into or exercisable or exchangeable for shares of our Class A common stock are subject to restrictions on their ability to sell or transfer their equity either prior to the pricing of this offering or from the pricing of this offering through the date that is 180 days after the date of this prospectus. We refer to such period as the “lock-up period”. Pursuant to the lock-up agreements with the underwriters, if (1) at least 120 days have elapsed since the date of this prospectus, (2) we have publicly released our earnings results for the quarterly period during which this offering occurred, and (3) such lock-up period is scheduled to end during or within five trading days prior to a broadly applicable period during which trading in our securities would not be permitted under our insider trading policy, or a blackout period, such lock-up period will end ten trading days prior to the commencement of such blackout period. We and the underwriters may release certain stockholders from the market standoff agreements or lock-up agreements prior to the end of the lock-up period. Record holders of our securities are typically the parties to the lock-up agreements with the underwriters and to the market standoff agreements with us referred to above, while holders of beneficial interests in our shares who are also not holders in respect of such shares are not typically subject to any such agreements or other similar restrictions. Accordingly, we believe that holders of beneficial interests who are not holders and are not bound by market standoff or lock-up agreements could enter into transactions with respect to those beneficial interests that negatively impact our stock price. In addition, an equity holder who is neither subject to a market standoff agreement with us nor a lock-up agreement with the underwriters may be able to sell, short sell, transfer, hedge, pledge, or otherwise dispose of or attempt to sell, short sell, transfer, hedge, pledge, or otherwise dispose of, their equity interests at any time after the closing of our initial public offering. Any such transaction described above involving shares of our Class A common stock, or any perception by the market that such transaction may occur, could cause our stock price to decline.

When the applicable lock-up and market standoff periods described above expire, we and our security holders subject to a lock-up agreement or market standoff agreement will be able to sell our shares in the public market. In addition, J.P. Morgan Securities LLC on behalf of the underwriters, may, in its sole discretion, release all or some portion of the shares subject to lock-up agreements prior to the expiration of the lock-up period. Sales of a substantial number of such shares upon expiration of the lock-up and market standoff agreements, or the perception that such sales may occur, or early release of these agreements, could cause our market price to fall or make it more difficult for you to sell your Class A common stock at a time and price that you deem appropriate.

We may also issue our shares of common stock or securities convertible into shares of our common stock from time to time in connection with a financing, acquisition, investment, or otherwise. Any further issuance could result in substantial dilution to our existing stockholders and cause the market price of our Class A common stock to decline.

If securities or industry analysts do not publish research, or publish inaccurate or unfavorable research, about our business, the price of our Class A common stock and trading volume could decline.

The trading market for our Class A common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business, our market, and our competitors. We do not

have any control over these analysts. If few securities analysts commence coverage of us, or if industry analysts cease coverage of us, the trading price for our Class A common stock would be negatively affected. If one or more of the analysts who cover us downgrade our Class A common stock or publish inaccurate or unfavorable research about our business, our Class A common stock price would likely decline. If one or more of these analysts cease coverage of us or fail to publish reports on us regularly, demand for our Class A common stock could decrease, which might cause our Class A common stock price and trading volume to decline.

We have identified a material weakness in our internal control over financial reporting. If our remediation of such material weakness is not effective, or if X-energy experiences additional material weaknesses or otherwise fails to design and maintain effective internal control over financial reporting in the future, X-energy's ability to timely and accurately report its financial condition and results of operations or comply with applicable laws and regulations could be impaired, which may adversely affect investor confidence in X-energy and, as a result, the value of X-energy Class A common stock.

In connection with the preparation of our consolidated financial statements for the years ended December 31, 2024 and 2023, we identified a material weakness in our internal control over financial reporting. A material weakness is a deficiency, or combination of deficiencies, in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our annual or interim consolidated financial statements will not be prevented or detected on a timely basis.

For the years ended December 31, 2024 and 2023, the material weakness primarily relates to the following matter that is relevant to the preparation of our consolidated financial statements:

- we lacked a sufficient complement of accounting and financial reporting personnel to analyze and interpret complex technical agreements and related valuations and ensure we record and disclose transactions appropriately.

The material weakness described above was not remediated during the year ended December 31, 2025, and if not remediated in the future, could result in a misstatement of one or more account balances or disclosures that would result in a material misstatement to the annual or interim consolidated financial statements that would not be prevented or detected.

In order to remediate this material weakness, we have taken and plan to take the following actions:

- continuing to hire additional, qualified accounting and finance personnel; and
- designing and implementing additional controls and processes that operate at an appropriate level of precision to ensure adequate review of highly complex technical agreements and valuations.

We cannot assure you that the measures we have taken to date, and that we are continuing to implement, will be sufficient to remediate the material weakness we have identified or to avoid the identification of additional material weaknesses in the future. If the steps we take do not remediate the material weakness in a timely manner, there could continue to be a reasonable possibility that this control deficiency or others could result in a material misstatement of our annual or interim consolidated financial statements that would not be prevented or detected on a timely basis.

The process of designing and implementing internal control over financial reporting required to comply with the disclosure and attestation requirements of Section 404 of the Sarbanes-Oxley Act will be time consuming and costly. If, during the evaluation and testing process we identify additional material weaknesses in our internal control over financial reporting or determine that the existing material weakness has not been remediated, our management will be unable to assert that our internal control over financial reporting is effective and our independent registered public accounting firm may conclude that there are material weaknesses with respect to our internal control over financial reporting. If we are unable to assert that our internal control over financial reporting is effective, or when required in the future, if our independent registered public accounting firm is unable to express an unqualified opinion as to the effectiveness of our internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our financial reports, the market price of our common stock could be adversely affected and we could become subject to litigation or investigations by the stock exchange on which our securities are listed, the SEC, or other regulatory authorities, which could require additional financial and management resources.

An active, liquid trading market for X-energy's securities may not develop, which may limit your ability to sell such securities.

Although we intend to apply to list the Class A common stock on the Nasdaq under the ticker symbol XE, an active trading market for the Class A common stock may never develop or be sustained following this offering. The initial valuation of \$ per share may not be indicative of the market price of the Class A common stock that will prevail in the open market after this offering. A public trading market having the desirable characteristics of depth, liquidity and orderliness depends upon the existence of willing buyers and sellers at any given time, such existence being dependent upon the individual decisions of buyers and sellers over which neither we nor any market maker has control. The failure of an active and liquid trading market to develop and continue would likely have a material adverse effect on the value of the Class A common stock, and you may not be able to sell your Class A common stock at an attractive price or at all. An inactive market may also impair our ability to raise capital to continue to fund operations by issuing additional shares of Class A common stock.

We will have broad discretion in the use of the net proceeds we receive in this offering and may not use them effectively.

We will have broad discretion in the application of the net proceeds we receive in this offering, including for any of the purposes described in the section titled "Use of Proceeds," and you will not have the opportunity as part of your investment decision to assess whether we are using the net proceeds appropriately. Because of the number and variability of factors that will determine our use of the net proceeds from this offering, their ultimate use may vary substantially from their currently intended use. If we do not use the net proceeds that we receive in this offering effectively, our business, financial condition, operating results, and prospects could be harmed, and the market price for our Class A common stock could decline. Pending their use, we may invest the net proceeds from this offering in short-term, investment-grade interest-bearing securities such as money market accounts, certificates of deposit, commercial paper, and guaranteed obligations of the U.S. government that may not generate a high yield to our stockholders. These investments may not yield a favorable return to our investors.

We do not intend to pay dividends on the common stock of X-energy for the foreseeable future.

We have never declared or paid any cash dividends on the common stock of X-energy and do not intend to pay any cash dividends in the foreseeable future. Additionally, our ability to pay dividends on our common stock is limited by the restrictions under the terms of our loan and security agreement. We anticipate that for the foreseeable future we will retain all of our future earnings for use in the development of our business and for general corporate purposes. Any determination to pay dividends in the future will be at the discretion of our board of directors. Holders of our Class B common stock do not have any economic rights or any right to receive dividends, or to receive a distribution upon a liquidation, dissolution or winding up X-Energy, Inc., with respect to their Class B common stock. Accordingly, investors must rely on sales of their Class A common stock after price appreciation, which may never occur, as the only way to realize any future gains on their investments.

X-energy will incur significant transaction and transition costs in connection with the registration of securities.

X-energy will have incurred and expects to continue to incur significant, nonrecurring costs in connection with consummating the initial public offering and operating as a public company. For example, we will be subject to the reporting requirements of the Exchange Act and will be required to comply with the applicable requirements of the Sarbanes-Oxley Act and the Dodd-Frank Wall Street Reform and Consumer Protection Act, as well as rules and regulations subsequently implemented by the SEC, including the establishment and maintenance of effective disclosure and financial controls, changes in corporate governance practices and required filing of annual, quarterly and current reports with respect to our business and operating results. These requirements will increase our legal and financial compliance costs and will make some activities more time-consuming and costly. In addition, our management and other personnel will need to divert attention from operational and other business matters to devote substantial time to these public company requirements. We will also need to hire additional accounting and financial staff with appropriate public company experience and technical accounting knowledge and will need to establish an internal audit function. We also expect that

operating as a public company will make it more expensive for us to obtain director and officer liability insurance, and we may be required to accept reduced coverage or incur substantially higher costs to obtain coverage. This could also make it more difficult for us to attract and retain qualified people to serve on our board of directors, our board committees or as executive officers.

In addition, after we no longer qualify as an “emerging growth company,” as defined under the JOBS Act, we expect to incur additional management time and cost to comply with the more stringent reporting requirements applicable to companies that are deemed accelerated filers or large accelerated filers, including complying with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act. We are just beginning the process of compiling the system and processing documentation needed to comply with such requirements. We may not be able to complete our evaluation, testing and any required remediation in a timely fashion. In that regard, we currently do not have an internal audit function, and we will need to hire or contract for additional accounting and financial staff with appropriate public company experience and technical accounting knowledge.

We cannot predict or estimate the amount of additional costs we may incur as a result of becoming a public company or the timing of such costs.

We are eligible to be treated as an emerging growth company, as defined in the Securities Act, and we cannot be certain if the reduced disclosure requirements applicable to emerging growth companies will make our Class A common stock less attractive to investors because we may rely on these reduced disclosure requirements.

We are eligible to be treated as an emerging growth company, as defined in Section 2(a) of the Securities Act, as modified by the JOBS Act. Under the JOBS Act, emerging growth companies can delay adopting new or revised financial accounting standards until such time as those standards apply to private companies. We intend to take advantage of this extended transition period under the JOBS Act for adopting new or revised financial accounting standards.

For as long as we continue to be an emerging growth company, we may also take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies, including presenting only limited selected financial data and not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes Oxley Act. As a result, our shareholders may not have access to certain information that they may deem important. We could be an emerging growth company for up to five years, although circumstances could cause us to lose that status earlier, including if our total annual revenue exceeds \$1.235 billion, if we issue more than \$1.0 billion in nonconvertible debt securities during any three-year period, or if before that time we are a “large accelerated filer” under U.S. securities laws. We cannot predict if investors will find our Class A common stock less attractive because we may rely on these exemptions. If some investors find our Class A common stock less attractive, as a result, there may be a less active trading market for our Class A common stock and our share price may be more volatile.

We will incur increased costs as a result of operating as a public company, and our management will be required to devote substantial time to new compliance initiatives and corporate governance practices.

As a public company, and particularly after we are no longer an emerging growth company, we will incur significant legal, accounting and other expenses that we did not incur as a private company. The Sarbanes-Oxley Act, the Dodd-Frank Wall Street Reform, the Consumer Protection Act, the listing requirements of and other applicable securities rules and regulations impose various requirements on public companies, including establishment and maintenance of effective disclosure and financial controls and corporate governance practices. Our management and other personnel will need to devote a substantial amount of time to these compliance initiatives. Moreover, these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly. For example, these rules and regulations may make it more difficult and more expensive for us to obtain director and officer liability insurance and make it more difficult for us to attract and retain qualified members of our board of directors.

We are evaluating these rules and regulations and cannot predict or estimate the amount of additional costs we may incur or the timing of such costs. These rules and regulations are often subject to varying interpretations, in many cases due to their lack of specificity, and, as a result, their application in practice may

evolve over time as new guidance is provided by regulatory and governing bodies. This could result in continuing uncertainty regarding compliance matters and higher costs necessitated by ongoing revisions to disclosure and governance practices.

Key members of our management team have limited experience managing a public company.

Many members of our management team have limited experience managing a publicly traded company, interacting with public company investors and complying with the increasingly complex laws pertaining to public companies. Our management team may not successfully or efficiently manage our transition to being a public company subject to significant regulatory oversight and reporting obligations under the federal securities laws and the continuous scrutiny of securities analysts and investors. These new obligations and constituents will require significant attention from our senior management and could divert their attention away from the day-to-day management of our business, which could adversely affect our business, financial condition, operating results and future prospects.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements. These forward-looking statements include, without limitation, statements relating to expectations for future financial performance, business strategies or expectations for X-energy's business. These statements are based on the beliefs and assumptions of the management of X-energy. Although X-energy believes that their plans, intentions and expectations reflected in or suggested by these forward-looking statements are reasonable, X-energy cannot assure you that it will achieve or realize these plans, intentions or expectations. These statements constitute projections, forecasts and forward-looking statements, and are not guarantees of performance. Such statements can be identified by the fact that they do not relate strictly to historical or current facts. When used in this prospectus, words such as "anticipate," "believe," "can," "continue," "could," "estimate," "expect," "forecast," "intend," "may," "might," "plan," "possible," "potential," "predict," "project," "seek," "should," "strive," "target," "will," "would" and similar expressions may identify forward-looking statements, but the absence of these words does not mean that a statement is not forward-looking.

Forward-looking statements in this prospectus and in any document incorporated by reference in this prospectus may include, for example, statements about X-energy, including:

- the ability to obtain and maintain the listing of the Class A common stock on the Nasdaq following this offering;
- the ability to raise financing in the future and to comply with restrictive covenants related to indebtedness;
- the future financial performance of X-energy;
- anticipated trends, growth rates, and challenges in our business and in the markets in which we operate;
- the expectations and estimates presented regarding certain illustrative unit economics, including expectations with respect to costs, revenue and sources of revenue, and gross margins;
- the anticipated timeline for the completion of the design and target delivery estimates of the Xe-100 under the ARDP;
- X-energy's ability to maintain, protect, and enhance its intellectual property;
- X-energy's ability to retain or recruit, or to effect changes required in, its officers, key employees or directors following this offering;
- X-energy's ability to comply with laws and regulations applicable to its business; and
- expansion plans and opportunities.

These forward-looking statements are based on information available as of the date of this prospectus and X-energy's management teams' current expectations, forecasts and assumptions. They involve a number of judgments, known and unknown risks and uncertainties and other factors, many of which are outside the control X-energy and its directors, officers and affiliates. Accordingly, forward-looking statements should not be relied upon as representing X-energy's management teams' views as of any subsequent date. X-energy does not undertake any obligation to update, add or to otherwise correct any forward-looking statements contained in this prospectus to reflect events or circumstances after the date they were made, whether as a result of new information, future events, inaccuracies that become apparent after the date of this prospectus or otherwise, except as may be required under applicable securities laws.

You should not place undue reliance on these forward-looking statements in deciding how your vote should be cast or in voting your shares on the proposals set out in this prospectus. Should one or more of a number of known and unknown risks and uncertainties materialize, or should any of our assumptions prove incorrect, our actual results or performance may be materially different from those expressed or implied by these forward-looking statements. Some factors that could cause actual results to differ include, but are not limited to:

- changes in applicable laws or regulations;
- changes to applicable government policies, priorities, regulations, mandates and funding levels relating to X-energy's business with government entities;

- the impact to X-energy and its potential customers from changes in interest rates or inflation and rising costs, including commodity and labor costs;
- changes to the appropriations or funding available under the ARDP, including any failure by the U.S. government to appropriate additional funding to the ARDP, either to complete the existing award or in light of increased project costs and inflationary pressures;
- construction delays affecting the initial deployment of the Xe-100 under the ARDP;
- the ability to raise sufficient capital to fund X-energy's business plan, including limitations on the amount of capital raised in the initial public offering;
- the impact and potential extended duration of the current supply/demand imbalance in the market for high-assay low-enriched uranium;
- X-energy's business with various governmental entities being subject to the policies, priorities, regulations, mandates and funding levels of such governmental entities and being negatively or positively impacted by any change to such policies, priorities, regulations, mandates and funding levels;
- X-energy's and its commercial partners' ability to obtain regulatory approvals necessary to deploy small modular reactors in the U.S. and abroad in a timely way, or at all;
- X-energy's and its commercial partners' ability to deliver cost-competitive electricity from X-energy's small modular reactors and to deliver cost-competitive fuel for such reactors;
- the inclusion or exclusion of advanced nuclear technologies in regulatory schemes related to climate change and/or reductions in carbon emissions;
- costs related to the initial public offering;
- the ability to accurately assess costs associated with developing the Xe-100 and fuel fabrication facilities; and
- other risks and uncertainties indicated in this prospectus, including those set forth under the section of this prospectus entitled "*Risk Factors*" beginning on page [25](#).

USE OF PROCEEDS

We estimate that we will receive net proceeds of approximately \$ million (or approximately \$ million, if the underwriters exercise in full their over-allotment option) from the sale of shares of our common stock in this offering, assuming an initial public offering price of \$ per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us. An increase (decrease) of 1,000,000 shares from the expected number of shares of common stock to be sold by us in this offering, assuming no change in the assumed initial offering price per share, would increase (decrease) our net proceeds from this offering by \$ million. A \$1.00 increase (decrease) in the assumed initial public offering price would increase (decrease) the net proceeds to us from this offering by \$ million, assuming the number of shares of common stock offered by us, as set forth on the cover page of this prospectus, remains the same, and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us. We intend to use the proceeds from this offering to purchase newly issued Common Units from XERC. In the event the underwriters exercise their option to purchase additional shares of Class A common stock, we intend to use any proceeds from such exercise to purchase newly issued Common Units from XERC. The foregoing purchases of Common Units will be at a price per unit equal to the initial public offering price per share of Class A common stock in this offering, less the estimated underwriting discounts and commissions. XERC currently intends to use the net proceeds it receives from this offering for working capital and other general corporate purposes, which may include research and development and sales and marketing activities, general and administrative matters, and capital expenditures, including spending necessary for supply chain and procurement activities. We may also use a portion of the proceeds for future growth projects.

DIVIDEND POLICY

We currently expect to retain all future earnings for use in the operation and expansion of our business and have no current plans to pay dividends on our common stock. Holders of our Class B common stock are not entitled to participate in any dividends declared by our Board. The declaration, amount and payment of any future dividends will be at the sole discretion of our board of directors, and will depend on, among other things, general and economic conditions, our results of operations and financial condition, our available cash and current and anticipated cash needs, capital requirements, contractual, legal, tax and regulatory restrictions and implications on the payment of dividends by us to our stockholders or by our subsidiaries to us, including restrictions under our credit agreements and other indebtedness we may incur, and such other factors as our board of directors may deem relevant. If we elect to pay such dividends in the future, we may reduce or discontinue entirely the payment of such dividends at any time. X-Energy, Inc. is a holding company and its operations are conducted through its wholly owned subsidiaries. In the event that we do pay a dividend, we intend to cause our operating subsidiaries to make distributions to us in an amount sufficient to cover such dividend. Any additional financing arrangement we enter into in the future may include restrictive covenants that limit our subsidiaries' ability to pay dividends to us. In addition, Delaware law may impose requirements that may restrict our ability to pay dividends to holders of our common stock.

Immediately following this offering, we will be a holding company, and our principal asset will be the Common Units we purchase from XERC. If we decide to pay a dividend in the future, we would need to cause XERC to make distributions to us in an amount sufficient to cover such dividend. If XERC makes such distributions to us, the other holders of Common Units will be entitled to receive pro rata distributions. See "Risk Factors — Risks Related to Our Capital Structure — Our principal asset after the completion of this offering will be our interest in XERC, and, as a result, we will depend on distributions from XERC to pay our taxes and expenses (including payments under the Tax Receivable Agreement) and pay dividends. XERC's ability to make such distributions may be subject to various limitations and restrictions."

CAPITALIZATION

The following table sets forth the cash and cash equivalents and capitalization as of December 31, 2025 of X-Energy Reactor Company, LLC on an actual basis and of X-Energy, Inc. on a pro forma basis to reflect:

- the Transactions; and
- the sale of shares of our common stock offered by us in this offering at an assumed initial public offering price of \$ per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, and the application of the net proceeds to us therefrom as described under “*Use of Proceeds*.”

You should read this table in conjunction with the information contained in “*Use of Proceeds*,” “*Summary Historical and Pro Forma Financial Information of X-energy*,” and “*Management’s Discussion and Analysis of Financial Condition and Results of Operations of X-energy*” as well as our audited consolidated financial statements and related notes, each included elsewhere in this prospectus.

	As of December 31, 2025	
	X-Energy Reactor Company, LLC	X-Energy, Inc.
	Actual	Pro Forma
Cash and cash equivalents	\$ 458,932	\$
Mezzanine Equity:		
Class A Common Units	1,800	
Class B Common Units	93,353	
Series A Redeemable Convertible Preferred Units	218,408	
Series A-1 Redeemable Convertible Preferred Units	21,477	
Series B Redeemable Convertible Preferred Units	101,382	
Series C Redeemable Convertible Preferred Units	265,797	
Series C-1 Redeemable Convertible Preferred Units	686,715	
Series D Redeemable Convertible Preferred Units	677,623	
Total mezzanine equity	2,066,555	
Members’ Deficit:		
Class A common stock	—	
Class B common stock	—	
Additional paid-in-capital	12,167	
Accumulated other comprehensive loss	(117)	
Accumulated deficit	(1,236,345)	
Total members’ deficit / stockholders’ equity (deficit) attributable to X-Energy, Inc.	(1,224,295)	
Non-controlling interest	—	
Total capitalization	842,260	

A \$1.00 increase (decrease) in the assumed initial public offering price of \$ per share of Class A common stock, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, would increase (decrease) the net proceeds that we receive in this offering and each of total stockholders’ equity and total capitalization by approximately \$, assuming the number of shares of Class A common stock offered by us remains the same as set forth on the cover page of this prospectus and after deducting the underwriting discounts and commissions and estimated offering expenses payable by us. An increase (decrease) of 1,000,000 shares in the expected number of shares of Class A common stock to be sold by us in this offering, assuming no change in the assumed initial public offering price, would increase

(decrease) our net proceeds from this offering and each of total stockholders' equity and total capitalization by approximately \$. The pro forma column reflects the issuance of shares of common stock of X-Energy, Inc. in connection with the contribution of X-Energy Reactor Company, LLC by its unitholders and related reorganization transactions and related cancellation of all outstanding members' equity at X-Energy Reactor Company, LLC in connection with the offering.

The table above does not include:

- shares of Class A common stock reserved for issuance upon redemption or exchange of Common Units that will be held by the Continuing Equity Owners on a one-for-one basis;
- shares of Class A common stock reserved for future issuance under the 2026 Plan, which will become effective upon the effectiveness of the registration statement of which this prospectus forms a part (which number includes shares of our Class A common stock subject to restricted stock unit awards and stock options that will be granted to certain of our employees and directors pursuant to our 2026 Plan in connection with the consummation of this offering, based upon an assumed initial public offering price of \$ per share (the midpoint of the estimated price range set forth on the cover page of this prospectus)); and
- shares of Class A common stock reserved for future issuance under the ESPP, which will become effective upon the effectiveness of the registration statement of which this prospectus forms a part.

DILUTION

The Continuing Equity Owners will own Common Units after the Transactions. Because the Continuing Equity Owners will not have any right to receive distributions from X-Energy, Inc. with regards to their Common Units, we have presented dilution in pro forma net tangible book value per share both before and after this offering assuming that all of the holders of Common Units (other than X-Energy, Inc.) had their Common Units redeemed or exchanged for newly issued shares of Class A common stock on a one-for-one basis (rather than for cash) and the transfer to the Company and cancellation for no consideration of all of their shares of Class B common stock common stock (which are not entitled to receive distributions or dividends, whether cash or stock from X-Energy, Inc.) in order to more meaningfully present the dilutive impact on the investors in this offering. We refer to the assumed redemption or exchange of all Common Units for shares of Class A common stock as described in the previous sentence as the Assumed Redemption.

Dilution is the amount by which the offering price paid by the investors of the Class A common stock in this offering exceeds the pro forma net tangible book value per share of Class A common stock after the offering. XERC's pro forma net tangible book value (deficit) as of December 31, 2025, prior to this offering and after giving effect to the other Transactions, and the Assumed Redemption was \$ million. Pro forma net tangible book value per share prior to this offering is determined by subtracting our total liabilities from the total book value of our tangible assets and dividing the difference by the number of shares of Class A common stock deemed to be outstanding after giving effect to the Reorganization Transactions and Assumed Redemption.

If you invest in our Class A common stock in this offering, your ownership interest in us will be diluted to the extent of the difference between the initial public offering price per share of our Class A common stock and the pro forma net tangible book value (deficit) per share of our Class A common stock after giving effect to this offering. Dilution results from the fact that the per share offering price of the Class A common stock is substantially in excess of the pro forma net tangible book value per share attributable to our existing owners.

After giving effect to (i) our sale of shares of Class A common stock in this offering at an assumed initial public offering price of \$ per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus, and (ii) the use of proceeds therefrom, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma net tangible book value (deficit) as of December 31, 2025 would have been \$ million, or \$ per share of our Class A common stock. This amount represents an immediate increase in pro forma net tangible book value (deficit) of \$ per share of Class A common stock to our existing owners and an immediate and substantial dilution in pro forma net tangible book value (deficit) of \$ per share of Class A common stock to new investors purchasing shares in this offering.

The following table illustrates this dilution on a per share of common stock basis assuming the underwriters do not exercise their option to purchase additional shares of Class A common stock:

Assumed initial public offering price per share of Class A common stock	\$
Pro forma net tangible book value (deficit) per share of Class A common stock as of December 31, 2025	\$
Increase in pro forma net tangible book value per share of Class A common stock attributable to investors in this offering	\$
Pro forma net tangible book value (deficit) per share of Class A common stock after giving effect to this offering	\$
Dilution in pro forma net tangible book value per share of Class A common stock to investors in this offering	\$

Dilution is determined by subtracting pro forma net tangible book value (deficit) per share of Class A common stock after the offering from the initial public offering price per share of Class A common stock.

Each \$1.00 increase or decrease in the assumed initial public offering price per share of Class A common stock would increase or decrease, as applicable, the pro forma net tangible book value by \$ per share and the dilution to new investors in the offering by \$ per share, assuming that the number of shares offered

in this offering, as set forth on the cover page of this prospectus, remains the same. The pro forma information discussed above is for illustrative purposes only. Our net tangible book value (deficit) following the completion of the offering is subject to adjustment based on the actual offering price of our common stock and other terms of this offering determined at pricing.

The following table summarizes, on the same pro forma basis as of _____, 2026, the total number of shares of Class A common stock purchased from us, the total cash consideration paid to us and the average price per share of Class A common stock paid by our existing owners and by new investors purchasing shares of Class A common stock in this offering.

	Shares Purchased		Total Consideration		Average Price Per Share
	Number	Percent	Amount	Percent	
(in thousands)					
Existing owners		%	\$	%	\$
New investors in this offering		%	\$	%	
Total		%	\$	%	\$

If the underwriters were to exercise in full their option to purchase additional shares of our Class A common stock from us, the percentage of shares of our Class A common stock held by existing owners would be _____%, and the percentage of shares of our common stock held by new investors in this offering would be _____%.

UNAUDITED PRO FORMA CONDENSED CONSOLIDATED FINANCIAL INFORMATION

Defined terms included below will have the same meaning as terms defined and included elsewhere in this prospectus.

The unaudited pro forma condensed consolidated financial information has been prepared in accordance with Article 11 of Regulation S-X under the Securities Act, as amended. The unaudited pro forma condensed consolidated financial information is presented to provide relevant information necessary for an understanding of X-energy upon consummation of the Company's initial public offering after giving pro forma effect to the following (collectively, the "pro forma events"):

- the amendment and cashless exercise of the 2024 Warrants in exchange for Series C-1 Preferred Units, as described in the subsequent event footnote to the Company's historical financial statements as of and for the year ended December 31, 2025, which is presented below within Other Material Adjustments;
- the Reorganization Transactions;
- the impacts associated with the Tax Receivable Agreement, as described under "Certain Relationships and Related Party Transactions — Tax Receivable Agreement;" and
- this offering and the application of the estimated net proceeds from this offering as described under "Use of Proceeds."

The unaudited pro forma condensed consolidated balance sheet as of December 31, 2025 gives effect to the pro forma events as if they had been consummated on December 31, 2025.

The unaudited pro forma condensed consolidated statement of operations for the year ended December 31, 2025 gives effect to the pro forma events as if they had been consummated on January 1, 2025.

We have derived the unaudited pro forma condensed consolidated balance sheet and the unaudited pro forma condensed consolidated statement of operations from our consolidated financial statements as of and for the year ended December 31, 2025, which are included elsewhere in this prospectus. The foregoing historical financial statements have been prepared in accordance with GAAP.

Except as otherwise indicated, the unaudited pro forma condensed consolidated financial information presented assumes no exercise by the underwriters of their over-allotment option to purchase additional shares.

As a public company, we will be implementing additional procedures and processes for the purpose of addressing the standards and requirements applicable to public companies. We expect to incur additional annual expenses related to these additional procedures and processes and, among other things, additional directors' and officers' liability insurance, director fees, additional expenses associated with complying with the reporting requirements of the SEC, transfer agent fees, costs relating to additional accounting, legal, and administrative personnel, increased auditing, tax, and legal fees, stock exchange listing fees, and other public company expenses. We have not included any pro forma adjustments relating to these costs in the information below.

The pro forma adjustments are based on available information and upon assumptions that management believes are reasonable in order to reflect, on a pro forma basis, the effect of the pro forma events on our historical financial information. The adjustments are described in the notes to the unaudited pro forma condensed consolidated balance sheet and the unaudited pro forma condensed consolidated statement of operations. The unaudited pro forma condensed consolidated financial information is presented for illustrative purposes only and do not purport to represent the results of operations or the financial position that would actually have occurred had the pro forma events been consummated on the dates assumed or to project the Company's results of operations or financial position for any future date or period.

The unaudited pro forma condensed consolidated financial information should also be read together with "Basis of Presentation — Organizational Structure," "Capitalization," "Management's Discussion and Analysis of Financial Condition and Results of Operations of X-energy," and our financial statements and accompanying notes included elsewhere in this prospectus.

Offering

The Company is offering _____ million shares of common stock in this offering at an assumed initial public offering price of \$ _____ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus.

Reorganization Transactions

Reorganization Transactions refer to the organizational transactions immediately before the Offering by which (i) the eighth amendment and restatement of the XERC LLC Agreement to, among other things, effect a recapitalization in which all existing ownership interests in XERC are converted into one class of Common Units; (ii) the amendment and restatement of the X-Energy, Inc. certificate of formation to, among other things, authorize two classes of common stock; (iii) X-Energy, Inc.'s designation as managing member of XERC; (iv) X-Energy, Inc.'s acquisition of Common Units held by the Blocker Companies pursuant to the Blocker Mergers; (v) X-Energy, Inc.'s acquisition of all of the Common Units held by the Former Equity Owners (except for Management LLC, who is addressed in clauses (vi) and (vii), below) and a portion of the Common Units held by the Continuing Equity Owners, in each case, in exchange for an equal number of shares of Class A common stock; (vi) the second amendment and restatement of the Management LLC Agreement to, among other things, effect a recapitalization in which all existing ownership interests in Management LLC are converted into one class of Common Units; (vii) Management LLC's contribution of all of its Common Units of XERC to X-Energy, Inc. in exchange for an equal number of shares of Class A common stock, which shares shall remain subject to the same vesting conditions applicable to the corresponding Common Units immediately prior to such contribution and (viii) X-Energy, Inc.'s issuance to the Continuing Equity Owners of a number of shares of Class B common stock (equal to the number of Common Units held by the Continuing Equity Owners) in exchange for a nominal cash contribution made by such Continuing Equity Owners, resulting in a combined company organized in an Up-C in which substantially all of the assets and the business of the company will be held by X-Energy Reactor Company, LLC, as more fully described elsewhere in this prospectus.

Following the consummation of this offering, Continuing Equity Owners may redeem their Common Units for cash or Class A stock on a one-for-one basis.

Tax Receivable Agreement

Upon closing, we will enter into a Tax Receivable Agreement with XERC and the TRA Holders. Pursuant to the Tax Receivable Agreement, we will generally be required to pay the TRA Holders 85% of the amount of the cash tax savings, if any, in U.S. federal, state, and local taxes that are based on, or measured with respect to, net income or profits, and any interest related thereto that we realize, or are deemed to realize, as a result of the tax attributes subject to the Tax Receivable Agreement, including:

- Basis Adjustments;
- Existing Basis;
- Blocker Tax Attributes; and
- Interest Deductions.

Due to the uncertainty as to the amount and timing of future exchanges of Common Units by the TRA Holders and as to the price of our Class A common stock at the time of any such exchanges, the unaudited pro forma condensed consolidated financial information does not assume that any Continuing Equity Owners have exchanged Common Units that would create an obligation under the Tax Receivable Agreement. Therefore, no increases in tax basis in the XERC Group's assets or other tax benefits that may be realized under the Tax Receivable Agreement with respect to the Continuing Equity Owners redemption right, have been reflected in the unaudited pro forma condensed consolidated financial information. Future exchanges will result in incremental tax attributes and potential cash tax savings for us. Depending on our assessment of the realizability of such tax attributes, the arising Tax Receivable Agreement liability will be recorded at the exchange date against equity, or at a later point through income.

However, if the Continuing Equity Owners as TRA Holders were to exchange or sell us all of their Common Units, we would recognize an incremental deferred tax asset of approximately \$ _____ million and an incremental liability under the Tax Receivable Agreement of approximately \$ _____ million, assuming:

(i) all exchanges or purchases occurred on the same day; (ii) a price of \$ per share; (iii) a constant corporate tax rate; (iv) that we will have sufficient taxable income to fully utilize the tax benefits; and (v) no material changes in tax law. These amounts are estimates and have been prepared for illustrative purposes only. The actual amount of deferred tax assets and related liabilities that we will recognize will differ based on, among other things, the timing of the exchanges, the price per share of our Class A common stock at the time of the exchange, and the tax rates then in effect and certain change of control, Material Breach or early termination events occurring.

The term of the Tax Receivable Agreement will continue until all such tax benefits have been utilized or expired unless we exercise our right to terminate the Tax Receivable Agreement, in which case all obligations under the Tax Receivable Agreement will be accelerated and we will be required to make a payment to the TRA Holders in an amount equal to the present value of future payments under the Tax Receivable Agreement. This payment would be based on certain assumptions, including that we would have sufficient taxable income to fully utilize the benefits arising from the tax attributes subject to the Tax Receivable Agreement. Importantly, upon a change of control, the Tax Receivable Agreement will not terminate nor will a single, accelerated lump sum payment be due. If there is a Material Breach under the Tax Receivable Agreement, or we experience a change of control (as defined in the Tax Receivable Agreement), our (or our successor's) future payments under the Tax Receivable Agreement for each taxable year after any such event would be calculated utilizing certain valuation assumptions, including that (i) in the case of a change of control, any Common Units that have not been exchanged are deemed exchanged for the market value of the shares of our Class A common stock at the time of the change of control and (ii) in either case, X-Energy, Inc. will have sufficient taxable income to fully utilize the tax attributes covered by the Tax Receivable Agreement.

Unaudited Pro Forma Condensed Consolidated Balance Sheet
As of December 31, 2025
(in thousands)

	X-Energy Reactor Company, LLC	Other Material Transactions	Reorganization Transaction Adjustments	Subtotal	Offering Transaction Adjustments	X-Energy, Inc. Pro Forma
ASSETS						
Current assets						
Cash and cash equivalents	\$ 458,932	\$	\$	\$	\$ (E)	\$ (F)
Short-term investments	304,908					
Accounts receivable	32,940					
Unbilled receivables and contract assets	41,529					
Prepaid and other current assets	11,491					(F)
Due from related parties	4,580					
Total current assets	854,380	—				
Long-term investments	261,458					
Restricted cash	3,698					
Property and equipment, net	50,105					(G)
Operating lease right-of-use-assets	22,696					
Other long-term assets	18,934					
Total assets	\$ 1,211,271	\$ —	\$	\$	\$	\$
LIABILITIES, MEZZANINE EQUITY, AND MEMBERS' DEFICIT						
Current liabilities:						
Accounts payable	\$ 3,363	\$	\$	\$		\$
Accrued liabilities	51,217					(F)
Due to related parties	4,225					
Total current liabilities	58,805	—				
Long-term deferred revenue	15,153					
Long-term operating lease liabilities	20,887					
Warrant liabilities	274,166	(263,390)	(A)	(C)		
Total liabilities	\$ 369,011	\$ (263,390)	\$	\$	\$	\$
Mezzanine equity						
Class A Common Units	1,800					(B)
Class B Common Units	93,353					(B)
Series A redeemable convertible preferred units	218,408					(B)
Series A-1 redeemable convertible preferred units	21,477					(B)
Series B redeemable convertible preferred units	101,382					(B)
Series C redeemable convertible preferred units	265,797					(B)
Series C-1 redeemable convertible preferred units	686,715	263,390	(A)			(B)
Series D redeemable convertible preferred units	677,623					(B)
Total mezzanine equity	\$ 2,066,555	\$ 263,390	\$	\$	\$	\$
Class A Common Stock	—					(B)
Class B Common Stock	—					(B)
Accumulated deficit	(1,236,345)					(G)
Accumulated other comprehensive income	(117)					
Additional paid-in capital	12,167					
				(B)		(E)
				(C)		(F)
				(D)		(G)
						(D)
Members' deficit / Total shareholders' equity (deficit) attributable to X-energy	(1,224,295)	—				
Noncontrolling Interest	—			(D)		(D)
Total shareholders' equity / members' deficit	(1,224,295)	—				
Total liabilities and shareholders' equity / members' deficit	\$ 1,211,271	\$ —	\$	\$	\$	\$

Unaudited Pro Forma Consolidated Statement of Operations
For the Year Ended December 31, 2025
(in thousands, except share and per share amounts)

	XERC	Other Material Adjustments	Transaction Accounting Adjustments – Reorganization	Subtotal	Transaction Accounting Adjustments – Offering	X-energy Pro Forma
Services revenue	\$ 94,260	\$	\$	\$	\$	\$
Grant income	14,838					
Total revenues and grant income	109,098	—				
Operating expenses						
Direct costs	161,367				(DD)	
					(EE)	
Selling, general and administrative	116,318				(DD)	
					(EE)	
Research and development	1,708					
Total operating expenses	279,393	—				
Operating loss	(170,295)	—				
Other income (expense)						
Interest expense	(475)					
Interest income	20,293					
Other income (expense), net	(239,301)	217,786	(AA)			(CC)
Total other income (expense), net	(219,483)	217,786				
Net loss	(389,778)	217,786				
Net loss attributable to noncontrolling interest	—			(BB)		(BB)
Net loss attributable to common shareholders	<u>\$(389,778)</u>	<u>\$217,786</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>
Pro forma net income per share:						
Basic and diluted						\$
Weighted average shares outstanding						
Basic and diluted						

Please refer to the notes to the unaudited pro forma condensed consolidated financial information.

Notes to Unaudited Pro Forma Condensed Consolidated Financial Information

Note 1 Basis of Presentation

The unaudited pro forma condensed consolidated financial information has been prepared in accordance with Article 11 of Regulation S-X and presents the pro forma financial condition and results of operations of the Company based upon the historical financial information after giving effect to the pro forma events and related adjustments set forth in the notes to the unaudited pro forma condensed consolidated financial information.

The unaudited pro forma condensed consolidated financial information does not reflect any management adjustments for expected effects of the pro forma events.

The unaudited pro forma condensed consolidated balance sheet as of December 31, 2025, gives effect to the pro forma events as if they had occurred on December 31, 2025. The unaudited pro forma condensed consolidated statement of operations for the year ended of December 31, 2025, gives effect to the pro forma events as if they had occurred on January 1, 2025.

The unaudited pro forma condensed consolidated financial information does not give effect to any income tax benefit or expense associated with the pro forma adjustments due to the history of losses in the current and previous periods and full valuation allowance on our deferred tax assets.

Note 2 Adjustments to the Unaudited Pro Forma Condensed Consolidated Balance Sheet

The following adjustments were made related to the unaudited pro forma condensed consolidated balance sheet as of December 31, 2025:

- A. Reflects the cashless exercise of the 2024 Warrants in exchange for Series C-1 Preferred Units, which occurred in March 2026.
- B. Immediately preceding the closing, as part of the Reorganization Transactions, XERC's legacy Series A redeemable convertible preferred units, Series A-1 redeemable convertible preferred units, Series B redeemable convertible preferred units, Series C redeemable convertible preferred units, Series C-1 redeemable convertible preferred units, and Series D redeemable convertible preferred units will be converted into Class A common stock, equal to the number of Common Units retained by each, and reclassified as permanent equity.

As a result of the Reorganization Transactions, the operating agreement of XERC will be amended and restated to, among other things, modify XERC's capital structure by reclassifying each of the outstanding units in XERC into a single class of LLC Units, the Common Units.

This adjustment further reflects the acquisition of a number of shares of Class B common stock by the Continuing Equity Holders, equal to the number of Common Units retained by each, for nominal consideration.

- C. Represents the elimination of XERC's legacy warrants, which were subject to cashless exercise immediately prior to closing. The issuance of shares related to this instrument are reflected in adjustment (B).
- D. Immediately following closing, the economic interests held by the noncontrolling interest (comprising Common Units issued at closing to Continuing Equity Owners) will be approximately %. The following table shows the economic interest of XERC immediately following the offering:

	Reorg		IPO	
	Units	%	Units	%
Class A Common Stock		%		%
Class B Common Stock		%		%
Total Common Stock				

- E. Reflects the effect on cash of the receipt of net offering proceeds to us of \$ million, based on the sale by the Company of million shares of Class A common stock at an assumed initial public offering price of \$ per share (the midpoint of the price range set forth on the cover of this prospectus), after deducting the estimated underwriting discounts and commissions.
- F. Reflects estimated transaction costs of \$ million, including certain legal, accounting, and other related costs. Of this amount, \$ million was included in accrued liabilities and \$ million was included in other assets, respectively, as of December 31, 2025. The amount related to other assets had already been paid as of the balance sheet date, and the remaining \$ million is reflected as a reduction in cash.
- G. Reflects the expense associated with the vested portion of the IPO Equity Awards, which are expected to be issued at closing.

Note 3 Adjustments to the Unaudited Pro Forma Condensed Consolidated Statement of Operations

The following adjustments were made related to the unaudited pro forma condensed consolidated statements of operations for the years ended December 31, 2025:

- AA. Represents the elimination of the income statement impact related to the change in fair value of XERC's 2024 Warrants. The elimination of these warrants, which do not survive the offering, is reflected at adjustment (A).
- BB. Represents net income/(loss) attributable to the noncontrolling interest based on the ownership structure at closing, as noted at adjustment (D).
- CC. Represents the elimination of the income statement impact related to the change in fair value of XERC's legacy warrants. The elimination of these warrants, which do not survive the offering, is reflected at adjustment (C).
- DD. Represents recurring stock-based compensation expense associated with the IPO Equity Awards, which are expected to be issued at closing.
- EE. Represents stock-based compensation expense associated with the vested portion of IPO Equity Awards, which are expected to be issued at closing.

Note 4 Pro Forma Income/Loss Per Share

Represents the pro forma income/(loss) per share calculated using the weighted average shares outstanding as a result of the pro forma events, assuming the shares were outstanding since January 1, 2025. As the pro forma events are being reflected as if they had occurred at the beginning of the periods presented, the calculation of weighted average shares outstanding for basic and diluted pro forma income/(loss) per share assumes that the shares issuable relating to the pro forma events have been outstanding for the entire periods presented.

	Year Ended December 31, 2025
Pro forma basic and diluted income/loss per share	
Numerator:	
Pro forma net income/(loss)	\$
Less: Pro forma net income/(loss) attributable to noncontrolling interests	
Pro forma net income/(loss) attributable to common stockholders – basic and diluted	\$
Denominator:	
Pro forma weighted average shares outstanding of Class A common stock – basic and diluted	
Pro forma basic and diluted income/(loss) per share, Class A common stock⁽¹⁾	\$

- (1) Pro forma basic and diluted income/(loss) per share of Class B common stock is not presented as these shares have no economic rights.

The computation of pro forma diluted loss per share does not assume conversion, exercise or contingent issuance of securities as their inclusion in the pro forma loss per share calculation would have been antidilutive.

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS OF X-ENERGY

The following discussion and analysis of X-energy's financial condition and results of operations should be read with X-energy's audited consolidated financial statements and notes thereto included elsewhere in this prospectus. Certain of the information contained in this discussion and analysis or set forth elsewhere in this prospectus, including information with respect to plans and strategy for X-energy's business, includes forward-looking statements that involve risks and uncertainties. As a result of many factors, including those factors set forth in the section "Risk Factors," X-energy's actual results could differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis. Refer to the section entitled "Risk Factors" to gain an understanding of the important factors that could cause actual results to differ materially from X-energy's forward-looking statements. For more information, see the section entitled "Cautionary Note Regarding Forward-Looking Statements."

Unless otherwise indicated or the context otherwise requires, references in this section to the "Company," "we," "us," "X-energy," or "our" refer to the business of XERC for the period prior to the initial offering and X-Energy, Inc. and its subsidiaries for all periods after the initial offering.

Overview of Our Business and History

X-energy is a leading designer of advanced nuclear reactor technology (commonly referred to as small modular reactors, "SMRs") and manufacturer of advanced nuclear fuels. We believe these scalable, power generation technologies help satisfy historically unprecedented electricity demand growth, driven by the development of AI and associated data center infrastructure. Total demand for new electricity generation is expected to increase globally by 7,626 TWh from 2023 to 2030 and the challenges associated with meeting this demand have led policymakers and industry leaders to recognize nuclear energy, particularly advanced nuclear, as a key component to address this need.

Founded in 2009 by Dr. Kamal "Kam" Ghaffarian to bring clean, safe, secure and affordable technology to market, X-energy is seeking to redefine the energy industry through its flagship product, the Xe-100, an advanced small modular HTGR, in development for nearly a decade. The Xe-100 reactor is designed to generate 80 megawatts of electric power or 200 megawatts of thermal output (heat), or a combination thereof. This reactor technology builds on more than 50 years of research and development by the global nuclear industry and the operating experience of previous HTGRs including those at Peach Bottom in the U.S., and Dragon in the U.K. in the 1960s-1970s, and more recently with China's ongoing deployments of HTGRs in the 21st century.

The Xe-100 has several technological attributes that we believe make it advantaged compared to other sources of baseload generation. These include advanced safety features, virtually no direct GHG emissions during generation, high thermal output, load-following capabilities and modularity, all of which allow X-energy to more specifically meet a customer's power and/or industrial heat needs. X-energy's simple Xe-100 design directly translates into simplicity of project delivery through reduced supply chain complexity and labor intensity during construction, which we believe will lead to lower cost and faster deployment timelines when compared with conventional nuclear energy sources. X-energy has optimized the deployment of its Xe-100 into a four-reactor format that outputs 320 MWe (or 800 MWt). By deploying four independent reactor modules instead of a single unit, this optimized four-reactor configuration inherently delivers the high levels of reliability and redundancy required for both AI and industrial heat applications.

X-energy's reactors use a TRISO coated particle fuel in the form of a spherical 'pebble', called TRISO-X fuel. This pebble fuel consists of HALEU fuel kernels individually encapsulated in layers of silicon carbide and pyrolytic carbon, forming miniature containment systems that trap fission products. These particles are then embedded in a graphite matrix to make fuel pebbles that possess exceptional safety margins and compacts, enabling operations at very high temperatures. The HALEU fuel used in our TRISO-X pebble fuel is enriched to 15.5%, a higher energy density form than the less than 5% LEU fuel used in conventional nuclear reactors. Our TRISO-X fuel will be produced at our fuel fabrication facility in Oak Ridge, Tennessee. The first facility, known as TX-1, began construction in October 2024 and is expected to be completed by the first half of 2028. Upon completion, it is expected to be North America's first purpose-built commercial advanced nuclear fuel

fabrication facility. The TX-1 facility will have sufficient production capacity to support the fuel needs of the first 11 Xe-100 reactors at steady state operations.

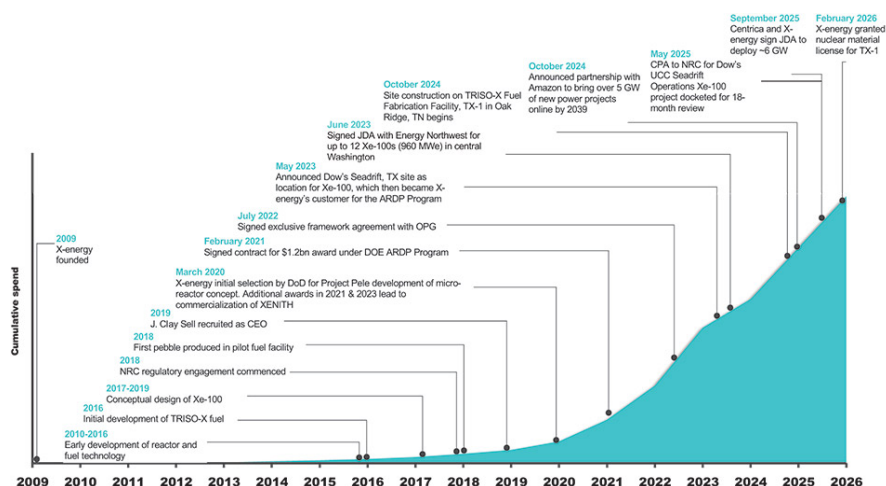
In addition to its technology leadership, X-energy has three high-quality customers in Dow, Amazon, and Centrica, who we expect will underpin the deployment of the initial fleets of Xe-100 reactors. Taken together, assuming each customer exercises its contingent rights in full, these three customers provide us with a more than 11 gigawatts electric (“GWe”), 144 reactor pipeline across the U.S. and the U.K. with advanced development efforts already underway on the first Dow project at its Seadrift Operations site in Texas and the first Amazon project in connection with Energy Northwest.

X-energy maintains a strong relationship with the DOE and in December 2020 was awarded an initial \$1.2 billion as part of its selection as one of two awardees in the ARDP, the most substantial federal commitment to deploying advanced nuclear technology. The cooperative agreement for the program, signed in February 2021, provides 50/50 cost share of \$2.4 billion of eligible costs (\$1.2 billion reimbursement) through 2027, allowing X-energy to continue work toward design, licensing, commercialization and construction of its first-of-a-kind commercial advanced nuclear plant and commercial TRISO-X fuel fabrication facility, while benefiting from decades of nuclear experience and knowledge within the DOE.

As of December 31, 2025, we have been reimbursed approximately \$438 million in funding under the ARDP. We submit our budgets through an ongoing “budget period” basis tied to project milestones under the ARDP Agreement, and our current budget covers a budget period that began in March of 2025 and extends through August 2026. We submit a Continuation Application to the DOE to extend funding into subsequent periods. Extensions beyond the current budget period are subject to DOE discretion and approval. Under the terms of the ARDP Agreement that rely on the Office of Management and Budget (OMB) guidance, the total extension of the award may not exceed three years (for a total period of performance of 10 years). Any additional extension would require an approval within DOE above the level of the Contracting Officer. If we are unable to obtain extensions and incur eligible costs beyond the currently approved period of performance, we would forgo reimbursement for such costs and may face de-obligation of unobligated funds at closeout. There can be no assurance that we will receive additional ARDP funding beyond the current budget period or that extensions will be granted.

Our organizational structure following the offering and the Reorganization Transactions is commonly referred to as an umbrella partnership-C corporation (or “Up-C”) structure. Pursuant to this structure, following this offering we will hold a number of Common Units equal to the number of our issued and outstanding shares of Class A common stock, and holders of Common Units (each, an “Continuing Equity Owner”) (other than us) will hold a number of Common Units equal to the number of our issued and outstanding shares of Class B common stock. The Up-C structure was selected in order to (i) provide our Continuing Equity Owners with an option to continue to hold their economic ownership interests in our business in “pass-through” form for U.S. federal income tax purposes through their ownership of Common Units and (ii) potentially allow our Continuing Equity Owners and us to benefit from certain net cash tax savings that we might realize in the future, as more fully described in the subsection titled “Certain Relationships and Related Party Transactions — Tax Receivable Agreement.”

Key Milestones that Transformed Our Business



- **2009:** X-energy founded by Kam Ghaffarian to bring safe, secure, clean and affordable technologies to the global marketplace.
- **2010–2011:** Early studies working with a small team of engineers and consultants on nuclear technologies.
- **2012–2014:** Onboarding expertise on HTGRs from South Africa's Pebble-bed Modular Reactor program: Dr. Martin van Staden and Dr. Eben Mulder.
- **2015–2016:** Conducted multi-dimensional trade studies on market needs, reactor size, and fuel form to refine early reactor concepts.
- **2016:** Initial development of TRISO-X pebble fuel at Oak Ridge Pilot Facility.
- **2017–2019:** Conceptual design of the Xe-100 after years of research & development.
- **2018:** NRC regulatory engagement commenced.
- **2018:** First pebble produced on commercial-scale equipment in pilot fuel facility at Oak Ridge National Lab in Tennessee.
- **2019:** J. Clay Sell appointed as CEO.
- **March 2020:** X-energy initial selection by the DOD for Project Pele development of micro-reactor concept. Across three awards (2020: \$14.3 million, 2021: \$28.7 million, 2023: \$17.5 million), X-energy received approximately \$60.0 million from the DOD which eventually lead to commercialization of XENITH microreactor. As of the date of this prospectus, the period of performance for the XENITH microreactor has expired, but the period of performance for Project Pele remains active.
- **February 2021:** Signed contract for initial \$1.2 billion award won under the DOE's ARDP.
- **July 2022:** Signed exclusive framework agreement with Ontario Power Generation for Xe-100 deployment in Canada. OPG also became an equity investor in this year.
- **May 2023:** Announced Dow's Seadrift, Texas site as location for Xe-100. Dow becomes customer for ARDP from the DOE.
- **June 2023:** Signed JDA with Energy Northwest for up to 12 Xe-100s (960 MWe) in central Washington.
- **October 2024:** Construction of TX-1 site in Oak Ridge, Tennessee commenced. Vertical construction began in **September 2025**.

- **October 2024:** Announced engagement with Amazon for options to bring over 5 GWe of new power projects online by 2039. First Amazon project identified as Energy Northwest site.
- **May 2025:** Construction permit application to NRC for Dow's UCC Seadrift Xe-100 project docketed for 18 month review timeline after March 2025 submission.
- **September 2025:** Centrica and X-energy sign JDA to deploy 6 GWe of new nuclear capacity in the U.K.
- **February 2026:** TRISO-X receives NRC Special Nuclear Material License for advanced fuel fabrication facility.

Our Business Model

We have an intellectual property-driven business model based on our reactor and fuel. We expect to derive revenues from technology licensing, services and fuel operations that span the development and operation of the reactors.

- **Reactors:** The revenue stream from reactors includes technology fees for the use of our intellectual property of the Xe-100 technology. We will not own and operate the facilities themselves, which we believe significantly reduces the amount of capital needed to operate our business.

We anticipate offering site-specific engineering and site characterization, project planning, assembly coordination, construction support, regulatory support, procurement support and long-term services to customers. Utilizing our knowledge and expertise in licensing, construction, procurement and other processes, we plan to provide customers with a full suite of value-added services during development of the nuclear power facilities. At the same time, we expect to generate long-term recurring revenue from services such as the ongoing maintenance and operator training through the anticipated 60-year life of a facility.

- **Fuel:** We intend to provide manufacturing services to customers, including producing an initial fuel load of both TRISO-X fuel and an LEU-based TRISO fuel at commissioning of a plant. We expect to generate additional long-term recurring revenue from our own proprietary TRISO-X fuel that is required to refuel plants during the anticipated 60-year life of each facility. We expect to bear limited inventory risks related to uranium or enriched uranium fuel feedstock. We intend to provide only fabrication supply services (e.g., transformation of HALEU into the final TRISO-X fuel form) for customers and assume limited risks associated with holding the uranium or enriched uranium fuel feedstock. Additionally, we will not have any responsibility for spent fuel management beyond the design of such facilities to adequately handle spent fuel during the life of the plant. During operations, spent fuel remains the responsibility of the plant operator. Thereafter, permanent spent fuel management remains the responsibility of the DOE.

Factors Affecting Our Performance

The growth and future success of our business depends on many factors. While each of these factors present significant opportunities for our business, they also pose important challenges that we must successfully address in order to sustain our growth, improve our results of operations and achieve and maintain our long-term profitability.

Our ability to commence and expand commercial operations

Our business model is dependent on our commencing and expanding commercial operations. We currently anticipate initial customer deliveries to achieve mechanical completion in the early 2030s, which we expect to take place 1-2 years ahead of commencement of operations. Commencement of nuclear construction for these projects is dependent upon finalizing and achieving design maturity, producing fuel for customers, and supporting our customers in pursuing necessary permits and licenses from the NRC. Our team of engineers, scientists, and other staff is highly motivated and committed to accomplishing these challenges. Failure to complete any one of these tasks in a timely manner could result in us being unable to begin production in the anticipated timeframe.

We are developing a global network of potential customers and supply chain partners that we expect will play an integral role in bringing our technology to market. In the near term, TRISO-X and its customers will

depend on the U.S. government for access to HALEU given the current inability to access global markets. The government and commercial enrichers are developing enrichment capabilities for future supplies. Additionally, the imposition of tariffs and impacts of inflation on raw materials or supplied components for our reactors could have a material adverse effect on our operations. Management has considered the potential economic impact of these tariffs as they relate to our suppliers and raw material needs, and believes our timeline to expand commercial operations will soften the impact these tariffs may have to the overall cost of our reactors. To the extent the U.S. government restricts our access to HALEU or otherwise fails to obtain sufficient HALEU for our needs, our ability to commence and expand commercial operations may be significantly impaired.

We have three publicly announced customers in (1) Dow, (2) Amazon, both of whom have made an equity investment in X-energy and (3) Centrica. As of the date of this prospectus, we also have a growing pipeline of customer opportunities across both power generation and industrial heat use cases across multiple geographies. We believe this growing pipeline of announced and potential customers is a demonstration of the increased market interest in, and provides external validation for, our products.

Widespread acceptance of nuclear power as an emissions-free energy source

Our growth and future success are dependent on public support for nuclear power in the U.S. and other countries where we intend to market and sell our technology, including Canada, the U.K. and certain countries in Europe and Asia, among others. Electricity demand is accelerating globally with the IEA estimating electricity consumption to grow by more than 25% from approximately 30,000 TWh in 2023 to approximately 37,000 TWh by 2030. In the U.S., electricity demand is currently driven by data center buildout from cloud computing providers, industrial growth and reshoring of manufacturing, and broader electrification (e.g., electric vehicle installed base). Given the importance of nuclear power to meeting data center expansion, Amazon, Google and Meta, among other companies, have signed a pledge to increase global nuclear capacity threefold by 2050. Industrial companies have historically relied on traditional fossil fuels such as natural gas to generate electricity and steam to power their facilities' industrial processes. In order for our business model to succeed, we will depend on energy providers sourcing a larger percentage of energy from nuclear power facilities instead of sourcing energy from fossil fuel facilities. Additionally, the market for SMRs has not yet been established, as we are one of the pioneers in the industry. As we scale and continue to invest in the capabilities of our SMRs, we expect a growing number of jurisdictions throughout the U.S. and globally to adopt SMRs as an always-on, carbon emissions-free alternative to other energy sources. As nuclear power and SMRs, in particular, gain widespread acceptance, we expect the revenue we generate from sales of our SMRs to increase.

Inflation, supply chain pressures, and rising development costs could increase our operating expenses and adversely affect our margins

We are a development and design stage company that is preparing its flagship product for market, with substantial governmental support and collaboration from a team of commercial partners. As we develop the Xe-100, TRISO-X fuel and other aspects of our business, we have been, and expect to continue to be, adversely affected by price increases from our suppliers and logistics partners as a result of inflation as well as other factors such as increased development, labor and overhead costs.

The Xe-100 and corresponding TRISO-X fuel are costly, complex and challenging to design and build. Sources of funding for the estimated cost include U.S. government funding, whether via the ARDP or other sources, and additional funding to be provided by X-energy's designated partner under the ARDP. Currently, Dow is a sub-awardee and our designated partner under the ARDP. The ARDP grant is inclusive of three different components. First, for non-recurring engineering work related to the design of the Xe-100, X-energy is responsible for the funding of such engineering work and is eligible to receive 50% reimbursement for this funding through the ARDP program. Secondly, for TRISO-X, X-energy is responsible for the funding and is eligible to receive 50% reimbursement for this funding through the ARDP program. These two ARDP-related programs are not tied to Dow's funding requirements. Finally, for the construction of the Xe-100 plant, Dow is responsible for the funding of the Xe-100 plant at the Seadrift site and is eligible to receive 50% reimbursement for this funding through the ARDP program.

Dow's current funding commitments are representative of a typical energy project development process. At present, Dow's funding is released as project milestones are reached; however, X-energy has no financial obligation to construct the plant without Dow's funding. As we are currently in preliminary design, X-energy is receiving revenues from Dow pursuant to our MPDA for services including engineering services related to the Seadrift site, NRC licensing activities, and other technology use typical of services rendered during this development phase. As project milestones are reached, Dow's funding commitments are expected to increase, as Dow will need to fund long-lead procurement and engineering services years in advance of commercial operations. X-energy has no obligation to move forward with the project without funding from Dow. If final investment decision is made, Dow is expected to continue to be responsible for the funding of the construction of the Xe-100 plant, which work is eligible under the ARDP grant for 50/50 cost share. If Dow does not make a final investment decision with respect to the Seadrift project, X-energy is under no obligation to continue funding to the Dow project or construction on the plant itself. However, in order to continue our participation in the ARDP program, we would need to identify another customer within a reasonable amount of time for the demonstration portion of the project, and failure to do so could result in significant delays, increased costs, and loss of revenue.

We continue to work with our commercial partners to seek opportunities for cost reduction associated with ARDP work. Irrespective of ARDP funding, we nonetheless expect sustained and increased inflation in the future to directly impact our operating expenses, which could ultimately impact expected gross margins across our business.

The capital expenditure for our reactors will not be included on our balance sheet.

Our ability to obtain and maintain regulatory approvals at federal, state and local levels

Our capacity for continued growth and ability to achieve and maintain profitability depends in large part on our ability to obtain and maintain regulatory approvals across multiple jurisdictions, including at the international, federal, state and local levels. The federal government, along with each state and local jurisdiction in which we operate, maintains distinct regulatory frameworks. These include laws and regulations that can directly or indirectly affect our operations and those of our customers, including matters related to real estate usage, environmental sustainability, employment and labor practices and community engagement. We believe that we have an experienced licensing team that has developed strong working relationships with the NRC and other regulators. Our success will depend on our licensing team's ability to continue to obtain and maintain Regulatory Approvals on commercially reasonable timelines. The Dow project's first Construction Permit Application ("CPA") received an 18-month review schedule, and while our engagement with the regulator to date has been constructive, future projects may experience longer time horizons or difficulties related to agency interaction due to staffing changes or shortages. The CPA was submitted in March 2025, docketed in May 2025, and the review is expected to be complete by the end of year in 2026, with receipt of the CPA anticipated in the first quarter of 2027; however, any delay in this timeline or unforeseen challenges to this or other Regulatory Approvals for us or our customers could negatively impact our business, financial condition, or results of operations. In addition, because the Dow project and future projects represent first-of-a-kind deployments, they may attract heightened scrutiny or opposition from local communities, non-governmental organizations, or advocacy groups, which could result in additional review, procedural challenges, or delays in obtaining Regulatory Approvals. We engage experienced regulatory, environmental, and stakeholder-engagement advisors to anticipate and manage such risks; however, there can be no assurance that these efforts will prevent delays, increased costs, or adverse outcomes.

At the same time, certain U.S. federal policy initiatives currently support the advancement of advanced energy, infrastructure, and domestic manufacturing projects aligned with energy abundance, security, and decarbonization objectives, which may support regulatory coordination or resource allocation.

While we operate in an industry that is subject to, and benefits from, safety and environmental regulations, such regulations have generally become more stringent over time, particularly across developed markets. While efforts have been underway in recent years to improve regulatory efficiency and costs, regulations in our target markets include nuclear safety regulations, grid interconnections and power market considerations, environmental permits and assessments, and export controls. As a company in a highly regulated industry, our margins could be particularly and adversely impacted by increasingly stringent regulatory developments or regulatory scrutiny. Regulations on nuclear energy, while historically similar across the U.S., the U.K., Canada

and the European Union, where most of our production and sales are expected, are subject to unknown and unpredictable change that could impact our ability to meet projected sales or margins. Moreover, our and our customers' ability to obtain Regulatory Approvals and comply with applicable nuclear regulatory requirements may affect our ability to market our technologies and obtain approvals in other countries.

Our dependence on government policy support and funding for nuclear energy development

Our future growth is largely dependent on our ability to continue to capitalize on government policy support and corporate investment in the nuclear energy industry.

Congress has successfully reinvigorated the U.S. nuclear industry with a concentration on four main legislative priorities: (1) The initiation of the Advanced Reactor Demonstration Program, and its associated funding, to mitigate first-of-a-kind reactor cost and schedule risks; (2) Regulatory framework reform that is more aligned with the increased safety of advanced reactors through the Nuclear Energy Innovation and Modernization Act (NEIMA) in 2019 and the Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy Act (ADVANCE ACT) in 2024; (3) Enacting financial instruments such as Investor Tax Credits, Manufacturing Tax Credits and Production Tax Credits that are on a par with other clean energy tax credits, such as wind and solar, as included in the Inflation Reduction Act of 2022, and (4) Expanding and deploying federal credit support through the DOE's Loan Programs Office, which provides loan guarantees and other credit assistance to catalyze first-of-a-kind and large-scale nuclear projects, fuel cycle facilities, life-extension and uprate initiatives, and other qualifying nuclear infrastructure, thereby lowering the cost of capital and accelerating commercial deployment.

X-energy was selected by the DOE as an awardee under the ARDP in 2020 for one of two "demonstration" projects in the United States, and it is particularly critical to our success. The ARDP is structured as a 50/50 cost-share between the DOE and its private sector awardee for eligible costs, intended to reduce first-of-a-kind reactor risks with the goal to attract follow-on customers both domestically and in the global marketplace. More specifically, through the ARDP, X-energy is eligible to receive from the DOE approximately 50% of the cost of designing the Xe-100. X-energy is also eligible to receive approximately 50% of the cost of TX-1, its first fuel fabrication facility. Finally, X-energy's first customer to build a reactor, Dow, is eligible to receive 50% approximately of the cost to build the first Xe-100, which it will do at its Seadrift site in Texas.

Congress has appropriated funding that was allocated towards X-energy's award, in total of approximately \$1.1 billion, as well as recent additional appropriations of \$3.1 billion to ARDP, some incremental portion of which we expect to be allocated to X-energy. DOE's ability to receive the not-yet-appropriated portion of the ARDP is subject to the political process, which is inherently unpredictable and highly competitive. As of December 31, 2025, we have been reimbursed over \$438 million in funding under the ARDP. The funding of government programs is dependent on budgetary limitations, congressional appropriations and administrative allotment of funds, all of which may be affected by changes in U.S. government policies resulting from various political developments. If political support for the prioritization of the development of nuclear energy decreases, including due to policy changes by the current administration and future administrations and changing congressional funding priorities, we may be unable to secure continued government funding under the ARDP, which would adversely affect our business, development timeline, and financial condition.

Our ability to expand our services offerings

We intend to offer customers a diversified suite of services throughout the life of a project / reactor, beginning approximately eight years prior to a plant's commercial operation date. Our envisioned suite of services includes pre- and post-commercial operations date offerings, whereby we intend to provide customers with critical services related to the design, development, licensing, construction, fueling, operations and maintenance of the Xe-100. We expect that, as we refine our services offerings, first with Dow and the early Amazon and Centrica projects, the number of services we offer and the percentage of revenue we generate from our services offerings will grow. We anticipate that our services offerings will have high penetration rates across our future clients and will provide consistent, recurring revenues throughout the expected life of each reactor.

Our ability to obtain additional capital

We operate in a capital intensive industry and expect to continue to incur operating losses for the foreseeable future as we continue to expand and develop, and may need to raise additional capital in the future. If we are unable to raise additional capital when needed, we may have to delay, scale back or discontinue one or more of our lines of business. We may be required to cease operations or seek partners for our lines of business at an earlier stage than otherwise would be desirable and on terms that are less favorable than might otherwise be available. If we are unable to raise additional capital when needed, we may also be required to relinquish, license or otherwise dispose of rights to technologies or lines of business that we would otherwise seek to develop or commercialize on terms that are less favorable than might otherwise be available. If we are unable to secure additional capital when needed, we may be required to take additional measures to reduce costs in order to conserve our cash in amounts sufficient to sustain operations and meet our obligations. These measures may significantly alter our business plan and could cause significant delays in the development of our product candidates and ultimately our financial condition and ability to operate as a going concern.

Key Components of Results of Operations***Revenues and grant income***

At present, our revenues and grant income are generally derived from contract services performed for the U.S. Government and commercial entities. In the future, we expect to generate revenue through technology fees for the use of the design of the Xe-100 technology, project planning, assembly coordination, construction support, regulatory support, procurement support, long-term services to customers and the supply of fuel and associated services. Our revenues are generally derived from cost-share agreements such as the ARDP provided by the U.S. government and research and development, product development, and fuel services provided to other government agencies and commercial entities. A majority of our contracts with the U.S. government are generally subject to FAR and are competitively priced based on estimated costs of providing the contractual goods or services.

Operating expenses***Direct costs***

Direct costs include all costs directly attributable to providing services under contracts with customers and grants related to income, such as direct labor, direct materials and subcontracting costs. Indirect costs are allocated to direct costs in the same manner as such costs are defined in disclosure statements under U.S. Government Cost Accounting Standards.

Selling, general and administrative

Selling, general and administrative expenses consist of human capital related expenses for employees involved in general corporate functions; rent relating to our office space; professional fees; and other general corporate costs.

Research and development

We conduct research and development activities related to the development and improvement of technologies pertaining to nuclear reactor and fuel design engineering. The costs incurred for conducting the research and development primarily include equipment, material, and labor hours.

Other income (expense)***Interest expense***

Interest expense consists of interest paid and accrued on the Live Oak Credit Facility, Bank of New York Credit Facility, 2023 Bridge Loan, 2024 Convertible Note, and the 2024 Bridge Loan, as further discussed below, along with the amortization of deferred financing fees, costs and debt discounts.

Interest income

Interest income is related to our investment of excess cash in money market funds and debt securities.

Other income (expense), net

Other income (expense), net consists of miscellaneous income and expenses such as mark-to-market gains and losses on various instruments detailed in Note 13 — Fair Value Measurements of our audited consolidated financial statements. Other income (expense), net also consists of the gain and losses on conversion of C-1 Notes and C-2 Notes and related reclassification of other comprehensive income, losses on extinguishment of debt, gains and losses on foreign currency transactions, and other miscellaneous expenses.

Results of Operations

The following tables set forth our results of operations for the periods presented. The period-to-period comparison of financial results is not necessarily indicative of future results.

Comparison of Fiscal Years Ended December 31, 2025 and 2024

The following tables set forth our historical results for the periods indicated and the changes between periods:

(\$ in thousands)	2025	2024	\$ Change	% Change
Services revenue	\$ 94,260	\$ 83,986	\$ 10,274	12%
Grant income	14,838	36,166	(21,328)	(59)%
Total revenues and grant income	109,098	120,152	(11,054)	(9)%
Operating expenses				
Direct costs	161,367	130,115	31,252	24%
Selling, general and administrative	116,318	111,887	4,431	4%
Research and development	1,708	1,662	46	3%
Total operating expenses	279,393	243,664	35,729	15%
Operating loss Other income (expense)	(170,295)	(123,512)	(46,783)	38%
Interest expense	(475)	(16,190)	15,715	(97)%
Interest income	20,293	2,833	17,460	616%
Other income (expense), net	(239,301)	10,909	(250,210)	(2,294)%
Total other income (expense), net	(219,483)	(2,448)	(217,035)	8,866%
Net loss	<u><u>\$(389,778)</u></u>	<u><u>\$(125,960)</u></u>	<u><u>\$(263,818)</u></u>	<u><u>209%</u></u>

Revenues and grant income

Revenues and grant income decreased by \$11.1 million or 9% for the year ended December 31, 2025 from 2024. The decrease is driven by a \$19.9 million decrease in a service revenue contract with Dow to develop a small modular reactor at one of Dow's U.S. Gulf Coast sites as a result of work slowing down after the submission of the application to the NRC in March 2025 and before the start of construction, and a \$5.3 million decrease related to a service revenue contract with the DOD. This was offset by an increase of \$12.7 million increase in revenue and grant income from contracts with the DOE attributable to the ARDP Agreement with the DOE and an increase of \$3.4 million related to service revenue contract with Energy Northwest, which began during the second quarter of 2024. Total revenues and grant income for the year ended December 31, 2025 and 2024 attributable to the ARDP Agreement with the DOE, which contemplates an aggregate of \$1.2 billion in funding to support design, licensing, and commercialization of the Xe-100 and construction of the TX-1, were \$89.2 million and \$76.5 million, respectively, of which \$14.8 million and \$36.2 million, respectively were recorded within grant income. The increase in revenue and grant income from the ARDP Agreement with the DOE is due to the increase in activities and nature of services performed during the year ended December 31, 2025.

Operating expenses*Direct costs*

Direct costs increased by \$31.3 million or 24% for the year ended December 31, 2025 from 2024 primarily due to an increase of \$19.9 million in direct labor, which is driven by an increase in employee headcount and an increase in bonuses, and an increase of \$6.7 million and \$6.6 million in subcontracting costs and direct materials, respectively, which is driven by an increase in activity related to the ARDP Agreement.

Selling, general and administrative

Selling, general and administrative expenses increased by \$4.4 million or 4% for the year ended December 31, 2025 from 2024. This increase was primarily due to a \$26.8 million increase in payroll related costs due to an increase in employee headcount and a \$13.5 million increase in unit-based compensation due to new grants made during the year ended December 31, 2025. Selling, general and administrative expenses further increased by \$12.1 million due to contractor costs related to corporate projects, a \$5.5 million increase in technology costs, and a \$0.5 million increase in insurance costs.

The increase in selling, general and administrative expenses was partially offset by the absence of a \$55.3 million one-time warrant issuance cost incurred in the prior year. In the year ended December 31, 2024, the Company issued the 2024 Warrant for no consideration and without receiving any identifiable asset or benefit, requiring the fair value to be expensed immediately upon issuance.

Research and development

Research and development had an immaterial increase for the year ended December 31, 2025 from 2024.

Other income (expense)*Interest expense*

Interest expense decreased by \$15.7 million or 97% for the year ended December 31, 2025 from 2024 due to the settlement, maturity, redemption and conversion of substantially all of the outstanding debt during the year ended December 31, 2024.

Interest income

Interest income increased by \$17.5 million or 616% for the year ended December 31, 2025 from 2024 due to investment of excess cash into money market funds starting in the fourth quarter of 2024 and investment in held-to-maturity securities starting in the fourth quarter of 2025.

Other income (expense), net

Other income (expense), net, was \$239.3 million of expenses for the year ended December 31, 2025 compared to \$10.9 million of income for the year ended December 31, 2024, representing an increase in expenses of \$250.2 million, or 2,294%. The increase was primarily due to a mark-to-market loss on warrant liabilities amounting to \$223.5 million for the year ended December 31, 2025 compared to a mark-to-market gain on warrant liabilities amounting to \$7.9 million for the year ended December 31, 2024.

Liquidity and Capital Resources

We assess our liquidity in terms of our ability to generate adequate amounts of cash to meet current and future needs. Our expected primary uses of cash on a short-term and long-term basis are for working capital requirements, capital expenditures, and other general corporate services. Our primary working capital requirements are for project execution activities including purchases of materials, subcontracted services and payroll which fluctuate during the year, driven primarily by the timing and extent of activities required on new and existing projects. Management expects that future operating losses and negative operating cash flows may increase from historical levels because of additional costs and expenses related to the development of our

technology and the development of market and strategic relationships with other businesses. Consequently, our continued existence is dependent upon our ability to obtain additional capital to support our ongoing operations.

Historically, our primary source of funding to support our operations has been revenue and grant income from the ARDP Agreement, contributions and loans from members, loans from financial institutions as well as capital raises. During the year ended December 31, 2025, we successfully raised approximately \$700.0 million from issuance of our Series D Preferred Units and approximately \$53.4 million from issuance of our Series C-1 Preferred Units. During the year ended December 31, 2024, we successfully raised \$626.5 million from issuance of Series C-1 Preferred Units. While we have historically been successful in obtaining the capital necessary to support our operations, there is no assurance that we will be able to secure additional capital or other financing in the future.

We have had, and expect that we will continue to have, an ongoing need to raise additional capital from outside sources to fund our operations and expand our business. If we are unable to raise additional capital when desired, our business, financial condition, operating results and future prospects would be harmed, and we may not be able to construct the TX-1 fuel fabrication facility, support development of the Xe-100 plant or conduct other research and development or project and fulfill our current business plan, and therefore, we may need to delay or abandon these and other projects. A successful transition to attaining profitable operations depends upon achieving a level of revenue and grant income adequate to support us.

We expect that working capital requirements will continue to be funded through a combination of cash on hand, funding awarded under the ARDP, further issuances of securities, and successful capital raises. In connection with our business plan, management anticipates additional increases in operating expenses and capital expenditures relating to the development and commercialization of the Xe-100 and fuel fabrication facility. We intend to finance these expenses with further issuances of debt or equity securities. Thereafter, we expect we will need to raise additional capital and generate revenues and grant income to meet long-term operating requirements. If we raise additional funds through the issuance of equity or convertible debt securities, the percentage ownership of our equity holders could be significantly diluted, and these newly issued securities may have rights, preferences or privileges senior to those of existing equity holders. If we raise additional funds by obtaining loans from third parties, the terms of those financing arrangements may include negative covenants or other restrictions on our business that could impair our operating flexibility and also require us to incur interest expense.

Bank of New York Credit Facility

On July 28, 2020, we executed a credit agreement with Pershing LLC, an affiliate of Bank of New York Mellon, in the form of a revolving credit facility (the “Bank of New York Credit Facility”), which was subject to the guarantee by Ghaffarian Enterprises, who represented a related party investor. During the year ended December 31, 2024, we entered into Credit Support Fee and Subrogation Agreements (the “2024 Credit Support Fee Agreements”) with GM Enterprises, LLC and Ghaffarian Enterprises, LLC, entities affiliated with an owner and member of our Board of Directors, which increased the availability under the Bank of New York Credit Facility to \$20.0 million and extended the maturity of the credit support to March 26, 2025. In conjunction with the agreements, we agreed to pay GM Enterprises, LLC and Ghaffarian Enterprises, LLC, a monthly 12% credit support fee to be paid in-kind. Pursuant to the terms of the 2024 Credit Support Fee Agreements, we paid credit support fees and issued 562,483 Class B Common Units to GM Enterprises, LLC and Ghaffarian Enterprises, LLC. The Class B Common Units have the same rights as the Class B Profits Interests. In October 2024, we settled the outstanding principal and interest associated with the Bank of New York Credit Facility with a payment of \$20.2 million, and the Credit Support Fee Agreements were terminated. The Bank of New York Credit Facility did not have an outstanding balance as of December 31, 2024, and the facility matured with no balance on March 26, 2025.

Apart from the Bank of New York Credit Facility as disclosed above, we had the following debt outstanding during the years ended December 31, 2025 and 2024 which were settled, matured, redeemed or converted:

- *Series C-1 Convertible Notes:* During 2022, we issued a series of convertible promissory notes (“C-1 Notes”), in the aggregate principal amount of \$57.4 million with an annual interest rate of 7.00%.

Of the \$57.4 million in principal, \$37.4 million was due on March 31, 2024 and \$20.0 million was due on October 7, 2024 to a related party. On December 5, 2023, in connection with the issuance of the Series C Preferred Units, a portion of the C-1 Notes equal to \$37.4 million of principal automatically converted into 5,957,402 Series C Preferred Units at a discounted price per unit of \$7.94. On March 29, 2024, the remaining \$20.0 million principal outstanding of C-1 Notes was converted into 3,210,405 Series C Preferred Units.

- **2023 Bridge Loan:** On October 4, 2023, we entered into a credit agreement (the “2023 Bridge Loan”) with Ares Acquisition Holdings, LP, which was amended through various amendments. In connection with the amendments, the maturity date was extended to March 26, 2025. Subsequent to the initial October 4, 2023 issuance of \$10.0 million, \$14.2 million and \$25.8 million was drawn during 2024 and 2023, respectively through amendments and delayed draws. On October 11, 2024, in accordance with the 2023 Bridge Loan’s stated terms, we paid the outstanding principal and interest on the 2023 Bridge Loan of \$53.5 million, and the 2023 Bridge Loan was settled.
- **2024 Convertible Note:** On September 26, 2024, we entered into a convertible note with Amazon.com NV Investment Holdings LLC in the principal amount of \$20.0 million (the “2024 Convertible Note”). On October 11, 2024, in conjunction with the Series C-1 Preferred Units financing and in accordance with the 2024 Convertible Note’s stated terms, the outstanding principal and interest of the 2024 Convertible Note of \$20.1 million was converted into 3,097,477 Series C-1 Preferred Units.
- **2024 Bridge Loan:** On September 26, 2024, we entered into a bridge loan with Escape2, LLC, an entity affiliated with an owner and member of our Board of Directors (the “2024 Bridge Loan”), in the amount of \$3.8 million. Concurrently with the issuance of this debt, the Company issued 124,430 Class B Common Units to Ghaffarian Enterprises. On October 11, 2024, in accordance with its stated terms, the 2024 Bridge Loan was automatically redeemed, and we paid the outstanding principal and interest associated with the 2024 Bridge Loan of \$3.8 million.
- **Series C-2 Convertible Notes:** During 2022 and 2023, we issued convertible notes payable in an aggregate principal amount of \$28.0 million and \$85.0 million (“C-2 Notes”), respectively, of which \$70.0 million of the C-2 Notes were issued to related parties. The C-2 Notes were scheduled to mature on September 30, 2025 and accrue 10.0% of payable-in-kind interest annually. On October 11, 2024, a portion of the C-2 Notes with an aggregate principal balance of \$98.0 million converted into 16,960,021 Series C Preferred Units. On September 30, 2025, the remaining \$18.4 million of outstanding principal and unpaid accrued interest on the C-2 Notes were converted into 2,870,172 Series C Preferred Units.
- **Live Oak Credit Facility:** On June 14, 2021, we and one of our subsidiaries entered into a credit agreement for a revolving credit facility (the “Live Oak Credit Facility”) with Live Oak Bank. The Live Oak Credit Facility was amended various times from the date of entering into the facility till the maturity. In accordance with the Live Oak Credit Facility’s stated terms, we settled the outstanding principal associated with the Live Oak Credit Facility with a payment of \$4.1 million in October 2024. On October 31, 2024, with no outstanding borrowings, the facility matured. On May 9, 2025, we reestablished the facility, with an expiration date of December 1, 2025. There have been no draws on the facility during the year ended December 31, 2025. On December 1, 2025, with no outstanding borrowings, the facility matured.

Please refer to Note 7 — Debt of our audited consolidated financial statements included elsewhere in this prospectus for additional information.

Off-Balance Sheet Arrangements

We have no off-balance sheet arrangements.

Cash Flows for the Years Ended December 31, 2025 and 2024

(\$ in thousands)	2025	2024
Net cash used in operating activities	\$(149,860)	\$ (96,159)
Net cash used in investing activities	(628,344)	(1,865)
Net cash provided by financing activities	726,130	598,340

Operating Activities

For the year ended December 31, 2025, our operating activities used \$149.9 million of net cash compared to \$96.2 million for the year ended December 31, 2024. The increase in cash used in operating activities is primarily driven by an increase in activity on the ARDP Agreement, an increase in corporate headcount, and an increase in technology and corporate contractors during the year ended December 31, 2025. These increases were partially offset by lower transaction costs compared to the prior year, which included one-time expenses related to the 2023 SPAC transaction.

Investing Activities

For the year ended December 31, 2025, our investing activities used \$628.3 million of net cash compared to \$1.9 million for the year ended December 31, 2024. The increase in net cash used in investing activities was primarily attributable to purchases of investments amounting to \$565.9 million, and a \$113.1 million increase in capital expenditures related to the construction of new facilities. This increase was partially offset by \$52.5 million in reimbursements received during the period for capital expenditures qualifying under government grant programs.

Financing Activities

For the year ended December 31, 2025, financing activities provided \$726.1 million of net cash compared to \$598.3 million for the year ended December 31, 2024. The net cash provided by financing activities the year ended December 31, 2025 was primarily due to the November 2025 issuance of Series D Preferred Units of \$700.0 million and January 2025 issuance of Series C-1 Preferred Units of \$53.4 million, offset by \$25.3 million of cash paid for issuance costs. The net cash provided by financing activities during the year ended December 31, 2024 was primarily due to the October 2024 issuance of Series C-1 Preferred Units of \$626.5 million and proceeds received from debt instruments of \$139.1 million; these increases were partially offset by repayment on debt instruments of \$152.6 million, \$10.8 million of cash paid for equity issuance costs and \$3.8 million of cash paid for debt issuance costs.

Contractual Obligations and Commitments

In addition to our contractual obligations and commitments described under “— Liquidity and Capital Resources,” we lease real estate for office space. These leases are classified as operating leases with various expiration dates through 2037. See Note 8 — Leases of our audited consolidated financial statements included elsewhere in this prospectus for more information regarding our lease commitments.

Critical Accounting Policies and Estimates

We believe that the following accounting policies involve a high degree of judgment and complexity.

Accordingly, these are the policies we believe are the most critical to aid in fully understanding and evaluating our consolidated financial condition and results of our operations. See Note 2 — Summary of Significant Accounting Policies and Recent Accounting Pronouncements to our audited consolidated financial statements appearing elsewhere in this prospectus for a description of our other significant accounting policies.

The preparation of our consolidated financial statements and related disclosures requires us to make estimates and judgements that affect the amounts reported in those financial statements and accompanying notes. Although we believe that the estimates we use are reasonable, due to the inherent uncertainty involved in making those estimates, actual results reported in future periods could differ from those estimates.

Revenue and Cost Recognition

The Company generated all of its services revenue from contracts with customers, a substantial portion of which was generated from contracts with the U.S. Government. A majority of the Company’s contracts with the U.S. Government are generally subject to the Federal Acquisition Regulation and are priced based on estimated costs of providing the contractual services.

The Company accounts for a contract when the parties have approved the contract and are committed to perform on it, the rights of each party and the payment terms are identified, the contract has commercial substance, and collection of substantially all of the consideration is probable.

The Company evaluates if its contracts are partially in the scope of ASC 606, Revenue from Contracts with Customers, and partially in the scope of other guidance. For contracts partially in the scope of other guidance, the Company separates and allocates the arrangement consideration to those components in accordance with ASC 606 unless the other guidance provides its own separation and allocation guidance.

At contract inception, the Company determines whether the services to be provided are to be accounted for as a single performance obligation or as multiple performance obligations. This evaluation requires professional judgment, and it may impact the timing and pattern of revenue recognition.

The Company's contracts may include variable consideration, such as adjustments to pricing based on performance or other contractual terms. Variable consideration is estimated at contract inception and updated throughout the contract term as additional information becomes available. The Company includes variable consideration in the transaction price only to the extent that it is probable that a significant reversal of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is resolved.

The Company generally recognizes revenue over time throughout the performance period as the customer simultaneously receives and consumes the benefits provided on services-type revenue arrangements. The Company satisfies its performance obligation as services are rendered. An input method is used for cost-based contracts, based on the cost of services which correspond directly with the value of the Company's performance completed to date. For fixed-fee contracts, the Company applies an input method — specifically the cost-to-cost approach — where revenue is recognized in proportion to costs incurred, reflecting progress towards complete satisfaction of the performance obligation.

Contract modifications are reviewed to determine whether they should be accounted for as part of the original performance obligation or as a separate contract. When a contract modification changes the scope or price and the additional performance obligations are at their standalone selling price, the original contract is terminated and the Company accounts for the change prospectively when the new services to be transferred are distinct from those already provided. When the contract modification includes services that are not distinct from those already provided, the Company records a cumulative adjustment to revenue based on a remeasurement of progress towards the complete satisfaction of the not yet fully delivered performance obligation.

The Company utilizes other parties in the performance of some services. Based on the Company's evaluation using a control model, the Company determined that in all of its performance obligations, it serves as a principal rather than an agent within its revenue arrangements. Revenue and the associated expenses are both reported on a gross basis within the consolidated statements of operations and comprehensive loss.

Financial Instruments and Fair Value Measurements

We estimate fair value based on assumptions that active market participants would use in pricing an asset or liability in the principal or most advantageous market. When considering market participant assumptions in fair value measurements, the following fair value hierarchy distinguishes between observable and unobservable inputs. Fair value measurements are categorized according to the criteria below based on the lowest level of input that is significant to the overall fair value measurement of the instrument:

- Level 1 inputs: Quotes prices (unadjusted) in active markets for identical assets or liabilities that the reporting entity can access at the measurement date;
- Level 2 inputs: Inputs other than quoted prices included within Level 1 inputs that are observable for the asset or liability, either directly or indirectly; and
- Level 3 inputs: Unobservable inputs for the asset or liability. These are used to measure fair value to the extent those observable inputs are not available, thereby allowing for situations in which there is minimal, if any, market activity for the asset or liability at the measurement date.

Recent Accounting Pronouncements

Please refer to Note 2 — Summary of Significant Accounting Policies and Recent Accounting Pronouncements of our audited consolidated financial statements included elsewhere in this prospectus for additional information.

Quantitative and Qualitative Disclosures about Market Risk

We are exposed to market risks in the ordinary course of our business. Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. Our market risk exposure is primarily the result of fluctuations in foreign currency exchange rates and interest rates. Information related to quantitative and qualitative disclosure about this market risk is set forth below.

Foreign Currency Exchange Risk

Currency exchange rate fluctuations may impact our results of operations and cash flows. Foreign currency translation gains and losses arising primarily from changes in exchange rates on foreign currency transactions and balances are not hedged and are recorded in other expenses, net in the consolidated statements of operations and comprehensive loss. We do not trade in financial instruments for speculative purposes. Business is generally transacted in a single currency not requiring meaningful currency transaction costs. As such, a 10% or greater move in exchange rates versus the U.S. dollar would not have a material impact on our financial results and position.

Interest Rate Risk

The Company had no debt instrument outstanding during the year ended December 31, 2025 with variable interest rates. However, during the year ended December 31, 2024, two debt instruments were outstanding which were subject to a floating interest rate, the Bank of New York Credit Facility and Live Oak Credit Facility. Neither debt instrument had an outstanding balance at December 31, 2024. As of December 31, 2025 and 2024, we did not have any interest rate swaps. As no amounts were drawn on December 31, 2025 and 2024, a 10% movement in the variable rate on our indebtedness would not have a material impact on our financial results and position.

We had cash and cash equivalents of \$458.9 million and \$514.6 million as of December 31, 2025 and 2024, respectively. Cash and cash equivalents consist of cash deposits, cash held in financial institutions and short-term investments, including debt securities purchased with an original maturity of three months or less. Our cash and cash equivalents are held for working capital purposes. We also had investments in debt securities, which are classified as held-to-maturity, of \$566.4 million as of December 31, 2025 consisting of corporate bonds, U.S. government treasury bills, commercial paper and certificates of deposit and foreign issuer debt securities. Such interest-earning instruments carry a degree of interest rate risk. The primary objectives of our investment activities are the preservation of capital, the fulfillment of liquidity needs, and the fiduciary control of cash. We do not enter into investments for trading or speculative purposes. A 10% change in interest rates during any of the periods presented would not have had a material impact on our consolidated financial statements as of December 31, 2025 and 2024.

NUCLEAR INDUSTRY OVERVIEW

This section includes industry and market data, including our general expectations and market position, market opportunity and market size, as well as future growth rates relating to our market opportunity and the industry and markets in which we operate, that is based on industry publications and other published industry sources prepared by third parties. Although we believe the industry and market data to be reliable as of the date of this prospectus, this information could prove to be inaccurate. Moreover, projections, assumptions and estimates of the future performance of the industry in which we operate, including future growth rates and related estimates, forecasts and projections relating to the industry in which we operate and our market position, market opportunity and market size, are prospective in nature. Any such projections, assumptions and estimates are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in the sections captioned “Risk Factors” and “Cautionary Note Regarding Forward-Looking Statements” elsewhere in this prospectus. These and other factors could cause any such projections, assumptions and estimates, to differ materially from those expressed in the projections, assumptions and estimates made by third parties and by us and you are cautioned not to give undue weight to such projections, assumptions and estimates. See “Market and Industry Data” for further information and important limitations and uncertainties regarding the industry and market data we present.

Evolution of Generation IV nuclear fission technologies

The existing nuclear fleet in the U.S. is largely considered “Generation II”, and consists of Pressurized Water Reactors (PWRs) and Boiling Water Reactors (BWRs), making up about 2/3rd and 1/3rd of the fleet, respectively. PWRs transfer heat from the primary system to a secondary steam cycle through steam generators, whereas BWRs generate steam directly in the reactor vessel to power the turbine, with condensed steam recycled back into the core. Newer “Generation III” systems, which introduced incremental design and safety improvements to the Water Reactors and served as a predecessor to Gen III+, were brought online in the 1990s, when few new nuclear reactors were built globally. No Gen III plants are in service in the U.S.

Small modular reactors have become more advanced as close following “Generation III+” reactor designs come online, including the AP1000 at Vogtle Units 3 and 4, offering significant improvements in safety with the introduction of passive safety features. Gen III+ includes both large conventional reactors and SMRs that adopt similar new safety features into a smaller, more compact design, generally considered to be around 10 MWe to around 300 MWe in size.

Advanced nuclear reactor technologies considered Gen IV are differentiated by their cooling methods and fuels that offer advantages in performance, safety and use cases (e.g., higher heat for industrials). The Xe-100 is considered a Generation IV reactor, but is based on decades of research that have brought these non BWR/LWR-based design concepts to commercialization. These technologies include:

High Temperature Gas-cooled Reactor: A Generation IV design using helium coolant and graphite moderator, operating at 700-950 °C. Fuel uses coated particle technology for high safety margins. Produces both electricity and industrial process heat. Modular HTGRs emphasize passive safety, low use and versatile energy applications. Currently, only China operates commercially deployed HTGR technology. China’s HTR-PM project was formally launched in 2001, with basic design completion in 2008, and commercial operation in 2021 at Shidaowan. It is a 210 MWe demonstration plant consisting of two modular 250 MWt pebble-bed HTGR units.

Sodium-Cooled Fast Reactor: A fast-spectrum reactor cooled by liquid sodium, allowing efficient neutron economy and closed fuel cycles. Operates at near-atmospheric pressure with high thermal conductivity. Enables actinide recycling, reducing long-lived waste. Challenges include sodium’s reactivity with air/water. Demonstration reactors exist globally, with Generation IV designs targeting sustainability and safety.

Lead-Cooled Fast Reactor: Uses molten lead or lead-bismuth eutectic as coolant in a fast neutron spectrum. Offers excellent passive safety, high boiling point, and corrosion resistance. Capable of long refueling intervals and in some configurations, breeding, fuel. Challenges include structural material compatibility and coolant handling.

Molten Salt Reactor: Employs liquid fluoride or chloride salt as coolant, with fuel dissolved in salt or in solid form. Operates at low pressure and high temperatures (around 700 °C), enhancing efficiency and safety.

MSRs may be compatible with thorium fuel cycles and actinide recycling, which reduces the radioactivity and half-life of the nuclear waste. MSRs offer inherent safety features but face material and chemistry challenges.

Supercritical Water-Cooled Reactor: A high-efficiency design using water above its critical point (around 374 °C, 22 MPa) as coolant and moderator. Achieves thermal efficiencies greater than 45% with simpler, once-through steam cycle. Operates in thermal or fast neutron spectra. Challenges include material durability under extreme conditions.

Gas-cooled Fast Reactor: GFRs use helium as coolant and operate with a fast neutron spectrum. Core materials are advanced ceramic composites, tolerating outlet temperatures around 850°C. GFRs aim for high efficiency, closed fuel cycles, and hydrogen production. The design faces challenges in fuel development, decay heat removal, and structural material resilience.

See below for a comparison table across Generation IV reactors compiled by the U.K.'s Nuclear Innovation and Research Office (NIRO) as an objective view of the different advanced reactor concepts.

	HTGR	SFR	LFR	MSR	SCWR	GFR
Timescales for delivery	Very high	Very high	Medium	Medium	Low	Low
Heat	Very high	Medium	Medium	High	Medium	High
Safety	Very high	Medium	Medium	Medium	Low	Low
Security	Very high	Medium	Medium	Medium	Medium	Medium
Economic Cost	High	Medium	Medium	Medium	Medium	Medium
Deployability	High	High	High	High	Medium	High
Adaptability	High	High	High	Very high	Medium	High
Waste & Environment	Medium	High	High	High	High	Very high
International	Very high	High	Medium	Medium	Low	Low

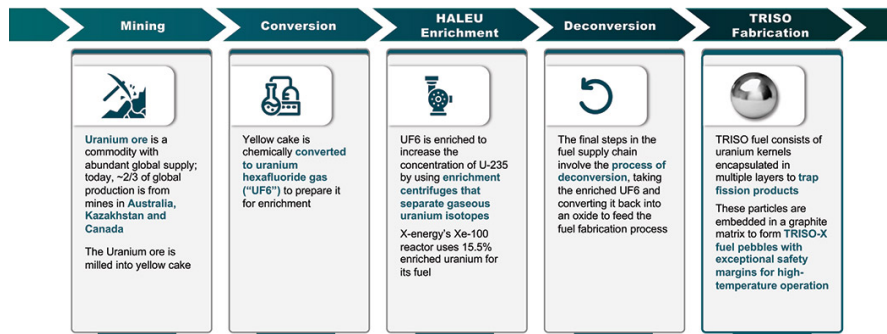
Note: A higher performing system scores a higher number. For example, with economic cost a low-cost system would score 'very high' and a high-cost system would score 'low.'

Fuel value chain overview

The supply chain for nuclear fuel is dependent on a select few countries that contribute uranium ore and enrichment capabilities. Uranium ore is concentrated in deposits across the world with about two-thirds of the global production of uranium ore coming from mines in Australia, Kazakhstan and Canada. Once the uranium ore is mined and refined it needs to be enriched. Currently, only nine countries have commercial enrichment capabilities: Russia, the U.K., Germany, Netherlands, the U.S., France, China, Japan and Brazil. The enrichment process is a critical step in the nuclear fuel cycle that enables nuclear energy generation and depends on the following critical steps: (i) Uranium ore is mined from both surface and underground mines, (ii) Uranium ore is milled into yellow cake, (iii) Yellow cake is chemically converted to uranium hexafluoride gas (UF_6) to prepare it for enrichment, (iv) UF_6 is enriched to increase the concentration of U-235 by using enrichment centrifuges that separate gaseous uranium isotopes. There are three categories of enriched uranium, LEU with enrichment of less than 5%, HALEU with enrichment between 5% – less than 20% and High Enriched Uranium ("HEU") with enrichment of greater than or equal to 20%. X-energy's Xe-100 reactor uses 15.5% enriched uranium for its fuel. The final steps in the fuel supply chain involve the process of deconversion, fabrication of fuel pellets, kernels and assembly into final fuel forms (e.g. TRISO pebbles, compacts) and final fuel configurations which are then used to produce nuclear energy.

Conventional nuclear reactors based on Generation II and III technology such as PWRs and BWRs use LEU for fuel to generate electricity. There is currently a greater supply of LEU-based fuel due to market

demand, government support, and a simpler enrichment process to achieve a lower (less than 5%), level of enrichment, and because of this, there is an established global supply chain for this type of fuel. Generation IV technologies including Advanced Small Modular Reactors use HALEU as input for fuel and certain Generation IV reactors, including the Xe-100, rely on a specific HALEU-based fuel called TRI-structural ISotropic fuel (TRISO) to generate electricity.



Differentiation for HTGRs among SMR and Gen IV technologies

Benefits of TRISO fuel

TRISO fuel was developed in the 1960s in the U.K. and Germany for High Temperature Gas-cooled Reactors and was later adopted in the U.S. for research during the 1970s-1980s. The DOE revived the fuel in the 2000s under the Advanced Gas Reactor Fuel Development Program to support research efforts for the next generation reactors. Current TRISO fuel production in the U.S. is limited to R&D and low-volume production for DOE reactor demonstration programs. This is being expanded through new government efforts to secure a U.S.-based uranium enrichment supply chain that will enable additional fuel form production. First, the U.S. government plans to bridge the supply of HALEU until private enrichment plants can operate at scale. Second, private actors such as Centrus and Urenco are being supported by DOE cost-sharing contracts to accelerate commercial operation. DOE's stated goal for such commercial efforts is for plants to come online as early as 2027.

TRISO fuel consists of uranium fuel kernels individually encapsulated in multiple layers of pyrolytic carbon and silicon carbide, forming miniature containment systems that trap fission products. These particles are then embedded in a graphite matrix to make fuel pebbles and compacts that possess exceptional safety margins and compacts, enabling operations at very high temperatures.

Additional benefits of TRISO fuel include:

- high fuel efficiency that can achieve a 19% maximum burnup level (Fissions per Initial Metal Atom) which can be around 4x higher than current LEU yields and significantly higher than other HALEU-based fuels including uranium nitride which have burnup levels of up to 8%, allowing reactors to run longer between refueling and reduce overall downtime;
- longer operational life of reactors due to the fuel's durable structure and resistance to neutron irradiation, corrosion and oxidation;
- robust structure as TRISO pebbles are manufactured to withstand high temperatures without melting and are designed as to substantially retain radioactive nuclear materials due to its advanced coating structure;
- versatile fuel form as it can be used for various reactor technologies including High Temperature Gas-cooled, Molten Salt and Micro reactors;
- can be made from both LEU and HALEU; and

- complex and layered fuel design that makes it more difficult for enriched uranium proliferation.

Benefits of Helium as a Coolant

While other gases have been investigated, helium has emerged as the coolant of choice for HTGRs through decades of research on the properties of the gas that make it uniquely suited for the high temperature safety requirements. As a noble gas, helium's chemical inertness, prevents corrosion of reactor components and ensures long-term structural integrity. It aids in efficient heat transfer and has low neutron activation from radiation, so it does not create the corrosion and phase-change issues associated with liquid coolants. As it remains in gaseous form throughout all operating temperatures of the reactor, the use of helium eliminates concerns about phase changes and thermal stress on the reactor components. Helium is also transparent and chemically inert, enabling easier visual inspection and safety use cases for the reactor serving lifetime. With a helium outlet temperature of 750°C in the Xe-100 HTGR design, the use of helium enables significantly higher steam production temperatures than conventional reactors.

BUSINESS

Unless the context otherwise requires, all references in this section to the “Company,” “X-energy,” “we,” “us” or “our” refer to the business of X-Energy, Inc. collectively.

OVERVIEW

Our company

X-energy is a leading designer of advanced nuclear reactor technology (commonly referred to as small modular reactors, “SMRs”) and manufacturer of advanced nuclear fuels. We believe these scalable, power generation technologies help satisfy historically unprecedented electricity demand growth, driven by the development of AI and associated data center infrastructure. Total demand for new electricity generation is expected to increase globally by 7,626 TWh from 2023 to 2030 and the challenges associated with meeting this demand have led policymakers and industry leaders to recognize nuclear energy, particularly advanced nuclear, as a key component to address this need.

Founded in 2009 by Dr. Kamal “Kam” Ghaffarian to bring clean, safe, secure and affordable technology to market, X-energy is seeking to redefine the energy industry through its flagship product, the Xe-100, an advanced small modular HTGR, in development for nearly a decade. The Xe-100 reactor is designed to generate 80 megawatts of electric power or 200 megawatts of thermal output (heat), or a combination thereof. This reactor technology builds on more than 50 years of research and development by the global nuclear industry and the operating experience of previous HTGRs including those at Peach Bottom in the U.S., and Dragon in the U.K. in the 1960s-1970s, and more recently with China’s ongoing deployments of HTGRs in the 21st century.

The Xe-100 has several technological attributes that we believe make it advantaged compared to other sources of baseload generation. These include advanced safety features, virtually no direct GHG emissions during generation, high thermal output, load-following capabilities and modularity, all of which allow X-energy to more specifically meet a customer’s power and/or industrial heat needs. X-energy’s simple Xe-100 design directly translates into simplicity of project delivery through reduced supply chain complexity and labor intensity during construction, which we believe will lead to lower cost and faster deployment timelines when compared with conventional nuclear energy sources. X-energy has optimized the deployment of its Xe-100 into a four-reactor format that outputs 320 MWe (or 800 MWt). By deploying four independent reactor modules instead of a single unit, this optimized four-reactor configuration inherently delivers the high levels of reliability and redundancy required for both AI and industrial heat applications.

X-energy’s reactors use a TRISO coated particle fuel in the form of a spherical ‘pebble’, called TRISO-X fuel. This pebble fuel consists of HALEU fuel kernels individually encapsulated in layers of silicon carbide and pyrolytic carbon, forming miniature containment systems that trap fission products. These particles are then embedded in a graphite matrix to make fuel pebbles that possess exceptional safety margins and compacts, enabling operations at very high temperatures. The HALEU fuel used in our TRISO-X pebble fuel is enriched to 15.5%, a higher energy density form than the less than 5% LEU fuel used in conventional nuclear reactors. TRISO-X fuel will be produced at our fuel fabrication facility in Oak Ridge, Tennessee. The first facility, known as TX-1, began construction in October 2024 and is expected to be completed by the first half of 2028. Upon completion, it is expected to be North America’s first purpose-built commercial advanced nuclear fuel fabrication facility. The TX-1 facility will have sufficient production capacity to support the fuel needs of the first 11 Xe-100 reactors at steady state operations.

In addition to its technology leadership, X-energy has three high-quality customers in Dow, Amazon, and Centrica, who we expect will underpin the deployment of the initial fleets of Xe-100 reactors. Taken together, assuming each customer exercises its contingent rights in full, these three customers provide us with a more than 11 gigawatts electric (“GWe”), 144 reactor pipeline across the U.S. and the U.K. with advanced development efforts already underway on the first Dow project at its Seadrift Operations site in Texas and the first Amazon project in connection with Energy Northwest.

X-energy maintains a strong relationship with the DOE and in December 2020 was awarded an initial \$1.2 billion as part of its selection as one of two awardees in the ARDP, the most substantial federal

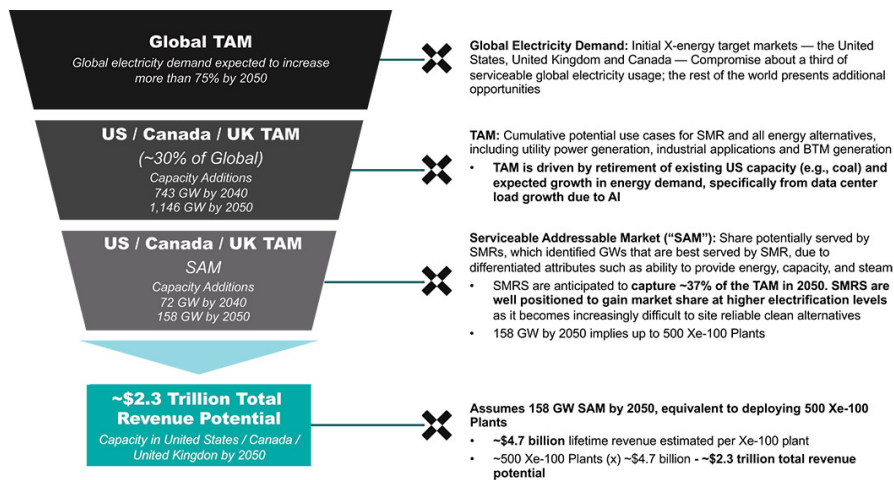
commitment to deploying advanced nuclear technology. The cooperative agreement for the program, signed in February 2021 (the “ARDP Agreement”), provides 50/50 cost share of \$2.4 billion of eligible costs (\$1.2 billion reimbursement) through 2027, allowing X-energy to continue work toward design, licensing, commercialization and construction of its first-of-a-kind commercial advanced nuclear plant and commercial TRISO-X fuel fabrication facility, while benefiting from decades of nuclear experience and knowledge within the DOE.

As of December 31, 2025, X-energy has been reimbursed approximately \$438 million in funding under the ARDP Agreement. We submit our budgets through an ongoing “budget period” basis tied to project milestones under the ARDP Agreement, and our current budget covers a budget period that began in March of 2025 and extends through August 2026. We submit a Continuation Application to the DOE to extend funding into subsequent periods. Extensions beyond the current budget period are subject to DOE discretion and approval. Under the terms of the ARDP Agreement that rely on the Office of Management and Budget (OMB) guidance, the total extension of the award may not exceed three years (for a total period of performance of 10 years). Any additional extension would require an approval within DOE above the level of the Contracting Officer. If we are unable to obtain extensions and incur eligible costs beyond the currently approved period of performance, we would forgo reimbursement for such costs and may face de-obligation of unobligated funds at closeout. There can be no assurance that we will receive additional ARDP funding beyond the current budget period or that extensions will be granted.

Our Market Opportunity

Load growth is accelerating globally with the IEA estimating electricity consumption to grow by more than 25% from approximately 30,000 TWh in 2023 to approximately 37,000 TWh by 2030. In the U.S., power demand is being driven by the increasing data center buildout from cloud computing providers, industrial growth and reshoring of manufacturing, and broader electrification (e.g., electric vehicle installed base). Other sources (BNEF New Energy Outlook 2025) also indicate that power demand is being driven by growing load growth demand from AI and industrial use. Policymakers and industry leaders recognize that nuclear, particularly advanced nuclear, will be a key contributor to meeting this load growth and securing America’s energy independence, with the stated goal of the current federal administration to expand U.S. nuclear capacity to 400 GWe by 2050 (from approximately 97 GWe at present).

We believe the market for SMRs is vast and that X-energy is well positioned to capture this opportunity. According to a 2024 report from PA Consulting, the U.S., the U.K. and Canada, X-energy’s planned core markets, comprise approximately one-third of potentially serviceable global electricity usage. Across these three geographies, there is an estimated TAM of cumulative capacity additions of 743 GWe and 1,146 GWe by 2040 and 2050, respectively. Of this TAM, PA Consulting estimates 72 GWe in 2040 and 158 GWe in 2050 will be best served by SMRs based on needs, siting efficiencies, and demand for co-generation. These capacity additions, across a representative set of SMR use cases including powering data centers, utility power generation, industrial applications and BTM generation, implies a potential need for approximately around 1,975 Xe-100 reactors (the equivalent of 494 four-reactor deployments), or an estimated \$2.3 trillion market opportunity for X-energy in 2050.



We believe the following secular movements will continue to support the use cases and power needs for scalable, firm, clean baseload power that SMRs, particularly the Xe-100, can deliver.

- **Demand for AI is Prompting Investment in Nuclear Power Generation.** Cloud computing providers and AI companies are deploying capital across data center infrastructure to keep up with the growing computing demand required by AI. As part of this expansion, electricity demand in the U.S. from data centers is expected to grow from approximately 108 TWh in 2020 to approximately 426 TWh by 2030. Since data center facilities must be continuously powered, nuclear generation can provide a key solution for reliable supply. SMRs are particularly well suited to meet the average 300 MWe to 1,000 MWe power capacity that data centers require. SMRs have a smaller physical footprint to meet siting requirements, and have modular scalability which provides the flexibility to meet facility-specific capacity needs.
- **High Carbon-Intensity Industrials Require Replacement for Industrial Heat and Steam Production.** Industrial companies have historically relied on fossil fuel fired boilers to generate electricity and steam for their industrial processes. The current installed base of industrial boilers operates below capacity and is frequently offline for maintenance. The current fleet is facing a near-term replacement cycle due to age. For industrial processes requiring consistent steam availability, X-energy's HTGR solution can reliably provide industrial steam in addition to onsite power. With an expected capacity factor of 95%, X-energy's SMR presents a compelling replacement opportunity for aging infrastructure to both decarbonize and achieve greater reliability.
- **Current Alternatives Are Not Well-Suited to Deliver Reliable, Uninterrupted, Clean, and Co-Located Power.**
 - **Renewables with or without energy storage** — Solar and wind generation have relatively low-capacity factors (i.e., the actual energy output in a given period of time relative to its theoretical maximum output) of 23% and 33% (EIA) respectively, since they only produce power when the sun is shining or the wind is blowing. Addressing this inherent intermittency issue would require the integration of large-scale battery energy storage systems or supplementary dispatchable generators for the production capacity of these renewables to even be comparable with the anticipated 95% capacity factor of our reactor. Large-scale deployment of battery storage is complicated by global supply chain availability and incremental cost.
 - **Conventional fossil fuel generation with or without carbon capture** — Standalone fossil fuel fired generation can deliver capacity factors similar to those of nuclear power but often require backup generation when maintenance takes key assets offline. Conversely, the Xe-100 can deliver critical

redundancy due to its modular nature which results in a reliability advantage without requiring grid redundancy. Further, many consumers and governments have climate targets, giving SMRs (with virtually no direct GHG emissions from energy generation) a distinct advantage over carbon-intensive alternatives such as coal, oil, and natural gas generation, which would require pairing them with expensive carbon capture solutions to try to meet climate targets.

- **Traditional Nuclear Power** — Large-scale nuclear, while typically operating around-the-clock (other than planned outage maintenance and refueling cycles, as compared to the Xe-100's online refueling), requires a large footprint and has consistently suffered from historical project delays and cost overruns. By contrast, advanced nuclear requires a much smaller operating footprint, on average about 1/4th to 1/10th that of a traditional nuclear plant. Additionally, HTGR sites in the U.S. will require a significantly smaller safety zone radius (400 meters versus 16 kilometers) because of built-in passive safety features. These safety characteristics enable lower costs and more compact designs due to a reduction in the quantity of concrete and steel safety infrastructure. The smaller overall footprint of SMRs allows co-location with new power demand hubs, and the modular nature of the Xe-100 enables scalable power output through additional on-site reactors to match specific needs.
- **Ongoing Support from the U.S. Government Beyond the ARDP.** Support for nuclear power has been increasing over the past decade with billions of additional dollars being allocated to nuclear energy through recent energy-related legislation. For instance, the OBBBA, signed in July 2025, maintained tax credits that were first introduced as part of the Energy Policy Act of 2005 and later expanded under the Inflation Reduction Act for nuclear projects. Additionally, the U.S. President issued four Executive Orders in May 2025, including support for the acceleration of regulatory review for advanced nuclear reactors and promotion of investment in a domestic nuclear supply chain. We believe these broader initiatives, building from U.S. nuclear policy precedent, will provide long-term support for advanced nuclear reactors like the Xe-100.
- **Investing in a Domestic HALEU Supply.** Establishing a domestic HALEU supply for the growing advanced nuclear reactor market in the U.S. is a top priority for the U.S. Government. Through the Energy Act of 2020 Congress established the HALEU Availability Program and has authorized the DOE to support the availability of HALEU available for civilian use (e.g., initial ARDP core loads) until commercial supply chains are in place. The program provides market support through a revolving fund structure that supports offtake commitments and is intended to help jump-start enrichment services and HALEU production, stimulate private investment, and support the development of a commercial-scale U.S. domestic fuel supply chain encompassing uranium mining, conversion, enrichment, fuel fabrication, and transportation. Congress has appropriated approximately \$3.4 billion in funding authority for these activities.

Key public-private partnerships established under the HALEU Availability Program include enrichment services with companies Centrus Energy, Urenco, Orano and General Matter. DOE will place orders through Indefinite Delivery / Indefinite Quantity contracts under a 10-year framework to provide enrichment services for the DOE. Centrus is already producing approximately 1 MTU of HALEU per year through its pilot cascade at Piketon, Ohio, and has indicated that it has the capability to add additional cascades over time, enabling scalable increases in HALEU production as demand and funding allow. By the first quarter of 2029, Centrus has stated its objective to increase production to up to 6 MTU of HALEU annually. The DOE has recently announced the initial allocation of HALEU to select SMR developers, with X-energy receiving the first tranche equivalent of 4 MTU. The HALEU Availability Program is expected to provide X-energy a total supply of around 7.6 MTU, enough for X-energy's first Xe-100 plant with Dow. Consistent with these objectives, in January 2026, the DOE announced an additional \$2.7 billion in awards to strengthen domestic uranium enrichment services over a ten-year period, subject to contractual milestones and continued appropriations. These awards are intended to expand U.S. capacity for low-enriched uranium ("LEU") and to accelerate the development of new HALEU supply chains, with funding distributed through milestone-based task orders. The DOE awarded enrichment task orders with an estimated worth of \$900 million each to Centrus Energy's American Centrifuge Operating, General Matter, and Orano Federal Services to support the creation or expansion of domestic LEU and HALEU enrichment capacity, as well as additional funding to advance next-generation enrichment technologies. DOE also issued a smaller

award of \$28 million Global Laser Enrichment (“GLE”) to continue advancing next-generation uranium enrichment technology. GLE is currently undergoing licensing review with the NRC for an enrichment facility to be located in Kentucky. Centrus intends to expand out its American Centrifuge Plant for commercial operations, and General Matter and Orano Federal Services plan to build new enrichment plants in Kentucky and Tennessee, respectively.

Urenco USA is currently the only commercial enrichment plant operating in the United States, but has not yet expanded its operations to include HALEU production. Urenco USA has indicated that it is working with the NRC to amend its license for HALEU enrichment, with expansion and production targeted for the early 2030s. In parallel, Urenco Ltd., headquartered in the UK and the parent company of Urenco USA, is advancing HALEU enrichment capabilities in the UK with support from the UK government. In May 2024, the UK government announced funding of approximately GBP196 million to support the construction of a HALEU-capable enrichment facility at Urenco’s Capenhurst site in northwest England. Urenco has indicated that this facility is intended to have the capacity to produce up to approximately 10 metric tons of HALEU per year and to be commercially available by approximately 2031, subject to regulatory approvals, project execution, and continued government support. If successfully developed, these efforts could contribute to diversifying global HALEU supply and reducing reliance on foreign sources, although availability, timing, and eligibility for specific projects will depend on applicable regulatory, commercial, and policy considerations.

The DOE is also researching advanced fuel cycle and spent fuel recycling technologies to support long-term energy security and advanced reactors, although the United States does not currently recycle commercial spent fuel and any future deployment would require significant policy, regulatory, and technological developments.

- **Advanced Reactors Can Provide Supplemental Power to the Grid.** Several utilities have identified value-add opportunities to use SMRs, like the Xe-100, for power generation to meet the growing electricity demand from their customers. A few examples in North America include the following: the Tennessee Valley Authority and Canadian Ontario Power Generation have each advanced regulatory proceedings for SMR projects within their respective jurisdictions, with Ontario Power Generation receiving a nuclear power reactor construction license from the Canadian Nuclear Safety Commission in April 2025; Dominion Energy is evaluating potential scenarios for SMR development, including publicly discussed concepts involving multiple units beginning in the mid-2030s; Constellation Energy is engaging with customers regarding potential SMR deployments at certain existing sites, increasing deployment speed and efficiency by avoiding certain grid connections, security infrastructure, and other incremental requirements for nuclear deployments; and in late-2025, Duke Energy filed an early site permit (ESP) application with the NRC for a potential SMR project in North Carolina to replace aging coal-fired units at the existing power generation facility.

SMRs like the Xe-100 are attractive to utilities for several reasons including:

- i. **Targeted Incremental Load Growth.** Load growth in many areas of the U.S. does not support the need for very large, centralized capacity additions that traditional nuclear LWRs provide, but rather, requires more incremental, distributed capacity that SMRs are able to provide. SMRs, because of their smaller, configurable capacities, allow for better matching of incremental load needs to more rapidly supplement existing facilities and benefit from existing site infrastructure.
- ii. **Safety Case and Relatively Smaller Operational Footprint.** Due to the smaller operational footprint relative to alternatives, SMRs can be sited on existing, soon to be retired, or retired power plant locations. In doing so, utilities can benefit from existing approved siting and permitting, serving as a compelling option to deliver incremental, continuous baseload power more quickly and cheaply than greenfield sites.
- iii. **Financing Accessibility and Reduced Project Risk.** SMRs, given their size, carry a lower capital investment burden than do traditional LWRs, making SMRs more accessible to customers including utilities. The costs to deploy traditional LWRs can reach \$20.0 billion or more, representing a significant undertaking and financial pressure, even for larger utilities. SMRs, on the other hand, can be financed and built in phases, thereby offering smaller capital outlays that can be spread over

several years while delivering power to the grid sooner than LWRs. This phased, repeated deployment also represents lower risk due to simpler, smaller construction projects with less capital at risk as compared to LWR projects, which have traditionally suffered from significant cost and schedule overruns.

- iv. **Proximity to Load Centers and Transmission Efficiency.** SMRs' small land requirements and superior safety case enable siting near existing load centers. By locating generation closer to demand, utilities can reduce or avoid the need for long, new transmission laterals that are often required for remote wind or solar resources, lowering interconnection costs, shortening schedules, and mitigating right-of-way, permitting, and community opposition risks. Closer siting also curtails line losses and congestion, improving delivered-cost economics and grid reliability while easing pressure on constrained transmission corridors. Repowering existing sites with SMRs may allow utilities to leverage established infrastructure, substation capacity, and prior environmental reviews, further accelerating deployment timelines and reducing execution risk.

Competitive Strengths

As pioneers of next generation nuclear reactor and fuel technologies, we believe that our collective expertise can allow us to capitalize on our competitive strengths. We believe we will establish a leadership position in the evolving market, including by leveraging the strengths of our early customer relationships to give us a differentiated path to success.

Existing Customer Base Provides Initial Momentum and Support. Both Dow and Amazon have supported our initial projects, and we expect will serve as offtake customers in the future. These initial projects also enable X-energy's goal of scaling its design to two different offtake customer applications: Industrial Heat Applications and Data Center Projects. Dow and Amazon also provide project development insight through their own operations portfolios. X-energy expects to learn from and engage with these and other customers as it builds the pipeline. This repeatable project schedule, which is also anticipated for the recently announced Centrica partnership, is expected to enable X-energy to scale from First-of-a-Kind to an Nth-of-a-Kind model that we believe will reduce our project cost and significantly derisk future projects.

Differentiated Design that Provides Attractive Solution for Customers. The characteristics of the Xe-100 provide several advantages over many other energy production alternatives. First, traditional renewables like wind and solar cannot provide reliable baseload power without being paired with longer-term storage technologies. They are also dependent on exogenous factors, which make them incapable of quickly ramping up to address increases in demand. Second, the Xe-100 has a versatile design that can be applied to several end markets, including industrial heat and conventional power generation. In addition, other emerging SMR technologies, many of which are based on conventional LWR technology, may not be designed to efficiently load-follow or operate at temperatures high enough to provide industrial heat, and are further constrained by the availability of large amounts of water, a constraint that the Xe-100 does not have.

Improved Proven Technology. Unlike some other advanced reactor technologies, X-energy is leveraging HTGR technology that has been previously deployed across the globe, including in the U.S. at Peach Bottom and in the U.K. at Dorset (Dragon), and building on more than 50 years of research and development by the global nuclear industry. Both of these reactors served as proof-of-concept for the HTGR technology in the U.S. and, along with other HTGRs in Europe and Asia, provide valuable experience and data that X-energy has used to improve its design, leading to a more efficient, commercially deployable technology.

Intrinsically Safer Based on Physics without Needing Active Safety Systems. Our simplified Xe-100 reactor design is not dependent upon active safety systems, which are susceptible to failure and therefore necessitate the redundancy found in a typical LWR reactor design. Our design relies on physics and intrinsic safety features, such that in the event of a total loss of power to a Xe-100 reactor, the reactor does not require any operator or computer actions, grid connections, emergency backup power or additional water to cool the reactor. The reactor has a strong negative temperature coefficient, which means that increased temperature (such as from the loss of coolant circulation) slows the fission reaction, causing the reactor to shut down. Finally, due to the relatively low power density of the core, the remaining heat load is naturally dissipated through passive cooling.

Superior Fuel Based on Decades of Research & Development. We expect our TRISO-X fuel to demonstrate technical quality and a streamlined fuel qualification pathway, providing us a competitive edge in the commercial fabrication of TRISO fuel forms. The TRISO-X fuel used in the Xe-100 is a containment vessel itself and designed not to melt, enabling the technological and safety advantages of the HTGR. Due to decades of research, development and testing, including the DOE's Advanced Gas Reactor (AGR) Fuel Development and Qualification Program, the TRISO-X particle fuel is relatively well understood. This historical data has established the parameters for TRISO-X fuel testing and qualification. Our TRISO-X pebble fuel qualification methodology is approved by the NRC, and we have a streamlined path towards final fuel qualification by the time of our first Xe-100 deployment.

Attractive Intellectual Property-Driven Business Model. X-energy serves as both a reactor technology provider and a fuel fabrication provider, offering customers an integrated solution. In our reactor business line, we expect to receive technology fees for licensing use of our proprietary Xe-100 technology, while also receiving fees for coordinating assembly and construction support with customers and anticipated blue-chip third-party vendors. We also intend to leverage our knowledge and expertise in regulatory licensing, construction, procurement, operations, maintenance and other processes to provide customers with a full suite of services from the development of a project, and ultimately for the operating life of the reactors. We do not construct the power plants and do not plan to own or operate the power plants once constructed and, as a result, do not incur capital expenditures relating to constructing, maintaining, owning or operating the facilities. However, we intend to remain involved with the EPC process throughout the project by providing strategic consulting related to the integration of the reactor technology. We believe this intellectual property-driven business model will position us to generate attractive free cash flow.

Leading TRISO Fuel Provider. From our TRISO-X fuel manufacturing facilities in Oak Ridge, Tennessee, X-energy plans to provide customers with initial reactor fuel loads of as well as ongoing delivery of TRISO-X fuel required to refuel plants over the lifetime of a plant. This provision of fuel to our customers would generate a strong, recurring, revenue stream. X-energy's fuel can also be fabricated for other advanced reactor technologies, making it a key enabler of the broader advancement of the SMR space. X-energy was selected to receive one of the first allocations of HALEU from the DOE. This HALEU is required to begin initial fuel production but X-energy does not, and does not intend to, bear any significant inventory risk associated with uranium or fuel feedstock. We intend to provide only fabrication supply services (e.g., transformation of HALEU into the final TRISO-X fuel form) for customers and assume limited risks associated with holding the uranium or enriched uranium fuel feedstock.

Visionary Management Team and Highly Expert Employee Base. We have an experienced and passionate team of leaders and innovators who have been directly involved in the development of advanced nuclear technology and who have led large-scale nuclear projects and operations. As of January 1, 2026, we have a highly educated workforce of 889 employees, of whom 312 have master's degrees and 107 have Ph.Ds. Our executive leadership team has experience in nuclear design, nuclear project delivery, nuclear fuel fabrication, operations, government relations and public companies in organizations such as OPG, GEH, the DOE, the Nuclear Regulatory Commission, Constellation Energy, Hunt Consolidated, BWXT, Westinghouse, Hartree Partners, and Emirates Nuclear Energy Corporation. The management team is led by our CEO, J. Clay Sell, who is one of the foremost leaders in the U.S. energy market. As the former Deputy Secretary of the DOE, he brings the perspective of the U.S. energy industry to X-energy. Further, his experience in renewables development after his time as Deputy Secretary has given him key experience in major project development and valuable insight into the limitations of intermittent renewable technologies, and in turn the value of nuclear generation.

Strength of Government Relationships. The ARDP significantly derisks the delivery of X-energy's First-of-a-Kind reactor deployments through the Dow Project. Because of the 50/50 cost share program, X-energy has had significant ongoing engagement with the DOE and benefits from the DOE's collective knowledge and support. Further, X-energy has developed high credibility with the Nuclear Regulatory Commission through our ongoing engagement for both our FOAK Fuel Fabrication facility and Dow projects, evidenced by the docketing of the first Construction Permit Application for an 18-month review schedule, one of the shortest CPA timelines ever given.

Our Business Model

We have an intellectual property-driven business model based on our reactor and fuel. We expect to derive revenues from technology licensing, services and fuel operations that span the development and operation of the reactors.

- **Reactors:** The revenue stream from reactors includes technology fees for the use of our intellectual property of the Xe-100 technology. We will not own and operate the facilities themselves, which we believe significantly reduces the amount of capital needed to operate our business.

We anticipate offering site-specific engineering and site characterization, project planning, assembly coordination, construction support, regulatory support, procurement support and long-term services to customers. Utilizing our knowledge and expertise in licensing, construction, procurement and other processes, we plan to provide customers with a full suite of value-added services during development of the nuclear power facilities. At the same time, we expect to generate long-term recurring revenue from services such as the ongoing maintenance and operator training through the anticipated 60-year life of a facility.

- **Fuel:** We intend to provide manufacturing services to customers, including producing an initial fuel load of both TRISO-X fuel and an LEU-based TRISO fuel at commissioning of a plant. We expect to generate additional long-term recurring revenue from our own proprietary TRISO-X fuel that is required to refuel plants during the anticipated 60-year life of each facility. We expect to bear limited inventory risks related to uranium or enriched uranium fuel feedstock. We intend to provide only fabrication supply services (e.g., transformation of HALEU into the final TRISO-X fuel form) for customers and assume limited risks associated with holding the uranium or enriched uranium fuel feedstock. Additionally, we will not have any responsibility for spent fuel management beyond the design of such facilities to adequately handle spent fuel during the life of the plant. During operations, spent fuel remains the responsibility of the plant operator. Thereafter, permanent spent fuel management remains the responsibility of the DOE.

Lifecycle unit economics

We expect each of the four reactor Xe-100 projects (each such optimized four-reactor configuration referred to as a “plant”) to generate between approximately \$2.4 and \$4.7 billion in aggregate revenue across both our reactor business line and our fuel business lines, beginning with the pre-development phase of the plant and continuing through the plant’s anticipated operational design life of 60 years after the COD of such plant.

Reactor. Revenues from our reactor business line are expected to be comprised of both our technology fee and fees from our services offerings. We expect to earn these fees beginning with the pre-COD development phase of the plant and continuing throughout the operational life of such plant. We expect approximately 15 – 35% of revenue generated in our reactor line of business to be realized prior to (and including) COD. Within that approximately 15-35% of pre-COD revenue, we expect to charge both a technology fee, which we expect to earn across various plant development milestones before COD, and services fees related to reactor development. The remaining approximately 65-85% of revenue from our reactor line of business is expected to be from the provision of long-term services offered post-COD. We expect to charge our services offerings to customers based on time and materials, and based on our anticipated pricing of our services fees, we expect to generate approximately 20 – 30% of gross margin on these services. Our technology fee is expected to be charged to customers for use of our intellectual property and has no associated cost.

Fuel. Revenues from our fuel pebble fabrication business line are expected to be comprised of fees generated from selling an initial fuel load at COD and from selling additional pebble fuel throughout the operational life of a plant. We intend to generate fuel revenue from fabrication fees that we can charge to customers throughout the plant’s expected operational life. We expect the initial fuel load at COD to be equivalent to approximately 5% of each plant’s lifetime fuel needs (approximately 3 years), which represents approximately 10% of the total revenue we expect to generate from the fuel business line for each plant. Following COD, we expect continuous online refueling to generate approximately 90% of our fuel revenue through the remainder of the plant’s anticipated operational design life of 60 years. Given our vertically integrated business model, we have flexibility in the fabrication fees we charge customers, and we anticipate

that as our fuel manufacturing capabilities scale and efficiency and utilization increase, our unit operating costs for fuel fabrication will decrease.

The table below provides an illustration of the expected timing and nature of the cash flows that we anticipate being able to generate from a single plant, based on and subject to the assumptions set forth below. Dollar figures below are in millions unless otherwise noted. Dollar figures are rounded to the nearest \$5.0 million, percentages are rounded to the nearest 5%:

	Total Plant Life*		
	Customer Fees	Cost to X-energy	Target Margin
Reactor (Technology fee)	\$50 – 300	\$ —	100%
Reactor (Services)	\$800 – 1,300	\$565 – 930	20% – 30%
Fuel	\$1,560 – 3,125	\$1,095 – 1,250	30% – 60%
Total	\$2,410 – 4,725	\$1,660 – 2,180	30% – 55%

* Total Plant Life includes up to eight years prior to COD, COD, and 60 years following COD.

Key Assumptions Underlying Unit Economics

General

The table above illustrates management's current expectations regarding the relative allocation of customer fees, our costs, and resulting margins across business lines for a single plant. The figures are illustrative and based on the assumptions summarized below; they are not forecasts, targets, or guidance. Our ability to achieve the illustrative customer fees, cost, revenue and margins are sensitive to a variety of factors further described below and under "Risk Factors" elsewhere in this prospectus. Actual outcomes will depend on variables including customer negotiations and fee structures, market conditions, supply-chain costs and dynamics, manufacturing efficiency and utilization, financing assumptions, and customer adoption of optional service packages, any of which could cause material differences from the figures presented above. The table above assumes the plant is fully supplied from both TX-1 and TX-2; future plants that require additional fuel facilities may differ in cash flow. This "Lifecycle unit economics" discussion should be read together with "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations of X-energy," "Business," and our consolidated financial statements.

Technology Fee Structure and Pricing Assumptions

We expect to charge a technology fee for customers' use of our Xe-100 technology intellectual property. For purposes of this section, the assumed fee reflects benchmarking of IP licensing and industrial technology fees across various similar industries and sectors, together with the experience of our team and ongoing customer discussions. The final fee will be negotiated on a case by case basis, reflecting project timing, customer profile and scope, and is expected to be paid over multiple development milestones, with the full amount paid by COD. Fees may change over time as plants come online, the technology matures, and competitors emerge.

The customer fee range reflects variability in the technology fee component, with lower fees assumed for initial plants and higher fees for later plants after scaling and validation. Because the technology fee relates to use of our intellectual property, the associated cost to us in the table above is assumed to be zero. We have not yet entered into technology, intellectual property or related agreements, and we can provide no assurances that customers will accept our anticipated fee structure or pricing.

Services Business Fee Structure and Pricing Assumptions

We plan to provide a full suite of services across all phases of project development, including site selection, permitting, engineering, training, and procurement support, and following COD, ongoing maintenance and operator training through the design life of a plant. These activities are organized around industry-standard front-end loading (FEL 0 – FEL 4) phases. For this section, services pricing is assumed on a cost-plus basis, comprising direct labor and overhead with a targeted margin informed by revenue generated to date from the

provision of initial strategic business and other services we've provided to customers and potential customers, as well as from industry benchmarking and our team's collective experience. We expect limited pre-COD services revenue, as most services fees are expected to be generated post-COD. Additionally, we assume that post-COD reactor revenue is services-only revenue, as the technology fee is expected to be paid in full by COD. Lastly, for each plant, we assume that customers will continue to rely on us as a service provider throughout the operational life of such plant. We do not construct, own, or operate plants and therefore do not incur related capital expenditures. As a result, the costs reflected above do not reflect the total cost required to build reactors, which cost is primarily borne by our customers and may be substantial.

Reactor costs to us reflect only services costs and consist of estimated direct costs, including labor, overhead, and other costs, which are subject to change with market dynamics and competition. Customer fees include a services component based on the targeted margin applied to these costs. To date, we have entered into limited services agreements and there is no assurance that customers will accept our overall proposed and anticipated fee structure or pricing or continue to contract solely with us in future periods. The presence of third-party service providers could introduce price competition, thereby reducing revenue and increasing costs.

Fuel Model and Assumptions

We intend to provide the initial fuel load at COD and to generate recurring revenue from our proprietary TRISO-X fuel required for refueling over the anticipated 60-year plant life. Each plant requires an initial core load (covering roughly the first three years of operation), followed by steady replenishment. We assume that we are the initial sole supplier of our proprietary fuel and that customers purchase all fuel from us. The emergence of third-party TRISO suppliers could introduce price competition, reduce revenue, and increase costs.

Fuel customer fees and revenue are based on an assumed price per pebble estimated from our fuel costs, including labor, materials, and overhead. Pricing is intended to recover operating, variable, and fixed costs and to provide a target margin sufficient to support financing of future fuel facilities, assuming a minimum utilization level. We expect to provide fabrication services only and do not anticipate bearing inventory risk for uranium or feedstock. We will not be responsible for spent fuel management beyond designing facilities to handle spent fuel during plant operations. Accordingly, the illustrative figures do not reflect inventory or spent fuel management costs.

The range of fuel customer fees primarily reflects the estimated price-per-pebble range, which may be affected by efficiency improvements, cost reductions, and external supplier dynamics. The range of fuel costs to us reflects operating, fixed, and variable costs, including labor, overhead, and other inputs, all of which may change with market conditions and competition. We have not yet entered into fuel supply agreements, and there is no assurance that customers will accept the anticipated fee structure or pricing or continue to purchase fuel solely from us.

Operating Lifetime Assumptions

Our economics are based on an anticipated 60-year operating life of a reactor, subject to applicable licensing approvals and renewals. All nuclear power plants in the country have been designed with substantial safety, operational, and component performance margins. While the Atomic Energy Act of 1954 limits initial licensing to 40 years, the current operating fleet was designed to operate beyond that limit. Similarly, the Xe-100 is designed with substantial margins to support operation beyond the initial 40-year licensing term, subject to future NRC approval. The NRC established a license renewal program that permits licensees to seek approval for subsequent 20-year operating periods. In license renewal, the NRC focuses on evaluating whether aging management programs adequately address the effects of aging on structures, systems, and components important to safety. For much of the current operating fleet, license renewal requirements were not in place at the time of initial licensing, and comprehensive aging management programs were therefore developed and reviewed as part of the license renewal process. Almost every U.S. commercial nuclear power plant operates under a renewed license, valid for years 40 – 60 of potential total operations, and the NRC is now reviewing applications for "subsequent license renewal," valid for years 60 – 80 years of potential operations.

For the Xe-100, because the design contemplates long-term operations, X-energy is incorporating aging management considerations into the reactor design from the outset. With the establishment and

implementation of these programs from initial commissioning, the Xe-100 is expected to be well positioned to support future license renewal applications, although NRC approval is not assured. It should also be noted that the NRC license renewal process is well established, and the NRC has approved the majority of license renewal applications to date; however, approvals are based on the specific facts and record of each application. For these reasons, X-energy believes that its approach to design and aging management should significantly reduce the risk associated with future license renewal; however, it does not entirely eliminate this risk. While the NRC license renewal process is well established and the majority of applications have been approved, the NRC has, in limited circumstances, denied or reversed license renewal approvals where applications failed to satisfy applicable safety, environmental, or regulatory requirements. Accordingly, X-energy believes that its proactive approach to aging management and regulatory compliance meaningfully mitigates, but does not eliminate, license renewal risk.

Growth Strategies

We intend to grow our business by leveraging the competitive advantages of our differentiated and reliable Xe-100 technology and our strong customer and government relationships to achieve scale. We believe we have several avenues to achieve our growth objectives:

Continue to Develop our Next Generation Technology. We intend to continue developing our reactor and fuel technology with the goal of achieving commercial delivery of our first fleets of reactors by the early 2030s. We have substantially advanced detailed design for the Xe-100 and are working with our engineering and construction partners to complete that process. Furthermore, we will work with our initial Xe-100 customers to complete the site-specific environmental studies required for licensing and progress toward the submission of the construction permit application, including the preliminary safety analysis report. We have produced TRISO-X pebble fuel in kilogram batch quantities in our fuel fabrication pilot facility and have begun construction on North America's first purpose-built commercial advanced nuclear fuel fabrication facility in Oak Ridge, Tennessee.

Execute on Attractive Business Development Pipeline. We believe the market for our Xe-100 and TRISO-X fuel technologies is wherever non-intermittent, reliable power is needed. We are initially focused on deploying our advanced SMRs to both industrial (including large-scale chemical manufacturing) and cloud-based service provider customers (e.g. data centers) who have needs for both electric power and efficient production of high-temperature steam with high reliability needs. We also plan to serve traditional utilities and IPPs seeking to replace carbon-intensive fossil-fueled power plants in their jurisdictions.

Leverage Repeated Project Execution Learnings to Scale From FOAK to NOAK. Traditional nuclear has been plagued by cost and schedule overruns. Vogtle units 3 & 4 cost more than \$16.0 billion each and were seven years over schedule in part because they were the first and second AP1000 reactors deployed in the U.S. While the fourth unit was reportedly approximately 20% less expensive than the third as learnings were applied, achieving expected Nth-of-a-Kind scale with standard costs and schedule timelines is possible only through repeated project delivery over a large order book. The DOE and industry experts expect that Nth-of-a-Kind delivery can unlock potential savings of more than 30%. Starting with Dow and Amazon, X-energy is already working to deliver eight reactors across its first announced sites at Seadrift, Texas and Richland, Washington, respectively. With substantial potential for further targeted pipeline with Amazon and Centrica, we expect to be able to achieve reductions in costs and the acceleration of schedule timelines as we deliver more reactors in the future. We believe that NOAK will be achieved through repetitive project execution and financial de-risking, including early supply chain engagement, construction timeline compression, and regulatory streamlining. As we apply lessons learned from each deployment, we expect these steps will significantly reduce overall project execution costs and risks for subsequent Xe-100 projects.

Continue Geographic Expansion. Our initial core markets are the U.S., Canada and the U.K., which have sophisticated regulators that are capable of licensing our technology. Beyond these initial geographies, which together represent only one-third of the serviceable energy consumption, we anticipate expansion into new markets where we already have customer engagement, including countries in Eastern Europe, the Middle East and East Asia.

Drive Technology Advancements. Using our innovative technology platform, we believe that we are well-positioned to continue making technology advancements over time. These improvements include optimizing

the Xe-100 for industrial heat applications and innovations in the design to support steam outlet temperatures greater than 800° C to support more efficient hydrogen production processes.

Develop New Products. We continue to explore the development of innovative new products based on our core technology and varied use cases for our proprietary Xe-100 reactor, TRISO-X fuel and other microreactor technologies. TRISO-X is currently performing fuel fabrication work for others whose reactor technologies also use TRISO-based fuel, including space applications. Similarly, our Emerging Technologies team is involved in U.S. government-funded studies (such as those from the DOD) for innovative remote powering and lunar applications that may involve our microreactor and related technologies.

Our Technology

X-energy was founded by Kam Ghaffarian. The technology used today was matured through the Pebble Bed Modular Reactor program, a South African public-private partnership which advanced high temperature gas-cooled reactor technology. X-energy initially focused on the conceptual design of the Xe-100, discussed below, with an emphasis on top-level requirements designed to meet the broadest set of use cases. The company has continued to mature the Xe-100 design and has expanded into the production of TRISO fuel. Finally, X-energy has developed the design for the XENITH microreactor and we continue to invest in other research and development efforts.

Xe-100 — Our Advanced Reactor Technology

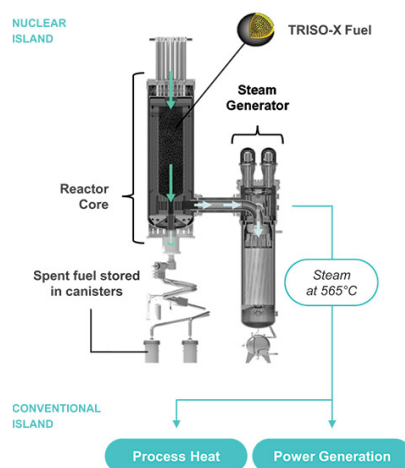


The Xe-100 is an HTGR designed to offer potential advantages in economics, reliability and safety over conventional LWRs and other advanced SMR designs. The Xe-100 is a Generation IV advanced nuclear technology intended to address certain limitations of LWR designs. The Xe-100 can efficiently produce electricity or process heat. When configured for electricity generation, each reactor is designed to support an approximately 80 MWe turbine generator. Deployment of these reactors is scalable and is optimized in a four-reactor configuration, forming an approximately 320 MWe power plant.

After several years of development, the Xe-100 design has progressed into what is known as the preliminary design phase, the second of three typical engineering design phases. Design finalization is occurring in parallel with development of initial customer projects to ensure the design appropriately reflects customer needs and site-specific requirements. Once the standard reactor design reaches maturity, the development and licensing process is expected to be more streamlined for subsequent customer projects, although project-specific requirements will continue to apply.

The Xe-100 has made substantial progress in the NRC licensing process in the U.S. After several years of pre-application engagement, we supported Dow's subsidiary, Long Mott Energy, LLC, in submitting a construction permit application to NRC for the proposed advanced nuclear project utilizing the Xe-100 reactor design in Dow's Seadrift, Texas site. The pre-application engagement was intended to help reduce licensing risk, as regulatory challenges or delays can materially affect a project's timing, cost, design, or overall viability. Citing the completeness and quality of the application, and the effectiveness of pre-application engagements, the NRC established an 18-month review schedule to complete its safety and technical reviews for the Dow Construction Permit Application.

Xe-100 Schematic



One Xe-100 plant produces 320 MWe¹

Note: Figure is intended to represent an illustrative rendering and is for illustrative purposes only.

The Xe-100 has the following characteristics:

- **Cleaner and more reliable** — Like all nuclear reactors, HTGRs produce virtually zero direct GHG emissions during energy generation, are “always” on (at 95%+ availability), and provide firm, dispatchable power that is cleaner than most available firm alternatives.
 - Online refueling capabilities designed to enable the Xe-100 to meet a requirement of 95%+ plant availability, unlike conventional nuclear facilities, which require shutdown and refueling every 18 – 24 months.
 - Four individual reactors feeding into a common source allows for enhanced reliability so that even under downtime for a single reactor, customer electricity and steam requirements can be continuously met.
 - Nuclear power has no carbon emissions from the power production, offering a cleaner alternative for major cloud-based service providers and industrial customers with decarbonization targets.
 - Reactor is designed for the 60+ year operational life, longer than traditional natural gas burner alternatives and providing long-term certainty for customers.
 - High burn-up fuel cycle (165,000 megawatt-days per ton of uranium) means the Xe-100 utilizes its fuel around 4.0x more efficiently than conventional reactors.
- **Designed with Intrinsic Safety Features** — The Xe-100 HTGR is safer by design and because of the intrinsic physics of the reactor, requires fewer mechanical safety systems than traditional nuclear as well as fewer personnel for operations.
 - The Xe-100 leverages passive safety features and the inherent physics of its High Temperature Gas-cooled Reactor (HTGR) core, which is designed to shut down safely without operator intervention or external power in the event of an emergency.
 - The Xe-100 requires only about one-sixth the number of active mechanical safety systems typically found in traditional large-scale LWR nuclear plants, such as those used in the current U.S. commercial fleet.

- This reduction is achieved by eliminating the need for systems like emergency core cooling, large-scale backup power, and extensive active containment measures, which are standard in conventional nuclear designs.
- With only four operator-controlled variables (control rods, helium circulator, feedwater pump and turbine throttle valve), opportunities for operator error are drastically reduced, and automated operations allow for significantly lower operator workload.
- Because of the low source term, the Xe-100 plant design requires a significantly smaller emergency planning zone of 400 meters compared to 16-kilometer zone required for traditional LWR nuclear plants.
- This compact safety footprint enables the use of commercial-grade structures for most of the site, rather than the specialized nuclear safety-grade construction required for conventional reactors, and allows for greater flexibility in siting the plant closer to end users and industrial facilities.
- *More Secure*—The TRISO-X pebble fuel is a containment vessel in itself, supporting the secure nature of the Xe-100.
 - The TRISO-X fuel pebble is a containment vessel in itself, made of layers of encased in graphite, pyrolytic carbon and silicon carbide, and designed not to melt due to its ability to withstand extreme temperatures.
 - TRISO-X fuel retains 99.99% of all radionuclides during operation and severe accidents.
 - Each Xe-100 will use approximately 220,000 of our TRISO-X fuel pebbles, with approximately 18,000 uranium oxycarbide TRISO-X fuel particles in each pebble, which helps to contain fission products and aids in long term nuclear waste storage.
 - Pebbles remain in the reactor longer and burn off higher-risk byproducts compared to other advanced reactor concepts.
 - At full power approximately 175 pebbles are cycled into the reactor daily. Each pebble travels through the fuel handling system core on average 6 times before disposal.
 - After a pebble has cycled through the reactor, the spent reactor fuel is itself a containment vessel, with limited remaining fissile material, substantially limiting proliferation risks.
 - Spent fuel can then be transferred directly into dry storage, reducing risk for spent fuel management. Long-term fuel storage is the responsibility of DOE.
- *Scalable*—The Xe-100 is expected to be commonly deployed in its optimized four-reactor configuration of 320 MWe, referred to as the “Xe-100 plant,” with the opportunity to scale on site to additional reactors as needed.
 - We believe the 320 MWe power profile of the four-reactor deployment (and its highly scalable nature) is uniquely suited to meet data center demand.
 - The Xe-100 is expected to have lower overall construction costs compared to traditional large-scale nuclear reactors, due to its modular design, use of factory-fabricated components, and simplified safety systems.
 - These features are intended to reduce the complexity and duration of on-site construction, minimize labor requirements, and allow for more predictable project schedules.
 - As a result, historically significant challenges for conventional nuclear projects such as the risk of cost overruns and delays is substantially reduced.
 - This cost efficiency not only broadens the addressable market for advanced nuclear but also makes the Xe-100 an attractive option for customers seeking firm, clean power at a competitive price point.
- *Streamlined*—Due to its superior intrinsic safety attributes, the Xe-100 design needs fewer safety-related specialized materials and therefore utilizes substantially more off-the-shelf components than traditional nuclear reactors, allowing for scalability from commercial vendors.

- Our elegant and simple design maximizes the use of off-the-shelf and factory-built components that are expected to be shipped to site using existing road and rail networks.
- A simpler reactor concept also minimizes complexity of the nuclear island development and construction.
- Strategic supply chain partners enable more off-site constructability and integration of key components and drastically reduces on-site construction costs, personnel, and time.
- We expect approximately 1/10th the number of people needed to construct compared to traditional nuclear.
- **Versatile** — In addition to electricity, the Xe-100 plant can be configured to deliver high temperature steam at 565°C, providing a solution for difficult-to-decarbonize industrial heat applications such as oil sands operations, mining, chemical production and petroleum refining and other industrial processes.
 - By using helium as a coolant, the Xe-100 is configured to withstand higher pressure that enables the reactor to deliver heat at higher temperatures (750°C helium outlet temperature and 565°C steam from the steam generator) than conventional light water reactors (around 300°C), which are impacted by a phase change (i.e., higher temperatures would require higher pressures in LWRs).
 - The Xe-100 provides necessary reliability of industrial heat applications in its commonly expected multiple-reactor deployment configuration, opening the market for industrial replacements and expanding TAM to behind-the-meter applications.
- **Load-following** — The Xe-100 is designed to ramp down from full power to 40% power in minutes and ramp back up in a similar short time span.
 - This capability allows for faster ramp for load-following than existing Generation III+ SMR and conventional large-scale nuclear technologies, providing near-immediate responsiveness to energy needs.
 - Allows the Xe-100 to be relevant in both restructured wholesale markets and regulated energy markets, as well as supporting intermittent wind and solar generation.

TRISO-X Pebble Fuel — Our Proprietary TRISO Fuel



Our reactors use TRISO particle fuel, a technology first developed in conjunction with the U.K.'s Dragon reactor in the 1960s. The DOE describes TRISO particles as “the most robust nuclear fuel on Earth.” We manufacture our own TRISO fuel using proprietary methods, through our wholly owned subsidiary, TRISO-X, LLC, to ensure supply and quality control. Further, many of the advanced nuclear reactor designs in development are expected to be powered by TRISO fuel or other coated-particle fuels. As part of our business model, we intend to not only fabricate and sell TRISO-X fuel to our customers but to also fabricate and sell TRISO-X fuel and other encapsulated fuels to other advanced nuclear reactor customers, including governmental and private entities.

We do not intend to hold significant inventory of uranium feedstock (i.e., HALEU and LEU) as we expect our customers to procure this feedstock. Our business will be responsible for manufacturing the final

fuel form using this feedstock and other components such as graphite at our TRISO-X facility. This final fuel form, in particular the TRISO-X pebble, will be delivered to customers for use in the reactor.

To be able to use this fuel in operating reactors, the fuel must first be qualified by the NRC. The TRISO-X pebble fuel qualification methodology has already been approved by the NRC. Following this methodology, X-energy is now undergoing irradiation testing on the TRISO-X pebbles at Idaho National Lab. This process began in 2025 and the campaign has an expected end date in the fourth quarter of 2026. Data from this campaign is then used in the subsequent testing, evaluation, and ultimate qualification of our fuel form by the NRC.

At commissioning, the initial fuel load for the reactor core of the Xe-100 will include both ‘blank’ graphite pebbles, LEU-based TRISO pebbles and HALEU-based TRISO-X fuel. This configuration enables the reactor core to transition to an equilibrium condition after core power density is established.

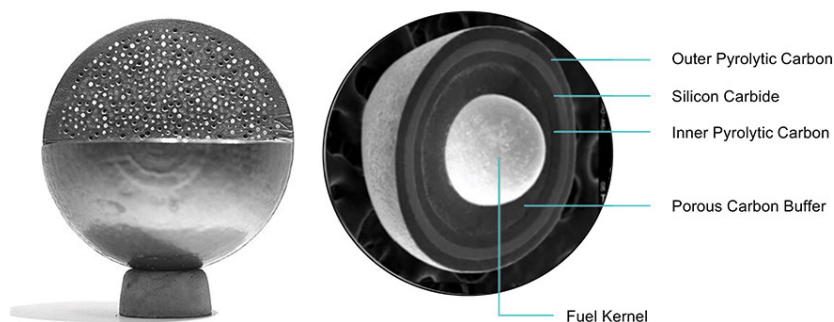
Using the reactor’s fuel handling system, the Xe-100 reactor will first cycle out the graphite ‘blanks’ for the LEU-based pebbles to establish full power and temperature. The LEU-based TRISO-X fuel will then cycle out of the reactor for the HALEU-based TRISO-X fuel pebbles until the reactor operates on continuous refueling of TRISO-X fuel. This initial core load is expected to support the first approximately 5% of the plant’s life, but the initial core load is expected to generate approximately 10% of lifetime fuel revenues, with ongoing needs for additional refueling being sold through additional contracts.

Safe, established fuel form: While TRISO fuel is already an established fuel after decades of research and development, we expect our proprietary fabrication method to further differentiate our TRISO-X fuel and deliver a competitive edge in the commercial fabrication of TRISO fuel forms. We anticipate our patented and novel process will demonstrate superior quality characteristics as well as economic performance compared to historical TRISO and potential future TRISO competitors. The TRISO-X pebble fuel is a containment vessel in itself, encased in graphite, pyrolytic carbon and silicon carbide and designed not to melt due to its ability to withstand extreme temperatures. After HALEU has been encased in a TRISO pebble form, security and proliferation risks are substantially reduced. Its robust nature allows for passive safety and, we expect a small emergency planning zone for our reactors, providing additional flexibility in site design and access to non-traditional nuclear markets and customers.

Robust integrity: Our TRISO-X pebble fuel is designed not to melt due to its robust construction. This structure minimizes the requirement for the extensive use of expensive and large concrete and steel containment structures typically required in conventional reactors. TRISO-X fuel’s unique characteristics:

- At the heart of the TRISO-X fuel particle is the uranium oxycarbide kernel, which utilizes HALEU for higher energy content than the low-enriched uranium (LEU) used in conventional LWRs.
- Each fuel kernel is surrounded by four barrier layers that act in concert to support the uranium-containing kernel, moderate nuclear reactions, ensure passive safety and contain fission products.
- These particles are designed to retain their integrity during most foreseeable adverse conditions.
- The set of boundary layers act as functional containment for the radioactive fission products in the fuel kernel.
- The robust graphite pebble, about the size of a billiard ball, contains approximately 18,000 of these TRISO particles.

TRISO-X Fuel X-energy's Proprietary TRISO Fuel



Integrated fuel fabrication business: We currently manufacture TRISO-X fuel in our TRISO-X Pilot Facility in Oak Ridge, Tennessee, which has operated since 2016. In February 2026, we received a Special Nuclear Material License from the NRC that establishes TX-1 as the first-ever Category II nuclear fuel facility licensed in the United States. TX-1 will be a state-of-the-art Category II nuclear facility designed specifically for handling and processing HALEU feedstock for the fabrication of TRISO-X pebble fuel. We anticipate constructing TX-2 on the same site, which will allow for the license to extend to both facilities. We do not expect to hold significant inventory of the fuel feedstock, which we expect to be procured by our customers. Our business will be fabricating the pebble fuels into their final fuel form for customers to purchase for operation of the Xe-100 reactor and its refueling needs. There are currently no commercial-scale facilities in the U.S. capable of fabricating HALEU fuel, allowing us the opportunity to address a key gap in the advanced nuclear fuel supply chain through TX-1. Planning for TX-2 is already underway, which will further expand our TRISO-X fuel production.

Path to qualification due to extensive R&D: The ability to leverage decades of prior TRISO research and development, particularly the DOE's Advanced Gas Reactor (AGR) Fuel Development Program, provides X-energy with a well-defined pathway for fuel qualification. X-energy's TRISO-X Pebble Fuel Qualification Methodology has been approved by the NRC and references the AGR test results as a basis for qualification. This established framework provides X-energy a streamlined path towards obtaining qualified TRISO-X fuel by the time of its first Xe-100 deployment. Based on the approved fuel qualification methodology, we are currently in the irradiation test phase and in the final stages of qualifying our TRISO-X pebble fuel.

Long-term revenues derisked: We plan to provide our Xe-100 customers with their initial fuel loads while generating additional long-term and recurring revenue streams by refueling Xe-100 reactors throughout their anticipated 60-plus year lives. We further assume that we will be the initial sole supplier of proprietary TRISO-X fuel. Our business model is structured so that customers retain ownership and responsibility for procuring uranium and fuel feedstock, which is intended to insulate X-energy from commodity price volatility and supply chain disruptions. Further, we have no responsibility for management of spent fuel as that function is the responsibility of plant owner and operators, which roles we do not intend to participate in. We believe that our ability to achieve economies of scale through dedicated fuel fabrication facilities and our vertically integrated business model will enable us to be a low-cost provider of TRISO-X fuel, which we believe will be a key driver of customer retention and market competitiveness.

Research and Development

In addition to our core Xe-100 reactor, we continue to innovate and develop new products with our Emerging Technologies team. We are expanding our portfolio to address a broader range of energy needs and use cases beyond utility-scale power generation.

Our design team brings decades of experience from HTGR pebble-bed design programs in Germany and South Africa, combined with veterans of the DOE National Laboratories.

XENITH Microreactor



We have developed the XENITH microreactor, a compact solution designed to deliver reliable energy in locations where traditional power infrastructure is unavailable, impractical or vulnerable. XENITH is designed to be deployed in months and operate continuously for 20 years, delivering 3-10 MWe of electricity with minimal maintenance requirements.

XENITH is not yet operational but is currently exploring commercialization opportunities. The development of the microreactor began in the Pele program through the U.S. Department of Defense, for which X-energy was awarded approximately \$60 million in various contracts. Conceptual design was progressed during Pele Phase 1 and 2, and design work has continued into what is now the XENITH microreactor. The microreactor is likely to be deployed in a 5 MWe format, or as dual reactors in a 10 MWe electric format.

Like the Xe-100, XENITH is also a High Temperature Gas-cooled reactor that runs on TRISO fuel. The required fuel is expected to be in the form of compacts rather than pebbles. The expected operating temperature is 750 degrees Celsius. The value proposition is expected to be as follows:

- **Scalable Power.** Factory-built, transportable nuclear energy solution that prioritizes rapid site readiness and compatibility with existing infrastructure to support deployment in a wide range of locations.
- **Resilient & Reliable.** Provides reliable, long-term power with no required refueling over the 20-year lifetime, eliminating vulnerability to supply chain disruptions while providing 24/7 reliability.
- **Tailored to the Target Market.** Military, defense, and remote applications, including potential for black-starts, and remote communities that require secure, independent power.

Space Applications

Our innovative HTGR design and high-temperature-resistant fuel make a unique and compelling combination for nuclear electric propulsion, nuclear thermal propulsion and lunar surface power.

Our use of robust TRISO fuel in combination with innovative reactor designs and advanced moderator materials, all work together to increase the efficiency of the fission reaction while minimizing bulk and weight, keeping the reactor light enough for spaceflight. These characteristics have allowed us to develop viable concepts for a Fission Surface Power (FSP) reactor. This concept was studied through a joint venture award from the DOE and the U.S. National Aeronautics and Space Administration (NASA) in June 2022 to advance the design of a FSP solution.

OUR PROJECT DEVELOPMENT APPROACH

X-energy works closely with our customers throughout the project lifecycle to help avoid unexpected cost overruns in the future. In some cases, our experienced team has been able to identify equipment or design solutions to help reduce costs. We also expect to use learnings on the initial projects to bring down future costs.

We believe the ability to identify cost-reduction solutions, particularly compared to traditional nuclear, gives us an advantage over other competitors who may face cost overruns or other project delays.

Traditional nuclear has consistently suffered from historical project delays and cost overruns. Vogtle units 3 & 4 were \$16.0 billion+ and seven years over schedule in part because they were the first and second AP1000 reactors deployed in the U.S. While numerous factors contributed to the overruns at Vogtle units 3 & 4, core causes included an incomplete design and a fixed price agreement that led to a change in contractor after the original EPC contractor, Westinghouse, filed for bankruptcy after construction had already begun. The project subsequently was taken over by Southern Company who acted as project manager and hired Bechtel as the prime construction contractor to bring Vogtle units 3 & 4 to completion.

We are currently focused on delivering our first two projects with Dow and Energy Northwest/Amazon. We believe achieving Nth-of-a-kind scale with standard costs and schedule timelines is possible only through repeated project delivery over a large orderbook. As part of our commercialization strategy to deliver at scale, X-energy intends to support delivery of its own projects. We believe our success is dependent on leveraging economies of learning and replication, and overseeing the full development cycle of projects enables customer-centric support.

X-energy intends to partner with customers and EPC contractors to finance, build, and repeat projects. We expect to oversee projects from origination to delivery and coordinate project development. As part of our business model, in addition to fuel fabrication services, we intend to offer customers a suite of value-added services during development of the reactor given our expertise on regulatory, construction, procurement and other processes. Additionally, we may deploy development capital to fund early stages of future projects and to invest alongside future customers to drive an accelerated path for Xe-100 deployments.

Similar to the “design one, build many” approach that has been utilized in the oil & gas industry to deliver large-scale projects like offshore oil platforms and liquefied natural gas terminals, X-energy intends leverage its repeated order book learnings to accelerate construction timelines and reduce costs with successive deployments. Along with our project development platform, our supply chain and EPC partners are crucial to our strategy. We intend to optimize our supply chain around the modular nature of the Xe-100 to drive construction timeline acceleration. Additionally, we intend to partner with experienced EPC partners to ensure repeatable project delivery, bringing together the policy, finance and company support to help deliver our projects.

Early in the construction process, we will work with our customers to obtain the permits necessary to build and operate the projects. In determining what permits are required, we intend to engage local counsel to help us understand the requirements of state and local authorities applicable to each project. We typically intend to commence the permitting or licensing process during the early stages of development due to the length of time it typically takes to complete. For the Dow project, the CPA was docketed with the NRC in May 2025 with an 18 month review schedule. X-energy maintains a strong relationship with the NRC and works closely with customers on submitting the necessary permits. Getting an early start on permitting and licensing is important in helping to de-risk our projects, because permitting and licensing challenges or delays can have significant impacts on a project’s timeline or design, or in some cases its viability. During the permitting and licensing process, we will also seek to promote long-term community support for our projects.

As part of the permitting and licensing processes, we not only intend to support our customers in securing the permits and licenses necessary to construct and operate projects, but we also plan to work with our and our customers’ EPC and O&M contractors and partners to ensure they have plans in place to monitor permit compliance during construction and operational phases.

OUR CUSTOMERS

Dow

Dow is X-energy’s first customer to receive a reactor and is a global leader in the specialty chemicals industry, involved in the manufacturing and distribution of a wide range of chemical and plastic products. In the course of its annual operations, Dow produces over 12 million MWh of electricity and is committed to the ongoing decarbonization of its operations.

X-energy has partnered through an MPDA and CCA with Dow to provide our services in support of a FOAK deployment of four Xe-100 reactors to provide power with virtually zero direct GHG emissions and industrial steam at Dow's UCC Seadrift site in Texas. The CCA establishes governance and commercial frameworks to advance the ARDP-supported deployment of Xe-100 reactors at Dow's Seadrift site and guide future cooperation, including a joint steering committee with core principles of mutual cooperation and shared FOAK risk and benefit. With the support and assistance of X-energy, Long Mott Energy, LLC, a wholly owned subsidiary of Dow, filed a CPA with the NRC in March 2025 which was docketed in May 2025 for an 18-month review period with an expected review completion by late 2026 and receipt of the CPA expected in the first quarter of 2027. Initial construction can commence after receipt of the CPA.

Dow provides expertise in plant design and industrial heat as well as in the development of the Xe-100's first plant, which will be a first-of-its-kind co-generation facility with unique heat capabilities not available in other technologies. Under the CCA, as between the parties, X-energy will own the IP related to the reactor systems, controls, software, and related nuclear plant technologies, as well as fuel technology-related IP, created by the parties for this project. As between the parties, Dow will own all of the IP related to the non-nuclear systems that turn reactor steam into electricity and run steam and water for the facility, as well as IP for equipment and processes that sit outside both the nuclear and conventional plant areas, created by the parties for this project.

Amazon

After an extensive evaluation of potential carbon free generation solutions for its extensive data center footprint, Amazon made an equity investment in X-energy in 2024 and announced options to bring more than 5 GWe of new Xe-100 projects online across the U.S. by 2039, which assuming full exercise of these options, will represent the largest commercial deployment target of SMRs to date as of August 2025.

The first deployment under this 5 GWe total potential target is a project with Energy Northwest in central Washington. Amazon and Energy Northwest entered into a Carbon Free Development and Funding Agreement for an initial deployment of four reactors representing 320 MWe, with the potential to upsize the power capacity to 960 MWe.

X-energy has entered into commercial arrangements with Amazon, which provide for, among other things, a deployment and financing model that X-energy plans to pursue more broadly through infrastructure and utility partners. The arrangements also grant Amazon options and allocation rights intended to facilitate project development. For more information regarding our agreements with Amazon, see "Risk Factors — Our sales and profitability may be impacted by, and we may incur liabilities as a result of, terms to certain customers, our failure to meet performance guarantees under customer contracts or customer safety standards."

Centrica

Centrica is a major provider of energy services across the U.K. and owns a 20% stake in the full fleet of operating nuclear reactors in the country. In September 2025, X-energy and Centrica signed a JDA dedicated to building and operating Xe-100 reactors in the U.K. The JDA identifies initial activities including U.K.-specific planning model translation, and execution of de-risking work packages in licensing, technology, and commercial domains, largely on a non-binding basis. Under the JDA, Centrica and the Company have the opportunity to consider options to collaborate on other Xe-100 deployments, subject to further diligence and negotiation. The announcement followed a pledge from President Donald Trump and Prime Minister Keir Starmer to work together on nuclear power and constitutes a new strategic commercial alliance to accelerate the deployment of SMRs, bringing together a leading player in delivering the U.K.'s clean energy future and the developer of the world's most advanced nuclear technology.

The Xe-100 was selected after a significant review period by Centrica of advanced Gen IV nuclear technologies. Centrica prioritized partnership with X-energy because of the reactor's safety and capabilities for industrial heat that Centrica sees as key to expansion in the U.K. market. The U.K. government is currently pursuing a "three-legged" approach to nuclear development, designed to ensure a diverse and resilient nuclear energy sector. Under this strategy, the first "leg" focuses on large-scale nuclear projects, such as those being developed in partnership with EDF, to provide substantial baseload power. The second "leg" supports the

deployment of Gen III+ light water SMRs, with Rolls Royce's SMR technology selected as the leading solution in this category. The third "leg" is dedicated to other small and advanced modular reactors, including HTGRs like Xe-100, which are prioritized for their potential to deliver both electricity and high-grade industrial heat, supporting decarbonization across a range of sectors.

X-energy and Centrica have identified Hartlepool as the preferred site for the first of a planned U.K. fleet of approximately six GWe (representative of 76 reactors likely deployed as 19 four-reactor configurations). A project at Hartlepool will be comprised of up to twelve 80 MWe reactors, each with the capability to provide high temperature steam for industrial decarbonization. Subject to securing appropriate permissions and licenses, the first electricity generation is expected to be in the mid-2030s.

OTHER KEY PARTNERSHIPS

Department of Energy

Through the ARDP, we are partnering with DOE and others to build the world's first commercial scale advanced nuclear reactor. In December 2020, X-energy, initially in collaboration with Energy Northwest, was selected for an award, initially in the amount of \$1.2 billion to deliver a first-of-a-kind commercial advanced nuclear plant and TRISO-X fuel fabrication facility. This project is now being developed with Dow with continued financial support from the DOE on a 50/50 cost share basis. As one of only two parties selected out of many applicants for the ARDP, X-energy was recognized as having an advanced reactor technology of choice.

The cooperative agreement for the program, signed in February 2021 (the "ARDP Agreement"), provides 50/50 cost share of \$2.4 billion of eligible costs (\$1.2 billion reimbursement) through 2027, allowing X-energy to continue work toward design, licensing, commercialization and construction of its first-of-a-kind commercial advanced nuclear plant and commercial TRISO-X fuel fabrication facility, while benefiting from decades of nuclear experience and knowledge within the DOE.

The Company is constructing and will own the fuel facility subject to the government's rights in property set forth in 2 CFR § 200.311 and 2 CFR § 910.360, and insure it in accordance with 2 CFR 200.310-16. The DOE will obtain rights to the intellectual property ("IP") developed under ARDP Agreement consistent with typical government retained IP rights under the Bayh-Dole Act, under the Small Business Patent Waiver, and DOE regulations. The federal government retains a nonexclusive, nontransferable, irrevocable, paid-up license for its own benefit. The DOE also retains march-in rights under the ARDP Agreement which allow the government, in specified circumstances, to require the contractor or successors in title to the patent to grant a nonexclusive, partially exclusive, or exclusive license to a responsible applicant or applicants. If the patent owner refuses to do so, the government may grant the license itself. The DOE will fund a portion of the direct and indirect costs incurred for the research and development costs to develop the IP and the costs of developing and constructing both the TRISO-X fuel facility and Xe-100 demonstrator reactor. The funding is subject to future government appropriations which may not occur, and the government is able to cancel the contract at any time without incurring a substantive penalty.

As of December 31, 2025, we have been reimbursed approximately \$438 million in funding under the ARDP. We submit our budgets through an ongoing "budget period" basis tied to project milestones under the ARDP Agreement, and our current budget covers a budget period that began in March of 2025 and extends through August 2026. We submit a Continuation Application to the DOE to extend funding into subsequent periods. Extensions beyond the current budget period are subject to DOE discretion and approval. Under the terms of the ARDP Agreement that rely on the Office of Management and Budget (OMB) guidance, the total extension of the award may not exceed three years (for a total period of performance of 10 years). Any additional extension would require an approval within DOE above the level of the Contracting Officer. Based on the original February 2021 award date, the maximum outside date for funding under the ARDP Agreement, assuming all extensions are granted, is expected to be in or around 2030. If we are unable to obtain extensions and incur eligible costs beyond the currently approved period of performance, we would forgo reimbursement for such costs and may face de-obligation of unobligated funds at closeout. There can be no assurance that we will receive additional ARDP funding beyond the current budget period or that extensions of the award will be granted. Dow, as our sub-awardee under the ARDP, is similarly subject to the budget period and extension

requirements, but does not need to separately seek or be included in any DOE-approved extensions in order for us to continue receiving reimbursement from the DOE for eligible costs.

If our award is not extended, we would expect a lapse in our ability to receive ARDP funding absent an approved extension, and any unobligated or unneeded DOE funds at closeout would not be available to us. Extensions under the ARDP Agreement are at the DOE's discretion and are subject to criteria including: (1) availability of appropriations; (2) availability of future-year budget authority; (3) substantial progress toward meeting project objectives; (4) submittal of required reports; and (5) compliance with the terms and conditions of the award. We continue to engage with the DOE to extend funding with additional funds that have been allocated to X-energy by the Office of Nuclear Energy, including through applications for additional budget periods to cover subsequent design activities as part of the overall ARDP program. Dow has been named a sub-awardee under the ARDP in connection with their involvement with the development and construction of the demonstrator reactor. The Dow project's construction permit is anticipated to be received in the first quarter of 2027, after which initial construction can commence, with a target commercial operations date in the early 2030s. The Dow project timeline extends beyond our current budget period and may extend beyond the maximum period of performance under the ARDP Agreement, depending on whether extensions are granted and the pace of project development. If the ARDP funding period expires or is not extended before the Dow project reaches completion, Dow would then be requested to fund the remaining project costs without the benefit of ARDP reimbursement, which could affect Dow's willingness to proceed with the project and our ability to complete the ARDP demonstrator reactor.

Ontario Power Generation

In 2022, X-energy and OPG entered into a framework agreement to work exclusively with one another with respect to advanced nuclear power industrial applications in Ontario, Canada, and to co-market and advance the Xe-100 as the nuclear technology of choice for industrial applications throughout Canada. OPG will be the operator of any Xe-100 facilities that are deployed under this agreement. OPG is also an equity investor in X-energy.

Talen Energy Corporation

In March 2026, X-energy and Talen Energy Corporation ("Talen") signed a Letter of Intent ("Talen LOI") to assess deployment of X-Energy's Xe-100 reactors in Pennsylvania and across the PJM Interconnection Regional Transmission Organization market. Under the Talen LOI, which is non-binding, X-energy and Talen plan to conduct early-stage project development activities, feasibility studies, site evaluations, and a project execution framework. The parties have not entered into binding agreements at this stage.

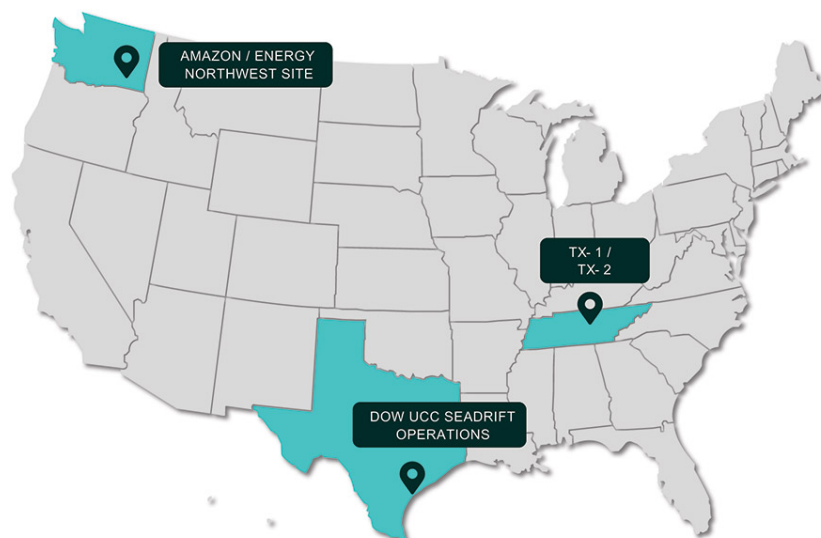
Department of Defense

We have an agreement with the U.S. DOD Defense Innovation Unit ("DIU") and the U.S. Department of the Air Force to advance the development of X-energy's commercial microreactor in alignment with the President's executive order to deploy advanced nuclear technologies at DOD installations to support U.S. national security. The agreement supports continued design and development for the X-energy XENITH microreactor under the Advanced Nuclear Power for Installations program, an initiative led by DIU in partnership with the Department of the Air Force. X-energy was also part of the 2019 initial selection for Project Pele to develop a prototype mobile nuclear reactor. Through these contracts, X-energy has been awarded over \$60.0 million on microreactor activities including engagement with the NRC on licensing. While the period of performance for the XENITH microreactor has expired, the DOD has continued to announce initiatives that maintain interest in the microreactor program.

Under the Project Pele Agreement, the Company leads the design, analysis, testing and systems engineering needed to develop a prototype mobile nuclear reactor and works with the DOD to help it achieve its objectives under Project Pele. The Company is paid a fixed amount for each milestone accomplished in accordance with the key objectives and milestones set out in the agreement, in addition to reimbursement of certain costs incurred. The DOD has certain rights in patents and data pursuant to the Project Pele Agreement, and may terminate the Project Pele Agreement if such termination is in the DOD's best interest.

OUR KEY PROJECTS

Below is a geographic overview of our three current projects, which is followed by a detailed description of each project.

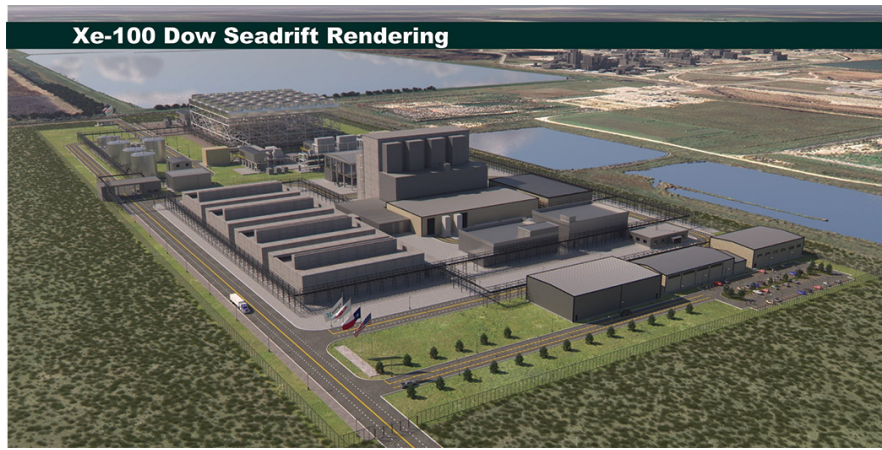


Reactor Projects

Dow's UCC Seadrift

Dow and X-energy have entered into an MPDA to deliver the inaugural X-energy advanced nuclear reactor at Dow's UCC Seadrift manufacturing site ("Seadrift") in Texas. The project will be the first grid-scale advanced nuclear reactor deployment for an industrial site in North America and will help to decarbonize the operation by providing both process heat and electric power. Seadrift site production includes consumer products used every day in homes, schools, offices, hospitals, vehicles and by other industries, producing more than 4 billion pounds of materials per year across a wide variety of applications including food packaging and preservation, footwear, wire and cable insulation, solar cell membranes, and packaging for medical and pharmaceutical products.

The plant will be comprised of four reactors (320 MWe) and supply all of the site's electricity and steam demand. Dow's UCC Seadrift site spans around 4,700 acres and is Dow's second largest facility in Texas. This project supports Dow's corporate sustainability goals and is expected to reduce the site's emissions by 440,000 MT CO₂e/year.

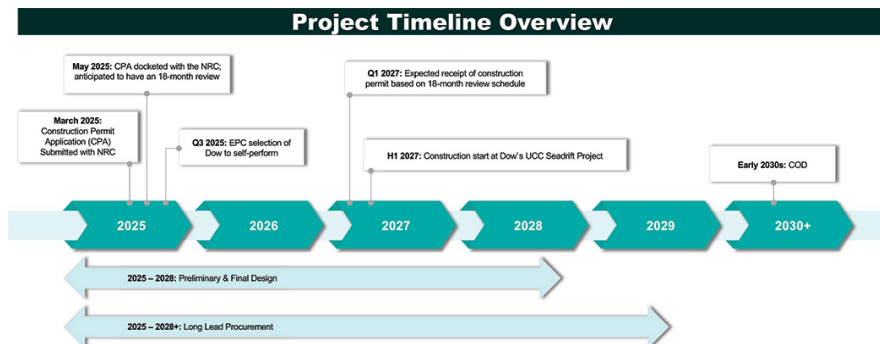


Note: Figure is intended to represent a proposed rendering and is for illustrative purposes only.

The project benefits from the ARDP cooperative agreement with the DOE. This includes 50/50 cost share in the project. The project also includes substantial production and investment tax incentives from the Inflation Reduction Act. Through the ARDP, X-energy receives from the DOE 50% of the cost of designing the Xe-100. X-energy also receives 50% of the cost of TX-1, its first fuel fabrication facility. Finally, X-energy's first customer to construct a reactor, Dow, is eligible to receive 50% of the cost to build the first four-pack of Xe-100s, at Seadrift, Texas, which significantly mitigates the risks of building a first of its kind advanced reactor project.

We continuously update the DOE throughout the year regarding our spending against our milestones and are currently funded through at least August 2026 through a Continuation Application. As part of the Continuation Application process, we submit updated budgets to the DOE for each budget period, including cost estimates and supporting justification. These updated estimates are subject to DOE review and approval and may differ materially from prior estimates.

Key Timeline Highlights of our Dow Project



Development of project milestones:

— Preliminary & Final Design:

- Once Dow became our customer, our engineering design process was done in conjunction with them. The Xe-100 is in the second of three engineering design phases. Ongoing engineering and design work includes adapting to the commercial expectations of the customer, including specific seismic requirements and customer use cases. In the case of Dow, we expect some of the output of the four Xe-100 reactors to be for industrial steam for Dow's chemical plant.
- We expect to enter into the final design phase (phase 3) according to Dow's development process in 2027. The final design phase would culminate in a final investment decision that would lead to the beginning of major nuclear construction, though preliminary construction is expected to begin before this time. These stage gates are designed to unlock key funding tied to milestones.

— Licensing:

- March and May 2025: With the support and assistance of X-energy, Long Mott Energy, LLC, a wholly owned subsidiary of Dow submitted a CPA to the Nuclear Regulatory Commission ("NRC") in March 2025. The NRC docketed the application in May 2025 and established an 18-month review schedule, with completion of the review currently expected by late 2026 and issuance of the CPA anticipated in the first quarter of 2027. The NRC's review process includes environmental, geological, and geotechnical work intended to evaluate site characteristics to help ensure that the Xe-100 plant is designed and constructed based on the site's unique characteristics. Subject to receipt of the CPA and other required approvals, construction is expected to begin in 2027, with a target commercial operations date in the early 2030s.
- At the appropriate time we expect our customers would submit an operating license agreement (OLA) to the NRC to be able to operate the reactor.

— Construction & readiness:

- Site construction is expected to begin in the first half of 2027 after receipt of the construction permit application from the NRC.
- Dow and X-energy have been coordinating on the financing and strategy for long lead procurement items, beginning in 2025, that are required to support the construction, commissioning and commencement of operations of the reactor expected in the early 2030s.

The agreement supports Dow's sustainability targets. The project is set to create thousands of jobs during peak construction and hundreds of full-time, family-wage jobs during operation.

The Dow project's Construction Permit Application is anticipated to be received in the first quarter of 2027, following which construction can commence, and its commercial operations date is expected to be in the early 2030s. This timeline extends beyond our current ARDP budget period, which runs through August 2026, and beyond the maximum period of performance under the ARDP Agreement, even assuming all extensions are obtained. Based on the original February 2021 award date, the outside date for ARDP funding is expected to be in or around 2030 (assuming the maximum three-year extension is granted). Accordingly, construction activities scheduled to occur after 2030 would not be eligible for ARDP reimbursement without a modification or change in the ARDP award, which would require approval within the DOE at a level above the Contracting Officer.

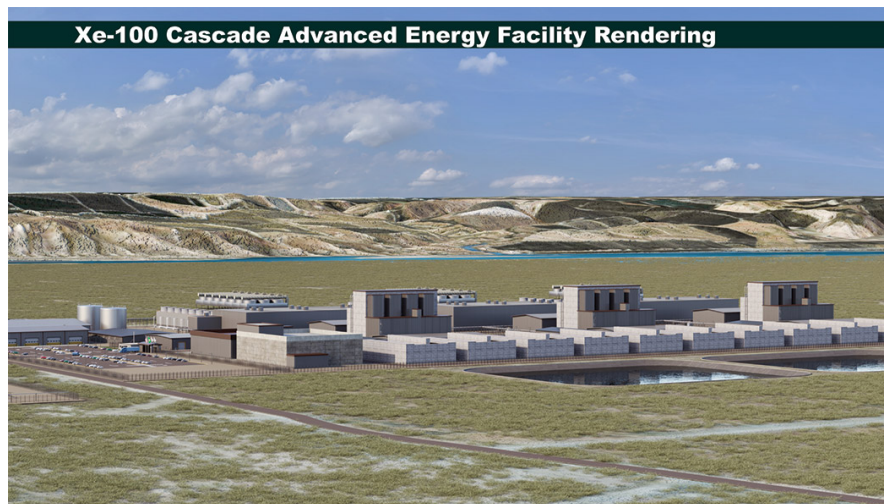
For activities occurring beyond the ARDP funding period, Dow would be requested to fund the entirety of remaining project costs without the benefit of 50% ARDP reimbursement if they continue to fund the project. The precise funding requirement that would need to be borne by Dow absent ARDP reimbursement depends on the stage of project completion at the time ARDP funding expires, the scope of remaining construction activities, and market conditions at that time.

As of December 31, 2025, we have been reimbursed approximately \$438 million in funding under the ARDP. We submit our budgets through an ongoing "budget period" basis under the ARDP Agreement, and our current budget covers a budget period that began in March of 2025 and extends through August 2026. If extensions are not granted or if the project timeline extends further than currently anticipated, the incremental funding requirement that Dow would need to bear could increase materially. Any such increase could affect Dow's final investment decision, cause delays or modifications to the project scope or timeline, or lead Dow to

terminate its participation in the project. If Dow does not proceed with the project, X-energy is under no obligation to continue funding to the Dow project or construction on the plant itself; however, we would need to identify an alternative partner under the ARDP Agreement. See “*Risk Factors — The Dow project timeline extends beyond the ARDP funding period, which could result in significant incremental funding requirements for Dow and adversely affect the project.*”

Amazon / Energy Northwest — Cascade Advanced Energy Facility

Energy Northwest is a Washington state public power joint operating agency and a premier provider of carbon-free electricity through its existing ownership of the Columbia Generating station, a 1.2 GWe nuclear power plant in Richland, WA. In 2024 Energy Northwest and Amazon entered into the Carbon Free Development and Funding Agreement for an initial deployment of four reactors representing 320 MWe at the Columbia site, with the potential to upsize the power capacity to 960 MWe enough to power the equivalent of 770,000+ U.S. homes.

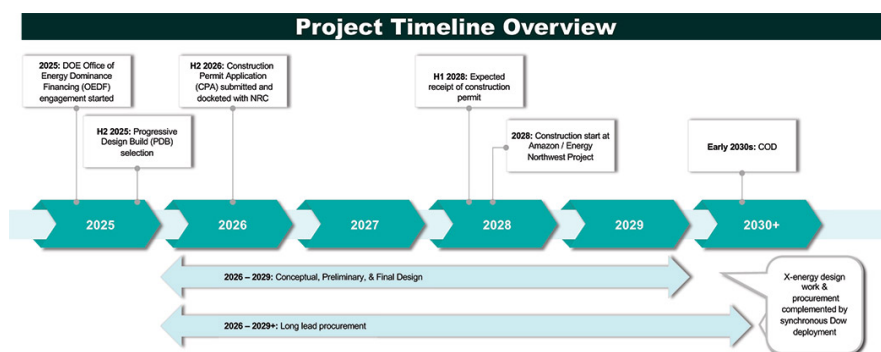


Note: Figure is intended to represent a proposed rendering and is for illustrative purposes only.

As part of the agreement Amazon also made a direct investment in the project and the power will be available to Amazon and northwest utilities to power homes and businesses. Public power utilities will have the opportunity to purchase up to 50% of the power from the full 960 MWe project. Initial site engineering work is underway. CPA is targeted for submission to the NRC by the end of 2026.

The agreement supports Amazon’s Climate Pledge commitment to reach net-zero carbon across their operation by 2040. The project is set to create 1,000-2,000 jobs during peak construction and 100-200 full-time, family-wage jobs during operation.

Key Timeline Highlights of our Amazon Project



Development of project milestones:

— Conceptual, Preliminary & Final Design:

- As we finalize our design as part of the Dow project, we will integrate the site-specific design requirements at the Energy Northwest project, which is expected to generate electricity from all four reactors. As of the date of this prospectus, we are in the Conceptual Site Design stage.
- The Energy Northwest project utilizes a progressive design build process, so the EPC was brought on board in 2025.

— Licensing:

- The Amazon / Energy Northwest CPA is targeted for submission to the NRC by the end of 2026. The construction permit is anticipated to be received in 2028, with construction commencing shortly thereafter.
- By the start of construction, engagement with the Office of Energy Dominance Financing is expected to be underway, and engineering work is expected to have commenced. The project is targeting Commercial Operations in the early 2030s.
- At the appropriate time we expect our customer (Energy Northwest) would submit an operating license agreement (OLA) to the NRC to be able to operate the reactor.

— Construction & readiness:

- Site construction is expected to begin in the first half of 2028 after receipt of the construction permit application from the NRC.
- Energy Northwest, Amazon, and X-energy have been coordinating on the financing and strategy for long lead procurement items, beginning in 2026, that are required to support the construction, commissioning and commencement of operations of the reactor expected in the early 2030s.

Fuel Projects

Fuel Fabrication Pilot Facility

X-energy has a TRISO-X fuel fabrication pilot facility at Oak Ridge National Laboratory. The pilot plant has been operational since 2016 and is currently producing kilogram batch quantities of TRISO-X fuel for development purposes. The Pilot Facility is planned to be temporarily shut down and relocated from Oak Ridge National Laboratory to property in Oak Ridge, TN for “TX-L”, which will be adjacent to the TX-1 site. The proposed TX-L will then serve as the ‘laboratory’ for future TRISO-X fuel development.



TX-1

TX-1, located in Oak Ridge, Tennessee, will be the first-in-the-nation commercial advanced nuclear fuel fabrication facility. The facility will manufacture X-energy's TRISO fuel using proprietary methods. Once complete, TX-1 will be the first Category II Fuel Fabrication Facility licensed by the NRC in the U.S. with an estimated throughput of 5 metric tons of uranium ("MTU") per year or approximately 700,000 TRISO-X pebbles per year, enough fuel for up to 11 Xe-100 reactors.

Part of X-energy's participation in the DOE ARDP award encompasses the Phase 2A of the TX-1 facility construction, including the completion of the core and shell of the 214 thousand square foot facility. In parallel, X-energy has received approval from the DOE to authorize an additional approximately \$30.0 million for early procurement of critical long-lead equipment and materials to support the successful delivery of subsequent construction phases and ensure adherence to the overall project schedule. Lastly, TX-1 was granted an approximately \$150.0 million tax credit by the DOE in recognition of its status as a U.S. FOAK advanced nuclear fuel fabrication facility, subject to the project successfully reaching certain milestones.

X-energy has completed an internal 60% Design Review and is planning for internal 90% Design Reviews to begin in May 2026. In February 2026, we received a Special Nuclear Material License from the NRC that establishes TX-1 as the first-ever Category II nuclear fuel facility licensed in the United States, enabling TRISO-X to commercially manufacture fuel using HALEU at its TX-1 site under an initial 40-year license. We anticipate constructing TX-2 on the same site, which will allow for the license to extend to both facilities. This NRC license approval formally establishes TX-1 and TX-2 as the first new fuel facilities licensed by the NRC in approximately 50 years, with TX-1 set to become the first-ever Category II nuclear fuel facility licensed in the United States. X-energy is using Geiger Brothers for the site development phase of the TX-1 site. Site preparation is substantially complete. Clark Construction Group has been selected to conduct the vertical construction phase (2A), which began in September 2025. Facility construction / equipment installation Phase 2B construction is set to commence mid-2026 with expected completion in 2027 for target operations beginning in the first half of 2028.



Note: Figure is intended to represent a proposed rendering and is for illustrative purposes only.

TX-2

Planning is also underway for a subsequent advanced nuclear fuel fabrication facility, which may utilize available space on the same site at TX-1 (as seen in the graphic above as “TX-2”). Future facilities modelled after TX-2 would be expected to have larger production output than TX-1 and support fuel for up to 44 Xe-100 reactors annually. The expected capacity would be 25 MTU with an anticipated 20 MTU throughput. This equates to about 2,800,000 TRISO-X pebbles per year. An NRC license would be required for these facilities. X-energy anticipates building TX-2 adjacent to and on the same property as TX-1, in which case a new license for TX-2 would not be required. If TX-2 is built on a different property than currently contemplated, a separate NRC operating license would be required; in that case, however, X-energy expects that elements of the TX-1 licensing basis, programs and regulatory approvals could be leveraged or referenced, as appropriate, to support the license application for the TX-2 facility.



Note: Placement of proposed TX-1 and TX-2 sites are not to scale and should be considered illustrative

Other

Existing Frederick Operator Training Facility

Funded partially through the ARDP, our existing Operator Training Facility in Frederick, Maryland opened in March 2023. This facility encompasses 10,447 square feet and supports several key activities related to the Xe-100 reactor program. One of the primary functions at this site is the development of a full-scale ANSI 3.5 Xe-100 simulator, which is intended to serve as a true representation of the Xe-100 plant. The simulator will incorporate all process models of Xe-100 reactors, instrumentation and control sensors and other essential elements to create an environment suitable for training and licensing Xe-100 operators prior to the initial fuel loading of the first Xe-100 reactor. This facility supports designing the Xe-100 control room and constructing a replica control room where operators will receive their training. A single Xe-100 control room is expected to be capable of managing up to twelve Xe-100 reactors.

In addition to simulator development, the Operator Training Facility is responsible for creating the operational procedures required to control the Xe-100 plant. These procedures will be developed and displayed on a computerized procedure system that we are developing, and will serve as the foundation for training materials used by Xe-100 operators. Operator training itself is conducted in a classroom environment, where our customers will be able to utilize both the simulator and our training materials to gain practical experience.

The Operator Training Facility supports elements of human factors engineering, including the task analysis consistent with NRC guidance such as NUREG-0711, which is used to inform the design of the Xe-100 control room and simulator. This analysis also helps determine the workload on Xe-100 operators, which is necessary for calculating the appropriate number of operators required in the control room.

Expanded Frederick Testing and Training Facility—XTAC

For its long-term ambitions, X-energy is developing a state-of-the-art 90,000 square foot non-nuclear test and training facility in Frederick, MD. This facility will ensure key components of the Xe-100 perform safely and reliably under real-world conditions before full-scale manufacturing and deployment. The building is anticipated to accommodate a helium test facility designed for full-scale integrated systems testing within a

pressurized helium environment. Additionally, it will feature an experimental test facility dedicated to the testing and prototyping of essential reactor components and materials.

X-energy had received conditional approval from the DOE to proceed with building procurement, which has now been completed, with a 50% cost share arrangement with the DOE through the ARDP. X-energy also has the potential to receive up to \$6.15 million in state and local support through job creation tax credits, conditional loans, and grants. X-energy has secured a DOE National Environmental Policy Act (NEPA) Categorical Exclusion for the building, meaning no Environmental Impact Statement or Assessment is required.

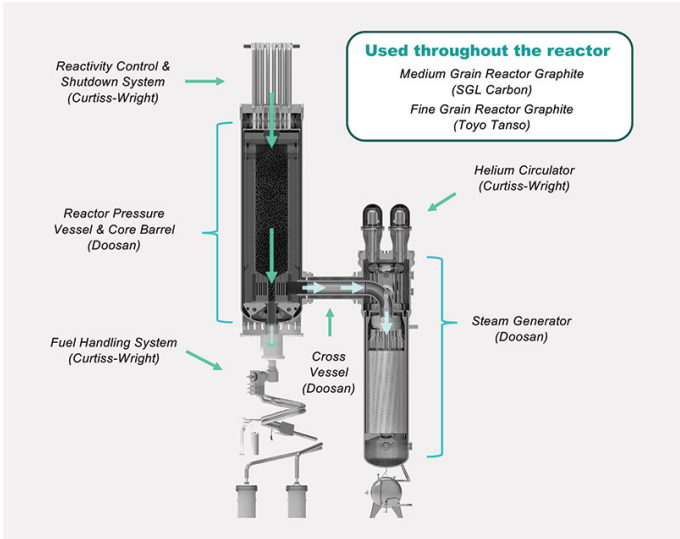
For a description of our other facilities and properties, see “Facilities Overview” included elsewhere in this prospectus.

SUPPLY CHAIN

X-energy has established an extensive, global supply chain ecosystem for the Xe-100. We have strategic and commercial partnerships that allow X-energy to leverage established players in the nuclear industry to manufacture key components, including the reactor pressure vessel & core barrel, fuel handling system, burnup measurement block, helium circulator, steam generator, fine grain reactor graphite, medium grain reactor graphite, and reactivity control & shutdown system. X-energy has signed Preferred Strategic Supplier Agreements (“PSSAs”) with key suppliers for critical Xe-100 components and systems and has built partnerships with key component providers. Throughout the process, X-energy has been working closely with suppliers in all phases of design, equipment supply, fabrication, and construction.

X-energy is differentiated in its vertically integrated fuel supply model with in-house fuel fabrication capabilities. The U.S. Government, through the DOE and HALEU Availability Program, are creating pathways toward a U.S.-based commercial enrichment supply chain with capabilities to produce HALEU domestically. X-energy received a granting of initial allocation of HALEU in April 2025. The DOE is actively working to provide surety of offtake to establish a domestic commercial supply of enriched uranium. Through partnerships with companies like Centrus Energy, which has already produced approximately 1 MT of HALEU to date for the DOE through its pilot cascade, the DOE is focused on creating domestic avenues for HALEU procurement.

Key components of the reactor with planned suppliers



Note: Figure is intended to represent an illustrative rendering and is for illustrative purposes only.

Our Key Supply Chain Partners

We have a network of partners that enable our growth and success. These partners include:

- **Curtiss-Wright.** Curtiss-Wright is a leading U.S. designer and supplier of critical nuclear power plant systems, equipment, services, and spare parts to the U.S. domestic and global nuclear power industry. Following several competitive bid processes, X-energy selected Curtiss-Wright as the successful bidder for multiple Xe-100 systems. Curtiss-Wright was selected as a preferred strategic supplier to X-energy for the ARDP and subsequent Xe-100 projects in the U.S. Curtiss-Wright is an equity investor in X-energy.
- **Doosan Enerbility.** Doosan is a preferred strategic supplier to X-energy. Doosan is a major global manufacturer and supplier of core components of nuclear power plants, such as reactor pressure vessels, steam generators, and steam turbines. Doosan has a vertically integrated manufacturing facility in Changwon, Korea, which is capable of raw material production to final assembly of nuclear components. Doosan has manufactured and supplied 34 reactor pressure vessels and 124 steam generators globally. Doosan is an equity investor in X-energy. In December 2025, Doosan signed a Reservation Agreement with X-energy, committing to the construction of a new SMR fabrication facility to support the execution of X-energy's more than 11 GWe commercial pipeline. Under the Reservation Agreement, Doosan will reserve forging capacity for 16 sets of key pressure-boundary components for the Xe-100 program in exchange for a non-refundable \$12 million reservation fee payable in two \$6 million installments and creditable against future purchase orders, with a \$1.5 million commitment fee per set if purchase orders are not placed on the agreed timeline. Doosan will reserve forging slots upon receipt of the reservation fee, and such fees may be creditable as down payments if orders are placed within specified windows, in connection with Doosan's proposed SMR fabrication facility. The Reservation Agreement provides for termination for convenience or cause, with customary notice and cure mechanics.
- **DL E&C.** DL E&C will work with X-energy to identify opportunities around the world to employ best practices to support the development and deployment of Xe-100 plants on a global scale. Founded in 1939, DL E&C has the longest business history among construction companies in Korea and has maintained a top ten Korean engineering and construction company ranking for the past 50+ years. DL E&C is the flagship company of DL Group, and has a broad range of experience in global mid/downstream energy sector engineering, procurement and construction, providing total services and solutions in more than 35 nations, focusing on a more sustainable and better future. DL E&C is an equity investor in X-energy.
- **Korea Hydro & Nuclear Power.** KHNP is the Korean entity that operates its nuclear and hydroelectric sector as a subsidiary of *KEPCO*, the majority state-owned utility. Since 1971, KHNP has successfully constructed and operated 30 nuclear power plants still in operation today, 26 in South Korea and four in the UAE. KHNP provides significant expertise in the construction of nuclear reactors. In August 2025, KHNP signed a joint compact with X-energy, Amazon, and Doosan outlining the intention to collaborate on the deployment of the Amazon order book in the U.S.
- **SGL Carbon LLC.** SGL is a developer and manufacturer of advanced carbon materials. X-energy and SGL have collaborated since 2015 on the qualification of NBG-18 graphite for use in the Xe-100, leveraging SGL's experience manufacturing graphite for high-temperature gas-cooled reactors. In January 2026, SGL announced a 10-year graphite supply agreement for reactor components of X-energy's Xe-100 SMRs, and has commenced production for the Dow Seadrift plant site as part of an initial three-year award valued at over \$100 million. The graphite supply agreement contains standard terms including a ten-year initial term with automatic renewals, purchase order-based releases with firm-fixed pricing and milestone payments secured by a corporate guarantee, delivery, packaging and shipping requirements with liquidated damages for delay and ASME-compliant quality assurance and audit rights. The graphite supply agreement provides for termination for convenience or cause, with customary notice and cure mechanics. It also includes intellectual property protections customary for

nuclear-grade materials supply arrangements, including an intellectual property escrow and a right of first refusal for the Company related to the NBG-18 intellectual property.

- **IHI Corporation (“IHI”).** IHI is a Japanese manufacturer and supplier of critical nuclear components. In March 2026, X-energy and IHI signed a Memorandum of Understanding (“IHI MOU”) that establishes a collaboration framework to explore opportunities for commercial-scale manufacturing of nuclear-grade components. Under the IHI MOU, X-energy and IHI will collaborate to assess manufacturing opportunities for critical, long-lead components used in X-energy’s Xe-100 reactors. The parties have not entered into binding agreements at this stage.

COMPETITION

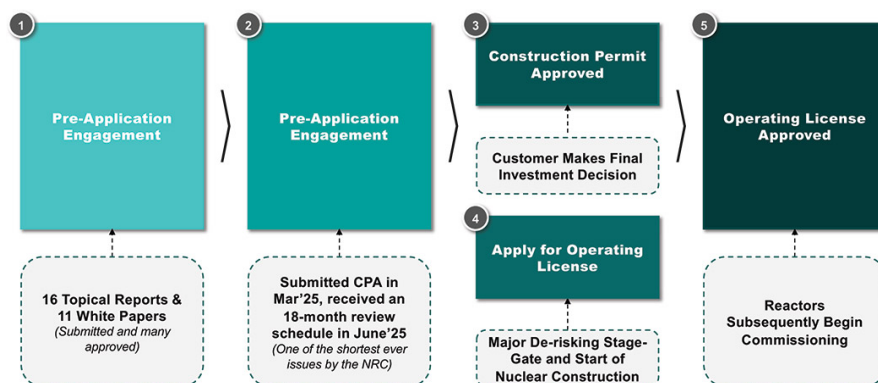
Our competitors include other power generation technologies, including traditional baseload power producers, other advanced nuclear technologies, renewables with or without storage, advanced energy storage, fossil fuels with carbon capture, and combinations of these technologies.

- **Traditional baseload** — Traditional baseload power includes natural gas, coal, oil and large-scale nuclear.
- **Fossil fuels with carbon capture** — Fossil fuel sources provide firm, baseload power, but require carbon capture technology to provide clean power. Carbon capture has not yet been demonstrated to be scalable to meet the market need.
- **Renewables with or without energy storage** — Wind and solar provide clean energy but cannot provide firm, baseload energy due to their intermittency. When paired with energy storage, they can provide a more dispatchable energy supply, but battery storage technology has not been demonstrated to be scalable or cost-effective to meet the growing market need, which demands reliability, particularly in energy-intensive applications.
- **Other advanced nuclear reactors** — There are several advanced reactor and SMR technologies in various stages of development, including high temperature gas-cooled reactors, molten salt reactors, fusion technologies, and advanced light water reactor designs.

REGULATORY OVERVIEW

Licensing

The regulatory pathway with the NRC for the FOAK reactor project is as follows:



X-energy has pursued a Part 50 two-step licensing process timeline, whereby the company first seeks the Construction Permit (up to 18 months) and then seeks an Operating License (up to 18 months). This process gives the company flexibility to modify reactor design if warranted to achieve better economics or performance.

without needing to restart the licensing process. The alternative, Part 52 combined licensing process, provides a streamlined combined Construction and Operating License Application (“COLA”). However, recent submissions under Part 52 have resulted in application re-submissions caused by changes in design on NRC findings or insufficient initial applications.

X-energy expects the regulatory review timeline to shrink materially as the NRC’s familiarity with the Xe-100 design increases. Additionally, the current U.S. government is focused on legislation to streamline permitting, and the current Administration has issued several Executive Orders to streamline licensing at the NRC, accelerate advanced reactor deployment at the DOE and DOD sites for national security and AI/data-center needs, overhaul the domestic nuclear fuel cycle, and strengthen the U.S. nuclear industrial base. Further, once X-energy achieves NOAK status and is no longer concerned with design changes impacting the regulatory design, a COLA process would further abbreviate the regulatory approval timeline. X-energy is developing novel strategies that are anticipated to enable the NRC regulatory review process to become as short as 6 months.

Potential Tax Credits per Standard Configuration of Xe-100 Reactors for Customers

The One Big Beautiful Bill Act (OBBBA) was signed into law in July 2025, maintaining the Clean Electricity Production Tax Credit (§45Y) and Clean Electricity Investment Tax Credit (§48E). These credits remain available to certain nuclear facilities that begin construction prior to 2033 before being phased out over four years. The OBBBA also expanded the 10% Production Tax Credit (§45Y) adder for nuclear facilities that are located in “energy communities” which includes certain designated metropolitan statistical areas with significant direct employment related to the advancement of nuclear power. Additionally, the FY26 appropriations bill, the “Commerce, Justice, Science; Energy and Water Development; and Interior and Environment Appropriations Act, 2026,” signed into law on January 23, 2026, in addition to the ongoing budget for nuclear energy, includes additional funding of \$3.1 billion to repurpose previously appropriated funds towards the DOE’s advanced nuclear programs including the Advanced Reactor Demonstration programs, some portion of which we expect will be allocated to X-energy. This financial support demonstrates the U.S. federal government’s focus on accelerating the nuclear, particularly SMR, sector and will fundamentally enhance economics and solidify advanced nuclear reactors as an attractive power alternative.

Clean Electricity Production Tax Credit (§ 45Y)^{(1), (2), (3)}

Up to around \$83.0 million of potential tax credits to a customer per four 80 MWe reactors (used to produce electricity) per year for 10 years, adjusting each year for inflation



How it works:

Assuming certain labor requirements are met or an exception applies, a tax credit of 1.5¢/kWh adjusted annually for inflation (3.00¢/kWh in 2025) of electricity produced and sold for up to 10 years after the facility is placed in service.

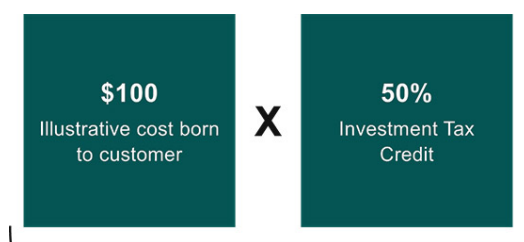
- + 10% additional credit if the facility is located in either a designated “nuclear energy community or “energy community” (e.g., certain metropolitan statistical areas with historic fossil fuel employment, certain census tracts where a coal mine has closed (or adjoining tracts), or brownfield sites)
- + 10% additional credit if the facility is constructed solely with domestic iron and steel and a minimum of 40% (minimums increase over time) domestic manufactured products

= up to around 3.60¢/kWh total credit

- (1) Eligibility requirements: Only certain facilities used for the generation of electricity placed in service after December 31, 2024. Also, facilities whose “greenhouse gas emission rate” do not exceed zero, whose electricity is produced in the U.S. and sold to “unrelated persons;” and that meet “prevailing wage” and “apprenticeship” requirements are eligible to claim these tax credits.
 - a. The amount of the tax credit determined with respect to a project is subject to a four-year phase-out for projects that begin construction in 2033 and later.
 - b. Projects that begin construction after December 31, 2025, may not receive material assistance from certain prohibited foreign entities in constructing such facilities.
 - c. A taxpayer claiming a tax credit in any tax year beginning after December 31, 2025, may not be a prohibited foreign entity and may not make certain payments to specified foreign entities which would give the specified foreign entity effective control over the project.
- (2) Hours in a year multiplied by 1,000.
- (3) Rates as of 2026. Tax credit is adjusted annually based on inflation.

U.S. Clean Electricity Investment Tax Credit (§ 48E)^{(1),(2)}

Up to around \$50 of potential illustrative tax credits to a customer for every \$100 of cost born per four 80 MWe reactors purchased, claimed in the year when the plant is put in service



How it works:

Assuming certain labor requirements are met or an exception applies, a tax credit of 30% of the initial capital cost in a facility with respect to certain eligible costs,

- + 10% additional credit if the facility is in an “energy community” (e.g., certain metropolitan statistical areas with historic fossil fuel employment, certain census tracts where a coal mine has closed (or adjoining tracts), or brownfield sites)
- + 10% additional credit if the facility is constructed solely with domestic iron and steel and a minimum of 40% domestic manufactured product

= up to 50% tax credit on certain upfront capital costs

- (1) Eligibility requirements: The credit is available only to certain facilities used for the generation of electricity placed in service after December 31, 2024. The facility’s “greenhouse gas emission rate” cannot exceed zero and must meet “prevailing wage” and “apprenticeship” requirements. Credits may be subject to recapture if eligibility requirements are not maintained or if the facility (or an ownership interest therein) is sold.
 - a. The amount of the tax credit determined with respect to a project is subject to a four-year phase-out for projects that begin construction in 2033 and later.
 - b. Projects that begin construction after December 31, 2025, may not receive material assistance from certain prohibited foreign entities in constructing such facilities.

- c. A taxpayer claiming a tax credit in any tax year beginning after December 31, 2025, may not be a prohibited foreign entity, and may not make certain payments to specified foreign entities which would give the specified foreign entity effective control over the project.
- (2) Subject to diligence and IRS rulemaking process on expense eligibility for investment tax credit. X-energy assumption not explicitly included in IRA; similar provisions have been included in prior renewables tax credit programs.

Potential Tax Credits Related to Construction of Fuel Fabrication Facility TX-1

Qualifying Advanced Energy Project Credit (§ 48C)

The Qualifying Advanced Energy Project Credit (§ 48C) was initially created under the American Recovery and Reinvestment Act (2009) and later expanded by the Inflation Reduction Act (“IRA”) of 2022. The program creates a qualifying investment tax credit for facilities that manufacture clean energy equipment, nuclear fuel or related supply chain technologies. In March of 2024, TRISO-X was awarded around \$150.0 million investment tax credit for the construction of its first purpose-built commercial-scale fuel fabrication facility, TX-1, in Oak Ridge, TN. Upon meeting certification and ‘placement in service’ qualifications, the credit will be applied against the company’s federal income tax liability or is eligible to be transferred to an unrelated 3rd party per IRC § 6418 that equals 30% of the eligible capital investment costs, up to allocated award, in construction and equipping of the TX-1 facility.

GOVERNMENT AND REGULATION

Policymakers and industry leaders increasingly recognize that nuclear, and particularly advanced nuclear, will be a key component of the clean energy transition. Growing energy demand, paired with enduring considerations around managing longer-term carbon risk, creates a clear need for what nuclear can offer: carbon-free, consistent baseload energy generation. According to the IEA, fossil fuels currently supply around 60% of global electricity generation, and the IEA projects that, under the most likely scenario, global electricity demand could increase by more than 50% by 2050. As such, nuclear is expected to play a significant role in virtually every credible pathway to achieving net-zero.

While renewables have made and continue to make a meaningful contribution to this transition, they lack several key advantages that advanced nuclear offers; specifically, the ability to deliver land-efficient and readily dispatchable energy. Further, advanced nuclear offers expanded use cases, such as industrial heat, while having lower capital costs, geographic flexibility, simplified operations and substantial safety improvements over legacy nuclear plants. We believe these factors uniquely position advanced nuclear as a central component of the global energy system moving forward.

Nuclear energy has received significant federal- and state-level support in the U.S. in recent years. Currently, about half of U.S. states have, or are considering, policies to support advanced nuclear. Several have also adopted binding deadlines — via legislation, executive orders, or administrative actions — to mandate decarbonization of energy purchased, sold or generated within their borders.

At the U.S. federal level, support for advanced nuclear power has been steady since the adoption of the Nuclear Energy Innovation Capabilities Act in 2018. Since that time, billions of dollars have been authorized and appropriated to support nuclear energy in recent significant energy-related legislation, including in the Nuclear Energy Innovation and Modernization Act of 2019, the Infrastructure Investment and Jobs Act of 2021, the Inflation Reduction Act in 2022, and the Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy Act in 2024, all passed with strong bipartisan and bicameral support.

Similarly, U.K. and Canada policymakers have also expanded support of advanced nuclear. In December 2021, the U.K. government designated HTGRs as the technology focus for its Advanced Modular Reactor (“AMR”) demonstration program, citing their potential to contribute to net-zero goals, ability to produce high-temperature industrial heat, relatively high technical maturity, and the proven safety record of the U.K.’s second-generation Advanced Gas-cooled Reactors.

United States

- ***Nuclear Energy Innovation Capabilities Act (“NEICA”).*** Signed into law in September 2018, NEICA directs the DOE to prioritize research, development, and demonstration of advanced nuclear reactor

technologies, authorizes the creation of a National Reactor Innovation Center to facilitate private sector access to DOE facilities for testing and demonstration, and promotes public-private partnerships to accelerate the commercialization of innovative nuclear energy solutions.

- ***Nuclear Energy Innovation and Modernization Act (“NEIMA”).*** Signed into law in January 2019, NEIMA directs the NRC to modernize its licensing processes for advanced nuclear technologies, establishes a new fee structure to ensure more predictable and transparent costs for applicants, and requires the NRC to develop a framework for licensing advanced reactors.
- ***Infrastructure Investment and Jobs Act (“IIJA”).*** Signed into law in November 2021, the IIJA provides \$65.0 billion for power and grid investments, including grid reliability, resiliency, and clean energy technologies such as carbon capture, hydrogen and advanced nuclear. The IIJA appropriated \$2.47 billion funding for the two ARDP demonstration projects (of which X-energy is one), following its creation in the Energy Act of 2020.
- ***Inflation Reduction Act.*** Signed into law in August 2022, the IRA appropriated \$700.0 million to support the transportation and availability of HALEU fuel and increased DOE’s loan guarantee authority to \$250.0 billion, both measures that will support the acceleration of reactor deployment and improve projects economics.
- ***Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy Act (ADVANCE ACT).*** Signed into law in 2024, this historic nuclear energy package brings the U.S. closer to its goals of energy independence and international market leadership. The Act includes NRC licensing reform, opens the door to foreign investment, and directs the NRC to develop a program to enhance the agency’s preparedness and coordination in qualifying and licensing advanced nuclear fuels.
- ***Recent Executive Orders.*** The current Administration unveiled four Executive Orders on May 23, 2025 directing federal agencies to streamline licensing at the NRC, accelerate advanced reactor deployment at the DOE and DOD sites for national security and AI/data-center needs, overhaul the domestic nuclear fuel cycle, and strengthen the U.S. nuclear industrial base.
 - ***“Reforming the Nuclear Regulatory Commission”*** which directed a reorganization of the current Nuclear Regulatory Commission structure to promote faster processing of license applications and mandated an 18-month review period for a decision on an application to construct and operate new reactors (including advanced nuclear reactors).
 - ***“Reinvigorating the Nuclear Industrial Base”*** seeks to reduce U.S. dependence on foreign sources of nuclear fuel by funding a buildout of domestic supply chains to support the current nuclear fleet and an expansion of production by four times by 2050 with an emphasis on establishing a domestic nuclear fuel cycle — including uranium enrichment, restart, completion, uprates, or construction of reactors; and expanding the nuclear energy workforce.
 - ***“Deploying Advanced Nuclear Reactor Technologies for National Security”*** defines AI as a national security objective and the order sets a priority for the DOE and the DOD to work with private industry to accelerate deployments of advanced nuclear technology to power AI. Key goals include designating DOE sites appropriate for advanced nuclear reactors within 30 months, deploying an advanced nuclear reactor within three years at a domestic military installation and releasing 20 MTU of HALEU for advanced reactor design use at DOE sites.
 - ***“Reforming Nuclear Reactor Testing at the Department of Energy”*** finds the design, construction and operation of test reactors for research purposes and that do not produce commercial power to fall under the purview of the DOE and directs DOE to streamline environmental reviews and expedite qualified test reactors for operation at DOE-owned or controlled facilities within two years of an application.
- ***One Big Beautiful Bill Act.*** Signed into law in July 2025, the OBBBA is a comprehensive tax and spending package that makes permanent many provisions of the 2017 Tax Cuts and Jobs Act, while introducing new tax policies and restructuring others. The OBBBA generally maintains the Clean Electricity Production Tax Credit and Clean Electricity Investment Tax Credit for nuclear power that were added by the IRA but subjects it to a phase-down schedule that begins for projects that commence construction after 2033. Projects beginning construction in 2034 and 2035 will still qualify for tax

credits but with a 75% and 50% credit value, respectively. These projects must meet the traditional continuity test, which requires placement in service by the end of the fourth year after the end of the year in which construction starts, or else demonstrate that construction was continuous based on the facts. The OBBBA also provides an expanded 10% tax credit adder definition for the PTC for nuclear facilities located in designated “energy communities” and authorizes additional credit subsidies and loan guarantee authority to support the deployment of advanced nuclear technologies.

- Additionally, through the OBBBA, the U.S. Congress reinforced earlier legislation focused on the acceleration of environmental review requirements under NEPA for project proponents that pay certain fees. Further, DOE amended its NEPA guidelines further to set page limits, foster greater collaboration between the agencies, and expand the scope of cases that qualify for a shorter and streamlined review process because the projects have a limited environmental impact (such as siting new small-scale projects on existing brownfield or DOE sites). On February 2, 2026, DOE announced a new categorical exclusion that covers the authorization, siting, construction, operation, reauthorization and decommissioning of advanced nuclear reactors, including SMRs. The categorical exclusion is effective immediately and is expected to reduce environmental review barriers for qualifying projects. NRC has also begun the process of updating its NEPA guidelines, which are anticipated to similarly streamline project reviews.
- **Other Legislative Support Provisions under Consideration in the U.S. Congress.** Additionally, the FY26 appropriations bill, the “Commerce, Justice, Science; Energy and Water Development; and Interior and Environment Appropriations Act, 2026,” signed into law on January 23, 2026, in addition to the ongoing budget for nuclear energy, includes additional funding of \$3.1 billion to repurpose previously appropriated funds towards the DOE’s advanced nuclear programs including the Advanced Reactor Demonstration program, some portion of which we expect will be allocated to X-energy. This financial support demonstrates the U.S. federal government’s focus on accelerating the nuclear, particularly SMR, sector and will fundamentally enhance economics and solidify advanced nuclear reactors as an attractive power alternative.
- **Several States Showing Strong Commitment to SMR Development.** With increasing electricity demand and a desire to attract AI & data centers, there has been significant movement at the state level to incentivize the deployment of nuclear across U.S. states. Many have shown strong commitment towards developing advanced nuclear technologies, including SMRs, and putting in place the necessary legislation to facilitate nuclear power build-out in their states. For example:
 - **Texas:** Enacted House Bill 14 to create the Texas Advanced Nuclear Deployment Office and established the Texas Advanced Nuclear Development Fund, which provided an initial \$350.0 million to support both development and construction of advanced nuclear reactors.
 - **Tennessee:** Created the Tennessee Nuclear Energy Fund to expand nuclear development and manufacturing ecosystem for the state of Tennessee, which included an initial \$50.0 million which has increased to \$70.0 million by additional \$10.0 million installments in FY25 and FY26.
 - **Washington:** Enacted a clean electricity standard in 2019 which would eliminate coal generation by 2025 and mandate 100% clean energy by 2045, including nuclear; provided \$25.0 million to Energy Northwest in support of the utility’s application to the DOE’s Loan Programs Office.
 - **Maryland:** Established greenhouse gas emissions reduction targets and formally recognized the critical role that nuclear energy plays in the state’s clean energy generation profile in 2022; in 2025, the state passed the Next Generation Energy Act which establishes a framework that includes incentives aimed at advancing nuclear energy generation across the state.
 - **Indiana:** Signed a new law in 2025 that supported the development of small modular reactors in Indiana, including a 20% Investment Tax Credit for SMR manufacturing and allowing utilities to seek preapproval and timely recovery for project development costs related to nuclear energy.
 - **Virginia:** Established the Virginia Nuclear Energy Consortium (VNEC) to sustain the state’s leadership in nuclear energy through interdisciplinary business development, research, and training related to nuclear energy; passed legislation allowing investor-owned electric utilities to accelerate cost recovery for project development of SMRs.

- **Louisiana:** Established the Louisiana Advanced Nuclear Competitive Edge (LANCE) Strategic Framework, authorized by the Public Service Commission, to position the state as a leader in advanced nuclear reactors, particularly SMRs.
- **West Virginia:** Repealed its ban on construction of nuclear power plants, removing legal constraints that previously blocked new nuclear capacity, including SMRs.
- **Illinois:** Lifted or partially eased its moratorium on new nuclear plants to allow SMRs (specifically reactors up to around 300 MWe) beginning in 2026, while putting in place needed regulatory and safety frameworks.
- **New York:** Launched a Master Plan for Responsible Advanced Nuclear Development, backed by a blueprint from NYSERDA. The plan includes efforts to deploy advanced nuclear technology as well as development of early site permits for advanced reactors at locations like Nine Mile Point.

Canada

- **Clean Technology Investment Tax Credit.** The clean technology investment tax credit (“CT ITC”) is a 30% refundable investment tax credit applicable to the capital cost of clean technology property in Canada including certain small modular reactor equipment. The CT ITC is applicable in respect of the cost of eligible property that was acquired and became available for use on or after March 28, 2023. The CT ITC rate is reduced to 15% for eligible property that becomes available for use in 2034, and the CT ITC is not available for property that becomes available for use after 2034. If certain labor conditions are not satisfied then the tax credit rate is reduced to 20%. The CT ITC, as proposed to be amended pursuant to the Budget Implementation Act, No. 1 tabled in Parliament on November 4, 2025, is available in respect of certain small nuclear energy properties that are part of a fixed location system that is used all or substantially all to generate electrical or heat energy (or a combination of electrical energy and heat energy) from nuclear fission as determined on an annual basis and that is located at a nuclear facility where, at the time the property becomes available for use, the total combined gross-rated thermal generating capacity of all planned and existing nuclear fission reactors at the facility is reasonably expected not to exceed 1,400 MWt.

United Kingdom

- In 2025, the U.K. government announced its intent to create a new ‘Golden Age of Nuclear’ in the U.K. and encourage private sector investment in next-generation nuclear technologies. It implemented significant reforms to accelerate the deployment of small modular reactors (SMRs) and Generation IV advanced modular reactors (AMRs) including High Temperature Gas-cooled Reactors (HTGRs). Planning reforms were launched to expand eligible sites for SMRs beyond the previous eight locations to cover all of England and Wales, supporting growing energy demand from data centers and heavy industry. The Government declared it would offer value-for-money project equity and debt provision from the National Wealth Fund, and financial risk mitigation and revenue support mechanisms, negotiated with the DOE Security and Net Zero. A regulatory task force was set up to shorten nuclear licensing and consenting timelines, and the U.S. and U.K. Governments adopted the Atlantic Partnership for Advanced Nuclear Energy, including a regulatory co-operation agreement designed to achieve efficiencies through collaboration on assessment data.

Nuclear Safety Regulation

The commercial nuclear industry is heavily regulated worldwide. In general, regulatory approval is required for the design, construction and operation of every nuclear plant, as well as the nuclear fuel facilities that supply them. Regulations are designed to ensure protection of people and the environment and typically address: (1) design safety and robustness against internal hazards (e.g., component failures, fires) and external hazards (e.g., earthquakes and extreme weather), (2) environmental impacts of construction and operations (e.g., water use, preservation of historical sites, animal and plant species), and (3) civil liability and insurance. Although regulations are country-specific, regulators often collaborate when a design is deployed in multiple jurisdictions.

X-energy's licensing strategy has two goals: (1) obtain approval of a reactor project deploying X-energy's technology within the shortest possible time, through early regulatory engagement and high-quality applications; and (2) maintain a common Xe-100 design across markets.

After several years of pre-application engagement, in March 2025, Long Mott Energy, LLC, a wholly owned subsidiary of Dow, submitted a construction permit application to the NRC for a proposed advanced nuclear project deploying four Xe-100 reactors at a Dow plant in Seadrift, Texas. The application was docketed by the NRC in May 2025. Citing the completeness and quality of the application, and the effectiveness of pre-application engagements, the NRC published an 18-month review timeline for the project and began a concurrent environmental assessment. All current pre-licensing work is conducted and submitted by X-energy in order to de-risk future construction permit and operating license applications to the NRC, whether ARDP funded or not, that will be submitted by our customers, the plant owners.

Environmental review under the National Environmental Policy Act is required for federal actions, including approval of the construction permit application. During the environmental review, the NRC consults with collaborating federal agencies, as well as state, local, and tribal authorities, to ensure the relevant parties are aware of and acknowledge the licensing actions being considered. The public is also granted opportunities for comment. In certain cases, individual states may have additional environmental review requirements related to the construction and operation of a nuclear power plant. The environmental review requires the NRC to consider any state, local and tribal stakeholders. In addition to NRC approvals, other federal and state government permits and authorizations will be required to construct and operate the Long Mott Generating Station facility, including those discussed below.

Environmental, Occupational Health and Safety, and Other Regulations

X-energy is also subject to regulations regarding nuclear material safeguards, non-proliferation restrictions, liability insurance regimes, and various other matters. Both we, for our production facilities, and customers purchasing our reactors must obtain a variety of permits, licenses, and insurance for the jurisdiction where the facility will be located. We and customers purchasing our reactors are subject to stringent and complex federal, state, local and international laws and regulations governing the discharge of materials into the environment or otherwise relating to protection of worker health, safety and the environment. Compliance with all of these laws and regulations may expose us to significant costs and liabilities and cause us to incur significant capital expenditures in our operations. Any failure to comply with these laws and regulations may result in the assessment of administrative, civil and criminal penalties, imposition of remedial obligations, and the issuance of injunctions delaying or prohibiting operations. Private parties may also have the right to pursue legal actions to enforce compliance as well as to seek damages for non-compliance with environmental laws and regulations or for personal injury or property damage. In addition, the trend in environmental regulation is to place more restrictions on activities that may affect the environment, and thus, any changes in, or more stringent enforcement of, these laws and regulations that result in more stringent and costly pollution control equipment, the occurrence of delays in the permitting or performance of projects, or waste handling, storage, transport, disposal or remediation requirements could have a material adverse effect on our operations and financial position.

Our business and the business of customers purchasing our SMRs must obtain required permits, licenses and insurance for the jurisdiction where the facility will be located. In the U.S., we and our customers are subject to NRC regulation and licensing as well as other federal and state radioactive materials licensing. For example, we recently received a Special Nuclear Material License from the NRC for the possession and use of enriched uranium and will be required to receive a Specific and General Radioactive Material License from the State of Tennessee for our TX-1 facility.

Development and operation of our TX-1 facility, the Long Mott Generating Station, our other facilities and our customers' other facilities are also subject to federal, state and local regulation, including under the Clean Water Act, Clean Air Act and Occupational Health and Safety Act, and required to obtain and maintain permits such as National Pollutant Discharge Elimination System (NPDES) Permit for Storm Water Discharges from Construction Activities and local construction permits. Furthermore, some environmental laws impose substantial penalties for noncompliance, and others, such as the federal Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"), the Resource Conservation and Recovery Act ("RCRA"), or similar state laws, may impose strict, retroactive and joint and several liabilities

for the remediation of releases of hazardous substances. Stated differently, liability under CERCLA, RCRA or similar state and local laws, may be imposed as a result of conduct that was lawful at the time it occurred or for the conduct of, or conditions caused by, prior operators or other third parties. Failure to properly handle, transport, store or dispose of hazardous materials or otherwise conduct our operations in compliance with RCRA and other EHS laws or similar state and local laws could expose us to liability for governmental penalties, cleanup costs and civil or criminal liability associated with releases of such materials into the environment, damages to property, natural resources and other damages, as well as potentially impair our or our customers' ability to conduct our operations.

Finally, siting, cost recovery, interconnection and other state and federal issues for power plants of any type are also often subject to occasionally lengthy approval processes by state utility regulators, independent transmission system operators, and FERC approvals.

Our compliance with these and other laws, regulations, and contractual commitments may be onerous and could, individually or in the aggregate, increase our cost of doing business, impact the financial viability of our business model, limit our ability to pursue certain business practices or offer certain products and services, cause us to change our business models and operations, affect our competitive position relative to our peers, and/or otherwise harm our business, reputation, financial condition, and operating results.

We also cannot be assured that future events, such as changes in existing laws or enforcement policies, the promulgation of new laws or regulations or the development or discovery of new facts or conditions adverse to our operations will not cause us to incur significant costs. While we are confident in our compliance with current environmental regulations, we acknowledge the potential for policy shifts that could impact our operations. On January 20, 2025, President Trump issued a series of executive orders and memoranda signaling a shift in environmental and energy policy in the U.S., including the revocation of approximately 80 Biden-era executive orders related to public health, the environment, climate change and climate-related financial risks. President Trump also declared a "national energy emergency," directing agencies to expedite conventional and nuclear energy projects. While the extent of the current Administration's changes to the environmental regulatory landscape in the U.S. is unknown at this time, it is possible that additional changes in the future could impact our results of operation and those of our customers.

Additional information regarding certain risks related to government regulations is included in "*Risk Factors — Risks Relating to Compliance with Law, Government Regulation and Litigation.*"

Export Controls

Our business is subject to and must comply with stringent U.S. import and export control laws, including DOE regulations under 10 CFR Part 810 (governing the export of nuclear technology and technical assistance by U.S. persons); NRC regulations under 10 CFR Part 110 (governing import and export of nuclear hardware, equipment, and materials); and Export Administration Regulations issued by the Bureau of Industry and Security within the U.S. Department of Commerce (covering "dual-use" items and associated foreign assistance).

Export control regulations safeguard U.S. national security, support foreign policy objectives, and uphold nonproliferation commitments. Governmental authorizations (e.g., DOE Part 810 approval) may be required before we export technology, equipment, materials, or services, or collaborate with foreign entities. X-energy maintains an extensive export control program to ensure compliance.

The U.S. government agencies responsible for administering the nuclear export control regulations have a degree of discretion in interpreting and enforcing these rules, and in approving, denying, or conditioning authorizations. Their decisions are also shaped by multilateral export control regimes and geopolitical developments.

FACILITIES OVERVIEW

We own or lease facilities and property in the following geographic locations:

- Rockville, Maryland — The following facilities are located in Rockville, Maryland:

- X-energy’s corporate headquarters consists of 123,296 square feet and houses the Xe-100 engineering teams performing engineering, design, operations, testing, code development, quality assurance, licensing and project management. In addition, the Rockville facility houses the executive management team as well as accounting, marketing, human resources, procurement and legal staffs.
- X-energy also holds a lease with a third-party for offices consisting of 11,167 square feet in Rockville, Maryland that is expected to house the teams named above beginning in 2026.
- Gaithersburg, Maryland — X-energy holds a lease with a third-party for offices consisting of 122,000 square feet in Gaithersburg, Maryland that is expected to house the teams current in its Rockville, MD headquarters beginning in 2026.
- Frederick, Maryland — The following facilities are located in Frederick, Maryland:
 - *The Operator Training Facility* — This facility became operational in October 2023 and consists of 10,447 square feet and houses the following activities:
 - *Xe-100 Simulator Development* — This activity includes the development of a full-scale ANSI 3.5 Xe-100 simulator that is a true representation of the Xe-100 plant. The simulator model will include all process models of Xe-100 reactors, instrumentation and control sensors and other elements to provide an environment to train and license Xe-100 operators before the first Xe-100 reactor’s fuel is loaded. This activity also includes the design of the Xe-100 control room and the construction of a replica control room where the operators will be trained. It is expected that a single Xe-100 control room will be sufficient to control up to twelve Xe-100 reactors.
 - *Xe-100 Operator Procedure Development* — This activity includes the development of the operational procedures needed to control the Xe-100 plant. The procedures will be developed then displayed on a “computerized procedure system” that X-energy will be developing, and will be used to create training material for Xe-100 operators.
 - *Xe-100 Operator Training* — This activity includes training Xe-100 operators in a classroom environment. Students will use the simulator and X-energy training materials.
 - *Human Factors Engineering Analysis* — This activity includes the task analysis in NRC’s NUREG-0711 needed for the Xe-100 control room and simulator design, among other analyses. This activity is also necessary to determine the workload on Xe-100 operators to calculate the necessary number of operators in the control room.
 - *The Frederick Testing Facility (to be known as “XTAC” or “X-energy Technology Advancement Center”)* — This facility was purchased in July 2025 and consists of 90,000 square feet which will be used for office space, major component testing, machining and manufacturing studies, and training collateral, including the following:
 - *eXperimental Test Facility (“XTF”)* — The XTF is expected to begin testing in 2026. It will allow for bench-scale and fractional scale testing of our first-of-a-kind components and technologies, allowing for rapid refinement of designs. Specifically, the XTF will be testing the steam generator interfaces, the reactor cavity cooling system, components for the fuel handling system and mechanical properties of the fuel pebbles, among other systems.
 - *Machine Shop* — The machine shop is expected to begin testing in 2026. It will allow for rapid prototyping of critical components in the reactor. Specifically, the machine shop will be manufacturing fuel handling system components and main system components and machining graphite blocks, among other systems.
 - *Helium Test Facility (“HTF”)* — This testing facility is expected to begin tests in mid-2027. It will allow for testing of our first-of-a-kind technologies in a reactor-simulating high-pressure, high temperature helium environment. The HTF will test the fuel handling system, the helium circulator, and the RODS, among other systems.

- *Training Facility* — The facility will house training facilities for operators, simulators, chemistry, security and other reactor support staff. The location will also allow for curriculum design. The facility will begin construction in 2026 and be built over to support Operational Readiness.
- *Office space* — The facility will feature 22,000 square feet of office space, used as offices and conference rooms for facility staff and visiting employees and guests.
- Houston, Texas X-energy holds a lease with a third-party for offices consisting of 20,212 square feet in Houston, TX. This office has employees whose primary work location is in Houston.
- Oak Ridge, Tennessee — The following facilities and sites are located in Oak Ridge, Tennessee:
 - *Oak Ridge National Lab (“ORNL”)* — This space located within ORNL is called the TRISO-X Pilot Facility, which houses a single commercial scale TRISO-X fuel fabrication line and can produce HALEU-bearing fuel. It has been used to test new fabrication processes, leading to 13 issued U.S. patents, and five provisional U.S. patent applications. We anticipate winding down operations at this space through first half of 2026.
 - *Lafayette Road Facility* — The facility began operations in January 2023. It consists of approximately 42,000 square feet (with an additional 4000 sq footage expansion contemplated immediately and 7,072 April/May) and houses TRISO-X staff, performing primarily NRC licensing engagement, support for the deployment of the TF3 and process equipment design.
 - *Commercial Fuel Fabrication Facility (TX-1)* — Our first fuel facility began vertical construction in September 2025. Once operational, the facility is expected to be North America’s first purpose-built commercial advanced nuclear fuel fabrication facility. This site is 110 acres, and is part of a former DOE site known as Horizon Center Industrial Park.
 - *Emory Site* — Leased for storage space that we anticipate moving in Spring 2026.
 - *Apollo Site* — Leased for storage space and vacated in Spring 2026.
 - *Planned TX-L site* — Known as ‘Area 7’, this site is on adjacent land to our planned TX-1 location.
- Toronto, Canada — X-energy’s Toronto office space houses staff and is the headquarters of the wholly owned subsidiary, X-Energy Canada, Inc.
- Manchester, England — X-energy’s Manchester office space of 1,200 square feet houses staff and is the headquarters of the wholly owned subsidiary, X-Energy UK.

The company believes the locations of its facilities provide it with unique access to the NRC, U.S. government partners and customers, and the DOE’s extensive ORNL lab facilities and personnel, along with being attractive locations within some of the most well-educated metropolitan corridors in North America.

The existing facilities accommodate current operating needs, and the company will expand current facilities as needed to accommodate a growing workforce as it moves closer to deploying the Xe-100 and associated services.

INTELLECTUAL PROPERTY

We rely on a combination of patent and trade secret protection laws, as well as contractual restrictions in our agreements with our employees, contractors, consultants and third parties with whom we have relationships, to protect and enhance the proprietary technology, inventions and improvements that are commercially important to our business. We also rely on trademark laws to protect our brands.

Our policy is to protect our competitive position by, among other methods, filing patent applications in the U.S. and other jurisdictions, related to our proprietary technology, inventions, improvements and products that are material to our business. We also rely on our trade secrets and know-how relating to proprietary technology, inventions, improvements and products as well as certain innovation and in-licensing opportunities to develop, strengthen and maintain our competitive position in the field; however, such rights can be difficult to protect and provide us with limited protection. We take steps to protect and preserve our trade secrets and

know-how by employing various methods, including entering into confidentiality, non-disclosure and non-compete agreements with certain of our employees and third parties, including our vendors, contractors and potential business partners, to protect our intellectual property and proprietary information.

As of the date of this prospectus, we own approximately 13 issued U.S. patents, 14 pending U.S. patent applications, two U.S. trademark registrations and two U.S. trademark applications. The issued U.S. patents have expiration dates between 2036 and 2045. Of those approximately 13 issued U.S. patents, all 13 of them cover certain aspects of our reactor and fuel technology. We also own 15 issued foreign patents, including in Canada, Japan and South Korea, and 48 pending patent applications. The issued foreign patents have expected expiration dates between 2038 and 2045.

EMPLOYEES AND HUMAN CAPITAL

As of March 17, 2026, we have a highly educated workforce of 916 employees, of whom 317 have master's degrees and 104 have Ph.Ds. Our employees are located across 40 different states and two countries. We are dedicated to our corporate goal of changing the world through innovative and implementable energy solutions.

Due to the highly specialized nature of our business, we need to hire and train skilled and qualified personnel to design, build and operate our state-of-the-art equipment, and to perform a broad range of services to support our company and our customers. Our success as a company depends on our ability to attract, develop and retain people with highly technical and specialized expertise who are dedicated to consistently performing quality work and, for some of our positions, can obtain a security clearance. We are dedicated to promoting the health, welfare and safety of our employees. We strive to treat all employees with dignity and respect and provide them with fair, market-based, competitive and equitable compensation. We aim to recognize and reward the performance of our employees in line with our pay-for-performance philosophy and provide a comprehensive suite of benefit options that enables our employees and their dependents to live healthy and productive lives. Moreover, we aim to foster an environment where individuals feel a sense of belonging and can achieve their highest potential, regardless of personal background. We are an equal opportunity employer and work to create an inclusive environment, built on a foundation of compliance with applicable civil rights laws.

Safety in our workplaces is paramount. We take measures to prevent workplace hazards, encourage safe behaviors and enforce a culture of continuous improvement to foster processes that help us eliminate incidents and injuries and comply with applicable health and safety laws.

LEGAL PROCEEDINGS

From time to time, we may be subject to various claims, lawsuits and other legal and administrative proceedings that may arise in the ordinary course of business. Some of these claims, lawsuits and other proceedings may range in complexity and result in substantial uncertainty; it is possible that they may result in damages, fines, penalties, non-monetary sanctions or relief. We currently do not have any claims, lawsuits or proceedings against X-energy that, individually or in the aggregate, would be considered material to our business or likely to result in a material adverse effect on our future operating results, financial condition or cash flows.

BOARD OF DIRECTORS AND MANAGEMENT OF X-ENERGY

The table below sets forth information about the executive officers and directors that are expected to be in place upon consummation of this offering. With respect to our directors, each biography contains information regarding the person's service as a director, business experience, director positions held currently or at any time during the past five years, information regarding involvement in certain legal or administrative proceedings and the experience, qualifications, attributes or skills that caused our board of directors to determine that the person should serve as a director of the Company.

The initial Class I directors shall serve for a term expiring at the first annual meeting of stockholders. The initial Class II directors shall serve for a term expiring at the second annual meeting of stockholders; and the initial Class III directors shall serve for a term expiring at the third annual meeting of stockholders. At each annual meeting of stockholders beginning with the first annual meeting of stockholders, the successors of the class of directors whose term expires at that meeting shall be elected to hold office for a term expiring at the third annual meeting of stockholders to be held following their election. Each director in each such class shall hold office until such director's successor is duly elected and qualified, subject to such director's earlier death, resignation or removal.

Name	Age	Position
J. Clay Sell	58	Chief Executive Officer and Director
Daniel Gross	55	Executive Vice President and Chief Financial Officer
Dragan Popovic	53	Executive Vice President and Chief of Global Operations
Kamal Ghaffarian	67	Chairman
Edward Sonnenschein	71	Director
Michael J. Wallace ⁽³⁾	78	Director
Kathleen W. Hyle ⁽¹⁾⁽²⁾	67	Director
Christopher F. Ginther ⁽³⁾	64	Director
Gregory J. Goff ⁽¹⁾⁽³⁾	69	Director
David B. Kaplan	58	Director
Allyson Satin ⁽¹⁾⁽²⁾	40	Director

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- (1) Member of the audit and risk committee
 (2) Member of the compensation and culture committee
 (3) Member of the nominating and corporate governance committee

The officers and members of the Board of Directors of the Company (the "Board") are well qualified as leaders. In their prior positions, they have gained experience in core management skills, such as strategic and financial planning, financial reporting, compliance, risk management, and leadership development. Several of Company's officers and directors also have experience serving on boards of directors and board committees of other public companies and private companies, and have an understanding of corporate governance practices and trends, which provides an understanding of different business processes, challenges, and strategies. Further, certain officers and directors have other experience that makes them valuable, such as prior experience in mergers and acquisitions, in financial services, managing and investing in assets.

We believe that the above-mentioned attributes, along with the leadership skills and other experiences of the officers and board members described below, will provide the Company with a diverse range of perspectives and judgment necessary to facilitate our goals and be good stewards of capital.

Executive Officers and Directors

J. Clay Sell. Mr. Sell will serve as Chief Executive Officer (CEO) of the Company and as a member of Board. Mr. Sell has served as Chief Executive Officer of the Company since January 2019 and as a member of the Board since July 2021. Over the last seven years, Mr. Sell has led the company through a period of dramatic transformation and growth in product development investment, U.S. government funding awards, private

capital investments, customer commitments, regulatory achievements and executive talent recruitment. From 2008–2018, Mr. Sell was the president of Hunt Energy Horizons, LLC, the renewable energy subsidiary of Hunt Consolidated, Inc., a multinational energy, real estate, and investment corporation controlled by the Ray L. Hunt family of Dallas. Previously, he held positions for 14 years in the U.S. government, as Deputy Secretary of Energy in the George W. Bush Administration from 2005–2008, as a Special Assistant to the President from 2003–2005, and in senior staff positions in the U.S. Senate and House of Representatives. Mr. Sell holds a J.D. from the University of Texas School of Law and a B.B.A. in Accounting from Texas Tech University. We believe Mr. Sell is qualified to serve on the Board because of his experience and leadership in the nuclear energy industry.

Daniel Gross. Mr. Gross will serve as Chief Financial Officer of the Company. Mr. Gross has served as Chief Financial Officer of the Company since December 2025 and was an Amazon designee on the Board from October 2024 to December 2025. From August 2021 to December 2025, Mr. Gross was a Director of Corporate Development at Amazon with a principal focus on the Climate Pledge Fund, a corporate venture capital fund dedicated to low-carbon and other sustainability technologies. Prior to Amazon, he served as Chief Investment Officer at Climate Real Impact Solutions from July 2020 to July 2021. Previously, he served as Managing Director at Oaktree Capital Management from 2013 to 2015, a Partner at Hudson Clean Energy from 2007 to 2013 and a Vice President at Goldman Sachs from 2005 to 2007. Mr. Gross holds masters degrees in business administration and environmental management, as well as a bachelors degree from Yale University, where he has also served as a renewable energy finance lecturer since 2016.

Dragan Popovic. Mr. Popovic will serve as Chief of Global Operations of X-energy Canada, Inc. Mr. Popovic previously was at Ontario Power Generation (“OPG”), where he served as Senior Vice President of SMR Project Execution from February 2002 to October 2025. During his tenure, he successfully guided integrated project teams through critical milestones including site preparation licensing, construction approval, and final investment decisions for the development of first small modular reactor project in G7 countries. Prior to this role, Popovic held several leadership positions at OPG at Pickering and Darlington Nuclear Stations, with experience spanning the entire nuclear power lifecycle including financing, licensing, construction, operations, maintenance, and decommissioning of nuclear facilities including key leadership roles at several major projects such as successful refurbishment of OPG’s Darlington Nuclear Station. Mr. Popovic holds a degree in electrical engineering from Conestoga College.

Kamal Ghaffarian. Dr. Ghaffarian will serve as a member of the Board. Throughout his more than 35-year career, Dr. Ghaffarian has created multiple successful companies and has gained extensive experience working at the intersection of government contracting and technological innovation.

Dr. Ghaffarian started his entrepreneurial career in 1994 by founding Stinger Ghaffarian Technologies, Inc. (acquired by KBR, Inc. (NYSE: KBR)), a government services company focusing on IT, engineering, and science applications. Dr. Ghaffarian also held numerous technical and management positions at Lockheed Martin, Ford Aerospace and Loral. Dr. Ghaffarian holds a B.S. in Computer Science in Engineering from Catholic University of America, a B.S. in Electronics Engineering from Capital College, an M.S. in Science in Information Management from George Washington University, a Ph.D. in Management Information System from Kennedy Western University and a Ph.D. in Technology from Capital Technology University.

Dr. Ghaffarian is the co-founder and chairman of several companies including Intuitive Machines, LLC (NASDAQ: LUNR), a space services and technologies company, since December 2012, Axiom Space, Inc., a private space infrastructure company, since August 2016, Quantum Space, LLC, a space infrastructure company, since May 2021, and IBX, LLC, an innovation and investment firm, since October 2018. We believe Dr. Ghaffarian is qualified to serve on the Board because of his role as the executive chairman of X-energy, extensive experience in the field and deep understanding of company leadership.

Edward Sonnenschein. Mr. Sonnenschein will serve as a member of the Board. Mr. Sonnenschein has served on the Board since December 2021 and on the board of directors of Quantum Space, LLC, a private space infrastructure company, since September 2022, and on the board of directors of Axiom Space, Inc., a private space infrastructure company, since March 2026. He serves as Vice Chairman of IBX, LLC, where he provides leadership on governance and major transactions, as well as strategic guidance on financings, M&A, and new initiatives, and leads the legal function. Previously, Mr. Sonnenschein was an attorney at the leading global law firm Latham & Watkins, LLP from November 1979 to June 2021, where he was a widely

respected deal maker and counselor for numerous public and private companies, private equity firms, sovereign wealth funds and family offices in hundreds of cutting-edge matters. Mr. Sonnenschein also held numerous leadership positions at Latham, including as the firm's Global Chair of the Corporate Department, Chair of the Strategic Initiatives Committee, Chair of the Business Development and Investment Committees and member of the Executive Committee. He was also a member of Coastview Capital LLC, a biotechnology venture capital firm, from July 2001 to October 2003. Mr. Sonnenschein holds an A.B. in Social Studies from Harvard College and a Juris Doctorate from Harvard Law School. We believe Mr. Sonnenschein is qualified to serve on the Board because of his experience and leadership in the legal, strategic transactions, financing and venture capital fields.

Michael J. Wallace. Mr. Wallace will serve as a member of the Board. Mr. Wallace has served on the Board since December 2021. In addition, he served as a member of the board of directors of Emirates Nuclear Energy Corporation from February 2013 to November 2025, and has served on the boards of Nawah Energy Company, the U.S. Naval Historical Foundation and Barakah One Holding Company since October 2017. Since October 2017, Mr. Wallace has also served as a Senior Advisor at the North American Electric Reliability Council, where he advised stakeholders on matters related to assuring the reliability and security of the electricity grid. He was a member of the National Infrastructure Advisory Council from October 2017 to April 2022, where he advised the President of the United States on matters related to security of the country's infrastructure. Mr. Wallace served as the senior-most nuclear industry executive at both Exelon (then known as ComEd) and Constellation Energy, where he also served as President and Vice Chairman of the Company. Mr. Wallace holds a B.S. in Electrical Engineering from Marquette University and an M.B.A. from the University of Chicago. We believe Mr. Wallace is qualified to serve on the Board because of his experience and leadership in the nuclear energy industry.

Kathleen W. Hyle. Ms. Hyle will serve as a member of the Board. Ms. Hyle was appointed to serve on the Board in January 2023. She served as Senior Vice President of Constellation Energy Corp (NASDAQ: CEG) and Chief Operating Officer of Constellation Energy Resources from November 2008 to March 2012. From June 2007 to November 2008, she served as Chief Financial Officer for Constellation Energy Nuclear Group and for UniStar Nuclear Energy, LLC. Prior to joining Constellation Energy in 2003, Ms. Hyle served as the Chief Financial Officer of ANC Rental Corporation, Vice President and Treasurer of AutoNation, Inc. (NYSE: AN), and Vice President and Treasurer of Stanley Black & Decker, Inc. (NYSE: SWK). Ms. Hyle previously served on the board of Cencora, Inc. (NYSE: COR), formerly known as AmerisourceBergen Corporation (NYSE: ABC) from May 2010 to March 2025. From July 2012 to May 2023, Ms. Hyle served on the board of Bunge Ltd (NYSE: BG), during which she held the role of Board Chair from 2018 to 2023. Ms. Hyle holds a B.A. in Accounting from Loyola College. She is also a Certified Public Accountant. We believe Ms. Hyle is qualified to serve on the Board because of her experience and leadership in the energy industry.

Christopher F. Ginther. Mr. Ginther will serve as a member of the Board. Mr. Ginther has served on the Board since January 2023. He also served as Executive Vice President Enterprise Strategy, New Nuclear, Business Development and Commercial Management at OPG, a globally recognized leader in the development and production of clean energy and nuclear energy projects, from July 2012 until his retirement in May 2024, where he oversaw the company's business strategy, development, commercial structuring, negotiations and commercial positioning in support of OPG's growth strategy. Prior to OPG, he served as Vice President and General Counsel at Bell Canada Enterprises Inc. (NYSE: BCE) and as Senior Vice President, General Counsel and Corporate Secretary at Ontario Lottery and Gaming Corporation. Mr. Ginther began his legal career at the law firm Torys LLP in Toronto. Mr. Ginther holds a B.A. in History and Political Science from the University of Western Ontario and an L.L.B. and L.L.M. from Osgoode Hall Law School. We believe Mr. Ginther is qualified to serve on the Board because of his experience and leadership in the energy industry.

Gregory J. Goff. Mr. Goff will serve as a member of the Board. Mr. Goff has served on Board since July 2023. He currently serves on the board of directors of Avient Corporation (NYSE: AVNT) and was a member of the boards of directors of Enbridge Inc (NYSE: ENB) from February 2020 to June 2021 and Exxon Mobil Corporation (NYSE: XOM) from June 2021 to October 2024. Mr. Goff is the Chief Executive Officer of Claire Technologies, Inc., a technology company developing solutions to de-carbonize heavy modes of transportation using hydrogen, and the founder of GJG Energy, LLC, a company developing opportunities in the refining, marketing and logistics business. Mr. Goff was the Vice Chairman of Marathon Petroleum

Corporation (NYSE: MPC), an integrated downstream energy company, from October 2018 to December 2019. He also served on the board of directors of MPLX L.P. (NYSE: MPLX) from October 2018 to December 2019. Prior to Marathon's acquisition of Andeavor Corp. ("Andeavor") (NYSE: ANDV), Mr. Goff served as Chairman, President and Chief Executive Officer of Andeavor, a leading petroleum refining and marketing company, from May 2010 to September 2018. He also served as Chairman and Chief Executive Officer of Andeavor Logistics, LP (NYSE: ANDX), an NYSE-listed master limited partnership that owned, operated and developed crude oil and refined products and logistics assets, from June 2011 to September 2018. Prior to that, Mr. Goff worked for ConocoPhillips Corporation, an integrated energy company, where he held a number of senior leadership positions, most recently Senior Vice President Commercial from 2008 to 2010. Mr. Goff holds a B.S. in Management and an M.B.A. from the University of Utah. We believe Mr. Goff is qualified to serve on the Board because of his experience and leadership in the energy industry.

David B. Kaplan. Mr. Kaplan will serve as a member of the Board. Mr. Kaplan has served on the Board since December 2023. Mr. Kaplan is a Co-Founder, Director and Partner of Ares Management Corporation. Mr. Kaplan serves on several Ares Investment Committees including, among others, the Ares Private Equity Group's Corporate Opportunities, Energy Opportunities and Extended Value Investment Committees. Additionally, Mr. Kaplan served as Chief Executive Officer and Co-Chairman of the board of directors of Ares Acquisition Corporation II from March 2021 to September 2025. Mr. Kaplan joined Ares in 2003 from Shelter Capital Partners, LLC, where he was a Senior Principal from June 2000 to April 2003. From 1991 through 2000, Mr. Kaplan was a Senior Partner of Apollo Management, L.P. and its affiliates. Prior to Apollo, Mr. Kaplan was a member of the Investment Banking Department at Donaldson, Lufkin & Jenrette Securities Corp. Mr. Kaplan currently serves on the supervisory board of directors of LuxExperience B.V., formerly known as MYT Netherlands Parent B.V. Mr. Kaplan also serves as the Chairman of the board of directors of the parent entity of Cooper's Hawk Winery & Restaurants. Mr. Kaplan's previous public company board experience includes Floor & Decor Holdings, Inc., Maidenform Brands, Inc., where he served as the company's Chairman, GNC Holdings, Inc., Dominick's Supermarkets, Inc., Stream Global Services, Inc., Orchard Supply Hardware Stores Corporation, Smart & Final Stores, Inc. and Allied Waste Industries Inc. Mr. Kaplan also currently serves as Chairman of the Board of Directors of Cedars-Sinai Medical Center and is on the Board of Trustees at the Los Angeles County Museum of Art (LACMA). Mr. Kaplan sits on the President's Advisory Group of the University of Michigan, where he graduated with High Distinction, Beta Gamma Sigma, with a Bachelor of Business Administration degree, concentrating in Finance. We believe Mr. Kaplan is well qualified to serve on the Board due to his knowledge of and extensive experience with leveraged finance, acquisitions and private equity investments, in addition to his service as a director of other public and private companies.

Allyson Satin. Ms. Satin will serve as a member of the Board. Ms. Satin has served on the Board since December 2025 and previously served on the Board from December 2023 to July 2025. Ms. Satin is a Partner in the Ares Corporate Strategy Group of Ares Management Corporation, where she focuses on the firm's SPAC Business. Ms. Satin previously served as the Chief Operating Officer of Ares Acquisition Corporation I from January 2021 through November 2023 and Chief Operating Officer of Ares Acquisition Corporation II from March 2023 through September 2025, and has served as a member of the board of directors of its successor, Kodiak AI, Inc. (NASDAQ: KDK) since September 2025. From 2009 to 2020, Ms. Satin was an investment professional in the Ares Private Equity Group where she participated in various leveraged buyouts, growth equity and distressed debt transactions. Prior to joining Ares in 2009, Ms. Satin was an investment banking analyst in the Global Financial Sponsors Group at Barclays Capital (formerly Lehman Brothers). Ms. Satin holds a B.S. from the University of California, Berkeley Haas School of Business in Business Administration. We believe Ms. Satin is well qualified to serve on the Board due to her knowledge of and extensive experience with leveraged finance, acquisitions and private equity investments, in addition to her service as a director of other companies.

Corporate Governance

Composition of the Board

Our business and affairs will be managed under the direction of the Board. The Board will include J. Clay Sell, Kamal Ghaffarian, Edward Sonnenschein, Michael J. Wallace, Kathleen W. Hyle, Christopher F. Ginther,

Gregory J. Goff, David B. Kaplan and Allyson Satin as members. The Board is expected to determine whether Michael J. Wallace, Kathleen W. Hyle, Christopher F. Ginther, Gregory J. Goff, David B. Kaplan and Allyson Satin qualify as independent in accordance with applicable Nasdaq rules. Subject to the terms of the Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws, the number of directors will be fixed by the Board.

When considering whether directors and director nominees have the experience, qualifications, attributes and skills, taken as a whole, to enable the Board to satisfy its oversight responsibilities effectively in light of its business and structure, the Board expects to focus primarily on each person's background and experience as reflected in the information discussed in each of the directors' individual biographies set forth above in order to provide an appropriate mix of experience and skills relevant to the size and nature of its business.

Director Independence

Nasdaq listing standards require that a majority of the board of directors be independent. An "independent director" is defined generally as a person other than an officer or employee of the company or its subsidiaries or any other individual having a relationship which in the opinion of the board of directors, would interfere with the director's exercise of independent judgment in carrying out the responsibilities of a director.

The Board will undertake a review of its composition, the composition of its committees and the independence of its directors and consider whether any director has a material relationship with the Company that could compromise his or her ability to exercise independent judgment in carrying out his or her responsibilities.

We anticipate that the Company will have a majority of "independent directors" as defined in Nasdaq listing standards and applicable SEC rules.

Classified Board of Directors

Pursuant to the Certificate of Incorporation, the Company's directors will be divided into three classes, with each class serving staggered three-year terms. The Board will initially consist of nine members. The Board will be divided among the three classes as follows:

- The Class I directors are _____, _____ and _____;
- The Class II directors are _____, _____ and _____; and
- The Class III directors are _____, _____ and _____.

Committees of the Board

The Board will direct the management of its business and affairs, as provided by Delaware law, and conduct its business through meetings of the Board and standing committees. The Board will have a standing audit and risk committee, compensation and culture committee and nominating and corporate governance committee, each of which will operate under a written charter that will be posted on the Investors Relations page of the Company's website at <https://x-energy.com/investors> as required by applicable Nasdaq rules.

From time to time, special committees may be established under the direction of the Board when the Board deems it necessary or advisable to address specific issues.

Audit and Risk Committee

The Board's audit and risk committee will be responsible for, among other things:

- appointing, compensating, retaining and overseeing the work of our independent registered public accounting firm and any other registered public accounting firm engaged for the purpose of preparing or issuing an audit report or related work or performing other audit, review or attest services for us;
- assessing the independence of our independent registered public accounting firm;

- pre-approving all audit and non-audit services provided to us by our independent registered public accounting firm (other than those provided pursuant to appropriate preapproval policies established by the audit committee or exempt from such requirement under the rules of the SEC);
- discussing with our independent registered public accounting firm any audit problems or difficulties and management's response;
- reviewing and discussing our annual and quarterly financial statements with management and our independent registered public accounting firm;
- reviewing, discussing and evaluating our policies with respect to risk assessment and risk management;
- reviewing and approving or ratifying any related person transactions;
- reviewing and discussing our internal control over financial reporting and code of business conduct and ethics;
- setting clear hiring policies for employees or former employees of our independent registered public accounting firm;
- establishing procedures for the receipt, retention and treatment of complaints received by us regarding accounting, internal accounting controls or auditing matters, and for the confidential and anonymous submission by our employees of concerns regarding questionable accounting or auditing matters; and
- preparing the audit committee report for inclusion in our annual proxy statements.

Our audit and risk committee is expected to consist of Kathleen W. Hyle, Gregory J. Goff and Allyson Satin with Kathleen W. Hyle serving as chair. All members of our audit and risk committee will meet the requirements for financial literacy under the applicable Nasdaq rules and regulations. The Board expects to affirmatively determine that each member of the audit and risk committee qualifies as "independent" under the Nasdaq's additional standards applicable to audit committee members and Rule 10A-3 of the Exchange Act applicable to audit committee members. The Board expects to determine that Kathleen W. Hyle qualifies as an "audit committee financial expert," as such term is defined in Item 407(d)(5) of Regulation S-K.

Compensation and Culture Committee

The Board's compensation and culture committee will be responsible for, among other things:

- reviewing and approving corporate goals and objectives with respect to the compensation of our Chief Executive Officer, evaluating our Chief Executive Officer's performance in light of these goals and objectives and setting our Chief Executive Officer's compensation;
- reviewing and setting or making recommendations to the Board regarding the compensation of our other executive officers;
- reviewing and making recommendations to the Board regarding director compensation;
- reviewing and approving or making recommendations to the Board regarding our incentive compensation and equity-based plans, policies and programs and administering the plans;
- reviewing and approving all employment and severance arrangements for our executive officers;
- reviewing and discussing annually with management our "*Compensation Discussion and Analysis*," to the extent it is required to be included in our annual report on Form 10-K or annual proxy statement;
- periodically reviewing our compensation policies and practices and assessing the risk associated with such policies and practices;
- administering and overseeing our compliance with our clawback policies;
- overseeing and reviewing with management our strategies, policies and practices regarding human capital management and talent development;
- preparing the annual compensation committee report required by SEC rules, to the extent required; and

- reviewing and discussing the results of our stockholder advisory votes on executive compensation and reviewing and recommending to the Board the frequency of such votes.

Our compensation and culture committee is expected to consist of Kathleen W. Hyle, Allyson Satin and with serving as chair. The Board expects to determine that Kathleen W. Hyle, Allyson Satin and qualify as “independent” under the Nasdaq’s additional standards applicable to compensation committee members.

Nominating and Corporate Governance Committee

The Board’s nominating and corporate governance committee will be responsible for, among other things:

- identifying individuals qualified to become members of the Board and ensuring that the Board has the requisite expertise and consists of persons with sufficiently diverse and independent backgrounds;
- recommending to the Board the persons to be nominated for election as directors and to each committee of the Board;
- developing and recommending to the Board corporate governance guidelines, and reviewing, reassessing the adequacy of such corporate governance guidelines and recommending any proposed changes to the Board for approval from time to time; and
- overseeing the annual self-evaluations of the Board and its committees.

Our nominating and corporate governance committee is expected to consist of Gregory J. Goff, Christopher F. Ginther and Michael J. Wallace, with Gregory J. Goff serving as chair. The Board expects to determine that Gregory J. Goff and Michael J. Wallace qualify as “independent” under Nasdaq rules applicable to nominating and corporate governance committee members.

Code of Ethics

The Company will adopt a Code of Business Conduct and Ethics that applies to all of our executive officers, directors and employees, including our principal executive officer, principal financial officer or principal accounting officer or persons performing similar functions, which will be available on our website. Our Code of Business Conduct and Ethics will be a “code of ethics,” as defined in Item 406(b) of Regulation S-K.

We intend to make any legally required disclosures regarding amendments to, or waivers of, provisions of our code of ethics on our website.

Compensation Committee Interlocks and Insider Participation

No anticipated member of the Board’s compensation committee was at any time during fiscal year 2024 and 2025, or at any other time, one of our officers or employees. None of our executive officers has served as a director or member of a compensation committee (or other committee serving an equivalent function) of any entity, one of whose executive officers is anticipated to serve as a member of the Board or of its compensation committee.

EXECUTIVE AND DIRECTOR COMPENSATION

This section discusses the material components of the executive compensation program for our executive officers who are named in the “2025 Summary Compensation Table” below. With respect to the year ended December 31, 2025, our “named executive officers” or “NEOs” were as follows:

- J. Clay Sell, Chief Executive Officer;
- Daniel Gross, Executive Vice President and Chief Financial Officer; and
- Dragan Popovic, Executive Vice President and Global Chief Operating Officer.

This discussion may contain forward-looking statements that are based on our current plans, considerations, expectations and determinations regarding future compensation programs. Actual compensation programs that we adopt may differ materially from the currently planned programs summarized in this discussion.

2025 Summary Compensation Table

The following table sets forth information concerning the compensation of our named executive officers for the year ended December 31, 2025.

Name and Principal Position	Salary (\$) ⁽¹⁾	Bonus (\$)	Stock Awards (\$) ⁽²⁾	All Other Compensation (\$) ⁽³⁾	Total (\$)
J. Clay Sell					
Chief Executive Officer	612,000	583,848	9,188,142	113,692	10,497,682
Daniel Gross ⁽⁴⁾					
Executive Vice President and Chief Financial Officer	36,264		6,339,673	1,058	6,376,995
Dragan Popovic ⁽⁵⁾⁽⁶⁾					
Executive Vice President and Global Chief Operating Officer	83,673	134,375	4,437,768		4,655,816

- (1) Amounts reflect base salary earned during 2025.
- (2) Amounts reflect the aggregate grant date fair value of profits interests in Management LLC granted during the year ended December 31, 2025 computed in accordance with FASB ASC Topic 718, Compensation — Stock Compensation and does not correspond to the actual economic value that may be received by the named executive officers from these awards. We provide information regarding the assumptions used to calculate the value of all profits interests made to named executive officers in Note 12 — Unit-Based Compensation Expense to the financial statements included in this prospectus.
- (3) Amounts reflect (i) \$19,701 and \$1,058 in employer matching contributions made to the X-energy defined contribution plan, for Messrs. Sell and Gross, respectively; and (ii) \$93,991 in reimbursements to Mr. Sell for expenses incurred in connection with travel to and from his primary residence.
- (4) Mr. Gross commenced employment as our Executive Vice President and Chief Financial Officer in November 2025.
- (5) Mr. Popovic commenced employment as our Executive Vice President and Global Chief Operating Officer in October 2025.
- (6) During his period of employment prior to December 22, 2025, Mr. Popovic was employed by our subsidiary, X-Energy Canada, Inc., and was paid in local currency (CAD). The amounts for Mr. Popovic earned in local currency have been converted to USD using an exchange rate for December 31, 2025 of 1 USD to 1.37 CAD.

Narrative to Summary Compensation Table

2025 Salaries

Each of our named executive officers receives an annual base salary to compensate the executive for services rendered to us. The base salary payable to each named executive officer is intended to provide a fixed component of compensation reflecting the executive's duties and authorities, contributions, prior experience and sustained performance.

The 2025 annual base salaries for our named executive officers were \$612,000 for Mr. Sell, \$550,000 for Mr. Gross, and \$450,000 for Mr. Popovic.

The "Salary" column of the 2025 Summary Compensation Table above shows the actual base salaries earned by each named executive officer in 2025.

Cash Incentive Compensation

Annual cash bonuses are determined by our Compensation and Culture Committee and set at a level that is commensurate with the executive's duties and authorities, contributions, prior experiences and sustained performance. The discretionary cash bonus earned by Mr. Sell for fiscal year 2025 was \$583,848. Mr. Gross was not eligible for an annual bonus for fiscal year 2025, and Mr. Popovic received a guaranteed annual cash bonus of \$134,375 for fiscal year 2025, as described in the section entitled "Executive Compensation Arrangements" below.

Equity Compensation

2025 Equity Awards

Prior to the closing, Management LLC typically granted Class B-2 Common Units under the Management LLC Profits Interest Plan (the "Profits Interest Plan"). We refer to these Management LLC Class B-2 Common Units as "Incentive Units." We granted equity awards in the form of Class B Common Units of Management LLC intended to qualify as profits interests within the meaning of applicable tax guidance. The grant of Class B Units is implemented through an "upstairs-downstairs" structure, such that our employees, including our named executive officers, receive Class B Units of Management LLC that mirror the economics (including vesting schedules) of corresponding units that X-energy issues to Management LLC.

In June 2025, we granted 2,576,000 Incentive Units to Mr. Sell and, in December 2025, we granted the following Incentive Units to our named executive officers: 1,147,800 Incentive Units to Mr. Sell, 2,051,674 Incentive Units to Mr. Gross and 1,436,171 Incentive Units to Mr. Popovic.

The Incentive Unit awards each vest in substantially equal annual installments on each of the first, second, third and fourth anniversaries of the applicable vesting commencement date, subject to the named executive officer's continuous employment through the applicable vesting date. The vesting commencement date for the Incentive Unit awards granted to Mr. Sell in June 2025 is January 1, 2024, and the vesting commencement date for the Incentive Unit awards granted to Messrs. Sell, Gross and Popovic in December 2025 is December 23, 2025.

In connection with this initial public offering, both XERC and Management LLC will effectuate a recapitalization, pursuant to which all outstanding units in XERC and Management LLC will be recapitalized into common units in accordance with the applicable operating agreement (on a "value-for-value" basis based on the fair market value of the equity interests, including the Incentive Units, at the time of the offering and the common stock price in the offering). Following this recapitalization, the resulting common units will continue to be subject to any applicable vesting conditions of the corresponding Incentive Units before the applicable recapitalization. Thereafter, Management LLC will contribute all of its Common Units of XERC to X-energy in exchange for an equal number of shares of X-energy Class A common stock, which Class A common stock shall be subject to the same vesting conditions of the corresponding Common Units of XERC before the exchange. In addition, in connection with this offering we expect the Profits Interests Plan will terminate and we will not make further awards under the Profits Interest Plan.

2026 Equity Incentive Plan

In connection with this offering, we intend to adopt the 2026 Equity Incentive Plan, or the 2026 Plan, in order to facilitate the grant of cash and equity incentives to directors, employees (including our named executive officers) and consultants of our company and employees and consultants or certain of our affiliates and to enable our company and certain of our affiliates to obtain and retain services of these individuals, which is essential to our long-term success. For additional information about the 2026 Plan, please see the section titled “2026 Equity Incentive Plan” below.

IPO Equity Awards

Our Board intends to approve the grant of restricted stock unit awards and stock options pursuant to the 2026 Plan to certain of our employees, including Messrs. Sell, Gross and Popovic, and non-employee directors, which grants will become effective in connection with the consummation of this offering (“IPO Equity Awards”), subject to continued service through the grant date. Stock options will be granted only to employees and non-employee directors who hold Incentive Units.

The IPO Equity Awards that will be granted to each of Messrs. Sell, Gross and Popovic will be comprised of stock options and are expected to have a cumulative value of \$, \$, and \$, respectively, as of the closing of this offering. In addition, certain of our directors who hold Incentive Units will receive stock options, which are expected to have a cumulative value of \$ in the aggregate.

Each stock option granted to our named executive officers and directors will vest and become exercisable in substantially equal annual installments pursuant to the same vesting schedule as the grantee’s Incentive Units.

The IPO Equity Awards that will be granted to our non-employee directors will be comprised of restricted stock unit awards, which are further described under the section titled “Executive and Director Compensation — Director Compensation — Non-Employee Director Compensation Program” below.

The aggregate value of restricted stock unit awards to be granted to our employees and non-employee directors in connection with the offering will equal approximately \$. The aggregate value of stock options and restricted stock unit awards to be granted to our employees in connection with the offering will equal approximately \$.

Other Elements of Compensation and Compensation Policies

We provide benefits to our named executive officers on the same basis as provided to all of our employees, including health, dental and vision insurance; critical illness insurance; life insurance; accident insurance; hospital indemnity insurance; short-and long-term disability insurance; and a tax-qualified Section 401(k) plan for which we make safe harbor contributions on behalf of our employees. In 2025, we also provided Mr. Sell with compensation to cover expenses incurred by him in connection with travel to and from his primary residence (including commuting, lodging and dining expenses).

In addition to the health and welfare benefits described above, prior to his relocation to the United States in December 2025, Mr. Popovic was eligible to receive similar health and welfare benefits in connection with his employment in Canada.

We believe the employee benefits and perquisites described above are necessary and appropriate to provide a competitive compensation package to our named executive officers.

No Tax Gross-Ups

We do not make gross-up payments to cover our named executive officers’ personal income taxes that may pertain to any of the compensation or perquisites we pay or provide.

Clawback Policy

In connection with this offering, our Board intends to adopt a compensation recovery policy that complies with the listing standards of Nasdaq, as required by the Dodd-Frank Act.

Outstanding Equity Awards at Fiscal Year-End

The following table summarizes the number of outstanding unvested Incentive Units held by each named executive officer as of December 31, 2025.

Name	Grant Date	Number of Incentive Units That Have Not Vested (#)	Market Value of Incentive Units That Have Not Vested (\$) ⁽¹⁾
J. Clay Sell	June 13, 2025	1,932,000 ⁽²⁾	16,151,520
	December 23, 2025	1,147,800 ⁽³⁾	3,546,702
Daniel Gross	December 23, 2025	2,051,674 ⁽³⁾	6,339,673
Dragan Popovic	December 23, 2025	1,436,171 ⁽³⁾	4,437,768

- (1) The Incentive Units are not publicly traded and, therefore, there was no ascertainable public market value for the Incentive Units as of December 31, 2025. The value of the Incentive Units is estimated as of December 31, 2025 based on the number of outstanding unvested Incentive Units as of such date and taking into account applicable distribution thresholds, and was estimated to be \$3.09 (for Incentive Units granted in December 2025) and \$8.36 (for Incentive Units granted in June 2025).
- (2) Represents unvested Incentive Units that will vest in substantially equal annual installments on each of the first, second, third and fourth anniversaries of January 1, 2024, subject to Mr. Sell's continuous service through the applicable vesting date. The distribution threshold is \$1,729,728,630.
- (3) Represents unvested Incentive Units that will vest in substantially equal annual installments on each of the first, second, third and fourth anniversaries of the grant date, subject to the named executive officer's continuous service through the applicable vesting date. The distribution threshold is \$5,000,000,000.

Executive Compensation Arrangements

Each of Messrs. Sell, Gross and Popovic is party to an offer letter with X Energy, LLC that provides for at-will employment that will continue until terminated at any time by either party. Pursuant to the terms of his offer letter, Mr. Gross is eligible for an annual cash incentive bonus (targeted at 75% of his base salary) commencing in the 2026 performance year, and is entitled to receive a monthly stipend covering reasonable expenses related to executive housing, travel and other expenses associated with commuting to the company's Maryland headquarters, and reimbursement of up to \$175,000 in relocation expense reimbursements. Pursuant to the terms of his offer letter, Mr. Popovic is eligible for an annual cash incentive bonus (targeted at 75% of his base salary), with a guaranteed bonus of \$134,375 for 2025, and is entitled to receive reimbursement of travel expenses for commuting, lodging, and house-hunting trips, and up to an additional \$135,000 in relocation expense reimbursements. As of the end of 2025, Mr. Gross had not received any commuting expense reimbursements, and neither Mr. Gross nor Mr. Popovic had received any relocation expense reimbursements. Pursuant to their offer letters, each of our named executive officers is eligible to participate in the benefit plan and programs maintained by us for the benefit of our employees. None of the offer letters provide for severance payments on termination of employment.

Each of Messrs. Sell, Gross and Popovic also entered into the Company's standard form of non-disclosure and non-solicitation agreement, which includes a company information non-disclosure covenant that lasts during employment and for five years thereafter, a perpetual government data non-disclosure covenant, and an employee and client non-solicitation covenant that lasts during employment and for two years thereafter. In addition, as a condition to their receipt of Incentive Units, they each entered into a restrictive covenant letter, which includes non-competition and employee and business relationship non-solicitation covenants that apply during employment and for one year following termination of employment, a company information non-disclosure covenant and non-disparagement covenant that each apply during the period they provide services to X-energy and thereafter, and an assignment of intellectual property covenant.

2026 Equity Incentive Plan

In connection with this offering, we intend to adopt the 2026 Plan, under which we may grant equity and cash incentive awards in order to attract, motivate and retain the talent for which we compete, subject to stockholder approval. The material terms of the 2026 Plan are summarized below.

Eligibility and Administration. Our employees, consultants and directors, and employees and consultants of our affiliates, will be eligible to receive awards under the 2026 Plan. Following the completion of this offering, the 2026 Plan will be administered by our board of directors with respect to awards to non-employee directors and by our compensation committee with respect to other participants, each of which may delegate its duties and responsibilities to committees of our directors and/or officers (referred to collectively as the plan administrator), subject to the limitations imposed under the 2026 Plan, Section 16 of the Exchange Act, stock exchange rules and other applicable laws. The plan administrator will have the authority to take all actions and make all determinations under the 2026 Plan, to interpret the 2026 Plan and award agreements and to adopt, amend and repeal rules for the administration of the 2026 Plan as it deems advisable. The plan administrator will also have the authority to determine which eligible service providers receive awards, grant awards and set the terms and conditions of all awards under the 2026 Plan, including any vesting and vesting acceleration provisions, subject to the conditions and limitations in the 2026 Plan.

Limitation on Awards and Shares Available. The initial aggregate number of shares of our common stock that will be available for issuance under the 2026 Plan will be equal to 10% of the number of shares of our Class A common stock and Class B common stock outstanding (assuming all shares of Class A common stock reserved under the 2026 Plan have been issued) as of immediately following the completion of this offering (which is expected to be _____ shares, assuming an initial public offering price of \$ _____ per share, which is the midpoint of the estimated price range set forth on the cover page of this prospectus). In addition, the number of shares of our common stock available for issuance under the 2026 Plan will be subject to an annual increase on the first day of each calendar year beginning on and including January 1, 2027 and ending on and including January 1, 2036, equal to the lesser of (A) 5% of the aggregate number of shares of our Class A common stock and Class B common stock outstanding on the final day of the immediately preceding calendar year and (B) such smaller number of shares as is determined by our board of directors. The maximum number of shares that may be issued pursuant to the exercise of incentive stock options, or ISOs, granted under the 2026 Plan, will be 100,000,000. Any shares issued pursuant to the 2026 Plan will be Class A common stock and may consist, in whole or in part, of authorized and unissued common stock, treasury common stock or common stock purchased on the open market.

If an award under the 2026 Plan expires, lapses or is terminated, exchanged for or settled in cash, any shares subject to such award (or portion thereof) may, to the extent of such expiration, lapse, termination or cash settlement, be used again for new grants under the 2026 Plan. Shares tendered or withheld to satisfy the exercise price or tax withholding obligation for any award will not reduce the shares available for grant under the 2026 Plan. Further, the payment of dividend equivalents in cash in conjunction with any awards under the 2026 Plan will not reduce the shares available for grant under the 2026 Plan. However, the following shares may not be used again for grant under the 2026 Plan: (i) shares subject to stock appreciation rights, or SARs, that are not issued in connection with the stock settlement of the SAR on exercise, and (ii) shares purchased on the open market with the cash proceeds from the exercise of options.

Awards granted under the 2026 Plan upon the assumption of, or in substitution for, awards authorized or outstanding under a qualifying equity plan maintained by an entity with which we enter into a merger or similar corporate transaction will not reduce the shares available for grant under the 2026 Plan but will count against the maximum number of shares that may be issued upon the exercise of ISOs.

The 2026 Plan provides that, commencing with calendar year 2027, the sum of any cash compensation and the aggregate grant date fair value (determined as of the date of the grant under Financial Accounting Standards Board Accounting Standards Codification Topic 718, or any successor thereto) of all awards granted to a non-employee director as compensation for services as a non-employee director during any fiscal year, or director limit, may not exceed an amount equal to \$750,000 (increased to \$1,000,000 in the calendar year of a non-employee director's initial service as a non-employee director or any calendar year during which a non-employee director serves as chair of our Board or lead independent director), which limits shall not apply to the compensation for any non-employee director who serves in any capacity in addition to that of a

non-employee director for which he or she receives additional compensation or any compensation paid prior to the calendar year following the calendar year in which the 2026 Plan becomes effective.

Awards. The 2026 Plan provides for the grant of stock options, including ISOs and nonqualified stock options, or NSOs, SARs, restricted stock, dividend equivalents, restricted stock units, or RSUs, and other stock or cash-based awards. Certain awards under the 2026 Plan may constitute or provide for payment of “nonqualified deferred compensation” under Section 409A of the Code, which may impose additional requirements on the terms and conditions of such awards. All awards under the 2026 Plan will be evidenced by award agreements, which will detail the terms and conditions of the awards, including any applicable vesting and payment terms and post-termination exercise limitations. Awards other than cash awards generally will be settled in shares of our common stock, but the applicable award agreement may provide for cash settlement of any award. A brief description of each award type follows.

- *Stock Options and SARs.* Stock options provide for the purchase of shares of our common stock in the future at an exercise price set on the grant date. ISOs, in contrast to NSOs, may provide tax deferral beyond exercise and favorable capital gains tax treatment to their holders if certain holding period and other requirements of the Code are satisfied. SARs entitle their holder, upon exercise, to receive from us an amount equal to the appreciation of the shares subject to the award between the grant date and the exercise date. Unless otherwise determined by our board, the exercise price of a stock option or SAR may not be less than 100% of the fair market value of the underlying share on the grant date (or 110% in the case of ISOs granted to certain significant stockholders), except with respect to certain substitute awards granted in connection with a corporate transaction. The term of a stock option or SAR may not be longer than ten years (or five years in the case of ISOs granted to certain significant stockholders). Conditions applicable to stock options and/or SARs may be based on continuing service, the attainment of performance goals and/or such other conditions as the plan administrator may determine.
- *Restricted Stock and RSUs.* Restricted stock is an award of nontransferable shares of our common stock that are subject to certain vesting conditions and other restrictions. RSUs are contractual promises to deliver shares of our common stock in the future, which may also remain forfeitable unless and until specified conditions are met and may be accompanied by the right to receive the equivalent value of dividends paid on shares of our common stock prior to the delivery of the underlying shares (i.e., dividend equivalent rights). The plan administrator may provide that the delivery of the shares underlying RSUs will be deferred on a mandatory basis or at the election of the participant. The terms and conditions applicable to RSUs will be determined by the plan administrator, subject to the conditions and limitations contained in the 2026 Plan. Conditions applicable to restricted stock and RSUs may be based on continuing service, the attainment of performance goals and/or such other conditions as the plan administrator may determine.
- *Other Stock or Cash-Based Awards.* Other stock or cash-based awards are awards of cash, fully vested shares of our common stock and other awards valued wholly or partially by referring to, or otherwise based on, shares of our common stock. Other stock or cash-based awards may be granted to participants and may also be available as a payment form in the settlement of other awards, as standalone payments and as payment in lieu of compensation to which a participant is otherwise entitled.
- *Dividend Equivalents.* Dividend equivalents represent the right to receive the equivalent value of dividends paid on shares of our common stock and may be granted alone or in tandem with awards other than stock options or SARs. Dividend equivalents are credited as of the dividend record dates during the period between the date an award is granted and the date such award vests, is exercised, is distributed or expires, as determined by the plan administrator. Dividend equivalents payable with respect to an award prior to the vesting of such award instead will be paid out to the participant only to the extent that the vesting conditions are subsequently satisfied and the award vests.

Certain Transactions. The plan administrator has broad discretion to take action under the 2026 Plan, as well as make adjustments to the terms and conditions of existing and future awards, to prevent the dilution or enlargement of intended benefits and facilitate necessary or desirable changes in the event of certain transactions and events affecting our common stock, such as stock dividends, stock splits, mergers,

acquisitions, consolidations and other corporate transactions. In addition, in the event of certain non-reciprocal transactions with our stockholders known as “equity restructurings,” the plan administrator will make equitable adjustments to the 2026 Plan and outstanding awards. In the event of a change in control (as defined in the 2026 Plan), to the extent that the surviving entity declines to continue, convert, assume or replace outstanding awards, then all such awards will become fully vested and exercisable in connection with the transaction. Upon or in anticipation of a change in control, the plan administrator may cause any outstanding awards to terminate at a specified time in the future and give the participant the right to exercise such awards during a period of time determined by the plan administrator in its sole discretion. Individual award agreements may provide for additional accelerated vesting and payment provisions.

Repricing. Our board of directors may, without approval of the stockholders, reduce the exercise price of any stock option or SAR, or cancel any stock option or SAR in exchange for cash, other awards or stock options or SARs with an exercise price per share that is less than the exercise price per share of the original stock options or SARs.

Plan Amendment and Termination. Our board of directors may amend or terminate the 2026 Plan at any time; however, no amendment, other than an amendment that increases the number of shares available under the 2026 Plan, may materially and adversely affect an award outstanding under the 2026 Plan without the consent of the affected participant, and stockholder approval will be obtained for any amendment to the extent necessary to comply with applicable laws. The 2026 Plan will remain in effect until the tenth anniversary of the effective date of the 2026 Plan, unless earlier terminated. No awards may be granted under the 2026 Plan after its termination.

Foreign Participants, Claw-back Provisions, Transferability and Participant Payments. The plan administrator may modify award terms, establish subplans and/or adjust other terms and conditions of awards, subject to the share limits described above, in order to facilitate grants of awards subject to the laws and/or stock exchange rules of countries outside of the U.S. All awards will be subject to any Company clawback policy as set forth in such clawback policy or the applicable award agreement. Awards under the 2026 Plan are generally non-transferrable, except by will or the laws of descent and distribution, or, subject to the plan administrator’s consent, pursuant to a domestic relations order, and are generally exercisable only by the participant. With regard to tax withholding, exercise price and purchase price obligations arising in connection with awards under the 2026 Plan, the plan administrator may, in its discretion, accept cash or check, shares of our common stock that meet specified conditions, a “market sell order” or such other consideration as it deems suitable.

Employee Stock Purchase Plan

In connection with this offering, we intend to adopt, and our stockholders will approve, the X-Energy, Inc. Employee Stock Purchase Plan, or the ESPP. The material terms of the ESPP are summarized below.

The ESPP is comprised of two distinct components in order to provide increased flexibility to grant options to purchase shares under the ESPP. Specifically, the ESPP authorizes (i) the grant of options to U.S. employees that are intended to qualify for favorable U.S. federal tax treatment under Section 423 of the Code, if eligible under applicable law (the “Section 423 Component”), and (ii) the grant of options that are not intended to be tax-qualified under Section 423 of the Code to facilitate participation for employees located within and outside of the U.S. who are not eligible for or otherwise do not benefit from favorable U.S. federal tax treatment and to provide flexibility to comply with non-U.S. law and other considerations (the “Non-Section 423 Component”). Where permitted under applicable law, we expect that the Non-Section 423 Component will generally be operated and administered on terms and conditions similar to the Section 423 Component.

Shares Available; Administration

The initial share reserve under the ESPP will equal 2% of the number of fully-diluted shares of our Class A and Class B common stock outstanding (assuming all shares reserved under the ESPP have been issued) as of immediately following the completion of this offering (which is expected to be shares, assuming an initial public offering price of \$ _____ per share, which is the midpoint of the price range set forth on the cover page of this prospectus).

In addition, the number of shares available for issuance under the ESPP will be annually increased on the first day of each calendar year beginning January 1, 2027 and ending on and including January 1, 2036, equal to the lesser of (i) 0.5% of the aggregate number of shares of our Class A and Class B common stock outstanding on the final day of the immediately preceding calendar year and (ii) such smaller number of shares as is determined by our board of directors. In no event will more than 50,000,000 shares of our Class A common stock be available for issuance under the ESPP.

Our board of directors or a committee designated by our board of directors will have authority to interpret the terms of the ESPP and determine eligibility of participants. The compensation committee will be the administrator of the ESPP.

Eligibility

The plan administrator may designate certain of our subsidiaries as participating “designated subsidiaries” in the ESPP and may change these designations from time to time. Employees of our Company and our designated subsidiaries are eligible to participate in the ESPP if they meet the eligibility requirements under the ESPP established from time to time by the plan administrator. However, an employee participating in the Section 423 Component may not be granted rights to purchase stock under the ESPP if such employee, immediately after the grant, would own (directly or through attribution) stock possessing 5% or more of the total combined voting power or value of all classes of our common or other class of stock. Eligible employees become participants in the ESPP by enrolling and authorizing payroll deductions by the deadline established by the plan administrator prior to the relevant offering date. Directors who are not employees, as well as consultants, are not eligible to participate. Employees who choose to not participate, or are not eligible to participate at the start of an offering period but who become eligible thereafter, may enroll in any subsequent offering period.

Participation in an Offering

Stock will be offered under the ESPP during offering periods. The length of offering periods under the ESPP will be determined by the plan administrator and may be up to 27 months long. Employee payroll deductions will be used to purchase shares on each purchase date during an offering period. The number of purchase periods within, and purchase dates during, each offering period will be established by the plan administrator. Offering periods under the ESPP will commence when determined by the plan administrator. The plan administrator may, in its discretion, modify the terms of future offering periods. In non-U.S. jurisdictions where participation in the ESPP through payroll deductions is prohibited, the plan administrator may provide that an eligible employee may elect to participate through contributions to the participant’s account under the ESPP in a form acceptable to the plan administrator in lieu of or in addition to payroll deductions.

The ESPP will permit participants to purchase our common stock through payroll deductions of up to 15% of their eligible compensation, which will include a participant’s gross base salary for services to us, excluding one-time bonuses, periodic bonuses, sales commissions, expense reimbursements, fringe benefits and other special payments. However, the plan administrator may change the definition of eligible compensation and the maximum amount of possible payroll deductions, with respect to any offering under the ESPP. The plan administrator will establish a maximum number of shares that may be purchased by a participant during any offering period or purchase period, which, in the absence of a contrary designation, will be 10,000 shares for an offering period and/or a purchase period. In addition, no employee will be permitted to accrue the right to purchase stock under the Section 423 Component at a rate in excess of \$25,000 worth of shares during any calendar year during which such a purchase right is outstanding (based on the fair market value per share of our common stock as of the first day of the offering period).

On the first trading day of each offering period, each participant automatically will be granted an option to purchase shares of our common stock. The option will be exercised on the applicable purchase date(s) during the offering period, to the extent of the payroll deductions accumulated during the applicable purchase period. The purchase price of the shares, in the absence of a contrary determination by the plan administrator, will be 85% of the lower of the fair market value of our common stock on the first trading day of the offering period or on the applicable purchase date, which will be the final trading day of the applicable purchase period.

Participants may voluntarily end their participation in the ESPP at any time at least two weeks prior to the end of the applicable offering period or, if earlier, purchase period (or such longer or shorter period specified by the plan administrator), and will be paid their accrued payroll deductions that have not yet been used to purchase shares of common stock. Participation ends automatically upon a participant's termination of employment.

Transferability

A participant may not transfer rights granted under the ESPP other than by will, the laws of descent and distribution or as otherwise provided in the ESPP.

Certain Transactions

In the event of certain transactions or events affecting our common stock, such as any stock dividend or other distribution, change in control, reorganization, merger, consolidation or other corporate transaction, the plan administrator will make equitable adjustments to the ESPP and outstanding rights. In addition, in the event of the foregoing transactions or events or certain significant transactions, including a change in control, the plan administrator may provide for (i) either the replacement of outstanding rights with other rights or property or termination of outstanding rights in exchange for cash, (ii) the assumption or substitution of outstanding rights by the successor or survivor corporation or parent or subsidiary thereof, (iii) the adjustment in the number and type of shares of stock subject to outstanding rights, (iv) the use of participants' accumulated payroll deductions to purchase stock on a new purchase date prior to the next scheduled purchase date and termination of any rights under ongoing offering periods or (v) the termination of all outstanding rights. Under the ESPP, a change in control has the same definition as given to such term in the 2026 Plan.

Plan Amendment; Termination

The plan administrator may amend, suspend or terminate the ESPP at any time. However, stockholder approval of any amendment to the ESPP must be obtained for any amendment which increases the aggregate number or changes the type of shares that may be sold pursuant to rights under the ESPP, changes the corporations or classes of corporations whose employees are eligible to participate in the ESPP, or as required to comply with applicable law.

Director Compensation

During the fiscal year ended December 31, 2025, our non-employee directors who received compensation were Dr. Kam Ghaffarian, Christopher F. Ginther, Gregory J. Goff, Kathleen W. Hyle and Michael J. Wallace, who we refer to as our non-employee directors in this section.

2025 Director Compensation Table

The following table sets forth information for 2025 regarding the compensation awarded to, earned by or paid to the non-employee directors.

Name	Fees Earned or Paid in Cash (\$) ⁽¹⁾	Stock Awards (\$) ⁽¹⁾	Total (\$)
Dr. Kam Ghaffarian	400,000		400,000
Christopher F. Ginther ⁽²⁾	80,212	465,690	545,902
Gregory J. Goff	95,000	465,690	560,690
Kathleen W. Hyle	100,000	384,440	484,440
Michael J. Wallace	80,000	242,090	322,090

- (1) Amounts reflect the aggregate grant date fair value of profits interests granted during the year ended December 31, 2025 computed in accordance with FASB ASC Topic 718, Compensation—Stock Compensation and does not correspond to the actual economic value that may be received by the non-employee directors from these awards. We provide information regarding the assumptions used to

calculate the value of all profits interests made to non-employee directors in Note 12 — Unit-Based Compensation Expense to the financial statements included in this prospectus.

- (2) The amounts for Mr. Ginther originally denoted in local currency (CAD) have been converted to USD using an average exchange rate for December 31, 2025 of 1 USD to 1.37 CAD.

The following table summarizes the number of outstanding unvested Incentive Units held by each non-employee director, as of December 31, 2025.

Name	Stock Awards
Dr. Kam Ghaffarian	—
Christopher F. Ginther	75,250
Gregory J. Goff	75,250
Kathleen W. Hyle	107,250
Michael J. Wallace	75,250

Non-Employee Director Compensation Program

In connection with this offering, we intend to approve and implement a compensation program for our non-employee directors (each, an “Eligible Director”). The Director Compensation Program will provide for annual cash retainer fees and long-term equity awards. The material terms of the Director Compensation Program are described below.

The Director Compensation Program consists of the following components:

Cash Compensation:

- Annual Retainer: \$80,000
- Annual Committee Chair Retainer:
 - Audit and Risk: \$25,000
 - Compensation: \$20,000
 - Nominating and Governance: \$15,000
- Non-Executive Chair: \$50,000

The annual cash retainers will be paid in quarterly installments in arrears. Annual cash retainers will be pro-rated for any partial calendar quarter of service.

Equity Compensation:

- **2026 Awards:** Our board intends to approve the grant of RSU awards pursuant to the 2026 Plan to our non-employee directors, which grants will become effective in connection with the completion of this offering (the “2026 Awards”). The dollar-denominated value of each award will be \$150,000 (or, solely with respect to the Non-Executive Chair of the Board as of such Annual Meeting, \$200,000) and the aggregate dollar-denominated value of these awards will be \$. The aggregate number of shares of our Class A common stock that will be subject to the 2026 Awards will be determined based on the initial public offering price per share of our common stock in this offering.

The 2026 Awards will vest in full on the date of the annual meeting of stockholders to be held in 2027, or, if earlier, the first anniversary of the closing of this offering, subject to continued service through the applicable vesting date.

- **Annual Award:** An Eligible Director who is serving on our board of directors as of the date of an annual meeting of stockholders (beginning with calendar year 2027) automatically shall be granted, on the date of such annual meeting, an RSU award with an aggregate value of \$150,000 (or, solely with respect to the Non-Executive Chair of the Board as of such Annual Meeting, \$200,000). The number of RSUs subject to the award will be determined by dividing the value of the award by the price per share of our Class A common stock on the applicable grant date.

Each Annual Award will vest in full on the earlier to occur of the first anniversary of the grant date and the date of the next annual meeting following the grant date, subject to continued service.

In addition, each equity award granted to an Eligible Director under the Director Compensation Program will vest in full immediately prior to the occurrence of a “change in control” (as defined in the 2026 Plan). Compensation under the Director Compensation Program will be subject to the annual limits on non-employee director compensation set forth in the 2026 Plan.

CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS

The following includes a summary of transactions since January 1, 2024 and any currently proposed transactions, to which we were or are to be a participant, in which (i) the amount involved exceeded or will exceed \$120,000; and (ii) any of our directors, executive officers, or holders of more than 5% of our capital stock, or any affiliate or member of the immediate family of the foregoing persons or entities, had or will have a direct or indirect material interest, other than compensation and other arrangements that are described under “Executive and Director Compensation.”

We believe the terms obtained or consideration that we paid or received, as applicable, in connection with the transactions described below were comparable to terms available or the amounts that we would pay or receive, as applicable, in arm’s-length transactions.

Transactions

In connection with the Transactions, we will engage in certain transactions with certain of our directors, executive officers and other persons and entities which are or will become holders of 5% or more of our voting securities upon the consummation of the Transactions. These transactions are described in “Organizational Structure.”

XERC LLC Agreement

In connection with the closing of this offering, XERC will amend and restate its limited liability company agreement by adopting the XERC LLC Agreement. The XERC LLC Agreement will (i) permit the issuance and ownership of the post-offering equity of XERC and (ii) admit X-energy as the managing member of XERC.

Appointment as Managing Member. Under the XERC LLC Agreement, X-Energy, Inc. is a member and the managing member of XERC. As the managing member, X-Energy, Inc. is able to control all of the day-to-day business affairs and decision-making of XERC without the approval of any other member. As such, X-Energy, Inc., through its officers and directors, will be responsible for all operational and administrative decisions of XERC and the day-to-day management of XERC’s business. Pursuant to the terms of the XERC LLC Agreement, X-Energy, Inc. cannot be removed as the managing member of XERC by other members.

Compensation. X-Energy, Inc. is not entitled to compensation for its services as managing member. X-Energy, Inc. is entitled to reimbursement by XERC for fees and expenses incurred on behalf of XERC, including all expenses associated with the Transactions and maintaining its corporate existence.

Capitalization. The XERC LLC Agreement provides for a single class of Common Units. All Common Units shall have identical rights and privileges in all respects. Each Common Unit entitles the holder to a pro rata share of the net profits and net losses and distributions of XERC.

Distributions. The XERC LLC Agreement requires “Tax Distributions,” as that term is defined in the XERC LLC Agreement, to be made by XERC to X-Energy, Inc. and to its “Members,” as that term is defined in the XERC LLC Agreement. Tax Distributions shall be made quarterly to X-Energy, Inc. and each Member based on the greater of (i) their allocable share of the taxable income of XERC multiplied by a tax rate that will be determined by X-Energy, Inc. and (ii) the pro rata amount of tax distributions paid to other Members holding the same class of equity. The tax rate used to determine tax distributions will apply regardless of the actual final tax liability of any such member. The XERC LLC Agreement also allows for distributions to be made by XERC to its members on a pro rata basis out of “distributable cash,” which is the amount of cash that may be distributed by XERC to its Members in accordance with existing credit agreements.

Common Unit Redemption Right. The XERC LLC Agreement provides a redemption right to the Members (other than X-Energy, Inc. and its subsidiaries) and option holders (in connection with the exercise of an XERC Option, as such term is defined in the XERC LLC Agreement), which entitles them to have their Common Unit redeemed, in whole or in part, at the election of each such person, for newly-issued shares of X-Energy, Inc. Class A common stock on a one-to-one basis or, to the extent there is cash available from a contemporaneous public offering or private sale of X-Energy, Inc. Class A common stock by X-Energy, Inc.,

cash (in each case, subject to the terms and restrictions set forth in the XERC LLC Agreement). Alternatively, X-Energy, Inc. may instead authorize a cash payment equal to a volume weighted average market prices of one share of X-Energy, Inc. Class A common stock for each unit redeemed (subject to customary adjustments, including for stock splits, stock dividends and similar events affecting the X-Energy, Inc. Class A common stock). If X-Energy, Inc. decides to make a cash payment, the Member has the option to rescind its redemption request within a specified time period. Upon the exercise of the redemption right, the redeeming member will surrender its units for cancellation. The XERC LLC Agreement requires that X-Energy, Inc. contribute cash or shares of X-Energy, Inc. Class A common stock to XERC in exchange for an amount of units that will be issued to us equal to the number of units redeemed from the Member. XERC will then distribute the cash or shares of X-Energy, Inc. Class A common stock to such Member to complete the redemption. In the event of such election by a Member, X-Energy, Inc. may, at its option, effect a direct exchange of cash or X-Energy, Inc. Class A common stock for such units in lieu of such a redemption. Whether by redemption or exchange, we are obligated to ensure that at all times the number of Common Units that X-Energy, Inc. own equals the number of shares of X-Energy, Inc. Class A common stock issued by X-Energy, Inc. (subject to certain exceptions for treasury shares and shares underlying certain convertible or exchangeable securities). Shares of X-Energy, Inc. Class B common stock will be cancelled on a one-to-one basis if we, at the election of a Member, redeem or exchange units of such Member pursuant to the terms of the XERC LLC Agreement.

Issuance of Equity-based Compensation. X-Energy, Inc. may implement equity compensation plans and any actions taken under such equity compensation plans (such as the grant or exercise of options to acquire shares of X-Energy, Inc. Class A common stock), whether taken with respect to or by an employee or other service provider of X-Energy, Inc., XERC or its subsidiaries, in a manner determined by X-Energy, Inc., in accordance with the initial implementation guidelines attached to the XERC LLC Agreement, which may be amended from time to time. X-Energy, Inc. may amend the XERC LLC Agreement (including the initial implementation guidelines attached thereto) as necessary or advisable in its sole discretion in connection with the adoption, implementation, modification or termination of an equity compensation plan. In the event of such an amendment, XERC will provide notice of such amendment to the Members. XERC is expressly authorized to issue units (i) in accordance with the terms of any equity compensation plans or (ii) in an amount equal to the number of shares of Class A common stock issued pursuant to any such equity compensation plans, without any further act, approval or vote of any Member or any other Persons.

Maintenance of One-to-One Ratios. X-Energy, Inc.'s Amended and Restated Certificate of Incorporation and the XERC LLC Agreement will require that X-Energy, Inc. and XERC, respectively, at all times maintain (i) a one-to-one ratio between the number of Common Units owned by X-Energy, Inc., directly or indirectly, and the aggregate number of outstanding shares of X-Energy, Inc. Class A common stock, and (ii) a one-to-one ratio between the number of Common Units owned by each Member (other than X-Energy, Inc. and its subsidiaries), directly or indirectly, and the aggregate number of outstanding shares of X-Energy, Inc. Class B common stock owned by such Member.

Transfer Restrictions. The XERC LLC Agreement generally does not permit transfers of Common Units, by Members, subject to limited exceptions. Any transferee of Common Units must execute the XERC LLC Agreement and any other agreements executed by the holders of Common Units and relating to such Common Units.

Dissolution. The XERC LLC Agreement provides that the decision of X-Energy, Inc. with the approval of a majority of the equity interests (including, but not limited to, Common Units) then outstanding (excluding all units held directly or indirectly by X-Energy, Inc.) will be required to voluntarily dissolve XERC. In addition to a voluntary dissolution, XERC will be dissolved under Section 18-801(4) of the DGCL because all members withdraw/resign (unless XERC is continued without dissolution pursuant thereto) or pursuant to Section 18-802 of the DGCL by operation of law, including entry of a decree of judicial dissolution.

Confidentiality. Each Member (other than X-Energy, Inc.) agrees to hold confidential information in confidence and may not disclose or use such information except as otherwise authorized separately in writing by X-Energy, Inc. This obligation excludes information that (i) is, or becomes, generally available to the public other than as a direct or indirect result of a disclosure by such Member or its affiliates or representatives; (ii) is, or becomes, available to such Member from a source other than X-Energy, Inc., XERC or their respective representatives; (iii) is approved for release by written authorization of the chief executive officer, chief financial officer or general counsel of X-Energy, Inc. or any other officer designated by X-Energy, Inc.; or

(iv) is or becomes independently developed by such Member or its respective representatives without use of or reference to the confidential information.

Indemnification and Exculpation. The XERC LLC Agreement provides for indemnification for all expenses, liabilities and losses (including attorneys' fees, judgments, fines, excise taxes or penalties) reasonably incurred or suffered by reason of the fact that such person is or was a Member or an affiliate thereof or is or was serving as manager or a director, officer, employee, advisor, attorney, accountant or other agent or representative of the manager, the Company Representative (as such term is defined in the XERC LLC Agreement), or a director, manager, officer, employee, advisor, attorney, accountant or other agent or representative of XERC or is or was serving at the request of XERC as a manager, officer, director, principal, member, employee, advisor, attorney, accountant or other agent or representative of another person; *provided, however*, that no indemnified person shall be indemnified for any expenses, liabilities and losses suffered that are attributable to such indemnified person's or its affiliates' gross negligence, bad faith, intentional fraud, misconduct or knowing violation of law or for any present or future breaches of any representations, warranties or covenants by such indemnified person or its affiliates contained in the XERC LLC Agreement or in other agreements with XERC.

Amendments. The XERC LLC Agreement may be amended or modified (including by means of merger, consolidation or other business combination to which XERC is a party) upon the prior written consent of X-Energy, Inc. together with the prior written consent of the holders of a majority of the equity interests (including, but not limited to, Common Units) then outstanding (excluding all units held directly or indirectly by X-Energy, Inc.); provided, that no alteration, modification or amendment shall be effective until written notice has been provided to the Members. Notwithstanding the foregoing, no amendment to any of the terms and conditions of the XERC LLC Agreement that expressly require the approval or action of certain persons may be made without obtaining the consent of the requisite number or specified percentage of such persons who are entitled to approve or take action on such matter. Additionally, no alteration, modification or amendment may be made to any of the terms and conditions of the XERC LLC Agreement that would (A) reduce the amounts distributable to a Member in a manner that is not pro rata with respect to all Members, (B) modify the limited liability of any Member or increase the liabilities of such Member hereunder, (C) otherwise materially and adversely affect a holder of units in a manner materially disproportionate to any other holder of units or remove a right or privilege granted to a Member (other than amendments, modifications and waivers necessary to implement the provisions permitting substitution or admission of Members) or (D) alter or change any rights, preferences or privileges of any units in a manner that is different or prejudicial relative to any other units in the same class of unit or materially and adversely affect the rights of any Member, in each case without the prior written consent of such Member or holder of units.

Tax Receivable Agreement

As a result of our organizational structure, we expect to obtain:

- Existing Basis;
- Basis Adjustments;
- Blocker Tax Attributes; and
- Interest Deductions.

The parties intend to treat each redemption or exchange of Common Units pursuant to the XERC LLC Agreement as our direct purchase of Common Units from a Continuing Equity Owner for U.S. federal income and other applicable tax purposes, regardless of whether such Common Units are surrendered by a Continuing Equity Owner to XERC for redemption, or, to the extent there is cash available from a contemporaneous public offering or private sale of our Common Stock by us and we so authorize, sold directly to us. Any Existing Basis, Basis Adjustments, Blocker Tax Attributes and Interest Deductions may have the effect of reducing the amount of taxes that we would otherwise pay in the future to various tax authorities. The Existing Basis, Basis Adjustments, Blocker Tax Attributes and Interest Deductions may also decrease gains (or increase losses) on future dispositions of certain assets to the extent tax basis is allocated to those assets.

In connection with the closing of this offering, we will enter into a Tax Receivable Agreement with XERC and the TRA Holders. The Tax Receivable Agreement will provide for the payment by us to the TRA Holders

of 85% of the amount of cash tax savings, if any, that we actually realize (or in some circumstances are deemed to realize) as a result of the Basis Adjustments, Existing Basis Blocker Tax Attributes and Interest Deductions, including those resulting from payments pursuant to the Tax Receivable Agreement. XERC and its applicable subsidiaries will have an election under Section 754 of the U.S. Internal Revenue Code of 1986, as amended (the “Code”), in effect for each taxable year in which a redemption or exchange of Common Units for our Class A common stock or cash occurs. Assuming no material changes in the relevant tax law and that we earn sufficient taxable income to realize all tax benefits that are subject to the Tax Receivable Agreement, we expect that the tax savings associated with the (i) Basis Adjustments, (ii) Existing Basis, (iii) Blocker Tax Attributes and (iv) Interest Deductions would aggregate to approximately \$ million over years from the date of this offering based on a \$ per share trading price of our Class A common stock and assuming all future redemptions or exchanges would occur on the date of this offering at the same assumed price per share. Under such scenario, assuming future payments are made on the due date (with extension) of each relevant U.S. federal income tax return, we would be required to pay approximately 85% of such amount, or approximately \$ million, over the -year period from the date of this offering, and we would benefit from the remaining 15% of the tax benefits. These Tax Receivable Agreement payments are not conditioned upon any continued ownership interest in either XERC or us by any TRA Holder. The rights of each TRA Holder under the Tax Receivable Agreement are assignable regardless of whether the underlying Common Units are also assigned. In general, the TRA Holders’ rights under the Tax Receivable Agreement may not be assigned, sold, pledged or otherwise alienated to any person, other than certain permitted transferees, without our consent and such person becoming a party to the Tax Receivable Agreement and agreeing to succeed to the applicable TRA Holder’s interest therein.

The actual Basis Adjustments, Existing Basis, Blocker Tax Attributes and Interest Deductions, as well as any amounts paid to the TRA Holders under the Tax Receivable Agreement, will vary depending on a number of factors, including:

- the price of our Class A common stock at the time of redemptions or exchanges—the Basis Adjustments and Blocker Tax Attributes, as well as any related increase in any tax deductions, are directly related to the price of our Class A common stock at the time of each redemption or exchange
- the timing of any subsequent redemptions or exchanges—for instance, the increase in any tax deductions will vary depending on the fair value, which may fluctuate over time, of the depreciable or amortizable assets of XERC and certain of its direct and indirect subsidiaries at the time of each redemption, exchange or distribution (or deemed distribution) as well as the amount of remaining existing tax basis at the time of such redemption, exchange or distribution (or deemed distribution);
- the extent to which such redemptions or exchanges are taxable—if a redemption or exchange is not taxable for any reason, certain of the increased tax deductions will not be available;
- the extent to which such Basis Adjustments and Blocker Tax Attributes are immediately deductible—we may be permitted to immediately expense a portion of the Basis Adjustments and Blocker Tax Attributes attributable to a redemption or exchange, which could significantly accelerate the timing of our realization of the associated tax benefits. Under the XERC LLC Agreement, the determination of whether to immediately expense such Basis Adjustments and Blocker Tax Attributes will be made in our sole discretion; and
- the amount and timing of our income—the Tax Receivable Agreement generally will require us to pay % of the amount of cash tax savings as and when such cash tax savings are treated as realized under the terms of the Tax Receivable Agreement. If we do not have sufficient taxable income to realize any of the applicable tax benefits, we generally will not be required (absent circumstances requiring an early termination payment or in the event of a change of control or Material Breach requiring the use of certain calculation assumptions) to make payments under the Tax Receivable Agreement for that taxable year because no tax benefits will have been actually realized. However, any tax benefits that do not result in realized tax benefits in a given taxable year may generate tax attributes that may be used to generate tax benefits in previous or future taxable years. The use of any such tax attributes will result in payments under the Tax Receivable Agreement.

For purposes of the Tax Receivable Agreement, cash savings in income taxes will be computed by comparing our actual income tax liability to the amount of such taxes that we would have been required to

pay had there been no Basis Adjustments, Existing Basis, Blocker Tax Attributes and Interest Deductions; provided that, for purposes of determining cash savings with respect to state and local income taxes an assumed tax rate will be used. The Tax Receivable Agreement will generally apply to each of our taxable years, beginning with the first taxable year ending after the completion of this offering. There is no maximum term for the Tax Receivable Agreement, although, as discussed further below, the Tax Receivable Agreement may be terminated by us pursuant to an early termination procedure that requires us to pay the TRA Holders an agreed upon amount equal to the estimated present value of the remaining payments to be made under the agreement (calculated based on certain assumptions, including regarding tax rates and use of the Basis Adjustments, Existing Basis, Blocker Tax Attributes and Interest Deductions).

The payment obligations under the Tax Receivable Agreement are obligations of us and not XERC. Although the actual timing and amount of any payments that may be made under the Tax Receivable Agreement will vary, it is expected that the payments that we may be required to make to the TRA Holders could be substantial. Any payments made by us to the TRA Holders under the Tax Receivable Agreement will generally reduce the amount of overall cash flow that might have otherwise been available to us and, to the extent that we are unable to make payments under the Tax Receivable Agreement for any reason, the unpaid amounts generally will be deferred and will accrue interest until paid by us; provided, however, that nonpayment for a specified period may constitute a Material Breach under the Tax Receivable Agreement and, therefore, the future payments under the Tax Receivable Agreement for each taxable year after any such Material Breach would be calculated utilizing certain deemed exchanges and valuation assumptions, which future payment could be substantial and in excess of the tax benefits we realize. We anticipate funding ordinary course payments under the Tax Receivable Agreement from cash flow from operations of our subsidiaries, available cash or available borrowings under our existing credit facilities or any future debt agreements.

Decisions made by us in the course of running our business, such as with respect to mergers, asset sales, other forms of business combinations or other changes in control, may influence the timing and amount of payments that we are required to make to a TRA Holder under the Tax Receivable Agreement. For example, the earlier disposition of assets following an exchange or acquisition transaction will generally accelerate payments under the Tax Receivable Agreement and increase the present value of such payments.

The Tax Receivable Agreement provides that if we elect an early termination of the Tax Receivable Agreement then our obligations, or our successor's obligations, under the Tax Receivable Agreement would accelerate and become due and payable, based on certain assumptions, including an assumption that we would have sufficient taxable income to fully use all potential future tax benefits that are subject to the Tax Receivable Agreement. In those circumstances, TRA Holders would be deemed to exchange any remaining outstanding Common Units for our Class A common stock and the TRA Holders generally would be entitled to payments under the Tax Receivable Agreement resulting from such deemed exchanges. We may elect to completely terminate the Tax Receivable Agreement early only with the written approval of a majority of our "independent directors" (within the meaning of the rules of the Nasdaq). The amount due and payable in those circumstances is based on the present value (at a discount rate of SOFR plus 100 basis points) of projected future tax benefits that are based on certain assumptions, including an assumption that we would have sufficient taxable income to fully use all potential future tax benefits that are subject to the Tax Receivable Agreement.

Based on such assumptions, if we were to exercise our termination right immediately following the consummation of this offering, the aggregate amount of the termination payments would be approximately \$ million. Importantly, upon a change of control or Material Breach, the Tax Receivable Agreement will not terminate nor will a single, accelerated lump sum payment be due. If we commit a Material Breach under the Tax Receivable Agreement, or experience a change of control (as defined in the Tax Receivable Agreement), our (or our successor's) future payments under the Tax Receivable Agreement for each taxable year after any such event would be calculated utilizing certain valuation assumptions, including that (i) in the case of a change of control, any Common Units that have not been exchanged are deemed exchanged for the market value of the shares of our Class A common stock at the time of the change of control and (ii) in either case, X-Energy, Inc. will have sufficient taxable income to fully utilize the tax attributes covered by the Tax Receivable Agreement. These future payments will be due in the taxable year in which the underlying tax attributes are deemed utilized by us (or our successor) according to the valuation assumptions.

As a result of the foregoing, we could, in the case of an early termination, be required to make an immediate cash payment, and in each case, any cash payments may possibly be significantly in advance of the actual realization, if any, of such future cash tax savings. We also could be required to make cash payments to the TRA Holders that are greater than 85% of the actual cash tax savings we ultimately realize in respect of the tax benefits that are subject to the Tax Receivable Agreement. In these situations, our obligations under the Tax Receivable Agreement could have a substantial negative impact on our liquidity and could have the effect of deferring or preventing certain mergers, asset sales, other forms of business combinations, or other changes of control. There can be no assurance that we will be able to finance our obligations under the Tax Receivable Agreement.

Payments under the Tax Receivable Agreement will be based on the tax reporting positions that we determine, which are complex and factual in nature, and the IRS or another taxing authority may challenge all or any part of the Basis Adjustments, Existing Basis Blocker Tax Attributes or Interest Deductions, as well as other tax positions that we take, and a court may sustain such a challenge. We will not be reimbursed for any cash payments previously made to the TRA Holders pursuant to the Tax Receivable Agreement if any tax benefits initially claimed by us are subsequently challenged by a taxing authority and ultimately disallowed. Instead, any excess cash payments made by us to a TRA Holder will be netted against future cash payments, if any, we might otherwise be required to make under the terms of the Tax Receivable Agreement to such TRA Holders. However, a challenge to any tax benefits initially claimed by us may not arise for a number of years following the initial time of such payment or, even if challenged early, such excess cash payment may be greater than the amount of future cash payments, if any, we might otherwise be required to make under the terms of the Tax Receivable Agreement and, as a result, there might not be future cash payments from which to net against. As a result, it is possible that we could make cash payments under the Tax Receivable Agreement that are substantially greater than % of our actual cash tax savings.

We will have full responsibility for, and sole discretion over, all our and XERC's tax matters, including the filing and amendment of all tax returns and claims for refund and defense of all tax contests, subject to certain participation and approval rights held by certain TRA Holders. If the outcome of any challenge to all or part of the Basis Adjustments, Existing Basis, Blocker Tax Attributes, Interest Deductions or other tax benefits we claim would reasonably be expected to materially affect a TRA Holder's rights and obligations under the Tax Receivable Agreement, then we will not be permitted to settle such challenge without the consent (not to be unreasonably withheld or delayed) of certain TRA Holders. The interests of such TRA Holders in any such challenge may differ from or conflict with our and our investors' interests, and such TRA Holders may exercise their consent rights relating to any such challenge in a manner adverse to our and our investors' interests.

Under the Tax Receivable Agreement, we are required to provide each TRA Holder that holds an interest in the Tax Receivable Agreement and to which a tax benefit or detriment is attributable with a schedule showing the calculation of payments that are due under the Tax Receivable Agreement with respect to each taxable year with respect to which a payment obligation to such holder arises within one hundred and fifty (150) days after filing our U.S. federal income tax return for such taxable year. This calculation will be based upon the advice of our tax advisors. Payments are generally due under the Tax Receivable Agreement within a specified period of time following the filing of our tax return for the taxable year with respect to which the payment obligation arises, although interest on such payments will begin to accrue at a rate of SOFR plus 100 basis points from the due date (without extensions) of such tax return. Some late payments that may be made under the Tax Receivable Agreement will continue to accrue interest at a rate of SOFR plus 500 basis points until such payments are made, including any late payments that we may subsequently make because we did not have enough available cash to satisfy our payment obligations at the time at which they originally arose.

Registration Rights Agreement

We intend to enter into a registration rights agreement with certain X-energy Members (the “Registration Rights Agreement”) in connection with this offering. The Registration Rights Agreement will provide certain X-energy Members and certain of their affiliates with certain demand registration rights, including shelf registration rights, in respect of any shares of our Class A common stock held by them, subject to certain conditions. In addition, in the event that we register additional shares of Class A common stock for sale to the public following the completion of this offering, we will be required to give notice of such registration to certain X-energy Members and certain of their affiliates, and, subject to certain limitations, include shares of Class A common stock held by them in such registration. The agreement will include customary indemnification provisions in favor of certain X-energy Members and certain of their affiliates and related parties against certain losses and liabilities (including reasonable costs of investigation and legal expenses) arising out of or based upon any filing or other disclosure made by us under the securities laws relating to any such registration.

Historical Transactions with Affiliates

In the normal course of business, we enter into transactions with related parties in which certain of our affiliates hold financial interests, which are described in more detail below.

Our Relationship with Intuitive Machines

Kamal Ghaffarian, the founder and executive chairman of X-energy, is a co-founder and executive chairman of Intuitive Machines, Inc. (“Intuitive Machines”). In 2021, X-energy and Intuitive Machines formed a joint venture, IX, LLC, to pursue nuclear space propulsion and surface power systems in support of future space exploration goals. Intuitive Machines currently holds 510 membership unit interests of IX, LLC, representing 51% of the issued and outstanding membership unit interests of IX, LLC. X-energy currently holds 490 membership unit interests of IX, LLC, representing 49% of the issued and outstanding membership unit interests of IX, LLC. During the years ended December 2025 and 2024, revenues associated with this joint venture were \$0.8 million and \$0.2 million, direct costs were \$0.6 million and \$0.1 million, and general and administrative expenses were \$0.2 million and \$0.1 million, respectively. As of the date of this prospectus, X-energy and Intuitive Machines are in the process of dissolving IX, LLC. The parties expect the dissolution of IX, LLC to be completed by June 30, 2026.

Our Relationship with IBX

Kamal Ghaffarian, the founder and executive chairman of X-energy, is a co-founder and current member of management of IBX, LLC (“IBX”), an investment firm. X-energy relies on IBX for the provision of general and administrative services in the day-to-day operation of its business. These expenses include, among others, fees for the provision of capital raise and proposal services. As such, expenses incurred in relation to IBX are incurred in the normal course of business and amounts are settled under normal business terms. For the fiscal years ended December 31, 2025 and 2024, these costs were \$0.2 million and \$0.8 million, respectively.

Our Relationship with IBX Thompson

Kamal Ghaffarian, the founder and executive chairman of X-energy, is a co-founder and current member of management of IBX 801 Thompson Realty, LLC (“IBX Thompson”). The Company engages with IBX Thompson for general and administrative services. For the fiscal years ended December 31, 2025 and 2024, these costs were \$0.4 million and \$1.2 million, respectively.

Our Relationship with Kamal Ghaffarian

In January 2020, X-energy entered into a professional services agreement with Kamal Ghaffarian, its founder and executive chairman, pursuant to which Mr. Ghaffarian agreed to provide professional consulting and advising services to X-energy for a period of three years beginning January 1, 2020 for a fixed fee of \$0.08 million per quarter. Beginning January 2022, the fee was increased to \$0.10 million per quarter. The agreement shall continue in effect until the first of the following to occur: (a) X-energy notifies Mr. Ghaffarian that the services have been completed, (b) the sum of all awarded task orders has been reached and has not

been increased in accordance with the agreement or (c) the agreement has been terminated in accordance with its terms. X-energy extended this agreement for an additional one year terms on January 1, 2023, 2024 and 2025. For the fiscal years ended December 31, 2025 and 2024, the Company incurred \$0.4 million and \$0.4 million, respectively, of consulting fees in connection with this agreement. The Company and Dr. Ghaffarian plan to terminate this agreement after the offering.

On July 28, 2020, the Company executed a credit agreement with Pershing LLC, an affiliate of Bank of New York Mellon, in the form of a revolving credit facility (the “Bank of New York Credit Facility”), which was subject to the guarantee by Ghaffarian Enterprises, LLC and Ghaffarian Enterprises, who represented related party investors.

During the year ended December 31, 2024, the Company entered into Credit Support Fee and Subrogation Agreements (the “2024 Credit Support Fee Agreements”) with GM Enterprises LLC and Ghaffarian Enterprises, LLC, entities affiliated with an investor, which increased the availability under the Bank of New York Credit Facility to \$20.0 million and extended the maturity of the credit support to March 26, 2025. In conjunction with the 2024 Credit Support Fee Agreements, the Company agreed to pay GM Enterprises, LLC and Ghaffarian Enterprises, LLC a monthly 12% credit support fee to be paid in-kind. Pursuant to the terms of the 2024 Credit Support Fee Agreements, the Company paid credit support fees and issued 562,483 Class B Common Units to GM Enterprises LLC and Ghaffarian Enterprises, LLC. On October 11, 2024, in accordance with the facility’s stated terms, the Company settled the outstanding principal and interest associated with the Bank of New York Credit Facility with a payment of \$20.2 million, and the 2024 Credit Support Fee Agreements were terminated. The Bank of New York Credit Facility did not have an outstanding balance as of December 31, 2024, and the facility matured with no balance on March 26, 2025.

On September 26, 2024, the Company entered into a bridge loan with Escape2, LLC, an entity affiliated with an investor (the “2024 Bridge Loan”), in the amount of \$3.8 million. While outstanding, the 2024 Bridge Loan accrued paid-in-kind interest of 12% per annum, compounded quarterly, and had a maturity date of March 26, 2025, or upon the receipt of a third-party investment with aggregate net cash proceeds of at least \$100.0 million, if such an investment occurred prior to the maturity date. Concurrently with the issuance of this debt, the Company issued 124,430 Class B Common Units to Ghaffarian Enterprises, LLC, which is controlled by the same related party investor as Escape 2, LLC. The Class B Common Units have the same rights as the Class B Profits Interests discussed in Note 12 — Unit- Based Compensation Expense. On October 11, 2024, in accordance with its stated terms, the 2024 Bridge Loan was automatically redeemed, and the Company paid the outstanding principal and interest associated with the 2024 Bridge Loan of \$3.8 million.

Our Agreement with Aerotherm

Martin Van Staden, our Senior Vice President and Chief Technology Officer, is the president, founder and principal shareholder of Aerotherm, Inc. (“Aerotherm”). X-energy entered into a contract to receive consulting services from Aerotherm. During the years ended December 31, 2025 and 2024, the Company incurred subcontracting costs to Aerotherm, Inc. in the amount of \$0.4 million and \$0.6 million, respectively, for these services.

Our Agreement with Hatch

Hatch Associates Consultants, Inc (“Hatch”) is a unitholder of XERC. The Company entered into an agreement to receive support services related to its U.S. and international engineering and development activities, including services related to the DOE ARDP from Hatch. The services include, but are not limited to, project management, quality assurance management, cost control management and program risk management. During the years ended December 31, 2025, and 2024, the Company incurred costs to Hatch in the amount of \$4.4 million and \$7.4 million, respectively, for these services. As of December 31, 2024, \$4.5 million due to Hatch Associates Consultants, Inc. was included within our financial statements as due to related parties.

Our Agreement with Zachry Nuclear

Zachry Nuclear Engineering, Inc (“Zachry Nuclear”) is a unitholder of XERC. The Company entered into an agreement to receive support services related to the DOE ARDP from Zachry Nuclear. The services

include, but are not limited to, site design and pre-construction activities, such as safety and licensing analysis support, engineering management and oversight, and system design services. During the years ended December 31, 2025 and 2024, the Company incurred costs to Zachry Nuclear of an immaterial amount and \$1.0 million, respectively, for these services. As of December 31, 2024, an immaterial amount due to Zachry Nuclear was included within our financial statements as due to related parties.

Our Agreement with Burns & McDonnell

Burns & McDonnell Engineering Company, Inc (“Burns & McDonnell”) is a unitholder of XERC. The Company entered into an agreement to receive support services related to the DOE ARDP from Burns & McDonnell. The services include, but are not limited to, preliminary design support and pre-construction support. During the years ended December 31, 2025 and 2024, the Company incurred costs to Burns & McDonnell in the amount of \$1.1 million and \$2.8 million, respectively, for these services. As of December 31, 2024, \$0.1 million due to Burns & McDonnell was included within our financial statements as due to related parties.

Our Relationship with Curtiss-Wright Corporation

Curtiss-Wright Corporation is a unitholder of XERC. During the years ended December 31, 2025 and 2024, the Company incurred subcontracting costs to Curtiss-Wright Corporation, Inc. in the amount of \$11.6 million and \$4.2 million, respectively, related to the DOE ARDP. As of December 31, 2024, \$0.5 million was due to Curtiss-Wright Corporation, Inc. and was included within our financial statements as due to related parties.

Our Relationship with The Dow Chemical Company

Dow is a unitholder and warrant holder of XERC. During 2022, the Company entered into a non-binding letter of intent with Dow to develop a small modular reactor at one of Dow’s U.S. Gulf Coast sites. In the first quarter of 2023, the Company entered into a joint development agreement with Dow. In the first quarter of 2025, the Company entered into a master project development agreement and a commercial cooperation agreement with Dow. During the years ended December 31, 2025 and 2024, the Company incurred costs to Dow in the amount of \$8.6 million and \$5.8 million, respectively. As of December 31, 2025 and 2024, \$6.2 million and \$2.3 million due to Dow was included within due to related parties. For the years ended December 31, 2025 and 2024, the revenues associated with these contracts are \$6.9 million and \$26.8 million, respectively. As of December 31, 2025 and 2024, \$4.6 million and \$15.8 million due from Dow was included within our financial statements as due from related parties, respectively.

On October 3, 2025, the Company issued the 2025 Warrant to Dow. The 2025 Warrant may be exercised by the holder when all of the Xe-100 units associated with the customer agreements are considered fully operational (the “Vesting Event”). The exercise period ends at the earlier of (i) one year from the Vesting Event, (ii) event of non-compliance and (iii) a consummation of a change of control or a listing event of the Company, to the extent it occurs after vesting.

Our Relationship with Amazon

Amazon.com NV Investment Holdings LLC (“Amazon”) is a unitholder and warrant holder of XERC. In 2024, the Company entered into a project with Amazon to provide design and engineering services. During the years ended December 31, 2025 and 2024, the Company recorded \$0.5 million and \$0.7 million within revenue associated with this project, respectively. As of December 31, 2025 and 2024, an immaterial amount and \$0.6 million associated with deferred revenue for this project was included within due to related parties, respectively.

On September 26, 2024, the Company entered into a convertible note with Amazon.com NV Investment Holdings LLC in the principal amount of \$20.0 million (the “2024 Convertible Note”). While outstanding, the debt accrued paid-in-kind interest of 12% per annum, compounded quarterly. The 2024 Convertible Note was convertible at the option of the creditor into Series C-1 Preferred Units from the issuance date until the occurrence of a Qualified Financing, which is defined under the 2024 Convertible Note’s terms as the Company’s completion of a financing round of Series C-1 Preferred Units with total proceeds of at least

\$100.0 million on or before the maturity date. The maturity date of the 2024 Convertible Note was March 26, 2025, or upon the receipt of a third-party investment with aggregate net cash proceeds of at least \$100.0 million, if such an investment occurs prior to the maturity date.

On October 11, 2024, in accordance with the 2024 Convertible Note's stated terms, the outstanding principal and interest of the 2024 Convertible Note of \$20.1 million was converted into 3,097,477 Series C-1 Preferred Units ("2024 Convertible Note Conversion").

In connection with the issuance of the Series C-1 Preferred Units, one investor and potential future customer was issued a warrant on Series C-1 Preferred Units (the "2024 Warrant") for no additional consideration. In March 2026, the Company amended the 2024 Warrant to permit the holder to elect a cashless exercise of the 2024 Warrant at an earlier date than provided by the 2024 Warrant's original terms. The warrant holder exercised the warrant on March 18, 2026 and received 19,576,222 Series C-1 Preferred Units.

Our Relationship with Centrica

Centrica is the largest provider of energy services across the U.K. and owns a 20% stake in the full fleet of operating nuclear reactors in the country. In September 2025, X-energy and Centrica signed a Joint Development Agreement (JDA) dedicated to building and operating Xe-100 reactors in the U.K. Subject to securing appropriate permissions and licenses, the first electricity generation is expected to be in the mid-2030s.

Our Agreement with Desbuild Construction

Nick Ghaffarian, the brother of Kam Ghaffarian, is the owner of Desbuild Construction, Inc. ("Desbuild Construction"). During 2022, X-energy engaged Desbuild Construction for construction-related services for X-energy's training facility in Frederick, Maryland (the "Frederick Facility"). The services included, but were not limited to, demolition and design services for the build out of the Frederick Facility. In addition, in January 2023, X-energy entered into another agreement with Desbuild Construction, pursuant to which Desbuild Construction agreed to remodel the Frederick Facility for a fixed fee of \$1.4 million. X-energy makes payments in installments to Desbuild Construction upon completion of the milestones specified in the agreement. For the fiscal years ended December 31, 2025 and 2024, the Company recorded \$0.6 million and \$0.7 million, respectively, associated with these services as leasehold improvements within property and equipment, net. Refer to Note 5 — Government Grants for additional information regarding grants received for these costs.

Our Relationship with Chris Ginther

Christopher F. Ginther, a member of X-energy's board of directors, was an Executive Vice President of OPG. In 2022, X-energy and OPG entered into a framework agreement to work exclusively with one another with respect to advanced nuclear power industrial applications in Ontario, Canada, and to co-market and advance the Xe-100 as the nuclear technology of choice for industrial applications throughout Canada. OPG will be the operator of any Xe-100 facilities that are deployed under this agreement. OPG is also an equity investor in X-energy.

We also have a project management consulting agreement with Outpost Consultants, in which Ginther is an owner.

Our Issuance of C-2 Convertible Notes

In 2022 and 2023, the Company issued convertible notes payable in an aggregate principal amount of \$28.0 million and \$85.0 million ("C-2 Notes"), respectively, of which \$70.0 million of the C-2 Notes were issued to related parties. The C-2 Notes were due on September 30, 2025 and accrued 10.0% of payable-in-kind interest annually. The C-2 Notes provided holders with conversion rights into equity securities under certain conditions, including upon an IPO or at the holder's election after August 4, 2023. On October 11, 2024, certain of the C-2 Notes with an aggregate principal balance of \$98.0 million converted into 16,960,021 Series C Preferred Units, which was accounted for as a debt extinguishment. Such extinguishment resulted in a gain on debt extinguishment of \$17.6 million for the year ended December 31, 2024, which was recorded in other income (expense), net in the consolidated statements of operations. As of December 31, 2024, the outstanding principal, inclusive of payable-in-kind interest, on the C-2 Notes was \$18.4 million and the fair

value was \$18.5 million, resulting in a cumulative loss of \$0.1 million. On September 30, 2025, the outstanding principal and unpaid accrued interest on the C-2 Note were converted into 2,870,172 Series C Preferred Units, resulting in the extinguishment of the C-2 Note.

Our 2023 Bridge Loan

On October 4, 2023, the Company entered into a credit agreement (the “2023 Bridge Loan”) with a related party, Ares Acquisition Holdings, LP for a \$10.0 million term loan. During 2024, the Company entered into a series of amendments to the 2023 Bridge Loan, which, among other things, extended the maturity date to March 26, 2025. The Company drew a total of \$25.8 million on the 2023 Bridge Loan during 2024, including draws made in conjunction with amendments. In conjunction with the draws, the Company issued 1.7 million Class B Common Units to Ares Acquisition Holdings, LP. On October 11, 2024, in accordance with the 2023 Bridge Loan’s stated terms, the Company paid the outstanding principal and interest on the 2023 Bridge Loan of \$53.5 million, and the 2023 Bridge Loan was settled. During the year ended December 31, 2024, the Company recorded \$4.2 million in interest expense.

Director and Officer Indemnification and Insurance

Prior to the consummation of this offering, we intend to enter into separate indemnification agreements with each of our directors and executive officers. We have also purchased directors’ and officers’ liability insurance. See “Description of Capital Stock — Limitations on Liability and Indemnification of Officers and Directors.”

Directed Share Program

At our request, the underwriters have reserved up to _____ shares of Class A common stock, or _____ % of the shares offered by this prospectus, for sale at the initial public offering price to our directors, officers, and certain employees and other parties related to X-Energy, Inc. Shares purchased through the directed share program will not be subject to a lock-up restriction, except in the case of shares purchased by any of our directors or officers. The number of shares of Class A common stock available for sale to the general public will be reduced to the extent these individuals purchase such reserved shares. Any reserved shares that are not so purchased will be offered by the underwriters to the general public on the same basis as the other shares offered by this prospectus. Morgan Stanley & Co. LLC will administer our directed share program.

Policies and Procedures for Related Persons Transactions

The Board of X-Energy, Inc. will adopt a formal written related person transaction policy that will be effective upon the Closing. Such policy will provide that X-energy’s executive officers, directors, director nominees, any member of the immediate family of any of the foregoing persons, or a security holder known to be a beneficial owner of more than 5% of any class of X-energy’s voting securities, are not permitted to enter into a “related person transaction” (as defined under Item 404 of Regulation S-K) with X-energy without the approval of X-energy’s audit committee, subject to certain exceptions.

PRINCIPAL STOCKHOLDERS

The following table sets forth information regarding the beneficial ownership of our Class A common stock and Class B common stock by (1) each person known to us to beneficially own more than 5% of our voting securities, (2) each of our directors, (3) each of our named executive officers and (4) all directors and executive officers as a group.

The number of shares of Class A common stock and Class B common stock outstanding and percentage of beneficial ownership before and after this offering are based on (i) the number of shares and Common Units to be issued and outstanding immediately prior to and after the consummation of this offering, after giving effect to the Transactions and (ii) an assumed initial public offering price of \$ per share (the midpoint of the estimated price range set forth on the cover page of this prospectus). See “Organizational Structure.”

In addition, the following table does not reflect any shares of Class A common stock that may be purchased in this offering pursuant to our directed share program as described under “Underwriting—Directed Share Program.”

Beneficial ownership of Class A common stock and Class B common stock is determined in accordance with the rules of the SEC. In accordance with the rules of the SEC, beneficial ownership includes voting or investment power with respect to securities and includes shares issuable pursuant to exchange or conversion rights that are exercisable within 60 days of the date of this prospectus.

To our knowledge, except as indicated in the footnotes to this table and pursuant to applicable community property laws, the persons named in the table have sole voting and investment power with respect to all shares of common stock. Unless otherwise indicated in the below, the address of each of the individuals named above is c/o X-Energy, Inc., 530 Gaither Road, Suite 700, Rockville, MD 20850.

Name and Address of Beneficial Owner	Class A common stock Beneficially Owned						Class B common stock Beneficially Owned ⁽¹⁾					
	Beneficially Owned Prior to the Offering		After the Offering Assuming Underwriters’ Option is Not Exercised		After the Offering Assuming Underwriters’ Option is Exercised in Full		Beneficially Owned Prior to the Offering		After the Offering Assuming Underwriters’ Option is Not Exercised		After the Offering Assuming Underwriters’ Option is Exercised in Full	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Greater than 5% Stockholders												
Amazon.com NV Investment Holdings LLC ⁽²⁾												
Entities affiliated with Ares ⁽³⁾												
Entities affiliated with Segra ⁽⁴⁾												
X-Energy Holding, LLC ⁽⁵⁾												
Named Executive Officers and Directors												
J. Clay Sell												
Daniel Gross												
Dragan Popovic												
Dr. Kamal Ghaffarian ⁽⁵⁾												
Christopher F. Ginther												
Gregory J. Goff												
Kathleen W. Hyle												
David Kaplan	—	—	—	—	—	—	—	—	—	—	—	—
Allyson Satin	—	—	—	—	—	—	—	—	—	—	—	—
Edward Sonnenschein												
Michael J. Wallace												
All directors and executive officers as a group (11 individuals)												

* Less than 1%

- (1) Each share of Class B common stock will be cancelled upon the exchange of one Common Unit for one share of Class A common stock. Each share of Class B common stock entitles the registered holder to one vote per share on all matters presented to shareholders for a vote generally. Holders of Class A and Class B common stock will vote together as a single class on all matters to be presented to our shareholders for their vote or approval, except as otherwise required by applicable law or our Bylaws. Our Class B common stock does not have economic rights. See “Description of Capital Stock.”
- (2) Amazon.com NV Investment Holdings LLC (the “Amazon Stockholder”) is a wholly owned subsidiary of Amazon.com, Inc. (“Amazon”). Amazon has sole voting and investment power with respect to the Class A Common stock held by the Amazon Stockholder. The principal business office of Amazon and the Amazon Stockholder is c/o Amazon.com, Inc., 410 Terry Avenue North Seattle, WA 98109.
- (3) Consists of (i) Common Units and a corresponding number of shares of Class B common stock held by Ares X-Energy Holdings LP (“Ares X-Energy Holdings”), (ii) Common Units and a corresponding number of shares of Class B common stock held by Ares X-Energy Co-Invest LP (“Ares X-Energy Co-Invest”) and (iii) Common Units and a corresponding number of shares of Class B common stock held by ACIP Investments Pooling LLC — Series 31 (“ACIP Investments”).

Ares Partners Holdco LLC (“Ares Partners”) is the sole member of each of Ares Voting LLC (“Ares Voting”) and Ares Management GP LLC (“Ares Management GP”), which are respectively the holders of the Class B and Class C common stock of Ares Management Corporation (“Ares Management”), which common stock allows them, collectively, to generally have the majority of the votes on any matter submitted to the stockholders of Ares Management if certain conditions are met. Ares Management is the sole member of Ares Holdco LLC (“Ares Holdco”), which is the general partner of Ares Holdings L.P. (“Ares Holdings”) and sole member of ACIP Investment Management LLC.

Ares Holdings is the sole member of Ares X-Energy Capital Investors GP LLC (“Ares X-Energy GP”), which is the general partner of Ares X-Energy Holdings, and the sole member of Ares X-Energy Co-Invest GP LLC (“Ares X-Energy Co-Invest GP”), which is the general partner of Ares X-Energy Co-Invest. ACIP Investment Management LLC is the sole member of Ares CIP Management LLC, which is the general partner of Ares CIP Management, L.P., which is the managing member of ACIP Investments Pooling LLC. ACIP Investments is a registered series of ACIP Investments Pooling LLC.

Each of Ares Partners, Ares Management GP, Ares Voting, Ares Management, Ares Holdco (collectively, the “Ares Entities”), Ares Holdings and Ares X-Energy GP may be deemed to share beneficial ownership of the securities held by Ares X-Energy Holdings. Each of the Ares Entities, Ares Holdings and Ares X-Energy Co-Invest GP may be deemed to share beneficial ownership of the securities held by Ares X-Energy Co-Invest. Each of the Ares Entities, ACIP Investment Management LLC, Ares CIP Management LLC, Ares CIP Management, L.P. and ACIP Investments Pooling LLC may be deemed to share beneficial ownership of the securities held by ACIP Investments. Each disclaims any such beneficial ownership of securities not held of record by them.

Ares Partners is managed by a board of managers, which is composed of Michael J Arougheti, R. Kipp deVeer, David B. Kaplan, Antony P. Ressler and Bennett Rosenthal (collectively, the “Board Members”). Mr. Ressler generally has veto authority over the Board Members’ decisions. Each of these individuals disclaims beneficial ownership of the securities that may be deemed to be beneficially owned by Ares Partners.

The principal business office of the Ares Entities, Ares Holdings, Ares X-Energy Co-Invest GP, Ares X-Energy GP and Ares X-Energy Co-Invest is c/o Ares Management LLC, 245 Park Avenue, 44th Floor, New York, NY 10167. The principal business office of ACIP Investment Management LLC, Ares CIP Management LLC, Ares CIP Management, L.P., ACIP Investments Pooling LLC and ACIP Investments is c/o Ares Management LLC, 1800 Avenue of the Stars, Suite 1400, Los Angeles, CA, 90067.

- (4) Consists of (i) _____ shares of Class A common stock held by Segra Resource Partners, LP (“Segra Resource”), (ii) _____ shares of Class A common stock held by Segra XE 1, LP (“Segra XE 1”) and (iii) _____ shares of Class A common stock held by Segra XE 2, LP (“Segra XE 2”). Segra Capital Management, LLC (“Segra”) is the investment adviser to Segra Resource, and the investment manager of each of Segra XE 1 and Segra XE 2. Adam Rodman is the managing member of Segra. As a result, each of Mr. Rodman and Segra may be deemed to share beneficial ownership of the securities held by each of Segra Resource, Segra XE 1 and Segra XE 2. The principal business office of each of Mr. Rodman, Segra, Segra Resource, Segra XE 1 and Segra XE 2 is 250 Royal Palm Way, Suite 304, Palm Beach, FL 33480.
- (5) Consists of (i) _____ Common Units and a corresponding number of shares of Class B common stock held by GM Enterprises, LLC, (ii) _____ Common Units and a corresponding number of shares of Class B common stock held by X-Energy Holding, LLC, (iii) 259,472 Common Units and a corresponding number of shares of Class B common stock held by IBX Opportunity GP, Inc., (iv) _____ shares of Class A common stock held by X-energy KG Parent, LLC and (v) _____ shares of Class A common stock held by Dr. Kamal Ghaffarian. Dr. Kamal Ghaffarian has sole voting and dispositive power with respect to securities held by each of the foregoing entities. Dr. Kamal Ghaffarian disclaims beneficial ownership of such securities. The principal business office of Dr. Kamal Ghaffarian is 5937 Sunnyslope Drive, Naples, FL 34119. The principal business office of each of GM Enterprises, LLC, X-Energy Holding, LLC, IBX Opportunity GP, Inc. and X-energy KG Parent, LLC is 801 Thompson Avenue, Rockville, MD 20852.

DESCRIPTION OF CAPITAL STOCK

The following is a description of the material terms of, and is qualified in its entirety by, our amended and restated certificate of incorporation and amended and restated bylaws, each of which will be in effect upon the consummation of this offering, the forms of which are filed as exhibits to the registration statement of which this prospectus is a part.

Our purpose is to engage in any lawful act or activity for which corporations may now or hereafter be organized under the DGCL. Upon consummation of this offering, our authorized capital stock will consist of shares of common stock, par value \$0.0001 per share, and shares of preferred stock. Immediately following the completion of this offering, there are expected to be outstanding shares of common stock.

Common Stock

Class A common stock

Voting rights. Each holder of Class A common stock is entitled to one vote for each share of Class A common stock held of record in person, virtually or by proxy on all matters submitted to a vote of the holders of Class A common stock, whether voting separately as a class or otherwise.

Dividend rights. Subject to applicable law and the rights and preferences of any holders of any outstanding series of Preferred Stock or any class or series of stock having a preference over or the right to participate with the Class A common stock with respect to the payment of dividends, holders of Class A common stock, as such, shall be entitled to the payment of dividends on the Class A common stock when, as and if declared by the Board in accordance with applicable law.

The payment of future dividends on the shares of Class A common stock will depend on the financial condition of after the completion of this offering, and subject to the discretion of the Board. There can be no guarantee that cash dividends will be declared. The ability of to declare dividends may be limited by the terms and conditions of other financing and other agreements entered into by or any of its subsidiaries from time to time.

Rights upon liquidation. In the event of liquidation, dissolution or winding up of the affairs of, whether voluntary or involuntary, after payment or provision for payment of the debts and other liabilities of and after making provisions for preferential and other amounts, if any, to which the holders of Preferred Stock or any class or series of stock having a preference over or the right to participate with the Class A common stock with respect to payments in liquidation shall be entitled, the remaining assets and funds of available for distribution shall be divided among and paid ratably to the holders of all outstanding shares of Common Stock in proportion to the number of shares held by each such stockholder.

Other rights. The holders of Class A common stock have no pre-emptive or conversion rights or other subscription rights. There are no redemption or sinking fund provisions applicable to the Class A common stock. The rights, preferences and privileges of holders of the Class A common stock will be subject to those of the holders of any shares of the Preferred Stock that may issue in the future.

Class B common stock

Voting rights. Each holder of Class B common stock is entitled to one vote for each share of Class B common stock held of record in person, virtually or by proxy on all matters submitted to a vote of the holders of Class B common stock, whether voting separately as a class or otherwise.

Dividend rights. Other than in connection with a dividend declared by the Board in connection with a “poison pill” or similar stockholder rights plan, dividends shall not be declared or paid on the Class B common stock and the holders of shares of Class B common stock shall have no right to receive dividends in respect of such shares of Class B common stock.

Rights upon liquidation. Each holder of shares of Class B common stock shall be entitled to receive \$0.0001 per share of Class B common stock owned of record by such holder on the record date for such distribution, and upon receiving such amount, the holders of shares of Class B common stock, in their capacity as such, shall not be entitled to receive any other assets or funds of.

Permitted Transfers. From and after the effectiveness of the Proposed Certificate of Incorporation (the “Charter Effective Time”), shares of Class B common stock may be issued only to, and registered only in the name of, the X-energy Members, their respective successors and assigns and their respective permitted transferees (the X-energy Members, together with all such subsequent successors, assigns and permitted transferees, collectively, the “Permitted Class B Owners”), and the aggregate number of shares of Class B common stock at any time registered in the name of each such Permitted Class B Owner must be equal to the aggregate number of X-energy Common Units held of record at such time by such Permitted Class B Owner under the XERC LLC Agreement. A Permitted Class B Owner may transfer or assign shares of Class B common stock (or any legal or beneficial interest in such shares) (directly or indirectly, including by operation of law) only to a permitted transferee of such holder or to a non-permitted transferee with the approval in advance and in writing by X-energy, and only if such holder also simultaneously transfers, in each case, an equal number of such holder’s X-energy Common Units to such permitted transferee or such non-permitted transferee, as applicable, in compliance with the XERC LLC Agreement. Permitted transfers include transfers pursuant to certain redemption or direct exchange scenarios, a transfer by a Permitted Class B Holder to the Company or any of its subsidiaries, or to an affiliate of such Permitted Class B Holder, in each case subject to and in compliance with the XERC LLC Agreement.

Cancellation of Class B Common Stock. A holder of Class B common stock may surrender shares of Class B common stock to X-energy for cancellation for no consideration at any time. Shares of Class B common stock are automatically transferred to X-Energy, Inc. upon the redemption or exchange of their Common Units pursuant to the terms of the XERC LLC Agreement and will be canceled and may not be reissued. Following the surrender or other acquisition of any shares of Class B common stock to X-energy or by X-energy, X-energy will take all actions necessary to cancel and retire such shares and such shares shall not be re-issued by X-energy.

Permitted Transfers. The Board (including a majority of the directors who are disinterested with respect to the relevant transaction serving on the Board at such time) may, to the extent permitted by law, from time to time establish, modify, amend or rescind, by bylaw or otherwise, regulations and procedures not inconsistent with the provisions described for determining whether any transfer or acquisition of shares of Class B common stock would violate the restrictions described and for the orderly application, administration and implementation of the provisions of the Proposed Certificate of Incorporation.

Preferred Stock

The Proposed Certificate of Incorporation will authorize the Board to establish one or more series of Preferred Stock. Unless required by law or any stock exchange, the authorized shares of Preferred Stock will be available for issuance without further action by the holders of Common Stock.

The Board has the discretion to determine the powers, preferences and relative, participating, optional and other special rights, including voting rights, dividend rights, conversion rights, redemption privileges and liquidation preferences, of each series of Preferred Stock. The issuance of Preferred Stock may have the effect of delaying, deferring or preventing a change in control of X-energy without further action by the stockholders. Additionally, the issuance of Preferred Stock may adversely affect the holders of the Common Stock by restricting dividends on the Common Stock, diluting the voting power of the Common Stock or subordinating the liquidation rights of the Common Stock. As a result of these or other factors, the issuance of Preferred Stock could have an adverse impact on the market price of the Common Stock.

Anti-Takeover Effects of Our Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws and Certain Provisions of Delaware Law

The provisions of the Proposed Certificate of Incorporation, the Proposed Bylaws and the DGCL summarized below may have an anti-takeover effect and may delay, defer or prevent a tender offer or takeover

attempt that you might consider in your best interest, including an attempt that might result in your receipt of a premium over the market price for your shares of Class A common stock.

The Proposed Certificate of Incorporation and Proposed Bylaws contain certain provisions that are intended to enhance the likelihood of continuity and stability in the composition of the Board and that may have the effect of delaying, deferring or preventing a future takeover or change in control unless such takeover or change in control is approved by such board of directors.

These provisions include:

- *Authorized but Unissued Capital Stock.* Our authorized but unissued shares of Common Stock and Preferred Stock will be available for future issuance without stockholder approval. These additional shares may be utilized for a variety of corporate purposes, including future public offerings to raise additional capital, corporate acquisitions and employee benefit plans. The existence of authorized but unissued shares of Common Stock and Preferred Stock could render more difficult or discourage an attempt to obtain control of a majority of common stock by means of a proxy contest, tender offer, merger or otherwise.
- *Director Designees; Classes of Directors.* Pursuant to the Proposed Certificate of Incorporation, the directors of X-energy will be divided into three classes, with each class serving staggered three year terms. The existence of a classified board of directors could discourage a third party from making a tender offer or otherwise attempting to obtain control of us as it is more difficult and time consuming for stockholders to replace a majority of the directors on a classified board of directors.
- *No Cumulative Voting for Directors.* The DGCL provides that stockholders are not entitled to cumulate votes in the election of directors unless a corporation's certificate of incorporation provides otherwise. The Proposed Certificate of Incorporation does not provide for cumulative voting. As a result, the holders of shares of Common Stock representing a majority of the voting power of all of the outstanding shares of our capital stock of will be able to elect all of the directors then standing for election.
- *Quorum.* The Proposed Bylaws will provide that at any meeting of the Board, a majority of the total number of directors then in office constitutes a quorum for the transaction of business.
- *Action by Written Consent.* The Proposed Certificate of Incorporation provides that any action required or permitted to be taken by the stockholders of must be effected at a duly called annual or special meeting of the stockholders (and may not be taken by consent of the stockholders in lieu of a meeting). In addition to the foregoing, any action required or permitted to be taken by the holders of any series of Preferred Stock, voting separately as a series or separately as a class with one or more other such series, may be taken without a meeting, without prior notice and without a vote, to the extent expressly so provided by the applicable certificate of designation relating to such series of Preferred Stock, if a consent or consents in writing, setting forth the action so taken, shall be signed by the holders of outstanding shares of the relevant series of Preferred Stock having not less than the minimum number of votes that would be necessary to authorize or take such action at a meeting at which all shares entitled to vote thereon were present and voted and shall be delivered to X-energy in accordance with the applicable provisions of the DGCL.
- *Special Meetings of Stockholders.* Subject to the special rights of the holders of one or more series of Preferred Stock, special meetings of the stockholders of X-energy may be called, for any purpose or purposes, at any time only by or at the direction of (i) the board of directors, the chairperson of the board of directors, the chief executive officer or president, and (ii) special meetings of the stockholders of X-energy may not be called by the stockholders of X-energy or any other person.
- *Advance Notice Procedures.* The Proposed Bylaws establish an advance notice procedure for stockholder proposals to be brought before an annual meeting of our stockholders, and for stockholder nominations of persons for election to the board of directors of X-energy to be brought before an annual or special meeting of stockholders. Stockholders at an annual meeting will only be able to consider proposals or nominations specified in the notice of meeting or brought before the meeting by or at the direction of the board of directors or by a stockholder who was a stockholder of record on the record date for the meeting, who is entitled to vote at the meeting and who has given the secretary

of X-energy timely written notice, in proper form, of the stockholder's intention to bring that business or nomination before the meeting. Although the Proposed Bylaws do not give the board of directors the power to approve or disapprove stockholder nominations of candidates or proposals regarding other business to be conducted at a special or annual meeting, as applicable, the Proposed Bylaws may have the effect of precluding the conduct of certain business at a meeting if the proper procedures are not followed or may discourage or deter a potential acquirer from conducting a solicitation of proxies to elect its own slate of directors or otherwise attempting to obtain control of X-energy.

Limitations on Liability and Indemnification of Officers and Directors

The DGCL authorizes corporations to limit or eliminate the personal liability of directors and officers to corporations and their stockholders for monetary damages for breaches of directors' and officers' fiduciary duties, subject to certain exceptions. The Proposed Certificate of Incorporation includes a provision that eliminates the personal liability of directors and officers for monetary damages for any breach of fiduciary duty as a director or officer, except to the extent such exemption from liability or limitation thereof is not permitted under the DGCL. The effect of these provisions is to eliminate the rights of X-energy and its stockholders, through stockholders' derivative suits on X-energy's behalf, to recover monetary damages from a director or officer for breach of fiduciary duty as a director or officer, including breaches resulting from grossly negligent behavior. However, exculpation does not apply to any director or officer if the director or officer has acted in bad faith, knowingly or intentionally violated the law, authorized illegal dividends or Redemptions or derived an improper benefit from such person's actions as a director or officer.

The Proposed Bylaws provide that X-energy must indemnify and advance expenses to directors and officers to the fullest extent authorized by the DGCL. X-energy is also expressly authorized to carry directors' and officers' liability insurance providing indemnification for directors, officers and certain employees for some liabilities. X-energy believes that these indemnification and advancement provisions and insurance are useful to attract and retain qualified directors and executive officers.

The limitation of liability, indemnification and advancement provisions in the Proposed Certificate of Incorporation and the Proposed Bylaws may discourage stockholders from bringing a lawsuit against directors and officers for breach of their fiduciary duty. These provisions also may have the effect of reducing the likelihood of derivative litigation against directors and officers, even though such an action, if successful, might otherwise benefit X-energy and its stockholders. Your investment may be adversely affected to the extent X-energy pays the costs of settlement and damage awards against directors and officers pursuant to these indemnification provisions. X-energy believes that these provisions, liability insurance and any indemnity agreements that may be entered into are necessary to attract and retain talented and experienced directors and officers.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to our directors, officers and controlling persons pursuant to the foregoing provisions, or otherwise, we have been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable.

There is currently no pending material litigation or proceeding involving any of our respective directors, officers or employees for which indemnification is sought.

Transfer Agent and Registrar

The Transfer Agent and registrar for the shares of Common Stock will be Fidelity Stock Transfer Solutions LLC. The transfer agent and registrar's address is 245 Summer Street, Boston, Massachusetts 02210, and its telephone number is (617) 563-5800.

Listing

We intend to apply to have our common stock listed on Nasdaq under the symbol "XE."

SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has been no public market for shares of our Class A common stock. We cannot predict the effect, if any, future sales of shares of Class A common stock, or the availability for future sale of shares of Class A common stock, will have on the market price of shares of our Class A common stock prevailing from time to time. Future sales of substantial amounts of our Class A common stock in the public market (including shares of Class A common stock issuable upon redemption or exchange of Common Units of our Continuing Equity Owners) or the perception that such sales might occur may adversely affect market prices of our Class A common stock prevailing from time to time and could impair our future ability to raise capital through the sale of our equity or equity-related securities at a time and price that we deem appropriate. Furthermore, there may be sales of substantial amounts of our Class A common stock in the public market after the existing legal and contractual restrictions lapse. This may adversely affect the prevailing market price and our ability to raise equity capital in the future. See “*Risk Factors — Risks Related to the Offering and Ownership of our Class A common stock — Sales, directly or indirectly, of a substantial amount of our Class A common stock in the public markets by our existing security holders may cause the price of our Class A common stock to decline.*”

Upon completion of this offering, we will have a total of _____ shares of our Class A common stock outstanding. Of the outstanding shares, the shares sold in this offering (or shares if the underwriters exercise in full their over-allotment option) will be freely tradable without restriction or further registration under the Securities Act, except that any shares held by our affiliates, as that term is defined under Rule 144, including our directors, executive officers and other affiliates (including our existing owners), may be sold only in compliance with the limitations described below.

In addition, each Common Unit held by our Continuing Equity Owners will be redeemable, at the election of each Continuing Equity Owner, for, at our election (determined solely by our independent directors (within the meaning of Nasdaq rules) who are disinterested), newly issued shares of our Class A common stock on a one-for-one basis or a cash payment equal to a volume weighted average market price of one share of Class A common stock for each Common Unit so redeemed, in each case, in accordance with the terms of the XERC LLC Agreement; provided that, at our election (determined solely by our independent directors (within the meaning of Nasdaq rules) who are disinterested), we may effect a direct exchange by X-Energy, Inc. of such Class A common stock or such cash, as applicable, for such Common Units. The Continuing Equity Owners may, subject to certain exceptions, exercise such redemption right for as long as their Common Units remain outstanding. See “Certain Relationships and Related Party Transactions — XERC LLC Agreement.” Upon consummation of the Transactions, our Continuing Equity Owners will hold _____ Common Units, all of which will be exchangeable for shares of our Class A common stock. The shares of Class A common stock we issue upon such exchanges would be “restricted securities” as defined in Rule 144 unless we register such issuances.

Lock-up Agreements

We, our officers, and directors, and holders of substantially all of our shares of capital stock or other securities convertible into or exchangeable for shares of our capital stock outstanding upon consummation of this offering have agreed or will agree that, without the prior written consent of J.P. Morgan Securities LLC, we and they will not, subject to certain exceptions, during the period ending 180 days after the date of this prospectus:

- (i) offer, sell, contract to sell, pledge, grant any option to purchase, lend or otherwise dispose of any shares of our Class A common stock, or any options or warrants to purchase any shares of our Class A common stock, or any securities convertible into, or exchangeable for, or that represent the right to receive, shares of our Class A common stock; or
- (ii) engage in any hedging or other transaction or arrangement (including, without limitation, any short sale or the purchase or sale of, or entry into, any put or call option, or combination thereof, forward, swap or any other derivative transaction or instrument, however described or defined) which is designed to, or which reasonably could be expected to lead to, or result in, a sale, loan, pledge or other disposition of shares of our Class A common stock or any securities convertible into or exercisable or exchangeable

for shares of our Class A common stock, whether any transaction described above is to be settled by delivery of our Class A common stock or such other securities, in cash or otherwise.

Upon the expiration of the applicable lock-up periods, substantially all of the shares subject to such lock-up restrictions will become eligible for sale, subject to the limitations discussed above. See “Underwriting” for additional information.

In addition to the restrictions contained in the lock-up agreements described above, we have entered into agreements with certain security holders that contain market standoff provisions imposing restrictions on the ability of such security holders to offer, sell, or transfer our equity securities for a period of 180 days following the date of this prospectus.

Rule 144

In general, under Rule 144, as currently in effect, once we have been subject to public company reporting requirements for at least 90 days, a person (or persons whose shares are aggregated) who is not deemed to be or have been one of our affiliates for purposes of the Securities Act at any time during 90 days preceding a sale and who has beneficially owned the shares proposed to be sold for at least six months, including the holding period of any prior owner other than an affiliate, is entitled to sell such shares without complying with the manner of sale, volume limitation or notice provisions of Rule 144, subject to compliance with the public information requirements of Rule 144. If such a person has beneficially owned the shares proposed to be sold for at least one year, including the holding period of a prior owner other than an affiliate, then such person is entitled to sell such shares without complying with any of the requirements of Rule 144.

In general, under Rule 144, as currently in effect, our affiliates or persons selling shares of our Class A common stock on behalf of our affiliates, who have met the six month holding period for beneficial ownership of “restricted shares” of our Class A common stock, are entitled to sell upon the expiration of the lock-up agreements described above, within any three-month period beginning 90 days after the date of this prospectus, a number of shares that does not exceed the greater of:

- 1% of the number of shares of our Class A common stock then outstanding, which will equal approximately shares immediately after this offering; or
- the average reported weekly trading volume of our Class A common stock on Nasdaq during the four calendar weeks preceding the filing of a notice on Form 144 with respect to such sale.

Sales under Rule 144 by our affiliates or persons selling shares on behalf of our affiliates are also subject to certain manner of sale provisions and notice requirements and to the availability of current public information about us. The sale of these shares, or the perception that sales will be made, could adversely affect the price of our Class A common stock after this offering because a great supply of shares would be, or would be perceived to be, available for sale in the public market.

We are unable to estimate the number of shares that will be sold under Rule 144 since this will depend on the market price for our Class A common stock, the personal circumstances of the stockholder and other factors.

Rule 701

In general, under Rule 701 as currently in effect, any of our employees, directors, officers, consultants or advisors who received shares of our Class A common stock from us in connection with a compensatory stock or option plan or other written agreement before the effective date of this offering are entitled to sell such shares 90 days after the effective date of this offering in reliance on Rule 144, in the case of affiliates, without having to comply with the holding period requirements of Rule 144 and, in the case of non-affiliates, without having to comply with the public information, holding period, volume limitation or notice filing requirements of Rule 144.

Registration Rights

See “Certain Relationships and Related Party Transactions — Registration Rights Agreement in effect upon the consummation of the Transactions” for a description of these registration rights. If the offer and sale

of these shares is registered, the shares will be freely tradable without restriction under the Securities Act, and a large number of shares may be sold into the public market.

Registration Statements on Form S-8

We intend to file with the SEC a registration statement on Form S-8 under the Securities Act to register the offer and sale of all shares of Class A common stock reserved for issuance under our 2026 Plan and ESPP.

Such registration statement is expected to be filed and become effective as soon as practicable after the completion of this offering. Accordingly, shares registered under such registration statement will be available for sale in the open market following its effective date, subject to certain Rule 144 limitations applicable to affiliates, vesting restrictions, and the lock-up agreements and market standoff restrictions described above, if applicable.

**MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES TO NON-U.S. HOLDERS OF THE CLASS
A COMMON STOCK**

The following discussion is a summary of the material U.S. federal income tax consequences to Non-U.S. Holders (as defined below) of the purchase, ownership, and disposition of our Class A common stock issued pursuant to this offering, but does not purport to be a complete analysis of all potential tax effects. The effects of other U.S. federal tax laws, such as estate and gift tax laws, and any applicable state, local, or non-U.S. tax laws are not discussed. This discussion is based on the Code, Treasury Regulations promulgated thereunder, judicial decisions, and published rulings and administrative pronouncements of the IRS, in each case in effect as of the date hereof. These authorities may change or be subject to differing interpretations. Any such change or differing interpretation may be applied retroactively in a manner that could adversely affect a Non-U.S. Holder. We have not sought and will not seek any rulings from the IRS regarding the matters discussed below. There can be no assurance the IRS or a court will not take a contrary position to that discussed below regarding the tax consequences of the purchase, ownership, and disposition of our Class A common stock.

This discussion is limited to Non-U.S. Holders that hold our Class A common stock as a “capital asset” within the meaning of Section 1221 of the Code (generally, property held for investment). This discussion does not address all U.S. federal income tax consequences relevant to a Non-U.S. Holder’s particular circumstances, including the impact of the Medicare contribution tax on net investment income and the alternative minimum tax. In addition, it does not address consequences relevant to Non-U.S. Holders subject to special rules, including, without limitation:

- U.S. expatriates and former citizens or long-term residents of the U.S.;
- persons holding our Class A common stock as part of a hedge, straddle, or other risk reduction strategy or as part of a conversion transaction or other integrated investment;
- holders of our X-energy Warrants, or any other types of our warrants;
- banks, insurance companies, and other financial institutions;
- brokers, dealers, or traders in securities;
- “controlled foreign corporations,” “foreign controlled foreign corporations,” “passive foreign investment companies,” and corporations that accumulate earnings to avoid U.S. federal income tax;
- partnerships or other entities or arrangements treated as partnerships for U.S. federal income tax purposes (and investors therein);
- tax-exempt organizations or governmental organizations;
- persons deemed to sell our Class A common stock under the constructive sale provisions of the Code;
- persons who hold or receive our Class A common stock pursuant to the exercise of any employee stock option or otherwise as compensation;
- tax-qualified retirement plans;
- “qualified foreign pension funds” as defined in Section 897(l)(2) of the Code and entities all of the interests of which are held by qualified foreign pension funds; and
- persons subject to special tax accounting rules as a result of any item of gross income with respect to the stock being taken into account in an applicable financial statement.

If an entity or arrangement treated as a partnership for U.S. federal income tax purposes holds our Class A common stock, the tax treatment of a partner in the partnership will depend on the status of the partner, the activities of the partnership, and certain determinations made at the partner level. Accordingly, partnerships holding our Class A common stock and the partners in such partnerships should consult their tax advisors regarding the U.S. federal income tax consequences to them.

THIS DISCUSSION IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT TAX ADVICE. INVESTORS SHOULD CONSULT THEIR TAX ADVISORS WITH RESPECT TO THE APPLICATION OF THE U.S. FEDERAL INCOME TAX LAWS TO THEIR PARTICULAR SITUATIONS AS WELL AS ANY TAX CONSEQUENCES OF THE PURCHASE, OWNERSHIP, AND

DISPOSITION OF OUR CLASS A COMMON STOCK ARISING UNDER THE U.S. FEDERAL ESTATE OR GIFT TAX LAWS OR UNDER THE LAWS OF ANY STATE, LOCAL, OR NON-U.S. TAXING JURISDICTION OR UNDER ANY APPLICABLE INCOME TAX TREATY.

Definition of a Non-U.S. Holder

For purposes of this discussion, a “Non-U.S. Holder” is any beneficial owner of our Class A common stock that is neither a “U.S. person” nor an entity treated as a partnership for U.S. federal income tax purposes. A U.S. person is any person that, for U.S. federal income tax purposes, is or is treated as any of the following:

- an individual who is a citizen or resident of the U.S.;
- a corporation created or organized under the laws of the U.S., any state thereof, or the District of Columbia;
- an estate, the income of which is subject to U.S. federal income tax regardless of its source; or
- a trust that (1) is subject to the primary supervision of a U.S. court and the control of one or more “United States persons” (within the meaning of Section 7701(a)(30) of the Code), or (2) has a valid election in effect to be treated as a U.S. person for U.S. federal income tax purposes.

Distributions

As described in the section entitled “Dividend Policy,” we do not anticipate declaring or paying dividends to holders of our Class A common stock in the foreseeable future. However, if we do make distributions of cash or property on our Class A common stock, such distributions will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. Amounts not treated as dividends for U.S. federal income tax purposes will constitute a return of capital and first be applied against and reduce a Non-U.S. Holder’s adjusted tax basis in its Class A common stock, but not below zero. Any excess will be treated as capital gain and will be treated as described below under “— Sale or Other Taxable Disposition.”

Subject to the discussion below on effectively connected income, dividends paid to a Non-U.S. Holder will be subject to U.S. federal withholding tax at a rate of 30% of the gross amount of the dividends (or such lower rate specified by an applicable income tax treaty, provided the Non-U.S. Holder furnishes a valid IRS Form W-8BEN or W-8BEN-E (or other applicable documentation) certifying qualification for the lower treaty rate). A Non-U.S. Holder that does not timely furnish the required documentation, but that qualifies for a reduced treaty rate, may obtain a refund of any excess amounts withheld by timely filing an appropriate claim for refund with the IRS. Non-U.S. Holders should consult their tax advisors regarding their entitlement to benefits under any applicable income tax treaty.

If dividends paid to a Non-U.S. Holder are effectively connected with the Non-U.S. Holder’s conduct of a trade or business within the U.S. (and, if required by an applicable income tax treaty, the Non-U.S. Holder maintains a permanent establishment in the U.S. to which such dividends are attributable), the Non-U.S. Holder will be exempt from the U.S. federal withholding tax described above. To claim the exemption, the Non-U.S. Holder must furnish to the applicable withholding agent a valid IRS Form W-8ECI, certifying that the dividends are effectively connected with the Non-U.S. Holder’s conduct of a trade or business within the U.S.

Any such effectively connected dividends will be subject to U.S. federal income tax on a net income basis at the regular rates. A Non-U.S. Holder that is a corporation also may be subject to a branch profits tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty) on such effectively connected dividends, as adjusted for certain items. Non-U.S. Holders should consult their tax advisors regarding any applicable tax treaties that may provide for different rules.

Sale or Other Taxable Disposition

A Non-U.S. Holder will not be subject to U.S. federal income tax on any gain realized upon the sale or other taxable disposition of our Class A common stock unless:

- the gain is effectively connected with the Non-U.S. Holder’s conduct of a trade or business within the U.S. (and, if required by an applicable income tax treaty, the Non-U.S. Holder maintains a permanent establishment in the U.S. to which such gain is attributable);

- the Non-U.S. Holder is a nonresident alien individual present in the U.S. for 183 days or more during the taxable year of the disposition and certain other requirements are met; or
- our Class A common stock constitutes a U.S. real property interest (“USRPI”) by reason of our status as a U.S. real property holding corporation (“USRPHC”) for U.S. federal income tax purposes.

Gain described in the first bullet point above generally will be subject to U.S. federal income tax on a net income basis at the regular rates. A Non-U.S. Holder that is a corporation also may be subject to a branch profits tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty) on such effectively connected gain, as adjusted for certain items.

A Non-U.S. Holder described in the second bullet point above will be subject to U.S. federal income tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty) on gain realized upon the sale or other taxable disposition of our Class A common stock, which may be offset by U.S. source capital losses of the Non-U.S. Holder (even though the individual is not considered a resident of the U.S.), provided the Non-U.S. Holder has timely filed U.S. federal income tax returns with respect to such losses.

With respect to the third bullet point above, we believe we currently are not, and do not anticipate becoming, a USRPHC. Because the determination of whether we are a USRPHC depends, however, on the fair market value of our USRPIs relative to the fair market value of our non-U.S. real property interests and our other business assets, there can be no assurance we currently are not a USRPHC or will not become one in the future. Even if we are or were to become a USRPHC, gain arising from the sale or other taxable disposition of our Class A common stock by a Non-U.S. Holder will not be subject to U.S. federal income tax if our Class A common stock is “regularly traded,” as defined by applicable Treasury Regulations, on an established securities market and such Non-U.S. Holder owned, actually and constructively, 5% or less of our Class A common stock throughout the shorter of the five-year period ending on the date of the sale or other taxable disposition or the Non-U.S. Holder’s holding period.

Non-U.S. Holders should consult their tax advisors regarding potentially applicable income tax treaties that may provide for different rules.

Information Reporting and Backup Withholding

Payments of dividends on our Class A common stock will not be subject to backup withholding, provided the applicable withholding agent does not have actual knowledge or reason to know the holder is a U.S. person and the holder either certifies its non-U.S. status, such as by furnishing a valid IRS Form W-8BEN, W-8BEN-E, or W-8ECI, or otherwise establishes an exemption. However, information returns are required to be filed with the IRS in connection with any distributions on our Class A common stock paid to the Non-U.S. Holder, regardless of whether such distributions constitute dividends or whether any tax was actually withheld. In addition, proceeds of the sale or other taxable disposition of our Class A common stock within the U.S. or conducted through certain U.S.-related brokers generally will not be subject to backup withholding or information reporting if the applicable withholding agent receives the certification described above and does not have actual knowledge or reason to know that such holder is a U.S. person or the holder otherwise establishes an exemption. Proceeds of a disposition of our Class A common stock conducted through a non-U.S. office of a non-U.S. broker generally will not be subject to backup withholding or information reporting.

Copies of information returns that are filed with the IRS may also be made available under the provisions of an applicable treaty or agreement to the tax authorities of the country in which the Non-U.S. Holder resides or is established.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules may be allowed as a refund or a credit against a Non-U.S. Holder’s U.S. federal income tax liability, provided the required information is timely furnished to the IRS.

Additional Withholding Tax on Payments Made to Foreign Accounts

Withholding taxes may be imposed under Sections 1471 to 1474 of the Code (such Sections commonly referred to as the Foreign Account Tax Compliance Act, or “FATCA”) on certain types of payments made to

non-U.S. financial institutions and certain other non-U.S. entities. Specifically, a 30% withholding tax may be imposed on dividends on, or (subject to the proposed Treasury Regulations discussed below) gross proceeds from the sale or other disposition of, our Class A common stock paid to a “foreign financial institution” or a “non-financial foreign entity” (each as defined in the Code), unless (1) the foreign financial institution undertakes certain diligence and reporting obligations, (2) the non-financial foreign entity either certifies it does not have any “substantial United States owners” (as defined in the Code) or furnishes identifying information regarding each substantial U.S. owner, or (3) the foreign financial institution or non-financial foreign entity otherwise qualifies for an exemption from these rules. If the payee is a foreign financial institution and is subject to the diligence and reporting requirements in (1) above, it must enter into an agreement with the U.S. Department of the Treasury requiring, among other things, that it undertake to identify accounts held by certain “specified United States persons” or “United States owned foreign entities” (each as defined in the Code), annually report certain information about such accounts, and withhold 30% on certain payments to non-compliant foreign financial institutions and certain other account holders. Foreign financial institutions located in jurisdictions that have an intergovernmental agreement with the U.S. governing FATCA may be subject to different rules.

Under the applicable Treasury Regulations and administrative guidance, withholding under FATCA generally applies to payments of dividends on our Class A common stock. While withholding under FATCA would have applied also to payments of gross proceeds from the sale or other disposition of stock on or after January 1, 2019, proposed Treasury Regulations eliminate FATCA withholding on payments of gross proceeds entirely. Taxpayers generally may rely on these proposed Treasury Regulations until final Treasury Regulations are issued.

Prospective investors should consult their tax advisors regarding the potential application of withholding under FATCA to their investment in our Class A common stock.

UNDERWRITING

We and the underwriters named below have entered into an underwriting agreement with respect to the shares of Class A common stock described in this prospectus. J.P. Morgan Securities LLC, Morgan Stanley & Co. LLC, Jefferies LLC, and Moelis & Company LLC are acting as the representatives of the underwriters. Subject to the terms and conditions of the underwriting agreement, each underwriter has severally agreed to purchase, at the public offering price less the underwriting discounts and commissions set forth on the cover page of this prospectus, the number of shares of Class A common stock indicated in the following table.

Name	Number of Shares
J.P. Morgan Securities LLC	
Morgan Stanley & Co. LLC	
Jefferies LLC	
Moelis & Company LLC	
Cantor Fitzgerald & Co.	
Guggenheim Securities, LLC	
Nomura Securities International, Inc. ⁽¹⁾	
TD Securities (USA) LLC	
UBS Securities LLC	
WR Securities, LLC ⁽¹⁾	
Total	

- (1) “Wolfe | Nomura Alliance” is the marketing name used by Wolfe Research Securities and Nomura Securities International, Inc. in connection with certain equity capital markets activities conducted jointly by the firms. Both Nomura Securities International, Inc. and WR Securities, LLC are serving as underwriters in the offering described herein. In addition, WR Securities, LLC and certain of its affiliates may provide sales support services, investor feedback, investor education, and/or other independent equity research services in connection with this offering.

The underwriters are committed to purchase all the shares of Class A common stock offered by us if they purchase any shares of Class A common stock. The underwriting agreement also provides that if an underwriter defaults, the purchase commitments of non-defaulting underwriters may also be increased or the offering may be terminated.

Shares of Class A common stock sold by the underwriters to the public will initially be offered at the initial public offering price set forth on the cover of this prospectus. Any shares of Class A common stock sold by the underwriters to securities dealers may be sold at a discount of up to \$ _____ per share of Class A common stock from the initial public offering price. After the initial offering of the shares of Class A common stock, the representatives may change the offering price and the other selling terms. The offering of the shares of Class A common stock by the underwriters is subject to receipt and acceptance and subject to the underwriters’ right to reject any order in whole or in part. Sales of any shares of Class A common stock made outside of the U.S. may be made by affiliates of the underwriters.

To the extent that the underwriters sell more than _____ shares of Class A common stock in this offering, the underwriters have the option to purchase, exercisable within 30 days from the date of this prospectus, up to an additional _____ shares of Class A common stock from us at the public offering price less the underwriting discounts and commissions. If any shares of Class A common stock are purchased with this option to purchase additional shares of Class A common stock, the underwriters will severally purchase shares of Class A common stock in approximately the same proportion as shown in the table above. If any additional shares of Class A common stock are purchased, the underwriters will offer the additional shares on the same terms as those on which the shares are being offered.

The underwriting fee is equal to the public offering price per share less the amount paid by the underwriters to us per share. The following table shows the per-share and total underwriting discounts and

commissions to be paid to the underwriters assuming both no exercise and full exercise of the underwriters' option to purchase additional shares of Class A common stock.

	Issuer	
	Without option to purchase additional shares exercise	With full option to purchase additional shares exercise
Per Share	\$	\$
Total	\$	\$

We estimate that the total expenses of this offering, including registration, filing and listing fees, printing fees and legal and accounting expenses, but excluding the underwriting discounts and commissions, will be approximately \$. We have agreed to reimburse the underwriters for certain out-of-pocket expenses in connection with this offering in amount not to exceed \$.

A prospectus in electronic format may be made available on the web sites maintained by one or more underwriters, or selling group members, if any, participating in the offering. The underwriters may agree to allocate a number of shares of Class A common stock to underwriters and selling group members for sale to their online brokerage account holders. Internet distributions will be allocated by the representatives to underwriters and selling group members that may make Internet distributions on the same basis as other allocations.

We have agreed that we will not (i) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend or otherwise transfer or dispose of, directly or indirectly, or submit to, or file with, the Securities and Exchange Commission a registration statement under the Securities Act relating to, any shares of our common stock or securities convertible into or exercisable or exchangeable for any shares of our common stock, or publicly disclose the intention to make any offer, sale, pledge, loan, disposition or filing, or (ii) enter into any swap or other arrangement that transfers all or a portion of the economic consequences associated with the ownership of any shares of common stock or any such other securities (regardless of whether any of these transactions are to be settled by the delivery of shares of common stock or such other securities, in cash or otherwise), in each case without the prior written consent of J.P. Morgan Securities LLC for a period of 180 days after the date of this prospectus, other than the shares of our common stock to be sold in this offering.

The restrictions on our actions, as described above, do not apply to certain transactions, including (i) the issuance of shares of common stock or securities convertible into or exercisable for shares of our common stock pursuant to the conversion or exchange of convertible or exchangeable securities or the exercise of warrants or options (including net exercise) or the settlement of restricted stock units ("RSUs") (including net settlement), in each case outstanding on the date of the underwriting agreement and described in this prospectus; (ii) grants of stock options, stock awards, restricted stock, RSUs, or other equity awards and the issuance of shares of our common stock or securities convertible into or exercisable or exchangeable for shares of our common stock (whether upon the exercise of stock options or otherwise) to our employees, officers, directors, advisors, or consultants pursuant to the terms of an equity compensation plan in effect as of the closing of this offering and described in this prospectus, provided that such recipients enter into a lock-up agreement with the underwriters; or (iii) our filing of any registration statement on Form S-8 relating to securities granted or to be granted pursuant to any plan in effect on the date of the underwriting agreement and described in this prospectus or any assumed benefit plan pursuant to an acquisition or similar strategic transaction.

Our directors, officers, and certain of our stockholders (such persons, the "lock-up parties") have entered into lock-up agreements with the underwriters prior to the commencement of this offering pursuant to which each lock-up party, with limited exceptions, for a period of 180 days after the date of this prospectus (such period, the "restricted period"), may not (and may not cause any of their direct or indirect affiliates to), without the prior written consent of J.P. Morgan Securities LLC, (1) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend or otherwise transfer or dispose of, directly or indirectly, any shares of our common stock or any securities convertible into or exercisable or exchangeable for our common stock (including, without

limitation, common stock or such other securities which may be deemed to be beneficially owned by such lock-up parties in accordance with the rules and regulations of the SEC and securities which may be issued upon exercise of a stock option or warrant (collectively with the common stock, the “lock-up securities”)), (2) enter into any hedging, swap or other agreement or transaction that transfers, in whole or in part, any of the economic consequences of ownership of the lock-up securities, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of lock-up securities, in cash or otherwise, (3) make any demand for, or exercise any right with respect to, the registration of any lock-up securities, or (4) publicly disclose the intention to do any of the foregoing. Such persons or entities have further acknowledged that these undertakings preclude them from engaging in any hedging or other transactions or arrangements (including, without limitation, any short sale or the purchase or sale of, or entry into, any put or call option, or combination thereof, forward, swap or any other derivative transaction or instrument, however described or defined) designed or intended, or which could reasonably be expected to lead to or result in, a sale or disposition or transfer (by any person or entity, whether or not a signatory to such agreement) of any economic consequences of ownership, in whole or in part, directly or indirectly, of any lock-up securities, whether any such transaction or arrangement (or instrument provided for thereunder) would be settled by delivery of lock-up securities, in cash or otherwise.

The restrictions described in the immediately preceding paragraph and contained in the lock-up agreements between the underwriters and the lock-up parties do not apply, subject in certain cases to various conditions, to certain transactions, including (a) transfers of lock-up securities: (i) as bona fide gifts, or for bona fide estate planning purposes, (ii) by will or intestacy, (iii) to any trust for the direct or indirect benefit of the lock-up party or any immediate family member, (iv) to a partnership, limited liability company or other entity of which the lock-up party and its immediate family members are the legal and beneficial owner of all of the outstanding equity securities or similar interests, (v) to a nominee or custodian of a person or entity to whom a disposition or transfer would be permissible under clauses (i) through (iv), (vi) in the case of a corporation, partnership, limited liability company, trust or other business entity, (A) to another corporation, partnership, limited liability company, trust or other business entity that is an affiliate of the lock-up party, or to any investment fund or other entity controlling, controlled by, managing or managed by or under common control with the lock-up party or its affiliates or (B) as part of a distribution to members or shareholders of the lock-up party; (vii) by operation of law, (viii) to us from an employee upon death, disability or termination of employment of such employee, (ix) as part of a sale of lock-up securities acquired in open market transactions after the completion of this offering, (x) to us in connection with the vesting, settlement or exercise of restricted stock units, options, warrants or other rights to purchase shares of our common stock (including “net” or “cashless” exercise), including for the payment of exercise price and tax and remittance payments, or (xi) pursuant to a bona fide third-party tender offer, merger, consolidation or other similar transaction approved by our board of directors and made to all shareholders involving a change in control, provided that if such transaction is not completed, all such lock-up securities would remain subject to the restrictions in the immediately preceding paragraph; (b) exercise of the options, settlement of RSUs or other equity awards, or the exercise of warrants granted pursuant to plans described in this prospectus, provided that any lock-up securities received upon such exercise, vesting or settlement would be subject to restrictions similar to those in the immediately preceding paragraph; (c) the conversion of outstanding preferred stock, warrants to acquire preferred stock, or convertible securities into shares of our common stock or warrants to acquire shares of our common stock, provided that any common stock or warrant received upon such conversion would be subject to restrictions similar to those in the immediately preceding paragraph; and (d) the establishment by lock-up parties of trading plans under Rule 10b5-1 under the Exchange Act, provided that such plan does not provide for the transfer of lock-up securities during the restricted period.

J.P. Morgan Securities LLC, in its sole discretion, may release the securities subject to any of the lock-up agreements with the underwriters described above, in whole or in part at any time.

We have agreed to indemnify the underwriters against certain liabilities, including liabilities under the Securities Act of 1933.

We intend to apply to list our Class A common stock on Nasdaq under the symbol “XE.”

In connection with this offering, the underwriters may engage in stabilizing transactions, which involves making bids for, purchasing and selling shares of Class A common stock in the open market for the purpose of preventing or retarding a decline in the market price of the Class A common stock while this offering is in

progress. These stabilizing transactions may include making short sales of Class A common stock, which involves the sale by the underwriters of a greater number of shares of Class A common stock than they are required to purchase in this offering, and purchasing shares of Class A common stock on the open market to cover positions created by short sales. Short sales may be “covered” shorts, which are short positions in an amount not greater than the underwriters’ option to purchase additional shares of Class A common stock referred to above, or may be “naked” shorts, which are short positions in excess of that amount. The underwriters may close out any covered short position either by exercising their option to purchase additional shares of Class A common stock, in whole or in part, or by purchasing shares of Class A common stock in the open market. In making this determination, the underwriters will consider, among other things, the price of shares of Class A common stock available for purchase in the open market compared to the price at which the underwriters may purchase shares of Class A common stock through the option to purchase additional shares of Class A common stock. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the Class A common stock in the open market that could adversely affect investors who purchase in this offering. To the extent that the underwriters create a naked short position, they will purchase shares of Class A common stock in the open market to cover the position.

The underwriters have advised us that, pursuant to Regulation M of the Securities Act of 1933, they may also engage in other activities that stabilize, maintain or otherwise affect the price of the Class A common stock, including the imposition of penalty bids. This means that if the representatives of the underwriters purchase Class A common stock in the open market in stabilizing transactions or to cover short sales, the representatives can require the underwriters that sold those shares of Class A common stock as part of this offering to repay the underwriting discount received by them.

These activities may have the effect of raising or maintaining the market price of the Class A common stock or preventing or retarding a decline in the market price of the Class A common stock, and, as a result, the price of the Class A common stock may be higher than the price that otherwise might exist in the open market. If the underwriters commence these activities, they may discontinue them at any time. The underwriters may carry out these transactions on Nasdaq, in the over the counter market or otherwise.

Prior to this offering, there has been no public market for our Class A common stock. The initial public offering price will be determined by negotiations between us and the representatives. In determining the initial public offering price, we and the representatives of the underwriters expect to consider a number of factors including:

- the information set forth in this prospectus and otherwise available to the representatives;
- our prospects and the history and prospects for the industry in which we compete;
- an assessment of our management;
- our prospects for future earnings;
- the general condition of the securities markets at the time of this offering;
- the recent market prices of, and demand for, publicly traded common stock of generally comparable companies; and
- other factors deemed relevant by the underwriters and us.

Neither we nor the underwriters can assure investors that an active trading market will develop for our shares of Class A common stock, or that the shares of Class A common stock will trade in the public market at or above the initial public offering price.

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include sales and trading, commercial and investment banking, advisory, investment management, investment research, principal investment, hedging, market making, brokerage and other financial and non-financial activities and services. Certain of the underwriters and their respective affiliates have provided, and may in the future provide, a variety of these services to the issuer and to persons and entities with relationships with the issuer, for which they received or will receive customary fees and expenses. In addition, from time to time, certain of the underwriters and their affiliates may effect transactions for their

own account or the account of customers, and hold on behalf of themselves or their customers, long or short positions in our debt or equity securities or loans, and may do so in the future.

Other than in the U.S., no action has been taken by us or the underwriters that would permit a public offering of the securities offered by this prospectus in any jurisdiction where action for that purpose is required. The securities offered by this prospectus may not be offered or sold, directly or indirectly, nor may this prospectus or any other offering material or advertisements in connection with the offer and sale of any such securities be distributed or published in any jurisdiction, except under circumstances that will result in compliance with the applicable rules and regulations of that jurisdiction. Persons into whose possession this prospectus comes are advised to inform themselves about and to observe any restrictions relating to the offering and the distribution of this prospectus. This prospectus does not constitute an offer to sell or a solicitation of an offer to buy any securities offered by this prospectus in any jurisdiction in which such an offer or a solicitation is unlawful.

Directed Share Program

At our request, the underwriters have reserved up to _____ shares of Class A common stock, or _____ % of the shares offered by this prospectus, for sale at the initial public offering price to our directors, officers, and certain employees and other parties related to X-Energy, Inc. Shares purchased through the directed share program will not be subject to a lock-up restriction, except in the case of shares purchased by any of our directors or officers. The number of shares of Class A common stock available for sale to the general public will be reduced to the extent these individuals purchase such reserved shares. Any reserved shares that are not so purchased will be offered by the underwriters to the general public on the same basis as the other shares offered by this prospectus. Morgan Stanley & Co. LLC will administer our directed share program.

NOTICE TO PROSPECTIVE INVESTORS IN THE EUROPEAN ECONOMIC AREA

In relation to each Member State of the European Economic Area (each a “Relevant State”), no shares have been offered or will be offered pursuant to the offering to the public in that Relevant State prior to the publication of a prospectus in relation to the shares which has been approved by the competent authority in that Relevant State or, where appropriate, approved in another Relevant State and notified to the competent authority in that Relevant State, all in accordance with the Prospectus Regulation, except that offers of shares may be made to the public in that Relevant State at any time under the following exemptions under the Prospectus Regulation:

- (a) to any legal entity which is a qualified investor as defined under Article 2 of the Prospectus Regulation;
- (b) to fewer than 150 natural or legal persons (other than qualified investors as defined under Article 2 of the Prospectus Regulation), subject to obtaining the prior consent of the underwriters; or
- (c) in any other circumstances falling within Article 1(4) of the Prospectus Regulation,

provided that no such offer of shares shall require us or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the Prospectus Regulation, and each person who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed to and with each of the underwriters and the Company that it is a “qualified investor” within the meaning of Article 2(e) of the Prospectus Regulation. In the case of any shares being offered to a financial intermediary as that term is used in the Prospectus Regulation, each such financial intermediary will be deemed to have represented, acknowledged and agreed that the shares acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer of any shares to the public other than their offer or resale in a Relevant State to qualified investors as so defined or in circumstances in which the prior consent of the underwriters have been obtained to each such proposed offer or resale.

For the purposes of this provision, the expression an “offer to the public” in relation to shares in any Relevant State means the communication in any form and by any means of sufficient information on the terms of the offer and any shares to be offered so as to enable an investor to decide to purchase or subscribe for any shares, and the expression “Prospectus Regulation” means Regulation (EU) 2017/1129.

NOTICE TO PROSPECTIVE INVESTORS IN THE UNITED KINGDOM

No shares have been offered or will be offered pursuant to the offering to the public in the U.K. prior to the publication of a prospectus in relation to the shares which has been approved by the Financial Conduct Authority, except that the shares may be offered to the public in the U.K. at any time:

- (a) to any legal entity which is a qualified investor as defined under Article 2 of the U.K. Prospectus Regulation;
- (b) to fewer than 150 natural or legal persons (other than qualified investors as defined under Article 2 of the U.K. Prospectus Regulation), subject to obtaining the prior consent of underwriters for any such offer; or
- (c) in any other circumstances falling within Section 86 of the Financial Services and Markets Act 2000 (“FSMA”);

provided that no such offer of the shares shall require the Company or any underwriter to publish a prospectus pursuant to Section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the U.K. Prospectus Regulation. For the purposes of this provision, the expression an “offer to the public” in relation to the shares in the U.K. means the communication in any form and by any means of sufficient information on the terms of the offer and any shares to be offered so as to enable an investor to decide to purchase or subscribe for any shares and the expression “U.K. Prospectus Regulation” means Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018.

In addition, in the U.K., this document is being distributed only to, and is directed only at, and any offer subsequently made may only be directed at persons who are “qualified investors” (as defined in the Prospectus Regulation) (i) who have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the “Order”) and/or (ii) who are high net worth companies (or persons to whom it may otherwise be lawfully communicated) falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as “relevant persons”) or otherwise in circumstances which have not resulted and will not result in an offer to the public of the shares in the U.K. within the meaning of the FSMA.

Any person in the U.K. that is not a relevant person should not act or rely on the information included in this document or use it as a basis for taking any action. In the U.K., any investment or investment activity that this document relates to may be made or taken exclusively by relevant persons.

NOTICE TO PROSPECTIVE INVESTORS IN CANADA

The shares may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions or subsection 73.3(1) of the Securities Act (Ontario), and are permitted clients, as defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. Any resale of the shares must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser’s province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser’s province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 of National Instrument 33-105 Underwriting Conflicts (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

NOTICE TO PROSPECTIVE INVESTORS IN SWITZERLAND

This prospectus does not constitute an offer to the public or a solicitation to purchase or invest in any shares. No shares have been offered or will be offered to the public in Switzerland, except that offers of shares may be made to the public in Switzerland at any time under the following exemptions under the Swiss Financial Services Act (“FinSA”):

- (a) to any person which is a professional client as defined under the FinSA;
- (b) to fewer than 500 persons (other than professional clients as defined under the FinSA), subject to obtaining the prior consent of J.P. Morgan Securities LLC, Morgan Stanley & Co. LLC, Jefferies LLC and Moelis & Company LLC for any such offer; or
- (c) in any other circumstances falling within Article 36 FinSA in connection with Article 44 of the Swiss Financial Services Ordinance,

provided that no such offer of shares shall require the Company or any investment bank to publish a prospectus pursuant to Article 35 FinSA.

The shares have not been and will not be listed or admitted to trading on a trading venue in Switzerland.

Neither this document nor any other offering or marketing material relating to the shares constitutes a prospectus as such term is understood pursuant to the FinSA and neither this document nor any other offering or marketing material relating to the shares may be publicly distributed or otherwise made publicly available in Switzerland.

NOTICE TO PROSPECTIVE INVESTORS IN THE DUBAI INTERNATIONAL FINANCIAL CENTRE ("DIFC")

This document relates to an Exempt Offer in accordance with the Markets Law, DIFC Law No. 1 of 2012, as amended. This document is intended for distribution only to persons of a type specified in the Markets Law, DIFC Law No. 1 of 2012, as amended. It must not be delivered to, or relied on by, any other person. The Dubai Financial Services Authority (DFSA) has no responsibility for reviewing or verifying any documents in connection with Exempt Offers. The DFSA has not approved this prospectus supplement nor taken steps to verify the information set forth herein and has no responsibility for this document. The securities to which this document relates may be illiquid and/or subject to restrictions on their resale. Prospective purchasers of the securities offered should conduct their own due diligence on the securities. If you do not understand the contents of this document you should consult an authorized financial advisor.

In relation to its use in the DIFC, this document is strictly private and confidential and is being distributed to a limited number of investors and must not be provided to any person other than the original recipient, and may not be reproduced or used for any other purpose. The interests in the securities may not be offered or sold directly or indirectly to the public in the DIFC.

NOTICE TO PROSPECTIVE INVESTORS IN THE UNITED ARAB EMIRATES

The shares have not been, and are not being, publicly offered, sold, promoted or advertised in the United Arab Emirates (including the Dubai International Financial Centre) other than in compliance with the laws of the United Arab Emirates (and the Dubai International Financial Centre) governing the issue, offering and sale of securities. Further, this prospectus does not constitute a public offer of securities in the United Arab Emirates (including the Dubai International Financial Centre) and is not intended to be a public offer. This prospectus has not been approved by or filed with the Central Bank of the United Arab Emirates, the Securities and Commodities Authority, Financial Services Regulatory Authority (FSRA) or the Dubai Financial Services Authority (DFSA).

NOTICE TO PROSPECTIVE INVESTORS IN AUSTRALIA

This prospectus:

- does not constitute a disclosure document or a prospectus under Chapter 6D.2 of the Corporations Act 2001 (Cth) (the "Corporations Act");
- has not been, and will not be, lodged with the Australian Securities and Investments Commission ("ASIC"), as a disclosure document for the purposes of the Corporations Act and does not purport to include the information required of a disclosure document for the purposes of the Corporations Act; and
- may only be provided in Australia to select investors who are able to demonstrate that they fall within one or more of the categories of investors, available under section 708 of the Corporations Act ("Exempt Investors").

The shares may not be directly or indirectly offered for subscription or purchased or sold, and no invitations to subscribe for or buy the shares may be issued, and no draft or definitive offering memorandum, advertisement or other offering material relating to any shares may be distributed in Australia, except where disclosure to investors is not required under Chapter 6D of the Corporations Act or is otherwise in compliance with all applicable Australian laws and regulations. By submitting an application for the shares, you represent and warrant to us that you are an Exempt Investor.

As any offer of shares under this document will be made without disclosure in Australia under Chapter 6D.2 of the Corporations Act, the offer of those securities for resale in Australia within 12 months may, under section 707 of the Corporations Act, require disclosure to investors under Chapter 6D.2 if none of the exemptions in section 708 applies to that resale. By applying for the shares, you undertake to us that you will not, for a period of 12 months from the date of issue of the shares, offer, transfer, assign or otherwise alienate those shares to investors in Australia except in circumstances where disclosure to investors is not required under Chapter 6D.2 of the Corporations Act or where a compliant disclosure document is prepared and lodged with ASIC.

NOTICE TO PROSPECTIVE INVESTORS IN JAPAN

The shares have not been and will not be registered pursuant to Article 4, Paragraph 1 of the Financial Instruments and Exchange Act. Accordingly, none of the shares nor any interest therein may be offered or sold, directly or indirectly, in Japan or to, or for the benefit of, any “resident” of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for re-offering or resale, directly or indirectly, in Japan or to or for the benefit of a resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the Financial Instruments and Exchange Act and any other applicable laws, regulations and ministerial guidelines of Japan in effect at the relevant time.

NOTICE TO PROSPECTIVE INVESTORS IN HONG KONG

The shares have not been offered or sold and will not be offered or sold in Hong Kong, by means of any document, other than (a) to “professional investors” as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) (the “SFO”) of Hong Kong and any rules made thereunder; or (b) in other circumstances which do not result in the document being a “prospectus” as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32) of Hong Kong (the “CO”) or which do not constitute an offer to the public within the meaning of the CO. No advertisement, invitation or document relating to the shares has been or may be issued or has been or may be in the possession of any person for the purposes of issue, whether in Hong Kong or elsewhere, which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to shares which are or are intended to be disposed of only to persons outside Hong Kong or only to “professional investors” as defined in the SFO and any rules made thereunder.

NOTICE TO PROSPECTIVE INVESTORS IN SINGAPORE

Each of J.P. Morgan Securities LLC, Morgan Stanley & Co. LLC, Jefferies LLC and Moelis & Company LLC and the Company has acknowledged that this prospectus has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, each of J.P. Morgan Securities LLC, Morgan Stanley & Co. LLC, Jefferies LLC and Moelis & Company LLC, and the Company has represented and agreed that it has not offered or sold any shares or caused the shares to be made the subject of an invitation for subscription or purchase and will not offer or sell any shares or cause the shares to be made the subject of an invitation for subscription or purchase, and has not circulated or distributed, nor will it circulate or distribute, this prospectus or any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the shares, whether directly or indirectly, to any person in Singapore other than:

- (a) to an institutional investor (as defined in Section 4A of the Securities and Futures Act (Chapter 289) of Singapore, as modified or amended from time to time (the “SFA”)) pursuant to Section 274 of the SFA;
- (b) to a relevant person (as defined in Section 275(2) of the SFA) pursuant to Section 275(1) of the SFA, or any person pursuant to Section 275(1A) of the SFA, and in accordance with the conditions specified in Section 275 of the SFA; or
- (c) otherwise, pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where the shares are subscribed or purchased under Section 275 of the SFA by a relevant person which is:

- (a) a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited investor; or
- (b) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary of the trust is an individual who is an accredited investor,

securities or securities-based derivatives contracts (each term as defined in Section 2(1) of the SFA) of that corporation or the beneficiaries’ rights and interest (howsoever described) in that trust shall not be transferred

within six months after that corporation or that trust has acquired the shares pursuant to an offer made under Section 275 of the SFA except:

- (i) to an institutional investor or to a relevant person, or to any person arising from an offer referred to in Section 275(1A) or Section 276(4)(c)(ii) of the SFA;
- (ii) where no consideration is or will be given for the transfer;
- (iii) where the transfer is by operation of law;
- (iv) as specified in Section 276(7) of the SFA; or
- (v) as specified in Regulation 37A of the Securities and Futures (Offers of Investments) (Securities and Securities-based Derivatives Contracts) Regulations 2018.

LEGAL MATTERS

Latham & Watkins LLP, New York, New York, which has acted as our counsel in connection with this offering, will pass upon the validity of the issuance of the shares of our Class A common stock offered by this prospectus. Certain legal matters in connection with this offering will be passed upon for the underwriters by Skadden, Arps, Slate, Meagher & Flom LLP.

EXPERTS

The consolidated financial statements of X-Energy Reactor Company, LLC at December 31, 2025 and 2024, and for the two years in the period ended December 31, 2025, appearing in this Prospectus and Registration Statement have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon appearing elsewhere herein, and are included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

The financial statements of X-Energy, Inc. as of December 31, 2025 appearing in this Prospectus and Registration Statement have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their report thereon appearing elsewhere herein, and is included in reliance upon such report given on the authority of such firm as experts in accounting and auditing.

CHANGE IN AUDITOR

On May 2, 2025, the Company notified Grant Thornton LLP (“GT”) of its intent to change the Company’s certifying accountant. On June 9, 2025, the Company appointed Ernst & Young LLP (“EY”) as its new independent registered public accounting firm. The reports of GT on the Company’s consolidated financial statements for the fiscal years ended December 31, 2024 and 2023 did not contain an adverse opinion or a disclaimer of opinion, and were not qualified or modified as to uncertainty, audit scope or accounting principles. During the years ended December 31, 2024 and 2023, and the subsequent interim period through May 2, 2025, there were (i) no disagreements between the Company and GT on any matter of accounting principles or practices, financial statement disclosure or auditing scope or procedure, which, if not resolved to GT’s satisfaction, would have caused GT to make reference to the subject matter of the disagreement in connection with its report for such years, and (ii) no “reportable events” as defined in Item 304(a)(1)(v) of Regulation S-K for such years and subsequent interim period through May 2, 2025, except for GT’s communication of the material weakness discussed in the Risk Factors section. The Company discussed such reportable events with GT, and the Company has authorized GT to respond fully to the inquiries of EY concerning such reportable events. In connection with the filing of this Registration Statement, EY reaudited the Company’s financial statements for the year ended December 31, 2024 under the standards of the Public Company Accounting Oversight Board (United States) (“PCAOB”), and EY’s report for the fiscal year ended December 31, 2024 is included herein. Accordingly, GT’s previously issued report on the fiscal year ended December 31, 2024 is not included in this Registration Statement. During the years ended December 31, 2024 and 2023, and the subsequent interim period through May 2, 2025, neither the Company nor anyone on its behalf has consulted EY with respect to either (i) the application of accounting principles to a specified transaction, either completed or proposed, or the type of audit opinion that might be rendered on the Company’s consolidated financial statements or the effectiveness of internal control over financial reporting, where either a written report or oral advice was provided to the Company that EY concluded was an important factor considered by the Company in reaching a decision as to any accounting, auditing or financial reporting issue; or (ii) any matter that was either the subject of a disagreement (as defined in Item 304(a)(1)(iv) of Regulation S-K and related instructions) or a reportable event (as defined in Item 304(a)(1)(v) of Regulation S-K). The Company has provided GT with a copy of this Current Report.

WHERE YOU CAN FIND MORE INFORMATION

We have filed with the SEC a registration statement on Form S-1 (including the exhibits, schedules and amendments thereto) under the Securities Act, with respect to our Class A common stock offered hereby. This prospectus does not contain all of the information set forth in the registration statement and the exhibits and schedules thereto. For further information with respect to the Class A common stock offered hereby, we refer you to the registration statement and the exhibits and schedules filed therewith. Statements contained in this prospectus as to the contents of any contract, agreement or other document are summaries of the material terms of such contract, agreement or other document and are not necessarily complete. With respect to each of these contracts, agreements or other documents filed as an exhibit to the registration statement, reference is made to the exhibits for a more complete description of the matter involved. The SEC maintains a website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The address of the SEC's website is www.sec.gov. A copy of the registration statement, of which this prospectus forms a part, and the exhibits and schedules thereto may be downloaded from the SEC's website.

As a result of this offering, we will become subject to full information reporting requirements of the Exchange Act and will file with or furnish to the SEC periodic reports and other information. We intend to furnish our shareholders with annual reports containing our audited financial statements prepared in accordance with GAAP and certified by an independent public accounting firm. We also intend to furnish or make available to our shareholders quarterly reports containing our unaudited interim financial information, for the first three fiscal quarters of each fiscal year. Our website is located at www.x-energy.com. Following the completion of this offering, we intend to make our periodic reports and other information filed with or furnished to the SEC available, free of charge, through our website, as soon as reasonably practicable after those reports and other information are electronically filed with or furnished to the SEC. Information contained on our website or linked therein or otherwise connected thereto does not constitute part of nor is it incorporated by reference into this prospectus or the registration statement of which this prospectus forms a part.

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X-Energy, Inc.

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X-Energy Reactor Company, LLC

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Report of Independent Registered Public Accounting Firm

To the Board of Directors of X-Energy, Inc.

Opinion on the Financial Statements

We have audited the accompanying balance sheet of X-Energy, Inc. (the “Company”) as of December 31, 2025, and the related notes (collectively referred to as the “financial statements”). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2025, in accordance with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s financial statements based on our audit. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audit we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company’s internal control over financial reporting. Accordingly, we express no such opinion.

Our audit included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audit also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as the Company’s auditor since 2025.

Tysons, Virginia
March 20, 2026

X-ENERGY, INC.
BALANCE SHEET

	December 31, 2025
Assets	
Current assets	
Cash and cash equivalents	—
Total assets	—
Shareholder's Equity	
Common stock, par value \$0.0001 per share, 1,000 authorized and 0 issued or outstanding	—
Additional paid-in capital	—
Total shareholder's equity	—
Total liabilities, and shareholder's equity	—

X-ENERGY, INC.**NOTES TO FINANCIAL STATEMENTS****NOTE 1 — ORGANIZATION****Company Overview**

X-Energy, Inc. (the “Company”) was incorporated in Delaware on September 18, 2025. In connection with its incorporation, the Company authorized 1,000 shares of common stock for \$0.0001 per share and issued 0 shares. The Company was formed for the purpose of completing a public offering and related transactions (the “Reorganization”) in order to conduct the business of the X-Energy Reactor Company, LLC, which is a related party, as a publicly-traded entity. The Company had no operations prior to incorporation on September 18, 2025, and had no activities since the date of incorporation and therefore, has omitted presenting statements of operations, changes in shareholder’s equity and cash flows.

Following the successful completion of the Reorganization and this offering, the Company will be a public holding company and its sole asset will be equity interests in X-Energy Reactor Company, LLC and will be the general partner of X-Energy Reactor Company, LLC.

NOTE 2 — SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accompanying financial statements of the Company have been prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”).

NOTE 3 — SHAREHOLDER’S EQUITY

The Company is authorized to issue 1,000 shares of common stock (par value \$0.0001 per share).

NOTE 4 — COMMITMENTS AND CONTINGENCIES

In the ordinary course of business, the Company may be subject to various legal, regulatory and/or administrative proceedings. There are currently no such proceedings to which the Company is a party.

In the normal course of business, the Company may enter into contracts that contain a variety of indemnification clauses. The Company’s maximum exposure under these arrangements cannot be determined as these indemnities relate to future claims that may be made against the Company, but which have not yet occurred. However, the Company has not had prior claims or losses pursuant to these contracts and expects the risk of loss to be remote.

Report of Independent Registered Public Accounting Firm

To the Members and the Board of Directors of X-Energy Reactor Company, LLC

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of X-Energy Reactor Company, LLC (the Company) as of December 31, 2025 and 2024, the related consolidated statements of operations and comprehensive loss, changes in members' deficit and mezzanine equity and cash flows for each of the two years in the period ended December 31, 2025, and the related notes (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2025 and 2024, and the results of its operations and its cash flows for each of the two years in the period ended December 31, 2025, in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 2025.

Tysons, Virginia
March 20, 2026

X-ENERGY REACTOR COMPANY, LLC
CONSOLIDATED BALANCE SHEETS
(in thousands, except units)

	December 31, 2025	December 31, 2024
ASSETS		
Current assets		
Cash and cash equivalents	\$ 458,932	\$ 514,600
Short-term investments	304,908	—
Accounts receivable	32,940	1,212
Unbilled receivables and contract assets	41,529	27,211
Prepaid and other current assets	11,491	2,894
Due from related parties	4,580	15,973
Total current assets	854,380	561,890
Long-term investments	261,458	—
Restricted cash	3,698	—
Property and equipment, net	50,105	5,828
Operating lease right-of-use assets	22,696	11,003
Other long-term assets	18,934	789
Total assets	\$ 1,211,271	\$ 579,510
LIABILITIES, MEZZANINE EQUITY, AND MEMBERS' DEFICIT		
Current liabilities		
Accounts payable	\$ 3,363	\$ 2,327
Accrued liabilities	51,217	35,379
Due to related parties	4,225	8,480
Short-term borrowings	—	18,537
Total current liabilities	58,805	64,723
Long-term deferred revenue	15,153	—
Long-term operating lease liabilities	20,887	10,338
Warrant liabilities	274,166	50,634
Total liabilities	369,011	125,695
Mezzanine equity		
Class A Common Units: 367,055,779 units authorized, 3,128,026 units issued and outstanding as of December 31, 2025, and 328,688,824 units authorized, 3,128,026 units issued and outstanding as of and December 31, 2024	1,800	1,800
Class B Common Units: 41,149,242 units authorized, 16,838,205 units issued and outstanding as of December 31, 2025, and 34,043,242 units authorized, 13,960,705 units issued and outstanding as of December 31, 2024	93,353	90,859
Series A redeemable convertible preferred units: 90,625,588 units authorized, issued and outstanding as of December 31, 2025, and 2024; liquidation preference of \$52,146 as of December 31, 2025 and 2024	218,408	218,408
Series A-1 redeemable convertible preferred units: 8,808,351 units authorized, issued and outstanding as of December 31, 2025, and 2024; liquidation preference of \$67,250 as of December 31, 2025 and 2024	21,477	21,477
Series B redeemable convertible preferred units: 11,643,171 units authorized, issued and outstanding as of December 31, 2025, and 2024; liquidation preference of \$120,214 as of December 31, 2025 and \$117,030 as of December 31, 2024	101,382	101,382
Series C redeemable convertible preferred units: 41,418,916 units authorized; 39,963,592 units issued and outstanding as of December 31, 2025, and 65,185,243 units authorized; 37,093,420 units issued and outstanding as of December 31, 2024; liquidation preference of \$305,114 as of December 31, 2025 and \$283,201 as of December 31, 2024	265,797	230,987
Series C-1 redeemable convertible preferred units: 162,246,180 units authorized; 107,908,114 units issued and outstanding as of December 31, 2025, and 148,122,321 units authorized, 99,672,593 units issued and outstanding as of December 31, 2024; liquidation preference of \$874,999 as of December 31, 2025 and \$808,220 as of December 31, 2024	686,715	635,463
Series D redeemable convertible preferred units: 48,154,955 units authorized, issued and outstanding as of December 31, 2025, and zero units authorized, issued and outstanding as of December 31, 2024; liquidation preference of \$700,000 as of December 31, 2025 and \$0 as of December 31, 2024	677,623	—
Total mezzanine equity	2,066,555	1,300,376
Accumulated deficit	(1,236,345)	(846,567)
Accumulated other comprehensive income (loss)	(117)	6
Additional paid-in capital	12,167	—
Total members' deficit	(1,224,295)	(846,561)
Total liabilities, mezzanine equity, and members' deficit	\$ 1,211,271	\$ 579,510

X-ENERGY REACTOR COMPANY, LLC
CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE LOSS
(in thousands)

	Year Ended December 31,	
	2025	2024
Services revenue ⁽¹⁾	\$ 94,260	\$ 83,986
Grant income	14,838	36,166
Total revenues and grant income	\$ 109,098	\$ 120,152
Operating expenses		
Direct costs	161,367	130,115
Selling, general and administrative	116,318	111,887
Research and development	1,708	1,662
Total operating expenses	279,393	243,664
Operating loss	(170,295)	(123,512)
Other income (expense)		
Interest expense	(475)	(16,190)
Interest income	20,293	2,833
Other income (expense), net	(239,301)	10,909
Total other expense, net	(219,483)	(2,448)
Net loss	\$(389,778)	\$(125,960)
Other comprehensive loss		
Foreign currency translation adjustment	(888)	474
Reclassification of OCI for conversion of C-1 and C-2 Notes	—	4,873
Changes in fair value of liabilities under fair value option attributable to changes in instrument-specific credit risk	765	(6,220)
Other comprehensive loss	(123)	(873)
Comprehensive loss	\$(389,901)	\$(126,833)

(1) Includes related party revenue of \$6,943 and \$27,555 for the years ended December 31, 2025 and 2024, respectively.

X-ENERGY REACTOR COMPANY, LLC
CONSOLIDATED STATEMENTS OF CHANGES IN MEMBERS' DEFICIT AND MEZZANINE EQUITY
(in thousands, except units)

	Accumulated		Additional Paid-In Capital	Total Members' Deficit	Class A Common Units		Class B Common Units		Series A Preferred Units		Series A-1 Preferred Units		Series B Preferred Units		Series C Preferred Units		Series C-1 Preferred Units		Series D Preferred Units		Total Mezzanine Equity
	Accumulated Deficit	Other Comprehensive Income (Loss)			Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount	
Balance, January 1, 2024	\$ (716,769)	\$ 879	\$ —	\$ (715,890)	3,128,026	\$1,800	10,139,818	\$74,250	90,625,588	\$218,408	8,808,351	\$21,477	11,643,171	\$101,382	16,340,900	\$ 99,458	—	—	—	—	\$ 516,775
Unit-based compensation	(3,838)	—	—	(3,838)	—	—	694,000	4,988	—	—	—	—	—	—	—	—	—	—	—	—	4,988
Issuance of Class B Units in conjunction with the issuance and modification of debt	—	—	—	—	—	—	2,369,752	9,061	—	—	—	—	—	—	—	—	—	—	—	—	9,061
Issuance of Class B Units in conjunction with the conversion of C-1 Notes to Series C Preferred Units	—	—	—	—	—	—	757,135	2,560	—	—	—	—	—	—	—	—	—	—	—	—	2,560
Conversion of Series C-1 Notes into Series C Preferred Units	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,210,405	27,138	—	—	—	—	27,138
Exercise of the October 2022 Warrants	—	—	—	—	—	—	—	—	—	—	—	—	—	—	582,094	5,175	—	—	—	—	5,175
Conversion of C-2 Notes into Series C-Preferred Units	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16,960,021	99,216	—	—	—	—	99,216
Issuance of Series C-1 Preferred Units, net of issuance costs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	96,575,116	615,715	—	—	615,715
Conversion of debt into Series C-1 Preferred Units, net of issuance costs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,097,477	19,748	—	—	19,748
Net Loss	(125,960)	—	—	(125,960)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Foreign Currency Translation Adjustment	—	474	—	474	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Changes in fair value of liabilities under fair value option attributable to changes in instrument specific credit risk	—	(6,220)	—	(6,220)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Reclassification of OCI for conversion of C-1 and C-2 Notes	—	4,873	—	4,873	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Balance, December 31, 2024	\$ (846,567)	\$ 6	—	\$ (846,561)	3,128,026	\$1,800	13,960,705	\$90,859	90,625,588	\$218,408	8,808,351	\$21,477	11,643,171	\$101,382	37,093,420	\$230,987	99,672,593	\$635,463	—	—	\$1,300,376
Unit-based compensation	—	—	12,167	12,167	—	—	2,877,500	2,494	—	—	—	—	—	—	—	—	—	—	—	—	2,494
Issuance of Series C-1 Preferred Units, net of issuance costs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,235,521	51,252	—	—	51,252
Conversion of C-2 Notes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,870,172	34,810	—	—	—	—	34,810
Issuance of Series D Preferred Units, net of issuance costs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	48,154,955	677,623	677,623
Net Loss	(389,778)	—	—	(389,778)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Foreign Currency Translation Adjustment	—	(888)	—	(888)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Changes in fair value of liabilities under fair value option attributable to changes in instrument specific credit risk	—	765	—	765	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Balance, December 31, 2025	<u>\$ (1,236,345)</u>	<u>\$ (117)</u>	<u>\$ 12,167</u>	<u>\$ (1,224,295)</u>	<u>3,128,026</u>	<u>\$1,800</u>	<u>16,838,205</u>	<u>\$93,353</u>	<u>90,625,588</u>	<u>\$218,408</u>	<u>8,808,351</u>	<u>\$21,477</u>	<u>11,643,171</u>	<u>\$101,382</u>	<u>39,963,592</u>	<u>\$265,797</u>	<u>107,908,114</u>	<u>\$686,715</u>	<u>48,154,955</u>	<u>\$677,623</u>	<u>\$2,066,555</u>

X-ENERGY REACTOR COMPANY, LLC
CONSOLIDATED STATEMENTS OF CASH FLOWS
(in thousands)

	Year Ended December 31,	
	2025	2024
Cash flows from operating activities:		
Net loss	\$(389,778)	\$(125,960)
Adjustments to reconcile net loss to net cash used in operating activities:		
Depreciation and amortization	1,390	913
Unit-based compensation	14,137	1,150
Loss on extinguishment of debt	—	7,380
(Gain) loss on conversion of C-1 & C-2 Notes	4,023	(2,757)
Non-cash selling, general, and administrative expenses	—	55,252
Payable in-kind interest	—	3,792
Mark-to-market loss (gain) on warrant liabilities	223,532	(7,887)
Mark-to-market loss on C-1 & C-2 Notes	13,015	9,113
Mark-to-market gain on derivative liabilities	—	(10,065)
Mark-to-market gain on 2024 Financial Instrument	—	(12,266)
Reclassification of OCI for conversion of C-1 & C-2 Notes	—	4,873
Amortization of deferred financing costs, debt discount, and other	975	11,857
Accretion and amortization on investments	(277)	—
Changes in operating assets and liabilities:		
Accounts receivable and unbilled receivables	(24,804)	16,044
Prepaid and other current assets	(4,026)	(1,416)
Due from related parties	11,394	(12,466)
Operating lease right-of use assets	2,439	2,636
Accounts payable and accrued liabilities	8,736	(21,301)
Long-term deferred revenue	15,153	—
Payment of payable-in-kind interest	—	(4,147)
Other long-term assets	(18,180)	206
Due to related parties	(4,255)	(9,668)
Operating lease liabilities	(3,334)	(1,442)
Net cash used in operating activities	\$(149,860)	\$ (96,159)
Cash flows from investing activities:		
Capital expenditures	(117,236)	(4,162)
Reimbursement of capital expenditures under government grant	54,838	2,297
Purchase of investments	(565,946)	—
Net cash used in investing activities	\$(628,344)	\$ (1,865)
Cash flows from financing activities:		
Repayments on bridge loans	—	(53,800)
Borrowings on bridge loans	—	49,598
Repayments on lines of credit	—	(98,843)
Borrowings from lines of credit	—	89,455
Payments of mezzanine equity issuance costs	(25,274)	(10,760)
Payment of debt issuance costs	(504)	(3,793)
Payment of deferred transaction costs	(1,016)	—
Proceeds from issuance of Preferred Units	752,924	626,483
Net cash provided by financing activities	\$ 726,130	\$ 598,340
Net effect of exchange rate	104	(114)
Net increase (decrease) in cash, cash equivalents, and restricted cash	(51,970)	500,202
Cash, cash equivalents and restricted cash at beginning of period	514,600	14,398
Cash, cash equivalents and restricted cash at end of period	\$ 462,630	\$ 514,600

X-ENERGY REACTOR COMPANY, LLC
NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

NOTE 1 — ORGANIZATION AND NATURE OF BUSINESS

Company Overview

X-Energy Reactor Company, LLC (“X-energy” or the “Company” or “its”) is a Delaware limited liability company formed on December 14, 2018, and is the successor for financial reporting purposes of X-energy, LLC, a Maryland limited liability company founded in 2009. The Company is headquartered in Rockville, Maryland. The Company is a developer of advanced small modular nuclear reactors and fuel technology for clean energy generation.

NOTE 2 — SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND RECENT ACCOUNTING PRONOUNCEMENTS

Basis of Presentation

The consolidated financial statements for X-Energy Reactor Company, LLC as of and for the years ended December 31, 2025 and 2024, include the accounts of the Company’s wholly owned and consolidated subsidiaries. The consolidated financial statements have been prepared pursuant to the accounting principles generally accepted in the United States of America (“U.S. GAAP”). All intercompany balances and transactions have been eliminated in consolidation.

Use of Estimates

The preparation of the Company’s financial statements in conformity with U.S. GAAP requires estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosures of contingent assets and liabilities as of the date of the financial statements and the reported amounts of revenues and expenses for the reporting period. Some of the more significant estimates include the valuation of unit-based compensation, preferred units, profits interests units (“PIUs”), and warrants. Due to the inherent uncertainty involved in making estimates, actual results could differ from those estimates which could have a material effect on the financial condition and results of operations in future periods.

The Company bases its estimates and assumptions on historical experience and other factors, including the current economic environment and various other judgments that it believes to be reasonable under the circumstances. The Company adjusts such estimates and assumptions when facts and circumstances dictate. Changes in those estimates resulting from continuing changes in the economic environment will be reflected in the financial statements in future periods.

Certain Significant Risks and Uncertainties

Financial instruments that potentially subject the Company to concentrations of credit risk consist principally of cash and cash equivalents, accounts receivable, and short and long-term investments. By their nature, all such financial instruments involve risks, including the credit risk of nonperformance by counterparties. The Company generally does not require collateral to support the obligations of the counterparties and cash levels held at banks may be in excess of federally insured limits. The Company limits its exposure to credit loss by maintaining its cash and cash equivalents and investments at highly rated financial institutions and investing in US Government securities and high credit quality issuers. Further, the Company’s revenue and credit relationships are primarily concentrated within the United States Government which represents a concentration risk but a low credit risk.

For the years ended December 31, 2025 and 2024, two customers, the United States Government and The Dow Chemical Company (“Dow”) accounted for 87% and 6%, and 74% and 22%, respectively, of the Company’s total revenue and grant income. Refer to Note 3 — Revenue Recognition for further disaggregation of revenue and grant income by customer for the years ended December 31, 2025 and 2024.

As of December 31, 2025 and 2024, the Company's receivable balances related to services revenue and government grants with the United States Department of Energy ("DoE") and United States Department of Defense ("DoD") are as follows (in thousands). Refer to Note 14 — Related Party Transactions for further information on receivable balances with Dow.

	December 31, 2025	December 31, 2024
Accounts Receivable		
DoE	\$23,628	\$ —
Unbilled Receivables and Contract Assets		
DoE	\$39,644	\$23,794
DoD	1,091	2,690

Cash and Cash Equivalents

Cash and cash equivalents consist primarily of cash deposits, cash held in financial institutions and short-term investments purchased with an original maturity of three months or less. The carrying value of cash equivalents approximates fair value because of the short-term nature of these investments. The Company maintains its cash in bank deposit accounts with high credit quality financial institutions which, at times, may exceed the federally insured limit. The Company does not believe it is exposed to any significant credit risk regarding these deposits.

The components of cash, cash equivalents, and restricted cash as of December 31, 2025 and 2024 are as follows (in thousands):

	December 31, 2025	December 31, 2024
Cash and cash equivalents	\$458,932	\$514,600
Restricted cash	3,698	—
Cash, cash equivalents, and restricted cash as presented in the Statement of Cash Flows	<u>\$462,630</u>	<u>\$514,600</u>

Investments

The Company classifies all debt investments as held to maturity and are reported at amortized cost, net of any allowance for credit losses. The Company does not intend to sell the investments and it is not more likely than not that the Company will be required to sell the investments before their maturity. The related interest income, including amortization of premiums and accretion of discounts, is included in Interest income in the consolidated statements of operations.

Held to maturity investments are classified within Level 1 of the fair value hierarchy for those investments that are valued using inputs at quoted prices for identical assets in active markets and Level 2 for those investments that are valued using inputs other than quoted prices in active markets for identical assets that are observable either directly or indirectly.

Accounts Receivable

Accounts receivable are presented at the invoiced receivable amounts, less any allowance for any potential expected uncollectible amounts, and do not bear interest. The Company estimates allowance for credit losses based on the credit worthiness of each customer, historical collections experience, forward-looking information, adverse situations that may affect a customer's ability to pay, and both microeconomic and macroeconomic factors. The Company grants uncollateralized credit in the form of accounts receivable to its customers. The Company's receivables are heavily concentrated from the United States Government, specifically the DoE. Historically, the Company has not experienced any significant credit-related losses, and management does not believe that any government agencies represent a significant credit risk. Accordingly, historical write-offs of accounts receivable have not occurred and as of December 31, 2025 and 2024, no reserve was recorded.

Customer payments on contracts are typically due within 30 days of billing, depending on the contract.

Prepaid Costs

Prepaid costs, primarily consisting of prepaid service fees, software and other general prepayments, amounted to \$7.5 million and \$2.9 million as of December 31, 2025 and 2024, respectively. We also make deposits to vendors for long-lead materials. As of December 31, 2025, the Company made \$17.0 million in deposits related to long-lead materials, which is included in other long-term assets on the consolidated balance sheets.

Transaction and Financing Costs

The Company has recorded deferred financing costs incurred in conjunction with its debt obligations that are held at amortized cost. The Company amortizes deferred financing costs over the remaining life of the related debt and records the amortization within interest expense in the consolidated statements of operations.

In connection with the issuance and amendment of debt, the Company incurred third-party debt issuance costs in the amount of \$0.5 million and \$2.9 million during the years ended December 31, 2025 and 2024, respectively. The debt issuance costs are treated as a debt discount and are amortized over the term of the related loan. During the years ended December 31, 2025 and 2024, \$0.5 million and \$4.8 million, respectively, of amortization expense related to the discount created from the deferred financing costs was recorded to Interest expense in the consolidated statements of operations.

The Company records transaction costs incurred in conjunction with the issuance of preferred units as a reduction of mezzanine equity on the consolidated balance sheets. For the years ended December 31, 2025 and 2024, the Company incurred \$2.2 million and \$11.1 million, respectively, in issuance costs associated with the issuance of the Series C-1 Preferred Units. Additionally, during the year ended December 31, 2025, the Company incurred \$22.4 million in issuance costs associated with the issuance of the Series D Preferred Units.

The Company capitalizes qualified legal, accounting, and other direct and incremental costs related to the potential public offering transaction and began incurring such costs in 2025. These costs were \$3.9 million as of December 31, 2025 and are included in Prepaid and other current assets on the consolidated balance sheet.

Property and Equipment, Net

Property and equipment, net is stated at cost, less accumulated depreciation and amortization and any accumulated impairments. Depreciation and amortization is recognized using the straight-line method over the following estimated useful lives of assets and is recorded within selling, general, and administrative expenses on the consolidated statements of operations and comprehensive loss:

Asset	Useful Life
Equipment and materials	5 – 35 years
Computer equipment and software	3 – 5 years
Office furniture and fixtures	2 – 7 years
Leasehold improvements	Shorter of lease term or 10 years

The costs of maintenance and repairs that do not materially prolong the useful life of an asset are expensed as incurred. Asset betterments are capitalized. Costs for property and equipment not yet placed into service, including advance payments for materials and equipment and payments made in accordance with contractual progress milestones, are capitalized as construction-in-progress and will be depreciated in accordance with the above guidelines once placed into service.

Impairment of Long-Lived Assets

Long-lived assets are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset or group of assets may not be recoverable. Such events or circumstances may

include significant decreases in the market price of the asset, significant adverse changes in the business climate or legal factors, accumulation of costs significantly in excess of the amount originally expected for the acquisition or construction of the asset, current period cash flow or operating losses combined with a history of losses or a forecast of continuing losses associated with the use of the asset, or a current expectation that the asset will more likely than not be sold or disposed of significantly before the end of its estimated useful life. If an impairment indicator is present, the Company evaluates recoverability by comparing the carrying amount of the asset to its future undiscounted net cash flows. If the carrying value of a long-lived asset is not recoverable, it is impaired, and the impairment loss is measured as the difference between the carrying value of the asset and its fair value. No impairment losses were recognized for the years ended December 31, 2025 and 2024.

Leases

The Company leases facilities including office space under non-cancelable lease contracts with terms greater than 12 months and the Company has classified these leases as operating leases. The Company does not have any material finance leases. When determining lease term, the Company considers any options to extend or terminate the lease when it is reasonably certain the Company will exercise such options.

The Company elected to account for lease and non-lease components related to office space as a single lease component. Leases with an initial term of 12 months or less are not included within the lease right-of-use ("ROU") assets and lease liabilities recognized on the consolidated balance sheets, and instead the lease payments for those short-term leases are recognized on a straight-line basis over the lease term.

Lease ROU assets are calculated as the net present value of future payments plus any capitalized initial direct costs less any tenant improvements or lease incentives. Lease liabilities are calculated as the net present value of future payments. For leases that do not provide an implicit interest rate, the Company uses the incremental borrowing rate to calculate the lease liability. Upon lease modification, the Company remeasures the ROU asset and lease liability as of the modification date.

Lease expense for minimum operating lease payments is recognized on a straight-line basis over the lease term. Any variable non-lease components are not included within the lease ROU asset and lease liability on the consolidated balance sheets and instead are reflected as an expense in the period incurred.

Deferred Revenue

The Company recognizes a contract liability, referred to as deferred revenue in its consolidated financial statements, when the Company receives a payment from customers, or has an unconditional right to consideration, for services that have yet to be performed. Refer to Note 3 — Revenue Recognition for further discussion on deferred revenue balances.

Financial Instruments and Fair Value Measurements

The Company estimates fair value based on assumptions that active market participants would use in pricing an asset or liability in the principal or most advantageous market. When considering market participant assumptions in fair value measurements, the following fair value hierarchy distinguishes between observable and unobservable inputs. Fair value measurements are categorized according to the criteria below based on the lowest level of input that is significant to the overall fair value measurement of the instrument:

- Level 1 inputs: Quoted prices (unadjusted) in active markets for identical assets or liabilities that the reporting entity can access at the measurement date;
- Level 2 inputs: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly; and
- Level 3 inputs: Unobservable inputs for the asset or liability. These are used to measure fair value to the extent those observable inputs are not available, thereby allowing for situations in which there is minimal, if any, market activity for the asset or liability at the measurement date.

The carrying amount reflected in the Company's consolidated balance sheets for accounts receivable and accounts payable approximate fair value due to the short-term maturities of these instruments. Refer to

Note 13 — Fair Value Measurements for the financial assets and liabilities that are recorded at fair value on a recurring basis within the consolidated balance sheets.

Loss Contingencies

The Company accrues liabilities for loss contingencies when it is probable that a loss has been incurred on account of investigations, litigation, disputes, or claims related to its business activities and the amount of loss is reasonably estimable. When the amount of loss cannot be reasonably estimated, the Company will disclose contingent liabilities when there is a reasonable possibility that a loss or additional loss may have been incurred. The Company's future earnings could be affected by changes in the assessments of the probability of a loss or changes in the estimates related to such matters.

Revenue and Cost Recognition

For the years ended December 31, 2025 and 2024, the Company generated all of its services revenue from contracts with customers, a substantial portion of which was generated from contracts with the U.S. Government. A majority of the Company's contracts with the U.S. Government are generally subject to the Federal Acquisition Regulation and are priced based on estimated costs of providing the contractual services.

The Company accounts for a contract when the parties have approved the contract and are committed to perform on it, the rights of each party and the payment terms are identified, the contract has commercial substance, and collection of substantially all of the consideration is probable.

The Company evaluates if its contracts are in the scope of Accounting Standards Codification ("ASC") 606, Revenue from Contracts with Customers, or other guidance or a combination. For contracts partially in the scope of other guidance, the Company separates and allocates the arrangement consideration to those components in accordance with ASC 606 unless the other guidance provides its own separation and allocation guidance.

At contract inception, the Company determines whether the services to be provided are to be accounted for as a single performance obligation or as multiple performance obligations. This evaluation requires professional judgment and may impact the timing and pattern of revenue recognition.

The Company's contracts may include variable consideration, such as adjustments to pricing based on performance or other contractual terms. Variable consideration is estimated at contract inception and updated throughout the contract term as additional information becomes available. The Company includes variable consideration in the transaction price only to the extent that it is probable that a significant reversal of cumulative revenue recognized will not occur when the uncertainty associated with the variable consideration is resolved.

The Company generally recognizes revenue over time throughout the performance period as the customer simultaneously receives and consumes the benefits provided on services-type revenue arrangements. The Company satisfies its performance obligation as services are rendered. An input method is used for cost-based contracts, based on the cost of services which correspond directly with the value of the Company's performance completed to date. For fixed-fee contracts, the Company applies an input method — specifically the cost-to-cost approach — where revenue is recognized in proportion to costs incurred, reflecting progress towards complete satisfaction of the performance obligation.

Contract modifications are reviewed to determine whether they should be accounted for as part of the original performance obligation or as a separate contract. When a contract modification changes the scope or price and the additional performance obligations are at their standalone selling price, the original contract is terminated and the Company accounts for the change prospectively when the new services to be transferred are distinct from those already provided. When the contract modification includes services that are not distinct from those already provided, the Company records a cumulative adjustment to revenue based on a remeasurement of progress towards the complete satisfaction of the not yet fully delivered performance obligation.

The Company utilizes other parties in the performance of some services. Based on the Company's evaluation using a control model, the Company determined that in all of its performance obligations, it serves

as a principal rather than an agent within its revenue arrangements. Revenue and the associated expenses are both reported on a gross basis within the consolidated statements of operations and comprehensive loss.

Government Grants

Under the Company's accounting policy for government grants, which is consistent with the International Accounting Standard 20 ("IAS 20") Accounting for Government Grants and Disclosure of Government Assistance, the Company recognizes government grants when there is reasonable assurance that the Company will comply with the conditions attached to the grant arrangement and the grant will be received. This assessment is performed for each grant as of each reporting period. Amounts received in advance of the Company incurring eligible expenses are recorded as deferred grant income within long-term deferred revenue until the eligible expense is incurred.

For grants related to assets, the Company has elected to record such grants as a deduction in the carrying value of the asset. For grants related to income, the Company has elected to record such grants as income separately from revenues on the Consolidated Statements of Operations and Comprehensive Loss as the goods and services provided for under the grant are consistent with the operating activities of the Company. The expenses related to grant income are recorded on a gross basis as direct costs.

Grant income and direct costs related to activities of third parties including subcontractors and sub-awardees are recorded on a gross basis when the Company has the power to redirect the funds from grantor to a different party, or retain those funds itself, in order to meet the conditions of the grant. Factors considered include, but are not limited to, whether the Company is responsible for and has discretion over whether to engage third parties, which third parties to engage and on what terms.

Direct Costs

Direct costs on the consolidated statements of operations and comprehensive loss include all costs directly attributable to providing services under contracts with customers and grants related to income, such as direct labor, direct materials and subcontracting costs. Indirect costs are allocated to direct costs in the same manner as such costs are defined in disclosure statements under U.S. Government Cost Accounting Standards.

Selling, General and Administrative Expense

Selling, general and administrative expenses consist of human capital related expenses for employees involved in general corporate functions; rent relating to the Company's office space; professional fees; and other general corporate costs.

Unit-Based Compensation

Unit-based compensation represents costs related to unit-based awards granted to employees and members of the Board of Directors. The Company recognizes unit-based compensation, utilizing the accelerated attribution method, based upon the estimated fair value of awards on the grant date for equity classified awards. Forfeitures are accounted for as they occur. The recognition period for these costs begins at either the applicable service inception date or grant date and continues throughout the requisite service period. Due to the contingently redeemable nature of Class B Common Units (inclusive of the Class B-1 Common Units and Class B-2 Common Units, as discussed in Note 11 — Member Units and Preferred Units and Note 12 — Unit-Based Compensation Expense), the Company classifies these units as mezzanine equity and records the redemption value as of the grant date for vested awards within mezzanine equity on the consolidated balance sheets.

Research and Development

The Company conducts research and development activities related to the development and improvement of technologies pertaining to nuclear reactor and fuel design engineering. The costs incurred for conducting the research and development primarily include equipment, material, and labor hours. Such costs of research and development are expensed in the period incurred.

Other Income (Expense), Net

Other income (expense), net for the years ended December 31, 2025 and 2024 consists of the following (in thousands):

	Year Ended December 31,	
	2025	2024
Foreign currency transaction gain (loss)	\$ 924	\$ (685)
Mark-to-market loss on C-1 & C-2 Notes ⁽¹⁾	(13,015)	(9,113)
Gain (loss) on conversion of C-1 & C-2 Notes ⁽¹⁾	(4,023)	2,757
Mark-to-market gain (loss) on warrant liabilities ⁽¹⁾	(223,532)	7,887
Mark-to-market gain on embedded derivatives ⁽¹⁾	—	10,065
Mark-to-market gain on 2024 Financial Instrument ⁽¹⁾	—	12,266
Reclassification of OCI for conversion of C-1 & C-2 Notes ⁽¹⁾	—	(4,873)
Loss on extinguishment of debt ⁽¹⁾	—	(7,380)
Other income (expense)	345	(15)
Total other income (expense), net	<u><u>\$ (239,301)</u></u>	<u><u>\$ 10,909</u></u>

(1) Refer to Note 7 — Debt

Foreign Currency Translation

The functional currency of the Company's foreign operations is the reported local currency. Translation adjustments result from translating the Company's foreign subsidiaries' financial statements into United States dollars. The balance sheet accounts of the Company's foreign subsidiaries are translated into United States dollars using the exchange rate in effect at the balance sheet date. Revenue and expenses are translated using average exchange rates for each month during the fiscal year. The resulting translation gains or losses are recorded as a component of accumulated other comprehensive income (loss) in members' deficit. The foreign currency gains and losses are not material for the periods presented.

Income Taxes

The Company is a limited liability company which is classified as a partnership for U.S. federal and state income tax purposes. Accordingly, the Company's U.S. operations are not subject to income taxes in the U.S. The Company's owners separately account for their pro rata share of the Company's income, deductions, losses and credits annually. The Company's foreign operations are subject to income taxes in the foreign jurisdictions in which they operate. Income tax expense and benefit were immaterial for the years ending December 31, 2025 and 2024.

On July 4, 2025, the One Big Beautiful Bill Act ("OBBBA") was signed into law. The legislation was a sweeping tax and spending law which makes permanent many provisions of the 2017 Tax Cuts and Jobs Act, while introducing new tax policies and restructuring others. OBBBA does not currently have a material impact to the Company.

Other Comprehensive Income (Loss)

Other comprehensive income (loss) refers to revenues, expenses, gains, and losses that under U.S. GAAP are included in comprehensive income but excluded from net income. The components of the Company's other comprehensive income (loss) consist of foreign currency translation adjustments, the reclassification of other comprehensive income for the conversion of the C-1 and C-2 Notes, and the change in fair value of financial liabilities accounted for pursuant to the fair value option attributable to changes in instrument-specific credit risk.

The components of accumulated other comprehensive income for the years ended December 31, 2025 and 2024 are as follows (in thousands):

	Changes in fair value of liabilities under fair value option attributable to changes in instrument specific credit risk	Foreign currency translation adjustment	Total
Accumulated other comprehensive income (loss), balance at January 1, 2024	\$ 582	\$ 297	\$ 879
Other comprehensive income (loss)	(6,220)	474	(5,746)
Reclassification of OCI for conversion of C-1 and C-2 Notes	4,873	—	4,873
Accumulated other comprehensive income (loss), balance at December 31, 2024	\$ (765)	\$ 771	\$ 6
Other comprehensive income (loss)	765	(888)	(123)
Accumulated other comprehensive income (loss), balance at December 31, 2025	\$ —	\$ (117)	\$ (117)

Accounting Standards Not Yet Adopted

In December 2023, the FASB issued ASU No. 2023-09, *Income Taxes (Topic 740): Improvements to Income Tax Disclosures* (“ASU 2023-09”), to enhance the transparency and decision usefulness of income tax disclosures. ASU 2023-09 is effective for annual periods beginning after December 15, 2025 on a prospective basis and early adoption is permitted. The Company is currently evaluating the impact of the adoption of this standard on its disclosures.

In March 2024, the FASB issued ASU No. 2024-01, *Compensation — Stock Compensation: Scope Application of Profits Interest and Similar Awards* (“ASU 2024-01”), which clarifies the scope application for profits interest awards and similar awards and provides illustrative examples intended to reduce diversity in practice in determining whether such awards should be accounted for under Topic 718. For public business entities, ASU 2024-01 is effective for annual reporting periods, including interim periods within those annual periods, beginning after December 15, 2024; for all other entities, the ASU is effective for annual reporting periods, including interim periods within those annual periods, beginning after December 15, 2025; early adoption is permitted for all entities. The Company is currently evaluating the impact of the adoption of this standard on its consolidated financial statements and related disclosures.

In November 2024, the FASB issued ASU No. 2024-03, *Income Statement — Reporting Comprehensive Income — Expense Disaggregation Disclosures (Subtopic 220-40): Disaggregation of Income Statement Expenses* (“ASU 2024-03”), and in January 2025, the FASB issued ASU No. 2025-01, *Income Statement — Reporting Comprehensive Income — Expense Disaggregation Disclosures (Subtopic 220-40): Clarifying the Effective Date*, which clarified the effective date of ASU 2024-03. ASU 2024-03 requires public business entities to provide enhanced disclosures about certain categories of expenses in the notes to the financial statements. The guidance is intended to improve the transparency and decision usefulness of expense information provided to financial statement users. The ASU is effective for fiscal years beginning after December 15, 2026, and interim periods within fiscal years beginning after December 15, 2027. Early adoption is permitted. The Company is currently evaluating the impact of this standard on its disclosures.

In November 2024, the FASB issued ASU No. 2024-04, *Debt with Conversion and Other Options (Subtopic 470-20): Induced Conversions of Convertible Debt Instruments* (“ASU 2024-04”), which clarifies the assessment of whether certain settlements of convertible debt instruments should be accounted for as an inducement conversion or extinguishment of convertible debt. ASU 2024-04 is effective for annual periods beginning after December 15, 2025 on either a prospective or retrospective basis and early adoption is permitted. The Company’s outstanding convertible debt matured in September 2025, prior to the Company’s planned adoption date. Therefore, the Company does not expect the adoption of this standard to have an impact on its consolidated financial statements and related disclosures.

In May 2025, the FASB issued ASU No. 2025-04, *Compensation — Stock Compensation (Topic 718) and Revenue from Contracts with Customers (Topic 606): Clarifications to Share-Based Consideration Payable to a Customer* (“ASU 2025-04”). ASU 2025-04 refines key aspects of the guidance, including the definition of performance condition as well as the measurement requirements and the treatment of forfeitures. ASU 2025-04 is effective for annual periods beginning after December 15, 2026 on either a modified retrospective or a retrospective basis and early adoption is permitted. The Company is currently evaluating the impact of the adoption of this standard on its consolidated financial statements and related disclosures.

In July 2025, the FASB issued ASU No. 2025-05, *CECL Practical Expedient for Accounts Receivable and Contract Assets* (“ASU 2025-05”), which provides an optional practical expedient for estimating expected credit losses on certain current accounts receivable and contract assets arising from revenue transactions accounted for under Topic 606. ASU 2025-05 is effective for annual reporting periods beginning after December 15, 2025, and interim reporting periods within those annual periods. The Company is currently evaluating whether it will elect the practical expedient and the impact of adoption on its consolidated financial statements and related disclosures.

In December 2025, the FASB issued ASU No. 2025-10, *Government Grants (Topic 832): Accounting for Government Grants Received by Business Entities* (“ASU 2025-10”), which establishes comprehensive guidance for the recognition, measurement, and disclosure of government grants received by business entities. The ASU addresses both monetary and certain nonmonetary government grants and introduces new annual disclosure requirements regarding the nature, terms, and accounting policies related to such grants. ASU 2025-10 is effective for annual periods beginning after December 15, 2029 on either a modified prospective approach, modified retrospective approach, or retrospective approach and early adoption is permitted. The Company is currently evaluating the impact of the adoption of this standard on its consolidated financial statements and related disclosures.

NOTE 3 — REVENUE AND GRANT INCOME RECOGNITION

The Company recognizes revenue under contracts with customers to provide nuclear reactor and fuel design engineering services in the areas of research and development, systems engineering, and technology development. The Company’s revenues are generally derived from contract services predominantly performed for the U.S. Government and commercial entities. All revenues for the years ended December 31, 2025 and 2024 were recognized over time.

There are two main types of contracts: cost-based contracts and cost-plus fixed fee contracts. The total consideration in the Company’s contracts is paid in the form of incremental incurred cost reimbursements over time upon the delivery of the Company’s invoices.

The allowability of certain costs under government contracts is subject to audit by the government. Certain indirect costs are charged to contracts using provisional or estimated indirect rates, which are subject to later revision based on actual costs incurred and subject to government audits of those costs. The government has performed audits of the Company’s costs. Refer to Note 15 — Commitments and Contingencies, for further discussion of these cost audits.

Advanced Reactor Demonstrator Program

During the year ended December 31, 2021, the Company was named an awardee under the Department of Energy’s Advanced Reactor Demonstrator Program (“ARDP”). The objective of the ARDP is to accelerate the development and demonstration of advanced nuclear reactor technologies, focusing on designs that improve safety, efficiency, and economic viability for commercial deployment. Under the agreement, the Company will develop the Xe-100 demonstrator reactor and the TRISO-X commercial fuel fabrication facility through a public-private cost-share partnership. The DoE will obtain rights to the intellectual property (“IP”) developed under ARDP but will not obtain ownership of the demonstrator reactor or fuel facility. The DoE will fund a portion of the direct and indirect costs incurred for the research and development costs to develop the IP and the costs of developing and constructing both the TRISO-X fuel facility and Xe-100 demonstrator reactor. The program provides for an approximately 50% reimbursement of up to \$2.4 billion of eligible costs (\$1.2 billion reimbursement) through 2027. The funding is subject to future government appropriations which may not occur, and the government is able to cancel the contract at any time without incurring a substantive

penalty. Dow has been named a subawardee under the ARDP in connection with their involvement with the development and construction of the demonstrator reactor. The Company is constructing and will own the fuel facility.

The Company determined that the ARDP is partially in the scope of ASC 606 and partially in the scope of other guidance as the DoE only receives benefit from the development of the IP and does not receive benefit from construction of the demonstrator reactor or the fuel facility. The Company has allocated consideration between revenue and grant components of the ARDP on the basis of the stand-alone selling price of each of the components. The Company has analogized to IAS 20 to account for the component of the ARDP that is not within the scope of ASC 606 and deemed to be a government grant. The grant components consist of an asset grant and an income grant. The Company recognizes grants under ARDP as the Company incurs the eligible costs. Refer to Note 2 — Summary of Significant Accounting Policies and Recent Accounting Pronouncements and Note 5 — Government Grants for Property and Equipment.

Under the Company's separate agreement with Dow, certain costs incurred by Dow related to the demonstrator reactor are funded by the Company using funds obtained through the ARDP. The Company has recognized the funds received from the DoE and the costs incurred by Dow on a gross basis as grant income and direct costs, respectively. The Company has recognized \$6.2 million and \$5.6 million as grant income and \$5.3 million and \$4.6 million as direct costs during the years ended December 31, 2025 and 2024, respectively related to costs incurred by Dow for the demonstrator reactor. The Company also earns revenue from Dow as a customer for certain site specific engineering, permitting, and other services related to the demonstrator reactor. Refer to Note 14 — Related Party Transactions.

Disaggregated Revenues and Grant Income

A summary of revenues and grant income by customer type is as follows for the years ended December 31 (in thousands):

	Year Ended December 31,	
	2025	2024
Customer type:		
DoE ⁽¹⁾	\$ 89,396	\$ 78,029
DoD	5,444	10,705
Commercial	14,258	31,418
Total revenues and grant income	\$109,098	\$120,152

- (1) For the year ended December 31, 2025, \$74.6 million is classified as services revenue and \$14.8 million is classified as grant income. For the year ended December 31, 2024, \$41.8 million is classified as services revenue and \$36.2 million is classified as grant income.

A summary of revenues and grant income by contract type is as follows for the years ended December 31 (in thousands):

	Year Ended December 31,	
	2025	2024
Contract type:		
Cost-based ⁽¹⁾	\$ 96,340	\$104,876
Fixed fee	2,358	2,674
Cost plus fixed fee	5,308	11,954
Time & materials	5,092	648
Total revenues and grant income	\$109,098	\$120,152

- (1) For the year ended December 31, 2025, \$81.5 million is classified as services revenue and \$14.8 million is classified as grant income. For the year ended December 31, 2024, \$68.7 million is classified as services revenue and \$36.2 million is classified as grant income.

Revenues and Grant Income by Geographic Location

The Company has revenues and grant income in the following countries for the years ended December 31 (in thousands):

	Year Ended December 31,	
	2025	2024
Customer Location:		
United States	\$108,584	\$118,803
Canada	69	645
United Kingdom	445	704
Total Revenues and Grant Income	\$109,098	\$120,152

Contract Balances

The timing of revenue recognition, billings, and cash collections results in billed accounts receivable, unbilled receivables (amounts billable where the right to consideration is unconditional), contract assets (for which certain conditions must be satisfied before the right to bill is obtained), and contract liabilities (customer advances and deposits) on the consolidated balance sheets. Amounts are billed as work progresses in accordance with agreed-upon contractual terms, either at periodic intervals (e.g., biweekly or monthly) or upon achievement of contractual milestones. Generally, billing occurs subsequent to revenue recognition, resulting in unbilled receivables. However, the Company sometimes receives advances or deposits from its customers, or bills customers where it has an unconditional right to consideration before revenue is recognized, resulting in contract liabilities. These liabilities are reported on the consolidated balance sheets on a contract-by-contract basis at the end of each reporting period.

Contract liabilities as of December 31, 2025 and 2024 include deferred revenue. As of December 31, 2025, the Company has deferred revenue of \$15.3 million, of which \$15.2 million is recorded within long-term deferred revenue and \$0.1 million is recorded in accrued liabilities. Long-term deferred revenue attributable to related parties is \$2.4 million. During the year ended December 31, 2025, \$1.1 million of revenue was recognized that had previously been deferred. As of December 31, 2024, the Company has deferred revenue of \$1.1 million, of which \$0.3 million is recorded within accrued liabilities and \$0.8 million is recorded within due to related parties, and long-term deferred revenue of zero.

Contract assets represent revenue recognized that exceeds the amount billed to the customer and excludes amounts billable where the right to consideration is solely subject to the passage of time. As of December 31, 2025, the Company has contract assets of \$7.5 million, which is recorded within unbilled receivables and contract assets and is not associated with related parties. As of December 31, 2024, the Company has contract assets of \$9.5 million, of which \$7.6 million is recorded within unbilled receivables and contract assets and \$1.9 million is recorded within due from related parties.

Remaining Performance Obligation

Remaining performance obligations represent non-cancelable contracted revenue that has not yet been recognized and will be recognized as revenue in future periods. The Company has elected to apply the exemption for the disclosure of remaining performance obligations as the Company's contracts are one year or less in duration.

NOTE 4 — PROPERTY AND EQUIPMENT, NET

Property and equipment, net consists of the following (in thousands):

	December 31,	
	2025	2024
Equipment and materials	\$ 2,335	\$ 2,335
Computer equipment and software	3,760	1,131
Office furniture and fixtures	355	302
Leasehold improvements	2,708	2,480
Land	1,697	—
Construction-in-progress	42,839	1,778
Property and equipment at cost ⁽¹⁾	53,694	8,026
Accumulated depreciation	(3,589)	(2,198)
Property and equipment, net	\$50,105	\$ 5,828

(1) Net of reimbursement from the United States Government.

All of the Company's property and equipment is located within the United States.

NOTE 5 — GOVERNMENT GRANTS FOR PROPERTY AND EQUIPMENT

During the years ended December 31, 2025 and 2024, the Company received reimbursements from the DoE under the ARDP related to construction of its nuclear fuel fabrication facility. During the year ended December 31, 2025, the Company also received reimbursements from the DoE under the ARDP related to the purchase of a building for its reactor testing facility. The Company recognizes the grant from the DoE at the time in which the costs are incurred in compliance with the conditions of the grant, which were \$75.5 million and \$7.7 million for the years ended December 31, 2025 and 2024, respectively.

NOTE 6 — ACCRUED LIABILITIES

The following table sets forth the components of accrued liabilities (in thousands):

	December 31,	
	2025	2024
Operating lease liabilities	\$ 2,344	\$ 2,486
Accrued payroll and related expenses	21,735	13,336
Accrued subcontractor costs	18,160	17,331
Accrued financing costs	—	354
Accrued transaction costs	2,926	—
Incurring cost audits reserve (Note 15)	1,068	—
Accrued professional fees	3,423	954
Accrued liabilities – other	1,561	918
Total accrued liabilities	\$51,217	\$35,379

NOTE 7 — DEBT

The Company's outstanding debt as of December 31, 2024 was attributable to the Company's C-2 Notes (defined below) and was classified as short-term. The fair value of the C-2 Notes outstanding as of December 31, 2024 equates to the carrying value as the Company elected to apply the fair value option to the measurement of the C-2 Notes. No debt was outstanding at December 31, 2025.

Live Oak Credit Facility

On June 14, 2021, the Company and one of its subsidiaries entered into a revolving credit facility with Live Oak Bank (the “Live Oak Credit Facility”) with maximum borrowings of up to \$15.0 million, subject to an asset-based borrowing base based on eligible accounts receivable, net of lender reserves. The Company incurred lender and third-party fees and a 0.25% commitment fee on the unused portion of the revolving commitment; such fees were immaterial for the years ended December 31, 2025 and 2024.

The obligations under the Live Oak Credit Facility were guaranteed by the Company and its wholly owned domestic subsidiaries and were secured by a first priority security interest in substantially all of the Company’s and such subsidiaries’ equipment, accounts receivable, investment property and general intangibles (and related proceeds), as well as 100% of the common equity interests of the Company’s domestic subsidiaries. The facility could be prepaid without premium or penalty, and mandatory prepayments were required in certain customary circumstances.

Borrowings under the Live Oak Credit Facility bore interest at a floating rate indexed to the Prime rate plus 1.0%, subject to a 4% floor. Interest expense associated with the facility was \$0.4 million for the year ended December 31, 2024.

The facility was amended during 2024 to extend its maturity to October 31, 2024, at which time it matured with no outstanding borrowings following repayment of the outstanding principal in October 2024. The Company reestablished the facility on May 9, 2025 with an expiration date of December 1, 2025; there were no draws during the year ended December 31, 2025, and the facility matured on December 1, 2025 with no outstanding borrowings.

C-1 Convertible Notes

In 2022, the Company issued convertible promissory notes (“C-1 Notes”) with aggregate principal of \$57.4 million and a 7.00% annual interest rate. The C-1 Notes contained embedded derivatives which, absent the election of the fair value option, would have been bifurcated and accounted for at fair value. Accordingly, the Company elected the fair value option and classified the C-1 Notes as a liability at fair value, remeasuring them at each reporting period with changes in fair value recorded in other expense, net (except for the portion attributable to instrument-specific credit risk, which was recorded in other comprehensive income).

On December 5, 2023, \$37.4 million principal was automatically converted into 5,957,402 Series C Preferred Units at a discounted price per unit of \$7.94 in connection with a qualified equity financing.

On March 29, 2024, the remaining \$20.0 million principal was converted into 3,210,405 Series C Preferred Units. In connection with this conversion, the Company issued 757,135 Class B Common Units and entered into a Letter Agreement with a related party investor creating a contingent reimbursement obligation (the “2024 Financial Instrument”) whereby the Company would reimburse the investor for payments made to former C-1 note holders if certain conditions related to a future financing were not met. The 2024 Financial Instrument was accounted for as a liability remeasured at each reporting date with changes in fair value recorded in other income (expense), net. The March 2024 conversion was accounted for as an induced conversion, resulting in recognition of an inducement expense of \$14.8 million in other expense, net which included the value of the Class B Common units and 2024 Financial Instrument. Additionally, warrants previously issued in connection with the C-1 Notes were exercised for 582,094 Series C Preferred Units.

C-2 Convertible Notes

In 2022 and 2023, the Company issued convertible notes payable in an aggregate principal amount of \$28.0 million and \$85.0 million (“C-2 Notes”), respectively, of which \$70.0 million of the C-2 Notes were issued to related parties. The C-2 Notes were due on September 30, 2025 and accrued 10.0% of payable-in-kind interest annually. The C-2 Notes provided holders with conversion rights into equity securities under certain conditions, including upon an IPO or at the holder’s election after August 4, 2023.

The Series C-2 Convertible Notes contained embedded derivatives which, absent the election of the fair value option, would have been bifurcated and accounted for at fair value. Accordingly, the fair value option was elected. The Company classified the C-2 Notes as a liability at fair value and remeasured the C-2 Notes to

their fair value at each reporting period, with the portion of the change in fair value attributable to instrument-specific credit risk recorded within other comprehensive income (loss), and the remaining change in fair value recorded within other income (expense), net. As the fair value option was elected, issuance costs associated with the C-2 Notes were expensed in the period incurred. Refer to Note 13 — Fair Value Measurements for further information on the remeasurement of the C-2 Notes.

On October 11, 2024, certain of the C-2 Notes with an aggregate principal balance of \$98.0 million converted into 16,960,021 Series C Preferred Units, which was accounted for as a debt extinguishment. Such extinguishment resulted in a gain on debt extinguishment of \$17.6 million for the year ended December 31, 2024, which was recorded in other income (expense), net in the consolidated statements of operations. Further, since the C-2 Notes were historically accounted for by applying the fair value option, in accordance with ASC 825-10, the Company included in net loss the \$6.1 million cumulative loss previously recorded in other comprehensive income (loss) for the extinguished C-2 Notes that resulted from changes in instrument-specific credit risk.

As of December 31, 2024, the outstanding principal, inclusive of payable-in-kind interest, on the C-2 Notes was \$18.4 million and the fair value was \$18.5 million, resulting in a cumulative loss of \$0.1 million.

On September 30, 2025, the outstanding principal and unpaid accrued interest on the C-2 Note were converted into 2,870,172 Series C Preferred Units, resulting in the extinguishment of the C-2 Note. Therefore, as of December 31, 2025, there was no outstanding principal on the C-2 Notes, and the cumulative loss recognized on the C-2 Notes was \$4.0 million for the year ended December 31, 2025, which was recorded in other income (expense), net in the consolidated statements of operations.

2023 Bridge Loan

On October 4, 2023, the Company entered into a credit agreement (the “2023 Bridge Loan”) with a related party, Ares Acquisition Holdings, LP for a \$10.0 million term loan. In addition, subject to the mutual agreement of Ares Acquisition Holdings, LP, additional draws of up to \$10.0 million per calendar month were available to the Company and the Company made additional draws of \$14.2 million in 2023.

The annual interest rate on the 2023 Bridge Loan was 12.0%. For the year ended December 31, 2024, interest expense of \$3.0 million with the 2023 Bridge Loan was recorded within interest expense on the consolidated statements of operations. The interest was payable in-kind and increased the outstanding principal amount of the 2023 Bridge Loan.

During 2024, the Company entered into a series of amendments to the 2023 Bridge Loan, which, among other things, extended the maturity date to March 26, 2025. The Company concluded that each of the amendments to the 2023 Bridge Loan constituted, for accounting purposes, debt extinguishments and recognized debt extinguishment losses of \$6.8 million. The Company drew a total of \$25.8 million on the 2023 Bridge Loan during 2024, including draws made in conjunction with amendments. In conjunction with the draws, the Company issued 1.7 million Class B Common Units to Ares Acquisition Holdings, LP. The Class B Common Units have the same rights as the Class B Profits Interests discussed in Note 12 — Unit-Based Compensation Expense. The Class B Common Units were recorded in the mezzanine equity section of the consolidated balance sheets either at fair value, for Class B Common Units issued in conjunction with the debt extinguishments, or at relative fair value, for Class B Common Units issued in conjunction with a draw.

On October 11, 2024, in accordance with the 2023 Bridge Loan’s stated terms, the Company paid the outstanding principal and interest on the 2023 Bridge Loan of \$53.5 million, and the 2023 Bridge Loan was settled. The settlement was accounted for as an extinguishment of the 2023 Bridge Loan. As a result, the Company recorded a loss on debt extinguishment of \$0.1 million for the year ended December 31, 2024 in other income (expense), net in the consolidated statements of operations and no balance was outstanding at December 31, 2024.

The Company assessed the terms of the 2023 Bridge Loan in order to identify embedded features and determine if any such features should be bifurcated and accounted for separately as derivative. The Company determined that the event of default interest rate adjustment feature, event of default redemption feature, and contingent additional interest feature required bifurcation and separate accounting as derivative liabilities. Accordingly, the bifurcated embedded derivatives were recorded at fair value upon issuance of each relevant

draw and were subsequently remeasured at the end of each reporting period. The bifurcated embedded derivatives that were created upon new draws resulted in a discount on the 2023 Bridge Loan which was subsequently amortized over the life of the 2023 Bridge Loan through periodic charges to interest expense.

During the year ended December 31, 2024, the Company recorded \$4.2 million in interest expense related to the amortization of the discount created by embedded derivatives. Additionally, the new embedded derivatives, with a total fair value of \$2.7 million, were recorded as a part of the amendments and included in the loss on extinguishment. The Company determined the fair value of the embedded derivatives by considering the probability of the settlement of the feature, its settlement value, and other assumptions. Refer to Note 13 — Fair Value Measurements for further information.

2024 Convertible Note

On September 26, 2024, the Company entered into a convertible note with Amazon.com NV Investment Holdings LLC in the principal amount of \$20.0 million (the “2024 Convertible Note”). While outstanding, the debt accrued paid-in-kind interest of 12% per annum, compounded quarterly. Interest expense recognized related to the 2024 Convertible Note was immaterial during the year ended December 31, 2024. The 2024 Convertible Note was convertible at the option of the creditor into Series C-1 Preferred Units from the issuance date until the occurrence of a Qualified Financing, which is defined under the 2024 Convertible Note’s terms as the Company’s completion of a financing round of Series C-1 Preferred Units with total proceeds of at least \$100.0 million on or before the maturity date. The maturity date of the 2024 Convertible Note was March 26, 2025, or upon the receipt of a third-party investment with aggregate net cash proceeds of at least \$100.0 million, if such an investment occurs prior to the maturity date.

On October 11, 2024, in conjunction with the Series C-1 Preferred Units financing discussed below and in accordance with the 2024 Convertible Note’s stated terms, the outstanding principal and interest of the 2024 Convertible Note of \$20.1 million was converted into 3,097,477 Series C-1 Preferred Units (“2024 Convertible Note Conversion”). Since the 2024 Convertible Note was converted via the creditor’s exercise of its unit-settled redemption right, the conversion was accounted for as a debt extinguishment and no balance remained outstanding at December 31, 2024. The fair value of the Series C-1 Preferred Units approximated the value of the extinguished debt plus interest, and therefore, no gain or loss was recorded during the year ended December 31, 2024.

2024 Bridge Loan

On September 26, 2024, the Company entered into a bridge loan with Escape2, LLC, an entity affiliated with an investor (the “2024 Bridge Loan”), in the amount of \$3.8 million. While outstanding, the 2024 Bridge Loan accrued paid-in-kind interest of 12% per annum, compounded quarterly, and had a maturity date of March 26, 2025, or upon the receipt of a third-party investment with aggregate net cash proceeds of at least \$100.0 million, if such an investment occurred prior to the maturity date. Concurrently with the issuance of this debt, the Company issued 124,430 Class B Common Units to Ghaffarian Enterprises, LLC, which is controlled by the same related party investor as Escape 2, LLC. The Class B Common Units have the same rights as the Class B Profits Interests discussed in Note 12 — Unit- Based Compensation Expense. The Class B Common Units were recorded in the mezzanine equity section of the consolidated balance sheets and included in the discount of the 2024 Bridge Loan.

On October 11, 2024, in accordance with its stated terms, the 2024 Bridge Loan was automatically redeemed, and the Company paid the outstanding principal and interest associated with the 2024 Bridge Loan of \$3.8 million. Since the 2024 Bridge Loan was initially recognized at its relative fair value (as a result of the concurrent issuance of the Class B Common Units to Ghaffarian Enterprises, LLC), its carrying amount at settlement was not equal to the cash paid by the Company. As a result, the debt was removed at its carrying value, the cash payment was credited, and a loss on extinguishment was recorded for the difference. The Company recorded an immaterial loss on debt extinguishment during the year ended December 31, 2024 in other income (expense), net in the consolidated statements of operations and no balance remained outstanding at December 31, 2024.

Bank of New York Credit Facility

On July 28, 2020, the Company executed a credit agreement with Pershing LLC, an affiliate of Bank of New York Mellon, in the form of a revolving credit facility (the “Bank of New York Credit Facility”), which was subject to the guarantee by Ghaffarian Enterprises, LLC and Ghaffarian Enterprises, who represented related party investors.

During the year ended December 31, 2024, the Company entered into Credit Support Fee and Subrogation Agreements (the “2024 Credit Support Fee Agreements”) with GM Enterprises LLC and Ghaffarian Enterprises, LLC, entities affiliated with an investor, which increased the availability under the Bank of New York Credit Facility to \$20.0 million and extended the maturity of the credit support to March 26, 2025. In conjunction with the 2024 Credit Support Fee Agreements, the Company agreed to pay GM Enterprises, LLC and Ghaffarian Enterprises, LLC a monthly 12% credit support fee to be paid in-kind. Pursuant to the terms of the 2024 Credit Support Fee Agreements, the Company paid credit support fees and issued 562,483 Class B Common Units to GM Enterprises LLC and Ghaffarian Enterprises, LLC. Refer to Note 14—Related Party Transactions for further information on the credit support fee. The Class B Common Units have the same rights as the Class B Profits Interests discussed in Note 12—Unit-Based Compensation Expense. The Class B Common Units were recorded in the mezzanine equity section of the consolidated balance sheets and included in the discount of the Bank of New York Credit Facility.

On October 11, 2024, in accordance with the facility’s stated terms, the Company settled the outstanding principal and interest associated with the Bank of New York Credit Facility with a payment of \$20.2 million, and the 2024 Credit Support Fee Agreements were terminated. The Bank of New York Credit Facility did not have an outstanding balance as of December 31, 2024, and the facility matured with no balance on March 26, 2025.

NOTE 8—LEASES

The Company leases office spaces, which have initial operating lease terms of three to twelve years. Some leases have options to extend the lease term, ranging from six months to six years. Certain leases have early termination options, which the Company is not reasonably certain to exercise.

During 2024, the Company modified certain existing leases to extend lease terms, with increases ranging from approximately six months to two years.

During the year ended December 31, 2025, the Company entered into a lease agreement for corporate office space, with a lease term of twelve years commencing in August 2025. The lease agreement includes a \$3.9 million refundable security deposit, of which \$3.5 million is classified as restricted cash on the consolidated balance sheets, which is not considered a lease payment and is excluded from the measurement of the right-of-use (“ROU”) asset and lease liability. The lease agreement also includes \$17.1 million in lease incentives, of which the lessor has provided a \$14.7 million tenant improvement allowance, which is treated as a lease incentive for lessee-owned improvements. The lease incentives reduce the right-of-use asset and lease liability recognized at lease commencement as the Company is reasonably certain to receive the lease incentives.

Additionally, during the year ended December 31, 2025, the Company amended existing operating leases to extend lease terms, increase the leased premises, and to exercise early termination options. During the year ended December 31, 2025, the Company paid early termination fees totaling \$2.8 million.

Lease balances as of December 31, 2025 and 2024 are as follows (in thousands):

	December 31,	
	2025	2024
Operating lease ROU assets	\$22,696	\$11,003
Current portion of operating lease liabilities	2,344	2,486
Long-term portion of operating lease liabilities	20,887	10,338
Total operating lease liabilities	\$23,231	\$12,824

The current portion of operating lease liabilities is reflected within accrued liabilities on the consolidated balance sheets.

Operating lease cost totaled \$6.5 million and \$4.4 million for the years ended December 31, 2025 and 2024, respectively, and was recognized on a straight-line basis over the lease term. Variable lease expenses and short-term lease expenses were immaterial for the years ended December 31, 2025 and 2024.

Future minimum lease payments under operating leases as of December 31, 2025 are as follows (in thousands):

	Operating Leases
2026	\$ 5,013
2027	4,479
2028	5,029
2029	6,378
2030	6,480
Thereafter	39,281
Total minimum lease payments	66,660
Less: lease incentives	(17,092)
Less: amounts representing interest or imputed interest	(26,337)
Present value of lease obligations	<u>\$ 23,231</u>

Supplemental cash flow information relating to the Company's leases is as follows (in thousands):

	December 31,	
	2025	2024
Operating cash flows used in operating leases	\$ 8,461	\$2,756
Non-cash items:		
Change to ROU asset and lease liability due to lease modifications and reassessments	(1,616)	1,450
ROU assets recorded under new operating leases	15,748	—

The weighted average remaining lease term and discount rates for operating leases are as follows:

	Year Ended December 31,	
	2025	2024
Weighted average remaining lease term	9.3 years	5.0 years
Weighted average discount rate	10.0%	10.0%

NOTE 9 — PROFIT SHARING PLAN

The Company maintains a defined contribution profit sharing plan (the "Plan"), which includes a salary deferral arrangement, under the provisions of Section 401(k) of the Internal Revenue Code. Employees are eligible to participate in the Plan on the date of employment. Company matches 100% of employees' contributions up to 5% of annual compensation. The Company contributed \$4.4 million and \$3.0 million to the Plan during the years ended December 31, 2025 and 2024, respectively.

NOTE 10 — INCOME TAX

X-energy is a limited liability company which is classified as a partnership for U.S. federal and state income tax purposes. Accordingly, the Company's U.S. operations are not subject to income taxes in the U.S. The Company's owners separately account for their pro rata share of the Company's income, deductions,

losses and credits annually. The Company's foreign operations are subject to income taxes in the foreign jurisdictions in which they operate.

The following table sets forth the components of income (loss) before income taxes recognized on the consolidated statements of operations and comprehensive loss (in thousands):

	Year Ended December 31,	
	2025	2024
U.S.	<u>\$ (389,611)</u>	<u>\$ (109,042)</u>
Foreign	<u>(167)</u>	<u>(16,918)</u>
Total	<u><u>\$ (389,778)</u></u>	<u><u>\$ (125,960)</u></u>

No income tax (expense) benefit was recorded for the years ended December 31, 2025 and 2024.

A reconciliation of income taxes computed at the U.S. federal statutory income tax rate of 21% to the Company's income tax (expense) benefit was as follows:

	December 31,	
	2025	2024
U.S. federal statutory tax rate	21.0%	21.0%
Domestic income not subject to income tax	(21.0)%	(18.2)%
Foreign rate differential	0.0%	0.0%
Prior year adjustments	0.0%	(1.4)%
Other	0.0%	0.3%
Valuation allowance	(0.0)%	(1.7)%
	<u>0.0%</u>	<u>0.0%</u>

The Company's effective tax rate for the years ended December 31, 2025 and 2024 was 0.0%.

The components of deferred tax assets and liabilities are as follows (in thousands):

	December 31,	
	2025	2024
Deferred tax assets:		
Property and equipment	\$ 0	\$ 2
Net operating losses	<u>4,053</u>	<u>3,866</u>
Total deferred tax assets	4,053	3,868
Valuation allowance	<u>(4,053)</u>	<u>(3,853)</u>
Total deferred tax assets net of valuation allowance	0	15
Deferred tax liabilities:		
Foreign exchange	0	(15)
Total deferred tax liabilities	<u>0</u>	<u>(15)</u>
Net deferred tax assets/(liabilities)	<u><u>\$ —</u></u>	<u><u>\$ —</u></u>

The Company's net deferred tax assets are comprised primarily of net operating loss carryforwards. The ultimate realization of the net deferred tax assets is dependent upon the generation of future taxable income sufficient to utilize the deferred tax assets on the Company's income tax returns. The Company determined that its net deferred tax assets are not more likely than not going to be realized due to the Company's three- year cumulative loss position and the generation of future taxable income is uncertain. The Company is subject to taxation in the United States and various foreign jurisdictions. Tax years 2022 and forward are open for examination in the United States, tax years 2023 and forward are open for examination in the United Kingdom, and all years are open in Canada. Considering this and other factors, the Company recognized a

full valuation allowance of \$4.1 million and \$3.9 million as of December 31, 2025 and 2024, respectively. The valuation allowance increased by \$0.2 million during the year ended December 31, 2025 and increased by \$2.1 million during the year ended December 31, 2024.

As of December 31, 2025 and 2024, the Company had unused Canadian net operating losses of \$7.5 million and \$7.3 million, respectively, which begin to expire in 2041. As of December 31, 2025 and 2024, the Company had unused United Kingdom net operating losses of \$8.2 million and \$7.7 million, respectively, which can be carried forward indefinitely.

The Company had no liability for uncertain tax positions and had no interest or penalties with respect to unrecognized tax benefits as of December 31, 2025 and 2024.

NOTE 11 — MEMBER UNITS AND PREFERRED UNITS

Common Units

The holders of Class A Common Units are entitled to one vote for each unit of Class A Common Units held at all meetings of stockholders. The voting, dividend, and liquidation rights of the holders of Class A Common Units are subject to and qualified by the rights, powers, and privileges of the holders of Preferred Units set forth in the original or amended Certificate of Incorporation. The Class A Common Units have been classified as mezzanine equity as they are redeemable for cash upon the occurrence of certain events that are considered outside of the Company's control.

The Class B Common Units have the same rights and preferences as the Class A Common Units; provided however, the Class B Common Units shall not have voting rights and are subject to a profits interest threshold as may be set forth in grant agreements under the Company's unit-based compensation plan discussed in Note 12 — Unit-Based Compensation Expense or certain credit agreements discussed in Note 7 — Debt.

During the year ended December 31, 2024, the Company issued 3,126,887 Class B-2 Common Units in conjunction with the issuance and modification of debt and in conjunction with the conversion of the C-1 Notes as discussed in Note 7 — Debt. The Class B-2 Common Units are classified as mezzanine equity as they are redeemable for cash upon the occurrence of certain events that are considered outside of the Company's control.

Series A Preferred Units

The Series A Preferred Units were issued to a related party in 2023 in conjunction with the Series A Preferred financing. The units were recognized at fair market value on the issuance date.

Series A-1 Preferred Units

The Series A-1 Preferred Units were issued in 2023 together with the Series C Preferred Units and Series B-2 Common Units in exchange for a cash investment of \$50.0 million. The Series A-1 Preferred Units have been initially recognized at their relative fair market value.

Series B Preferred Units

The Series B Preferred Units were issued prior to 2023. The Series B Preferred Units have been initially recognized at fair market value.

Series C Preferred Units

During 2023, the Company issued 16,340,900 Series C Preferred Units through a financing, a related-party investment (resulting in a loss on issuance), and the conversion of C-1 outstanding notes.

During the year ended December 31, 2024, 20,752,520 Series C Preferred Units were issued in connection with the C-1 Conversion, the C-2 Note Conversion, and the exercise of the October 2022 Warrants. The Series C Preferred Units issued as a result of these transactions were recognized at fair market value.

On September 30, 2025, the Company's C-2 Note was converted into 2,870,172 Series C Preferred Units. The Series C Preferred Units issued as a result of this transaction were recognized at fair market value.

Refer to Note 7 — Debt for further discussion on these convertible note conversions and the warrant exercise.

Series C-1 Preferred Units

During 2024, the Company completed a financing round of Series C-1 Preferred Units which resulted in the receipt of gross cash proceeds of approximately \$626.5 million from various investors. As a result of this financing round, the Company issued 99,672,593 Series C-1 Preferred Units. The Series C-1 Preferred Units issued through these transactions were recorded at fair value.

In connection with the issuance of the Series C-1 Preferred Units, one investor and potential future customer was issued a warrant on Series C-1 Preferred Units (the "2024 Warrant") for no additional consideration. The 2024 Warrant is required to be classified as a liability and measured at fair value on an ongoing basis pursuant to ASC 480 since the underlying Series C-1 Preferred Units are redeemable for cash upon the occurrence of certain events that are considered outside of the Company's control. The 2024 Warrant may be exercised by the holder at any time from the issuance date until the 18-month anniversary of the issuance date and entitles the holder to purchase up to 40,214,207 Series C-1 Preferred Units at an exercise price of approximately \$7.46 per unit. As the 2024 Warrant was issued for no additional consideration and did not meet the criteria for capitalization of a contract asset, the issuance date fair value of the 2024 Warrant of \$55.3 million was expensed upon its issuance. The expense is reflected within selling, general, and administrative expenses within the consolidated statement of operations for the year ended December 31, 2024.

On January 24, 2025, the Company completed additional financing rounds of Series C-1 Preferred Units, issuing 8,235,521 Series C-1 Preferred Units and receiving gross cash proceeds of approximately \$53.4 million from various investors. On October 3, 2025, the Company issued a warrant to a related party customer to purchase up to 14,123,859 Series C-1 Preferred Units at an exercise price of \$6.4870 per unit (the "2025 Warrant"). See Note 14 -Related Party Transactions for the details of the 2025 Warrant. The Series C-1 Preferred Units issued through these transactions were recorded at fair value.

Series D Preferred Units

On November 21, 2025, the Company completed a financing round of Series D Preferred Units, issuing 48,154,955 Series D Preferred Units and receiving gross cash proceeds of approximately \$700.0 million. The Series D Preferred Units issued through these transactions were recorded at fair market value.

Preferred Units

Together, the Series A Preferred Units, the Series A-1 Preferred Units, the Series B Preferred Units, the Series C Preferred Units, the Series C-1 Preferred Units, and the Series D Preferred Units shall be referred to as the "Preferred Units" for the purpose of this Note. Preferred Units have been issued in one or more series, each of such series consisting of such number of units and to have such terms, rights, powers and preferences, and the qualifications and limitation with respect thereto, as stated or expressed in the original or amended Certificate of Incorporation. Specifics regarding the conversion features and voting rights associated with, and the balance sheet classification of, the Preferred Units outstanding are as follows:

Optional Conversion Feature

Each Preferred Unit is convertible, at the option of the holder thereof, at any time, and without the payment of additional consideration by the holder thereof, into an equal number of Class A Common Units as is determined by dividing the Original Issue Price, initially (i) \$0.5754 per Unit for each Series A Preferred Unit, (ii) \$7.6348 for each Series A-1 Preferred Unit, (iii) \$9.1162 per Unit for each Series B Preferred Unit, (iv) \$7.6348 per Unit for each Series C Preferred Unit, (v) \$6.487 per Unit for each Series C-1 Preferred Unit, and (vi) \$14.53 per Unit for each Series D Preferred Unit, for the series of preferred units by the conversion price, initially equal to the applicable original issue price per unit, of such series of Preferred Units in effect at

the time of conversion. Outstanding Preferred Units are therefore convertible into the following quantities of Class A Common Units as of December 31, 2025: 90,625,588 relating to Series A Preferred Units, 8,808,351 relating to Series A-1 Preferred Units, 11,643,171 relating to Series B Preferred Units, 39,963,592 relating to Series C Preferred Units, 107,908,114 relating to Series C-1 Preferred Units, and 48,154,955 related to Series D Preferred Units. Conversion may be effected at any time at the sole discretion of the holder.

Automatic Conversion Feature

In the event of (i) a Qualified IPO, with the exception of the Series D Preferred Units as discussed below, or (ii) the approval of the requisite holders, the Preferred Units will automatically be converted into an equal number of Class A Common Units at the applicable conversion ratio.

For Series D Preferred Units specifically, if the Company undertakes a Qualified IPO, the conversion price of the Series D Preferred Units will be adjusted, if necessary, to be equal to the lesser of: (a) seventy-five percent (75%) of the price per Class A Common Unit, or the price per the equivalent common share of (i) the Company's corporate successor following a conversion of the Company to a C corporation or (ii) the Company's newly formed corporation member, in either scenario offered to the public in such Qualified IPO; or (b) the then-current conversion price of the Series D Preferred Units prior to such adjustment.

Voting Rights

Each of the holders of Class A Common Units, Series A Preferred Units, Series B Preferred Units, Series C Preferred Units, Series C-1 Preferred Units, and Series D Preferred Units are entitled to vote for members of the Board of Directors in whatever manner necessary to ensure that the size of the Board of Directors of the Company is set and remains at nine directors who serve as the managers of the Company. The Series A-1 Preferred Units and Class B Common units do not vote on the Board of Directors.

Cumulative Preferred Return

The Preferred Units have an annual 3% cumulative preferred return on the original issuance price, beginning on the date such Preferred Units were issued. As of December 31, 2025, the accumulated preferred return not reflected in the consolidated balance sheet for Series A, A-1, B, C, C-1, and D Preferred Units was \$7.0 million, \$4.2 million, \$14.1 million, \$14.2 million, \$24.4 million, and \$2.3 million, respectively. As of December 31, 2024, the accumulated preferred return not reflected in the consolidated balance sheet for Series A, A-1, B, C, and C-1 Preferred Units was \$5.4 million, \$2.2 million, \$10.9 million, \$5.5 million, and \$3.5 million, respectively. In the event of a deemed liquidation, the cumulative preferred return is payable solely for the Series B Preferred Units and therefore has been incorporated into the Series B Preferred Units liquidation preference amount presented on the balance sheet. The cumulative preferred return on the remaining units is subject to discretion of the Board of Directors.

Liquidation Preference

In the event of any liquidation, dissolution, or winding up of the Company, or a deemed liquidation event, including a merger or consolidation, or a sale or other disposition of all or substantially all of the Company's assets, the holders shall receive distributions in an amount up to their liquidation preference. See the consolidated balance sheet for the liquidation preference amounts. The preference of distributions is first to both Series D Preferred Unit and Series C-1 Preferred Unit holders *pari passu*, second to Series C Preferred Unit holders, third to Series B Preferred Units holders, fourth to Series A and Series A-1 Preferred Units holders, and fifth to Class B-1 Profits Interest Units, until members have received cumulative distributions equal to approximately \$9.5 million. After the payment of the full liquidation preference of the redeemable convertible preferred stock and profits interests, the Company's remaining assets legally available for distribution, if any, would be distributed ratably to the holders of Class A and Class B Common Units.

Classification

A redeemable equity security is to be classified as temporary or mezzanine equity if it is conditionally redeemable upon the occurrence of an event that is not solely within the control of the issuer.

The Preferred Units and Common Units are redeemable for cash upon the occurrence of a deemed liquidation event. As of December 31, 2025 and 2024, a deemed liquidation event is not considered probable, and the occurrence of such an event is considered to be outside of the Company's control. Accordingly, the Preferred Units and Common Units are considered conditionally redeemable upon the occurrence of an event that is not solely within the control of the issuer and, therefore, the Company has classified the Preferred Units and Common Units as mezzanine equity in the consolidated balance sheets as of December 31, 2025 and 2024. The mezzanine equity amount related to Common Units issued as unit-based compensation is the grant date redemption value, or the modification date redemption value, as applicable. The difference between the grant date fair value and the redemption value for vested awards is presented in permanent equity. As of December 31, 2025 and December 31, 2024, \$74.9 million and \$72.4 million, respectively, has been presented within mezzanine equity, and the excess of redemption value over grant date fair value for vested awards has been recorded within additional paid in capital and accumulated deficit for those years, respectively. Additionally, the Company does not believe that related contingent events and the redemption of the Class B Common Units is probable to occur.

NOTE 12 — UNIT-BASED COMPENSATION EXPENSE

Class B-1 Profits Interest Units

On September 12, 2022, the Company issued service-vesting Class B-1 PIUs in exchange for options previously granted as unit-based compensation. The Class B-1 PIUs contain a catch-up distribution provision payable upon a deemed liquidation event to compensate holders for the loss in appreciated value from the strike price of the options to the profits interest participation threshold. Generally, Class B-1 PIUs vest 25% on the first vesting date, and an additional 25% on each anniversary of the vesting date until the units are fully vested. The Company has the right to repurchase vested units at fair value upon termination, however the Company does not have plans to exercise this right.

The following table summarizes the activity related to the Company's Class B-1 Profits Interest awards for the years ended December 31, 2025 and 2024:

	Number of Units	Weighted Average Grant Date Fair Value
Unvested Class B-1 Units at January 1, 2024	231,250	\$3.19
Vested	(231,250)	3.19
Forfeited	—	—
Unvested Class B-1 Units at December 31, 2024	—	\$ —
Vested	—	—
Forfeited	—	—
Unvested Class B-1 Units at December 31, 2025	—	—

Issuance of Class B-2 Profits Interest Units

Also on September 12, 2022, the Company issued service-vesting Class B-2 PIUs to certain employees. The Class B-2 PIUs have identical rights and participations as the Class B-1 PIUs with the exception of the catch-up distribution. Class B-2 PIUs vest 25% on the first vesting date, and an additional 25% on each anniversary of the vesting date until the units are fully vested. The Company has the right to repurchase vested units at fair value upon termination, however the Company does not have plans to exercise this right.

In May and June of 2025, under the Company's 2022 long-term incentive plan, the Company granted 9,794,000 additional Class B-2 PIUs, with an aggregate fair value of \$21.4 million, with some of the awards vesting upon the grant, and the remaining vesting 25% on the first vesting date, and an additional 25% on each anniversary of the vesting date until the units are fully vested, and a two year sale restriction in addition to existing equity transfer restrictions in the Limited Liability Agreement. The fair value of the awards is based on a Black-Scholes model and requires significant judgements and use of estimates, particularly with regard to time to exit and volatility. Volatility is determined by reference to the actual volatility of several publicly

traded companies that are similar to the Company in its industry sector. The expected time to exit, as of the grant date, is 2.9 years. This period reflects the anticipated duration before the units can be freely traded or sold. The significant inputs into the valuation of these PIUs are:

Significant Inputs	
Risk-free rate	3.8%
Equity volatility	91.4%

The risk-free rate utilized was based on term-matched U.S. Treasury Constant Maturity yields. The selected volatility rate reflected the expected variability in the value of the new Class B Common PIUs. This volatility estimate is derived from equity class volatilities derived from the option pricing model. No dividends are expected to be paid on the new Class B Common PIUs during the restriction period.

In July and August 2025, under the Company's 2022 long-term incentive plan, the Company granted an additional 471,000 Class B-2 PIUs, with an aggregate fair value of \$1.6 million, with some of the awards vesting upon the grant. Additionally, in December 2025, the Company granted 8,230,995 Class B-2 PIUs, with an aggregate fair value of \$25.2 million. These PIUs have a two year sale restriction in addition to existing equity transfer restrictions in the Limited Liability Agreement. The fair value of the awards is based on a Black-Scholes model and requires significant judgements and use of estimates, particularly with regard to time to exit and volatility. Volatility is determined by reference to the actual volatility of several publicly traded companies that are similar to the Company in its industry sector. The expected time to exit, as of the grant date, is 2.2 years. This period reflects the anticipated duration before the units can be freely traded or sold. The significant inputs into the valuation of these PIUs are:

Significant Inputs	
Risk-free rate	3.5%
Equity volatility	142.7%

The risk-free rate utilized was based on term-matched U.S. Treasury Constant Maturity yields. The selected volatility rate reflected the expected variability in the value of the new Class B Common PIUs. This volatility estimate is derived from equity class volatilities derived from the option pricing model. No dividends are expected to be paid on the new Class B Common PIUs during the restriction period.

The following table summarizes the activity related to the Company's Class B-2 Profits Interest awards for the years ended December 31, 2025 and 2024:

	Number of Units	Weighted Average Grant Date Fair Value
Unvested Class B-2 Units at January 1, 2024	1,181,500	\$2.34
Vested	(464,000)	2.34
Forfeited	(34,500)	2.34
Unvested Class B-2 Units at December 31, 2024	683,000	\$2.34
Granted	18,495,995	2.62
Vested	(2,877,500)	2.34
Forfeited	(685,500)	2.31
Unvested Class B-2 Units at December 31, 2025	15,615,995	\$2.68

Unit-Based Compensation

For the year ended December 31, 2025, unit-based compensation expense of \$11.5 million was classified as selling, general, and administrative expense, \$2.6 million was classified as direct costs, and \$0.5 million was capitalized into property and equipment as a part of the Company's fuel facility construction project. For the year ended December 31, 2024, unit-based compensation expense of \$1.0 million was classified as selling, general, and administrative expense and \$0.1 million was classified as direct costs. The total fair value of units

that vested during the years ended December 31, 2025, and 2024 was \$6.7 million and \$1.8 million, respectively. As of December 31, 2025, the Company had \$32.7 million of unrecognized unit-based compensation that is expected to be recognized over a weighted average period of 2.3 years.

NOTE 13 — FAIR VALUE MEASUREMENTS

The liabilities recorded at fair value and measured on a recurring basis are all Level 3 measurements as of December 31, 2025 and 2024.

Rollforward of Level 3 Measurements

A roll forward of the Level 3 measurements as of December 31, 2025 and 2024 is as follows:

	June 2022 Warrants	October 2022 Warrants	December 2022 Warrants	C-1 Notes	C-2 Notes	2024 Warrants	2024 Financial Instrument	Embedded Derivatives
Beginning balance as of January 1, 2024	\$ 3,082	\$ 4,450	\$ 912	\$ 25,901	\$ 121,240	\$ —	\$ —	\$ 6,153
Exercises/Settlements	—	(5,175)	—	—	—	—	—	—
Conversions	—	—	—	(27,138)	(116,800)	—	—	—
Issuances	—	—	—	—	—	55,252	12,266	3,912
Change in fair value recognized in other income (expense), net	554	725	482	1,237	7,877	(9,648)	(12,266)	(10,065)
Change in fair value attributable to instrument-specific credit risk recognized in other comprehensive income ⁽¹⁾	—	—	—	—	6,220	—	—	—
Ending balance as of December 31, 2024	\$ 3,636	\$ —	\$ 1,394	\$ —	\$ 18,537	\$ 45,604	\$ —	\$ —
Beginning Balance as of January 1, 2025	3,636	—	1,394	—	18,537	45,604	—	—
Conversions	—	—	—	—	(30,787)	—	—	—
Change in fair value recognized in other income (expense), net	7,140	—	(1,394)	—	13,015	217,786	—	—
Change in fair value attributable to instrument-specific credit risk recognized in other comprehensive income ⁽¹⁾	—	—	—	—	(765)	—	—	—
Ending Balance as of December 31, 2025	\$10,776	\$ —	\$ —	\$ —	\$ —	\$263,390	\$ —	\$ —

- (1) As the fair value option was elected for the C-1 Notes and C-2 Notes, the change in fair value attributable to instrument-specific credit risk associated with each instrument is recorded within other comprehensive income (loss), and the remaining change in fair value is recorded within other income (expense), net on the consolidated statements of operations and comprehensive loss. The change in instrument specific credit risk is estimated based on the option adjusted spread of comparable companies and the option adjusted spread of the US high yield index for companies with similar credit ratings.

Valuation Techniques and Significant Unobservable Inputs

A significant increase or decrease in any of the significant unobservable inputs used in the fair value measurement of the warrant liabilities or C-2 Notes could result in a significantly higher or lower fair value measurement. The quantitative inputs and assumptions used for items categorized in Level 3 of the fair value hierarchy as of December 31, 2025 and December 31, 2024 are summarized below:

2024 Warrants

The fair value of the 2024 Warrants is based on an option pricing method of allocation. The significant inputs, including significant unobservable inputs, used in the recurring Level 3 fair value measurements of the 2024 Warrants as of December 31, 2025 and 2024 are as follows:

Significant Inputs	December 31	
	2025	2024
Expected term (years)	0.3	1.3
Equity volatility	80.6% – 94.0%	58.0%
Risk-free rate	3.6%	4.1%

June 2022 Warrants

In conjunction with a guarantee to the Bank of New York Credit Facility, the Company issued \$10.0 million of warrants (the “June 2022 Warrants”) to Ghaffarian Enterprises on June 30, 2022. The fair value of the June 2022 Warrants is based on an option pricing method of allocation. The significant inputs, including significant unobservable inputs, used in the recurring Level 3 fair value measurements of the June 2022 Warrants as of December 31, 2025 and 2024, are as follows:

Significant Inputs	December 31	
	2025	2024
Expected term (years)	0.3 – 2.2	3.2
Equity volatility	94.0 – 101.8%	63.0%
Risk-free rate	3.5 – 3.6%	4.2%

December 2022 Warrants

On December 5, 2022, the Company issued 444,444 warrants (the “December 2022 Warrants”) to purchase common units of the Company. The December 2022 Warrants have an exercise price of \$0.01 per unit and are not exercisable until 36 months following the issuance of the C-2 Notes, subject to the achievement of certain business requirements. The December 2022 Warrants are freestanding financial instruments and are liability classified as of December 31, 2024. As of December 31, 2025, the December 2022 Warrants expired as business requirements of the holder were not met.

The fair value is determined based on an option pricing method of allocation using the contractual strike price per the warrant agreement, and an estimate of the per unit value of the warrants. The significant inputs, including significant unobservable inputs, used in the recurring Level 3 fair value measurements of the December 2022 Warrants as of December 31, 2024 are as follows:

Significant Inputs	2024
Expected term (years)	3.2
Equity volatility	63.0%
Discount for lack of marketability	28.0%
Risk-free rate	4.2%

C-2 Notes

As of December 31, 2025, all C-2 Notes were converted into Series C Preferred Units. Refer to Note 7 — Debt for further information.

The fair value of the C-2 Notes is based on the binomial lattice model, which is considered to be a Level 3 fair value measurement. The significant inputs, including significant unobservable inputs, used in the recurring Level 3 fair value measurements of the C-2 Notes as of December 31, 2024 are as follows:

Significant Inputs	2024
Discount rate	14.2%
Credit spread	10.0%
Equity volatility	56.0%
Risk-free rate	4.2%

Held-to-Maturity Securities — Amortized Cost and Fair Value

The estimated fair values of the Company's financial instruments that are not measured at fair value on a recurring basis, categorized based upon the fair value hierarchy, at December 31, 2025 are as follows:

	Carrying Value	Fair Value	
		Level 1	Level 2
December 31, 2025			
Cash equivalents			
Money market fund	\$152,951	\$152,951	\$ —
Commercial paper and certificates of deposit	45,430	—	45,432
Corporate bonds	36,021	—	36,022
Foreign issuer debt securities	1,191	—	1,191
Total in cash and cash equivalents	\$235,593	\$152,951	\$ 82,645
Short term investments			
Corporate bonds	\$163,331	\$ —	\$163,335
Government treasury bills	88,154	88,206	—
Commercial paper and certificates of deposit	35,717	—	35,726
Foreign issuer debt securities	17,706	—	17,708
Total in short-term investments	\$304,908	\$ 88,206	\$216,769
Long term investments			
Corporate bonds	\$208,419	\$ —	\$208,482
Government treasury bills	43,468	43,540	—
Foreign issuer debt securities	9,571	—	9,573
Total in long-term investments	\$261,458	\$ 43,540	\$218,055

The following table summarizes the carrying values and fair values of the Company's financial instruments that were not carried at fair value on the consolidated balance sheets as of December 31, 2025 (in thousands):

	Amortized Cost Basis	Allowance for Credit Losses	Net carrying amount	Gross Unrealized Gains	Gross Unrealized Losses	Aggregate Fair Value
U.S. Government securities	\$131,623	\$ —	\$131,623	\$123	\$ —	\$131,746
Corporate securities	407,466	—	407,466	105	(28)	407,543
Foreign securities	27,277	—	27,277	5	(1)	27,281
Total held to maturity securities	\$566,366	\$ —	\$566,366	\$233	\$(29)	\$566,570

The Company did not hold held to maturity securities during the year ended December 31, 2024.

The amortized cost and estimated fair value of held to maturity securities at December 31, 2025 by contractual maturity are shown below (in thousands):

	Amortized Cost Basis	Fair Value
Due in less than one year	\$304,908	\$304,975
Due after one year through five years	261,458	261,595
Total	\$566,366	\$566,570

Expected maturities may differ from contractual maturities because borrowers have the right to call or prepay obligations with or without call or prepayment penalties.

NOTE 14—RELATED PARTY TRANSACTIONS

In the ordinary course of business, the Company enters into transactions with various related parties.

Related Party Warrants

On October 3, 2025, agreements with a related party customer were modified through the issuance of the 2025 Warrant and the Company accounted for such modification in accordance with ASC 606. The 2025 Warrant may be exercised by the holder when all of the Xe-100 units associated with the customer agreements are considered fully operational (the “Vesting Event”). The exercise period ends at the earlier of (i) one year from the Vesting Event, (ii) event of non-compliance and (iii) a consummation of a change of control or a listing event of the Company, to the extent it occurs after vesting. The Vesting Event is considered a performance condition in accordance with ASC 718, as the Vesting Event is a performance target defined solely by reference to the Company’s own operations. As the 2025 Warrant was issued to a customer and not in exchange for a distinct good or service that the customer transfers to the Company, the Company accounts for the 2025 Warrant as consideration payable to a customer under ASC 606, and will recognize the Warrant as a decrease to the transaction price, measured based on the grant date fair value when the performance condition is deemed probable. The grant date fair value was determined to be \$162.7 million.

Moreover, the Company determined that the 2025 Warrant will be classified as an equity award based on the criteria of ASC 480 and ASC 718. When the performance condition is deemed probable, the Company will recognize the 2025 Warrant as a temporary equity classified instrument on its balance sheet measured based on its grant date redemption value. Upon the performance condition becoming probable of occurring, any difference between the 2025 Warrant’s grant date fair value and its grant date redemption value shall be presented in permanent equity.

As of December 31, 2025, the 2025 Warrant was not deemed probable of vesting, and thus, the Company did not recognize any amount related to the 2025 Warrant. The Company will assess whether it is probable that the 2025 Warrant will vest at the end of every reporting period.

In connection with the issuance of the Series C-1 Preferred Units, one investor and potential future customer was issued a warrant on Series C-1 Preferred Units (the “2024 Warrant”) for no additional consideration. The 2024 Warrant is required to be classified as a liability and measured at fair value on an ongoing basis pursuant to ASC 480 since the underlying Series C-1 Preferred Units are redeemable for cash upon the occurrence of certain events that are considered outside of the Company’s control. The 2024 Warrant may be exercised by the holder at any time from the issuance date until the 18-month anniversary of the issuance date and entitles the holder to purchase up to 40,214,207 Series C-1 Preferred Units at an exercise price of approximately \$7.46 per unit. As the 2024 Warrant was issued for no additional consideration and did not meet the criteria for capitalization of a contract asset, the issuance date fair value of the 2024 Warrant of \$55.3 million was expensed upon its issuance. The expense is reflected within selling, general, and administrative expenses within the consolidated statement of operations for the year ended December 31, 2024.

Related Party Revenue

Dow is a unitholder and warrant holder of X-Energy. During the year ended December 31, 2025, the Company entered into the Master Project Development Agreement (“MPDA”) with Dow, which is a

continuation of the project under the previously existing joint development agreement with Dow entered into during the year ended December 31, 2023, whereby the MPDA and joint development agreement together are considered the “Dow Agreements.”

Additionally, during the year ended December 31, 2024, the Company entered into a project with a separate related party to provide design and engineering services.

The table below summarizes related party revenues that are reflected within revenue in the consolidated statement of operations and comprehensive loss for the years ended December 31, 2025 and 2024 (in thousands):

	Year Ended December 31,	
	2025	2024
Revenue associated with Dow	\$6,943	\$26,848
Revenue associated with design and engineering services	—	707
Total	\$6,943	\$27,555

Related Party Expenses

The Company enters into various arrangements with related party vendors. These arrangements primarily include subcontracting services with a related party investor, and general and administrative services, as well as credit support fees, with an affiliate of the Chairman of the Board of Directors of the Company.

The subcontracting services primarily pertain to support services related to ARDP, and the general and administrative services include rent for office space, consulting services, and other general and administrative services. The credit support fee relates to the Bank of New York Credit Facility described above in Note 7 — Debt. The table below summarizes the expenses with related parties that are reflected in the consolidated statements of operations and comprehensive loss the years ended December 31, 2025 and 2024 (in thousands):

	Year Ended December 31,	
	2025	2024
Subcontracting services ⁽¹⁾	\$29,982	\$21,813
General and administrative services ⁽²⁾	1,490	2,515
Credit support fee ⁽³⁾	—	903
Total	\$31,472	\$25,231

- (1) Expenses relating to subcontracting services are reflected within direct costs in the consolidated statements of operations and comprehensive loss.
- (2) Expenses related to general and administrative services are reflected within selling, general, and administrative expenses in the consolidated statements of operations and comprehensive loss.
- (3) Expenses related to credit support fee are reflected within interest expense in the consolidated statements of operations and comprehensive loss.

Due to/from Related Parties

As of December 31, 2025 and 2024, the following balances were recorded within due from and due to related parties (in thousands):

	December 31,	
	2025	2024
Due from related parties ⁽¹⁾	\$4,580	\$15,973
Due to related parties	4,225	7,911
Short-term deferred revenue	—	569
Total due to related parties	\$4,225	\$ 8,480
Long-term deferred revenue	\$2,353	\$ —

- (1) As of December 31, 2025 and 2024, \$4.5 million and \$15.8 million, respectively, is related to Dow, of which \$0.7 million and \$7.7 million, respectively, is unbilled.

Refer to Note 7 — Debt for disclosures related to debt from related parties.

Upon closing of Series D Preferred Units and resulting change in capital ownership, the Company reevaluated its related parties. Accordingly, certain entities were previously considered related party entities that the Company has historically conducted business with are no longer considered related parties as defined in ASC 850 beginning on November 21, 2025. The Company has disclosed transactions occurring prior to November 21, 2025 with these entities as related party transactions.

NOTE 15 — COMMITMENTS AND CONTINGENCIES

Incurred Cost Audits

The Company predominantly performs contract services for the DoE. The Company's costs incurred on such contracts with the DoE are subject to final incurred cost audits prior to the close out of the award as specified in such contracts. Billings under this contract are based on provisional rates that permit recovery of allowable overhead, and general and administrative expenses not exceeding certain limits. These rates are subject to review by the government on an annual basis. When final determination and approval of the allowable rates have been made, billings may be adjusted.

The Company is currently undergoing audits of the costs incurred from January 1, 2020 through December 31, 2024. As of December 31, 2025, the Company has \$1.1 million in contract-related reserves for its estimate of potential refunds to customers recorded in accrued liabilities on the consolidated balance sheet. As of December 31, 2024, the impact of any cost audit findings were immaterial.

Investigations and Litigation

From time to time the Company may become involved in legal proceedings or be subject to claims arising in the ordinary course of its business. The Company is not, to the best of its knowledge, presently a party to any legal proceedings that, if determined adverse to the Company, would individually or taken together have a material adverse effect on its business, operating results, financial condition, or cash flows.

Unconditional Purchase Obligations

The Company has entered into certain agreements in which the Company is committed to purchase goods or services, primarily related to supply agreements for graphite components.

Year Ended December 31,	Unconditional Purchase Obligations
2026	\$27,000
2027	13,000
2028	9,500
2029	13,893
2030 and thereafter	—
Total	\$63,393

As of December 31, 2025, there were no unconditional purchase obligations required to be recognized.

NOTE 16—SUPPLEMENTAL CASH FLOW INFORMATION

Supplemental cash flow disclosures are as follows (in thousands):

	Year Ended December 31,	
	2025	2024
Cash paid for interest	\$ —	\$ 4,621
Non-cash Investing and Financing Activities:		
Conversion of C-1 and C-2 notes to Series C Preferred Units	30,787	126,354
Conversion of 2024 Convertible Note to Series C-1 Preferred Units	—	20,903
Valuation of derivative liability	—	3,912
Class B common units related to the issuance and conversion of debt	—	9,061
Deferred transaction costs	3,039	369
Government grant reimbursement receivable for purchase of property and equipment	20,631	5,359
Property and equipment included in accounts payable and accrued expenses	4,490	6,527

NOTE 17—SEGMENTS

Under the guidelines of ASC 280, which require companies to present financial information about their operating segments, products and services, geographic regions, and significant customers, the Company's Chief Executive Officer serves as the chief operating decision maker ("CODM"). The CODM evaluates financial performance, allocates resources, and makes strategic decisions based on the consolidated results of the Company, rather than evaluating discrete lines of business. Accordingly, management has determined that the Company comprises a single reportable segment.

In making resource allocation and assessing operational outcomes, the CODM relies on overall net income (loss) as the primary metric both during the annual planning process and for evaluating results on a quarterly basis. The primary expenses presented to the CODM and incorporated in segment performance are related to the operating expenses; direct costs, selling, general and administrative costs, and research and development costs — as well as the non-operating expenses; interest expense, interest income, and other income (expense). The consolidated statements of operations for the years ended December 31, 2025 and 2024 present these significant segment expenses for the Company's single operating segment. The consolidated balance sheets as of December 31, 2025 and 2024 likewise display the assets and liabilities attributable to this single segment.

NOTE 18—SUBSEQUENT EVENTS

In preparing these financial statements, the Company has evaluated subsequent events to determine if any require recognition or disclosure.

2024 Warrant

In March 2026, the Company amended the 2024 Warrant to permit the holder to elect a cashless exercise of the 2024 Warrant at an earlier date than provided by the 2024 Warrant's original terms. The warrant holder exercised the warrant on March 18, 2026 and received 19,576,222 Series C-1 Preferred Units.

Shares



X-Energy, Inc.

Class A Common Stock

PRELIMINARY PROSPECTUS

, 2026

Joint Bookrunning Managers

J.P. Morgan Morgan Stanley Jefferies Moelis & Company
Cantor UBS Investment Bank TD Securities Guggenheim Securities Wolfe | Nomura Alliance

Until , 2026 (the 25th day after the date of this prospectus), all dealers effecting transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to a dealer’s obligation to deliver a prospectus when acting as an underwriter and with respect to an unsold allotment or subscription.

PART II
INFORMATION NOT REQUIRED IN THE PROSPECTUS

Item 13. Other expenses of issuance and distribution.

The following table sets forth all fees and expenses, other than the underwriting discounts and commissions payable solely by X-Energy Reactor Company, LLC in connection with the offer and sale of the securities being registered. All amounts shown are estimated except for the SEC registration fee, the FINRA fee and the stock exchange listing fee.

	Amount to be paid
SEC registration fee	\$14,310
FINRA filing fee	\$15,500
Stock exchange listing fee	\$ *
Printing expenses	\$ *
Accounting fees and expenses	\$ *
Transfer agent and registrar fees	\$ *
Legal fees and expenses	\$ *
Total	\$ *

* To be provided by amendment.

Item 14. Indemnification of directors and officers.

Section 102 of the General Corporation Law of the State of Delaware permits a corporation to eliminate the personal liability of directors of a corporation to the corporation or its stockholders for monetary damages for a breach of fiduciary duty as a director, except where the director breached his duty of loyalty, failed to act in good faith, engaged in intentional misconduct or knowingly violated a law, authorized the payment of a dividend or approved a stock repurchase in violation of Delaware corporate law or obtained an improper personal benefit. Our certificate of incorporation provides that no director of X-Energy, Inc. shall be personally liable to it or its stockholders for monetary damages for any breach of fiduciary duty as a director, notwithstanding any provision of law imposing such liability, except to the extent that the General Corporation Law of the State of Delaware prohibits the elimination or limitation of liability of directors for breaches of fiduciary duty.

Section 145 of the General Corporation Law of the State of Delaware provides that a corporation has the power to indemnify a director, officer, employee, or agent of the corporation, or a person serving at the request of the corporation for another corporation, partnership, joint venture, trust or other enterprise in related capacities against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the person in connection with an action, suit or proceeding to which he was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding by reason of such position, if such person acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interests of the corporation, and, in any criminal action or proceeding, had no reasonable cause to believe his conduct was unlawful, except that, in the case of actions brought by or in the right of the corporation, no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or other adjudicating court determines that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

Our certificate of incorporation and bylaws provides indemnification for our directors and officers to the fullest extent permitted by the General Corporation Law of the State of Delaware. We will indemnify each person who was or is a party or threatened to be made a party to any threatened, pending or completed action, suit or proceeding (other than an action by or in the right of us) by reason of the fact that he or she is or was,

or has agreed to become, a director or officer, or is or was serving, or has agreed to serve, at our request as a director, officer, partner, employee or trustee of, or in a similar capacity with, another corporation, partnership, joint venture, trust or other enterprise (all such persons being referred to as an “Indemnitee”), or by reason of any action alleged to have been taken or omitted in such capacity, against all expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement actually and reasonably incurred in connection with such action, suit or proceeding and any appeal therefrom, if such Indemnitee acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, our best interests, and, with respect to any criminal action or proceeding, he or she had no reasonable cause to believe his or her conduct was unlawful. Our certificate of incorporation and bylaws provides that we will indemnify any Indemnitee who was or is a party to an action or suit by or in the right of us to procure a judgment in our favor by reason of the fact that the Indemnitee is or was, or has agreed to become, a director or officer, or is or was serving, or has agreed to serve, at our request as a director, officer, partner, employee or trustee of, or in a similar capacity with, another corporation, partnership, joint venture, trust or other enterprise, or by reason of any action alleged to have been taken or omitted in such capacity, against all expenses (including attorneys’ fees) and, to the extent permitted by law, amounts paid in settlement actually and reasonably incurred in connection with such action, suit or proceeding, and any appeal therefrom, if the Indemnitee acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, our best interests, except that no indemnification shall be made with respect to any claim, issue or matter as to which such person shall have been adjudged to be liable to us, unless a court determines that, despite such adjudication but in view of all of the circumstances, he or she is entitled to indemnification of such expenses. Notwithstanding the foregoing, to the extent that any Indemnitee has been successful, on the merits or otherwise, he or she will be indemnified by us against all expenses (including attorneys’ fees) actually and reasonably incurred in connection therewith. Expenses must be advanced to an Indemnitee under certain circumstances.

We maintain a general liability insurance policy that covers certain liabilities of directors and officers of our corporation arising out of claims based on acts or omissions in their capacities as directors or officers.

Item 15. Recent sales of unregistered securities.

Class B Common Units

During the year ended December 31, 2024, XERC issued 1.7 million Class B Common Units to Ares Acquisition Holdings, LP in connection with its drafts on the 2023 Bridge Loan, 562,483 Class B Common Units to GM Enterprises LLC and Ghaffarian Enterprises, LLC in connection with the 2024 Credit Support Fee Agreements, 124,430 to Ghaffarian Enterprises, LLC in connection with the 2024 Bridge Loan and 757,135 Class B Common Units in connection with the conversion of the C-1 Notes.

Class B-2 Common Units

During the year ended December 31, 2024, XERC issued 3,126,887 Class B-2 Common Units in connection with the issuance and modification of debt and in connection with the conversion of the C-1 Notes.

Series C Preferred Units

During the year ended December 31, 2023, XERC issued 16,340,900 Series C Preferred Units in connection with a financing, a related-party investment and the conversion of C-1 outstanding notes.

During the year ended December 31, 2024, XERC issued 20,752,520 Series C Preferred Units in connection with the conversion of the C-1 Notes, the conversion of the C-2 Notes, and the exercise of the October 2022 Warrants.

On September 30, 2025, XERC issued 2,870,172 Series C Preferred Units in connection with the conversion of XERC’s C-2 Notes.

Series C-1 Preferred Units

During the year ended December 31, 2024, XERC issued 99,672,593 Series C-1 Preferred Units in connection with a financing round of Series C-1 Preferred Units which resulted in the receipt of gross cash proceeds of approximately \$626.5 million from various investors.

C-2 Convertible Notes

In 2022 and 2023, XERC issued convertible notes payable in an aggregate principal amount of \$28.0 million and \$85.0 million (“C-2 Notes”), respectively, of which \$70.0 million of the C-2 Notes were issued to related parties. The C-2 Notes were scheduled to mature on September 30, 2025 and accrue 10.0% of payable-in-kind interest annually.

On October 11, 2024, certain of the C-2 Notes with an aggregate principal balance of \$98.0 million converted into 16,960,021 Series C Preferred Units, which was accounted for as a debt extinguishment. As of December 31, 2024, the outstanding principal, inclusive of payable-in-kind interest, on the C-2 Notes was \$18.4 million and the fair value was \$18.5 million, resulting in a cumulative loss of \$0.1 million.

In 2024, the C-2 Notes contained embedded derivatives which, absent the election of the fair value option, would have been bifurcated and accounted for at fair value. Accordingly, the fair value option was elected for the C-2 Notes.

On September 30, 2025, the outstanding principal and unpaid accrued interest on the C-2 Note were converted into 2,870,172 Series C Preferred Units, resulting in the extinguishment of the C-2 Note. Therefore, as of September 30, 2025, there was no outstanding principal on the C-2 Notes.

2024 Convertible Note

On September 26, 2024, XERC entered into a convertible note with Amazon.com NV Investment Holdings LLC in the principal amount of \$20.0 million (the “2024 Convertible Note”). While outstanding, the debt accrued paid-in-kind interest of 12% per annum, compounded quarterly. Interest expense recognized related to the 2024 Convertible Note was immaterial through September 30, 2024. On October 11, 2024, in conjunction with the Series C-1 Preferred Units financing discussed below and in accordance with the 2024 Convertible Note’s stated terms, the outstanding principal and interest of the 2024 Convertible Note of \$20.1 million was converted into 3,097,477 Series C-1 Preferred Units (“2024 Convertible Note Conversion”).

2024 Warrant Exercise and C-1 Preferred Units Issuance

In March 2026, XERC amended the 2024 Warrant to permit the holder to elect a cashless exercise of the 2024 Warrant at an earlier date than provided by the 2024 Warrant’s original terms. The warrant holder exercised the warrant on March 18, 2026 and received 19,576,222 Series C-1 Preferred Units.

2025 Warrant Issuance

On October 3, 2025, XERC issued the 2025 Warrant to a related party to purchase up to 14,123,859 Series C-1 Preferred Units at an exercise price of \$6.4870 per unit.

Series D Equity Issuance

On November 21, 2025 and November 25, 2025, XERC issued 48,134,320 and 20,635 Series D Preferred Units, respectively, and received gross cash proceeds of approximately \$700.0 million. For Series D Preferred Units specifically, if the Company undertakes a Qualified IPO, the conversion price of the Series D Preferred Units will be adjusted, if necessary, to be equal to the lesser of: (a) seventy-five percent (75%) of the price per Class A Common Unit, or the price per the equivalent common share of (i) the Company’s corporate successor following a conversion of the Company to a C corporation or (ii) the Company’s newly formed corporation member, in either scenario offered to the public in such Qualified IPO; or (b) the then-current conversion price of the Series D Preferred Units prior to such adjustment.

Class B-2 Profits Interest Units “PIU” Issuance

In May and June of 2025, XERC issued 9,794,000 additional Class B-2 PIUs to certain employees.

In July and August 2025, XERC issued an additional 471,000 Class B-2 PIUs to certain employees.

In December 2025, XERC issued 8,230,995 additional Class B-2 PIUs to certain employees.

The foregoing transaction did not involve any underwriters, underwriting discounts or commissions or any public offering. These securities were issued pursuant to the exemption from registration provided by Section 4(a)(2) of the Securities Act on the basis that the transactions did not involve a public offering. The recipients of the securities in each of these transactions represented their intentions to acquire the securities for investment only and not with a view to or for sale in connection with any distribution thereof in violation of Section 5 of the Securities Act, and as the shares are uncertificated, appropriate transfer restrictions were placed in the issuer's transfer records. All recipients had adequate access to information about us. The sales of these securities were made without any general solicitation or advertising.

In connection with the formation transactions described herein and pursuant to the terms of the Reorganization Transactions that will be completed prior to the closing of this offering, we will issue shares of our Class B common stock, representing an aggregate % non-economic interest in us, to the Continuing Equity Owners. Such issuance will not involve any underwriters, underwriting discounts or commissions or a public offering, and such issuance will be exempt from registration requirements pursuant to Section 4(a)(2) of the Securities Act.

Item 16. Exhibits.

(a) Exhibits

The following documents are filed as exhibits to this registration statement:

Exhibit Number	Description
*1.1	Form of Underwriting Agreement.
**3.1	Certificate of Incorporation of X-Energy, Inc.
**3.2	Bylaws of X-Energy, Inc.
3.3	Form of Amended and Restated Bylaws of X-Energy, Inc.
**4.1	Specimen Common Stock Certificate of X-Energy, Inc.
*5.1	Form of Opinion of Latham & Watkins LLP as to the legality of the securities being registered.
**10.1†	Form of X-Energy, Inc. 2026 Equity Incentive Plan.
**10.2†	Form Restricted Stock Unit Award Agreement under X-Energy, Inc. 2026 Equity Incentive Plan.
**10.3†	Form Option Agreement under X-Energy, Inc. 2026 Equity Incentive Plan.
**10.4†	Form of X-Energy, Inc. 2026 Employee Stock Purchase Plan.
***10.5†	Offer Letter, dated January 15, 2019, by and between X-Energy, LLC and J. Clay Sell.
***10.6†	Offer Letter, dated November 20, 2025, by and between X-Energy, LLC and Daniel Gross.
***10.7†	Offer Letter, dated September 22, 2025, by and between X-Energy Canada, Inc. and Dragan Popovic.
**10.8†	X-Energy, Inc. Non-Employee Director Compensation Program
**10.9	Form of Indemnification Agreement.
10.10	Form of Eighth Amended and Restated Limited Liability Company Agreement of X-Energy Reactor Company, LLC.
10.11	Form of Lock-Up Agreement.
10.12	Form of Master Reorganization Agreement.
10.13	Form of Tax Receivable Agreement.
10.14	Form of Fourth Amended and Restated Registration Rights Agreement
**10.15	Assistance Agreement with the U.S. Department of Energy dated February 2, 2021 (portions of this agreement have been redacted).
10.16	Joint Venture Agreement, dated November 23, 2021, by and between Intuitive Machines, LLC and X-Energy, LLC.
***10.17	Professional Services Agreement, dated December 19, 2021, by and between IBX and X-Energy, LLC.

Exhibit Number	Description
***10.18	<u>Professional Services Agreement, dated April 19, 2025, by and between Outpost Consulting Inc. and X-Energy, LLC.</u>
*21.1	List of subsidiaries of X-Energy, Inc.
23.1	<u>Consent of Ernst & Young LLP, independent registered public accounting firm to X-Energy Reactor Company, LLC.</u>
23.2	<u>Consent of Ernst & Young LLP, independent registered public accounting firm to X-Energy, Inc.</u>
*23.3	Consent of Latham & Watkins LLP (included as part of Exhibit 5.1 hereto).
**24.1	<u>Power of Attorney (included on the signature page of the initial filing of this Registration Statement).</u>
**107	<u>Calculation of Filing Fee Table.</u>

* To be filed by amendment.

** Previously filed.

*** Certain portions of this exhibit (indicated by “[**]”) have been omitted pursuant to Item 601(a)(6) of Regulation S-K.

† Management contract or compensatory plan or arrangement.

Pursuant to Item 601(b)(10)(iv) of Regulation S-K, portions of this exhibit (indicated by “[**]”) have been omitted as the registrant has determined that (i) the omitted information is not material and (ii) the omitted information is the type that the registrant treats as private or confidential. The registrant hereby agrees to furnish supplementally an unredacted copy of the exhibit to the SEC upon its request.

(b) Financial Statement Schedules

See the index to the financial statements included on page F-1 for a list of the financial statements included in this registration statement.

Item 17. Undertakings.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned registrant hereby undertakes that:

- (1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

Pursuant to the requirements of the Securities Act of 1933, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Rockville, State of Maryland, on April 3, 2026.

X-Energy, Inc.

By: /s/ J. Clay Sell

Name: J. Clay Sell

Title: Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities indicated on April 3, 2026.

Signature	Title
/s/ J. Clay Sell J. Clay Sell	Chief Executive Officer (Principal Executive Officer)
/s/ Daniel Gross Daniel Gross	Chief Financial Officer (Principal Financial Officer)
* Laura Garcia	Chief Accounting Officer (Principal Accounting Officer)
* Kamal Ghaffarian	Director
* Edward Sonnenschein	Director
* Michael J. Wallace	Director
* Kathleen W. Hyle	Director
* Christopher F. Ginther	Director
* David B. Kaplan	Director
* Allyson Satin	Director

Signature	Title
* Gregory Goff	Director
*By: /s/ Steven Miller Steven Miller Attorney-in-fact	

FORM OF
AMENDED AND RESTATED
BY-LAWS
OF
X-ENERGY, INC.

Dated as of , 2026

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ARTICLE I.
CORPORATE OFFICES

Section 1.01 Registered Office. The address of the registered office of **X-Energy, Inc.**, a Delaware corporation (the “**Corporation**”), in the State of Delaware, and the name of its registered agent at such address, shall be as set forth in the Corporation’s certificate of incorporation, as the same may be amended, restated or otherwise modified from time to time (the “**Certificate of Incorporation**”).

Section 1.02 Other Offices. The Corporation may have additional offices at any place or places, within or outside the State of Delaware, as the Corporation’s board of directors (the “**Board of Directors**”) may from time to time establish or as the business of the Corporation may require.

ARTICLE II.
MEETINGS OF STOCKHOLDERS

Section 2.01 Place of Meetings. Meetings of stockholders of the Corporation (the “**Stockholders**”), may be held at any place, within or without the State of Delaware, as may be designated by or in the manner determined by the Board of Directors. In the absence of such designation, meetings of Stockholders shall be held at the principal executive office of the Corporation. In its sole discretion, the Board of Directors may, determine that a meeting of Stockholders shall not be held at any place, but may instead be held solely by means of remote communication authorized by and in accordance with Section 211(a) of the General Corporation Law of the State of Delaware (the “**DGCL**”).

Section 2.02 Annual Meetings. The annual meeting of Stockholders shall be held for the election of members of the Board of Directors (the “**Directors**”) at such date and time as may be designated by or in the manner determined by resolution of the Board of Directors from time to time. Any other business as may be properly brought before the annual meeting of Stockholders may be transacted at the annual meeting of Stockholders. The Board of Directors may postpone, reschedule or cancel any annual meeting of Stockholders previously scheduled by the Board of Directors.

Section 2.03 Special Meetings. Special meetings of the Stockholders may be called only by such persons and only in such manner as set forth in the Certificate of Incorporation. Special meetings of Stockholders validly called in accordance with this Section 2.03 of these By-laws (as the same may be amended, restated or otherwise modified from time to time, these “**By-laws**”) may be held at such date and time as specified in the applicable notice of such meeting. No business may be transacted at any special meeting of Stockholders other than the business specified in the notice of such meeting. Except in the case of a special meeting of Stockholders called at the request of the Stockholders pursuant to the express terms of the Certificate of Incorporation, the Board of Directors may postpone, reschedule or cancel any previously scheduled special meeting of the Stockholders.

Section 2.04 Notice of Meetings. Whenever Stockholders are required or permitted to take any action at a meeting of Stockholders, a notice of the meeting shall be given. The notice shall state: (i) the place, if any, date and hour of the meeting; (ii) the means of remote communications, if any, by which Stockholders and proxy holders may be deemed to be present in person and vote at such meeting; (iii) the record date for determining the Stockholders entitled to vote at the meeting (if such date is different from the record date for Stockholders entitled to notice of the meeting); and (iv) in the case of a special meeting of the Stockholders, the purpose or purposes for which the meeting is called. Unless otherwise required by applicable law, the Certificate of Incorporation or these By-laws, the notice of any meeting of Stockholders shall be given not less than ten nor more than 60 days before the date of the meeting to each Stockholder entitled to vote at the meeting as of the record date for determining the Stockholders entitled to notice of the meeting. If mailed, such notice shall be deemed to be given when deposited in the United States mail, postage prepaid, directed to the Stockholder at such Stockholder's address as it appears on the records of the Corporation. In addition, if Stockholders have consented to receive notices by a form of electronic transmission, then such notice shall be deemed to be given when directed to an electronic mail address, respectively, at which the Stockholder has consented to receive notice. If such notice is transmitted by a posting on an electronic network together with separate notice to the Stockholder of such specific posting, such notice shall be deemed to be given upon the later of (i) such posting, and (ii) the giving of such separate notice. If such notice is transmitted by any other form of electronic transmission, such notice shall be deemed to be given when directed to the Stockholder. Notice shall be deemed to have been given to all Stockholders of record who share an address if notice is given in accordance with the "householding" rules set forth in the rules of the Securities and Exchange Commission under the Securities Exchange Act of 1934 (the "*Exchange Act*") and Section 233 of the DGCL.

Section 2.05 Adjournments. Any meeting of Stockholders, annual or special, may be adjourned from time to time by the chairperson of the meeting (or by the Stockholders in accordance with Section 2.06) to reconvene at the same or some other place, if any, and the same or some other time. Notice need not be given to the Stockholders of any such adjourned meeting if the time and place, if any, of such meeting, and the means of remote communications, if any, by which Stockholders and proxy holders may be deemed to be present in person and vote at such adjourned meeting are announced at the meeting at which the adjournment is taken. At the adjourned meeting of Stockholders, the Corporation may transact any business that might have been transacted at the original meeting of Stockholders. If the adjournment is for more than 30 days, a notice of the adjourned meeting of Stockholders shall be given to each Stockholder of record entitled to vote at the adjourned meeting of Stockholders. If after the adjournment a new record date for determination of Stockholders entitled to vote is fixed for the adjourned meeting of Stockholders. The Board of Directors shall fix a new record date for determining Stockholders entitled to notice of such adjourned meeting of Stockholders in accordance with Section 2.09(a) of these By-laws, and shall give notice of the adjourned meeting of Stockholders to each Stockholder of record entitled to vote at such adjourned meeting of Stockholders as of the record date fixed for notice of such adjourned meeting of Stockholders. If mailed, such notice shall be deemed to be given when deposited in the United States mail, postage prepaid, directed to the Stockholder at such Stockholder's address as it appears on the records of the Corporation.

Section 2.06 Quorum. At any meeting of the Stockholders, the holders of a majority of the voting power of the issued and outstanding shares of capital stock of the Corporation (“**Stock**”) entitled to vote at the meeting, present in person, or by remote communication, if applicable, or represented by proxy, shall constitute a quorum for all purposes, unless or except to the extent that the presence of a larger number may be required by applicable law, the rules of any stock exchange upon which the Corporation’s securities are listed, the Certificate of Incorporation or these By-laws. In the absence of a quorum, then either (i) the chairperson of the meeting or (ii) the Stockholders by the affirmative vote of a majority of the voting power of the outstanding shares of Stock entitled to vote thereon, present in person, or by remote communication, if applicable, or represented by proxy, shall have the power to recess or adjourn the meeting of Stockholders from time to time in the manner provided in Section 2.05 of these By-laws until a quorum is present or represented. At any such recessed or adjourned meeting at which a quorum is present or represented, any business may be transacted that might have been transacted at the meeting as originally noticed. Where a separate vote by a class or classes or series of Stock is required by applicable law or the Certificate of Incorporation, the holders of a majority of voting power of the shares of such class or classes or series of Stock issued and outstanding and entitled to vote on such matter, present in person, or by remote communication, if applicable, or represented by proxy, shall constitute a quorum entitled to take action with respect to the vote on such matter. A quorum, once established at a meeting, shall not be broken by the withdrawal of enough votes to leave less than a quorum.

Section 2.07 Organization. Meetings of Stockholders shall be presided over by the Chairperson or by such other officer of the Corporation or Director as designated by the Board of Directors or the Chairperson. In the absence of such person or designation, then the chairperson for the meeting shall be chosen by the affirmative vote of a majority of the voting power of the outstanding shares of Stock present or represented at the meeting and entitled to vote at the meeting (provided there is a quorum). The Secretary of the Corporation (“**Secretary**”) shall act as secretary of the meeting, but in such person’s absence, the chairperson of the meeting may appoint any person to act as secretary of the meeting.

Section 2.08 Voting; Proxies.

(a) Each Stockholder entitled to vote at any meeting of Stockholders shall be entitled to the number of votes, if any, for each share of Stock held of record by such Stockholder that has voting power upon the matter in question as set forth in the Certificate of Incorporation or, if such voting power is not set forth in the Certificate of Incorporation, one vote per share. Voting at meetings of Stockholders need not be by written ballot. Unless otherwise provided in the Certificate of Incorporation, at all meetings of Stockholders for the election of Directors at which a quorum is present, a majority of the votes cast shall be sufficient to elect Directors. No holder of shares of Stock shall have the right to cumulate votes. All other elections and questions presented to the Stockholders at a meeting at which a quorum is present shall be decided by the affirmative vote of the holders of a majority of votes cast (excluding abstentions and broker non-votes) on such matter, unless a different or minimum vote is required by the Certificate of Incorporation, these By-laws, the rules or regulations of any stock exchange applicable to the Corporation, or applicable law or pursuant to any regulation applicable to the Corporation or its securities, in which case such different or minimum vote shall be the applicable vote on the matter.

(b) Each Stockholder entitled to vote at a meeting of Stockholders or express consent to corporate action in writing without a meeting (if permitted by the Certificate of Incorporation) may authorize another person or persons to act for such Stockholder by proxy authorized by an instrument in writing or by a transmission permitted by law, including Rule 14a-19 promulgated under the Exchange Act, filed in accordance with the procedure established for the meeting. No such proxy shall be voted or acted upon after three years from its date, unless the proxy provides for a longer period. The revocability of a proxy that states on its face that it is irrevocable shall be governed by the provisions of Section 212 of the DGCL. A Stockholder may revoke any proxy that is not irrevocable by attending the meeting and voting in person (or by means of remote communication, if applicable) or by delivering to the Secretary a revocation of the proxy or a new proxy bearing a later date. A proxy may be in the form of an electronic transmission that sets forth or is submitted with information from which it can be determined that the transmission was authorized by the Stockholder.

Section 2.09 Fixing Date for Determination of Stockholders of Record.

(a) In order that the Corporation may determine the Stockholders entitled to notice of any meeting of Stockholders or any adjournment of such meeting, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board of Directors. Unless otherwise required by applicable law, any such record date shall not be more than 60 nor less than ten days before the date of such meeting. If the Board of Directors so fixes a date, such date shall also be the record date for determining the Stockholders entitled to vote at such meeting. Notwithstanding the foregoing, at the time it fixes such record date, the Board of Directors may determine, that a later date on or before the date of the meeting shall be the date for making such determination. If no record date is fixed by the Board of Directors, the record date for determining Stockholders entitled to notice of and to vote at a meeting of Stockholders shall be at the close of business on the day immediately preceding the day on which notice is given, or, if notice is waived, at the close of business on the day immediately preceding the day on which the meeting is held. A determination of Stockholders of record entitled to notice of or to vote at a meeting of Stockholders shall apply to any adjournment of the meeting. The Board of Directors may, however, fix a new record date for determination of Stockholders entitled to vote at the adjourned meeting. In such event the Board of Directors shall also fix as the record date for Stockholders entitled to notice of such adjourned meeting the same or an earlier date as that fixed for determination of Stockholders entitled to vote in accordance with the foregoing provisions of this Section 2.09(a) at the adjourned meeting.

(b) In order that the Corporation may determine the Stockholders entitled to receive payment of any dividend or other distribution or allotment of any rights, or entitled to exercise any rights in respect of any change, conversion or exchange of Stock or for the purpose of any other lawful action, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted. Any such record date shall not be more than 60 days prior to such action. If no such record date is fixed, the record date for determining Stockholders for any such purpose shall be at the close of business on the day on which the Board of Directors adopts the resolution relating to such record date.

(c) Unless otherwise restricted by the Certificate of Incorporation, in order that the Corporation may determine the Stockholders entitled to consent to corporate action in writing without a meeting, the Board of Directors may fix a record date, which record date shall not precede the date upon which the resolution fixing the record date is adopted by the Board of Directors. Any such record date shall not be more than ten days after the date upon which the resolution fixing the record date is adopted by the Board of Directors. If no record date for determining Stockholders entitled to consent to corporate action in writing without a meeting is fixed by the Board of Directors, (i) when no prior action of the Board of Directors is required by applicable law or the Certificate of Incorporation, the record date for such purpose shall be the first date on which a signed written consent setting forth the action taken or proposed to be taken is delivered to the Corporation in accordance with applicable law and (ii) if prior action by the Board of Directors is required by applicable law or the Certificate of Incorporation, the record date for such purpose shall be at the close of business on the day on which the Board of Directors adopts the resolution taking such prior action.

Section 2.10 List of Stockholders Entitled to Vote. At least ten days before every meeting of Stockholders, the Corporation shall prepare a complete list of the Stockholders entitled to vote at the meeting arranged in alphabetical order and showing the address of each Stockholder and the number of shares registered in the name of each Stockholder as of the record date (or such other date). In the event the record date for determining the Stockholders entitled to vote is less than ten days before the date of the meeting, the list referenced in the preceding sentence shall reflect the Stockholders entitled to vote as of the tenth day before the meeting date). The Corporation shall not be required to include electronic mail addresses or other electronic contact information on such list. Such list shall be open to the examination of any Stockholder, for any purpose germane to the meeting at least ten days prior to the meeting (i) on a reasonably accessible electronic network, *provided* that the information required to gain access to such list is provided with the notice of the meeting or (ii) during ordinary business hours at the principal place of business of the Corporation. In the event that the Corporation determines to make the list available on an electronic network, the Corporation may take reasonable steps to ensure that such information is available only to Stockholders. Such list shall presumptively determine the identity of the Stockholders entitled to vote at the meeting and the number of shares held by each of them. Except as otherwise provided by law, the “stock ledger” shall be the only evidence as to the Stockholders entitled to examine the list of Stockholders required by this Section 2.10 or to vote in person or by proxy at any meeting of Stockholders. For purposes of these By-laws, the term “stock ledger” means one or more records administered by or on behalf of the Corporation in which the names of all of the Corporation’s Stockholders of record, the address and number of shares registered in the name of each such Stockholder and all issuances and transfers of Stock are recorded.

Section 2.11 Inspectors of Election. In advance of any meeting of Stockholders, the Corporation may, and shall if required by law, appoint one or more inspectors of election, who may be employees of the Corporation, to act at the meeting or any adjournment of such meeting and to make a written report of such meeting. The Corporation may designate one or more persons as alternate inspectors to replace any inspector who fails to act. In the event that no inspector so appointed or designated is able to act at a meeting of Stockholders, the person presiding at the meeting may, and to the extent required by law, shall appoint one or more inspectors to act at the meeting. Each inspector, before entering upon the discharge of his or her duties, shall take and sign an oath to execute faithfully the duties of inspector with strict impartiality and according to the best of such person's ability. Any report or certificate made by the inspectors of election is prima facie evidence of the facts stated in any such report or certificate. The inspector or inspectors of election may appoint such persons to assist them in performing their duties as they determine. The inspector or inspectors so appointed or designated shall: (i) ascertain the number of shares of Stock outstanding and the voting power of each such share; (ii) determine the number of shares of Stock represented at the applicable meeting of the Stockholders and the validity of proxies and ballots; (iii) count and tabulate all votes and ballots; (iv) determine and retain for a reasonable period a record of the disposition of any challenges made to any determination by the inspectors; and (v) certify their determination of the number of shares of Stock represented at the meeting and such inspectors' count of all votes and ballots. Any certification and report shall specify such other information as may be required by applicable law. In determining the validity and counting of proxies and ballots cast at any meeting of Stockholders, the inspectors may consider any information permitted by applicable law. No person who is a candidate for an office at an election may serve as an inspector at such election. The inspectors may appoint or retain other persons to assist them in the performance of their duties.

Section 2.12 Conduct of Meetings. The date and time of the opening and the closing of the polls for each matter upon which the Stockholders will vote at a meeting of the Stockholders shall be announced at the meeting by the person presiding over the meeting designated in accordance with Section 2.07. After the polls close, no ballots, proxies or votes or any revocations or changes may be accepted. The Board of Directors may adopt by resolution such rules and regulations for the conduct of the meeting of Stockholders as it deems appropriate. Except to the extent inconsistent with any rules and regulations adopted by the Board of Directors, the person presiding over any meeting of Stockholders shall have the right and authority to: (i) convene and (for any or no reason) to recess and/or adjourn the meeting; and (ii) prescribe such rules, regulations and procedures and to do all such acts as, in the judgment of such presiding person, are appropriate for the proper conduct of the meeting. Such rules, regulations or procedures, whether adopted by the Board of Directors or prescribed by the presiding person of the meeting, may include, without limitation, the following: (i) the establishment of an agenda or order of business for the meeting; (ii) rules and procedures for maintaining order at the meeting and the safety of those present; (iii) limitations on attendance at or participation in the meeting to Stockholders entitled to vote at the meeting, their duly authorized and constituted proxies or such other persons as the presiding person of the meeting shall determine; (iv) restrictions on entry to the meeting after the time fixed for the commencement of the meeting; and (v) limitations on the time allotted to questions or comments by participants. In addition to making any other determinations that may be appropriate to the conduct of the meeting, the presiding person at any meeting of Stockholders, shall, if the facts warrant, determine that a matter or business was not properly brought before the meeting. In the event of any such determination, the presiding person shall announce their determination to the meeting and any such matter or business not properly brought before the meeting shall not be transacted or considered. Unless and to the extent determined by the Board of Directors or the person presiding over the applicable meeting of Stockholders, meetings of Stockholders shall not be required to be held in accordance with the rules of parliamentary procedure.

Section 2.13 Advance Notice Procedures for Business Brought before a Meeting. This Section 2.13 shall apply to any business that may be brought before an annual meeting of Stockholders other than nominations for election to the Board of Directors at such a meeting, which shall be governed by Section 2.14. Stockholders seeking to nominate persons for election to the Board of Directors must comply with Section 2.14. This Section 2.13 shall not be applicable to nominations for election to the Board of Directors except as expressly provided in Section 2.14.

(a) At an annual meeting of the Stockholders, the only business that shall be conducted is such business that has been properly brought before the meeting. To be properly brought before an annual meeting of the Stockholders, business must be: (a) specified in a notice of meeting of the Stockholders (or any supplement or amendment thereto) given by or at the direction of the Board of Directors or a duly authorized committee of the Board; (b) if not specified in a notice of meeting of the Stockholders, otherwise brought before the meeting by the Board of Directors or the chairperson of the meeting; or (c) otherwise properly brought before the meeting by a Stockholder present in person, or by remote communication. To properly bring a matter for consideration at an annual meeting, a Stockholder must: (A) (i) be a Stockholder of record of the Corporation both at the time of giving the notice provided for in this Section 2.13 and at the time of the meeting; (ii) be entitled to vote at the meeting; and (iii) be in compliance with this Section 2.13 in all respects; or (B) have properly made such proposal in accordance with Rule 14a-8 under the Exchange Act, which proposal has been included in the proxy statement for such annual meeting of the Stockholders. The foregoing clause (c) shall be the exclusive means for a Stockholder to propose business to be brought before an annual meeting of the Stockholders. The only matters that may be brought before a special meeting of the Stockholders are the matters specified in the Corporation's notice of meeting of the Stockholders given by or at the direction of the person calling the meeting pursuant to the Certificate of Incorporation and Section 2.03. For purposes of this Section 2.13 and Section 2.14, "**present in person**" shall mean that the Stockholder proposing that the business be brought before the annual meeting or special meeting of the Stockholders, as applicable. If the proposing Stockholder is not an individual, then a qualified representative of such proposing Stockholder may appear in person at such annual or special meeting of the Stockholders. For purposes of this Section 2.13, a "**qualified representative**" of such proposing Stockholder shall be, if such proposing Stockholder is (x) a general or limited partnership, any general partner or person who functions as a general partner of the general or limited partnership or who controls the general or limited partnership; (y) a corporation or a limited liability company, any officer or person who functions as an officer of the corporation or limited liability company or any officer, director, general partner or person who functions as an officer, director or general partner of any entity ultimately in control of the corporation or limited liability company; or (z) a trust, any trustee of such trust.

(b) To properly bring a matter for consideration at an annual meeting of the Stockholders, a Stockholder must: (a) provide Timely Notice in writing and in proper form to the Secretary; and (b) provide any updates or supplements to such notice at the times and in the forms required by this Section 2.13. To be timely, a Stockholder's notice must be delivered to, or mailed and received at, the principal executive offices of the Corporation not less than 90 days nor more than 120 days prior to the one-year anniversary of the immediately preceding year's annual meeting. With respect to the first annual meeting of Stockholders following the Effective Time (as defined in the Certificate of Incorporation), the date for timely notice shall be . In the event that the date of the annual meeting of the Stockholders is more than 30 days before or more than 60 days after such anniversary date, to be timely, notice by a Stockholder must be delivered, or mailed and received, not later than the later of (A) the 90th day prior to such annual meeting and (B) the 10th day following the day on which public disclosure of the date of such annual meeting was first made (such notice within such time periods, "**Timely Notice**"). In no event shall any adjournment or postponement of an annual meeting or the announcement thereof commence a new time period for the giving of Timely Notice as described above.

(c) To be in proper form for purposes of this Section 2.13, a Stockholder's notice to the Secretary shall set forth:

(i) As to each Proposing Person: (A) the name and address of such Proposing Person (including, if applicable, the name and address that appear on the Corporation's books and records); and (B) the number of shares of each class or series of Stock of the Corporation that are, directly or indirectly, owned of record or beneficially owned (within the meaning of Rule 13d-3 under the Exchange Act) by such Proposing Person. A Proposing Person shall in all events be deemed to beneficially own any shares of any class or series of Stock of the Corporation as to which such Proposing Person has a right to acquire beneficial ownership at any time in the future (the disclosures to be made pursuant to the foregoing clauses (A) and (B) are referred to as "**Stockholder Information**");

(ii) As to each Proposing Person, the full notional amount of any securities that, directly or indirectly, underlie any "derivative security" (as such term is defined in Rule 16a-1(c) under the Exchange Act) that constitutes a "call equivalent position" (as such term is defined in Rule 16a-1(b) under the Exchange Act) ("**Synthetic Equity Position**") and that is, directly or indirectly, held or maintained by such Proposing Person with respect to any shares of any class or series of Stock of the Corporation. For the purposes of the definition of "Synthetic Equity Position," the term "derivative security" shall also include any security or instrument that would not otherwise constitute a "derivative security" as a result of any feature that would make any conversion, exercise or similar right or privilege of such security or instrument becoming determinable only at some future date or upon the happening of a future occurrence, in which case the determination of the amount of securities into which such security or instrument would be convertible or exercisable shall be made assuming that such security or instrument is immediately convertible or exercisable at the time of such determination. For the avoidance of doubt, any Proposing Person satisfying the requirements of Rule 13d-1(b)(1) under the Exchange Act (other than a Proposing Person that so satisfies Rule 13d-1(b)(1) under the Exchange Act solely by reason of Rule 13d-1(b)(1)(ii)(E)) shall not be deemed to hold or maintain the notional amount of any securities that underlie a Synthetic Equity Position held by such Proposing Person as a hedge with respect to a bona fide derivatives trade or position of such Proposing Person arising in the ordinary course of such Proposing Person's business as a derivatives dealer. The notice for each Proposing Person shall also set forth: (A) any rights to dividends on the shares of any class or series of Stock of the Corporation owned beneficially by such Proposing Person that are separated or separable from the underlying shares of the Corporation; (B) any material pending or threatened legal proceeding in which such Proposing Person is a party or material participant involving the Corporation or any of its officers or Directors, or any affiliate of the Corporation; (C) any other material relationship between such Proposing Person, on the one hand, and the Corporation or any affiliate of the Corporation, on the other hand, (E) any direct or indirect material interest in any material contract or agreement of such Proposing Person with the Corporation or any affiliate of the Corporation (including, in any such case, any employment agreement, collective bargaining agreement or consulting agreement); and (D) any other information relating to such Proposing Person that would be required to be disclosed in a proxy statement or other filing required to be made in connection with solicitations of proxies or consents by such Proposing Person in support of the business proposed to be brought before the applicable meeting of the Stockholders pursuant to Section 14(a) of the Exchange Act. The disclosures to be made pursuant to this Section 2.13(c)(ii) are referred to as "**Disclosable Interests**"; *provided, however*, that Disclosable Interests shall not include any such disclosures with respect to the ordinary course business activities of any broker, dealer, commercial bank, trust company or other nominee who is a Proposing Person solely as a result of being the Stockholder directed to prepare and submit the notice required by these By-laws on behalf of a beneficial owner; and

(iii) As to each item of business that the Stockholder proposes to bring before the annual meeting of the Stockholders: (A) a brief description of the business desired to be brought before the annual meeting, the reasons for conducting such business at the annual meeting and any material interest in such business of each Proposing Person; (B) the text of the proposal or business (including the text of any resolutions proposed for consideration and the text of any proposed amendment to these By-laws); (C) a reasonably detailed description of all agreements, arrangements and understandings (x) between or among any of the Proposing Persons or (y) between or among any Proposing Person and any other person or entity (including their names) in connection with the proposal of such business by such Stockholder; and (D) any other information relating to such item of business that would be required to be disclosed in a proxy statement or other filing required to be made in connection with solicitations of proxies in support of the business proposed to be brought before the meeting pursuant to Section 14(a) of the Exchange Act. The disclosures required by this Section 2.13(c)(iii) shall not include, however, any disclosures with respect to any broker, dealer, commercial bank, trust company or other nominee who is a Proposing Person solely as a result of being the Stockholder directed to prepare and submit the notice required by these By-laws on behalf of a beneficial owner.

(d) The term “**Proposing Person**” shall mean (a) the Stockholder providing the notice of business proposed to be brought before an annual meeting of the Stockholders, (b) the beneficial owner or beneficial owners, if different, on whose behalf the notice of the business proposed to be brought before the annual meeting of the Stockholders is made, and (c) any participant (as defined in paragraphs (a)(ii)-(vi) of Instruction 3 to Item 4 of Schedule 14A) with such Stockholder in such solicitation.

(e) A Proposing Person shall update and supplement its notice to the Corporation of its intent to propose business at an annual meeting of the Stockholders, if necessary, so that the information provided or required to be provided in such notice pursuant to this Section 2.13 shall be true and correct as of the record date for notice of the meeting and as of the date that is 10 business days prior to the meeting or any adjournment or postponement of the meeting. Any such update and supplement shall be delivered to, or mailed and received by, the Secretary at the principal executive offices of the Corporation not later than five business days after the record date for notice of the meeting. In the case of the update and supplement required to be made as of the record date, any update and supplement shall be delivered to, or mailed and received by, the Secretary at the principal executive offices of the Corporation not later than eight business days prior to the date for the meeting or, if practicable, any adjournment or postponement of the meeting. If delivery as set forth in the preceding sentence is not practicable, delivery shall be effected on the first practicable date prior to the date to which the meeting has been adjourned or postponed) (in the case of the update and supplement required to be made as of ten business days prior to the meeting or any adjournment or postponement thereof).

(f) Notwithstanding anything in these By-laws to the contrary, no business shall be conducted at an annual meeting of the Stockholders that is not properly brought before the meeting in accordance with this Section 2.13. If the facts warrant, the presiding officer of the meeting shall determine that the business was not properly brought before the meeting in accordance with this Section 2.13. The presiding person shall announce any such determination to the meeting and any such business not properly brought before the meeting shall not be transacted.

(g) In addition to the requirements of this Section 2.13 with respect to any business proposed to be brought before an annual meeting of the Stockholders, each Proposing Person shall comply with all applicable requirements of the Exchange Act with respect to any such business. Nothing in this Section 2.13 shall be deemed to affect the rights of Stockholders to request inclusion of proposals in the Corporation's proxy statement pursuant to Rule 14a-8 under the Exchange Act.

(h) "**Public disclosure**" means disclosure in a press release reported by a national news service or in a document publicly filed by the Corporation with the Securities and Exchange Commission pursuant to Sections 13, 14 or 15(d) of the Exchange Act.

Section 2.14 Advance Notice Procedures for Nominations of Directors.

(a) Nominations of any person for election to the Board of Directors at an annual meeting or at a special meeting of the Stockholders may be made at such meeting only: (a) by or at the direction of the Board of Directors, including by any committee or persons authorized to do so by the Board of Directors or these By-laws; or (b) by a Stockholder present in person (as defined in Section 2.13) (1) who was a Stockholder of record of the Corporation both at the time of giving the notice provided for in this Section 2.14 and at the time of the meeting, (2) is entitled to vote at the meeting and (3) has complied with this Section 2.14 as to such notice and nomination. Nominations of any person for election to the Board can only occur if the election of Directors is a matter specified in the notice of meeting given by or at the direction of the person calling such special meeting of the Stockholders. This Section 2.14 shall be the exclusive means for a Stockholder to make any nomination of a person or persons for election to the Board of Directors at any annual meeting or special meeting of the Stockholders.

(b)

(i) For a Stockholder to make any nomination of a person or persons for election to the Board of Directors at an annual meeting of the Stockholders, the Stockholder must (a) provide Timely Notice (as defined in [Section 2.13\(b\)](#)) in writing and in proper form to the Secretary at the principal executive offices of the Corporation; (b) provide the information, agreements and questionnaires with respect to such Stockholder and such Stockholder's candidate for nomination as required by this [Section 2.14](#); and (c) provide any updates or supplements to such notice at the times and in the forms required by this [Section 2.14](#).

(ii) If the election of Directors is a matter specified in the notice of meeting given by or at the direction of the person calling a special meeting of the Stockholders, then for a Stockholder to make any nomination of a person or persons for election to the Board of Directors at a special meeting of the Stockholders, the Stockholder must: (a) provide timely notice in writing and in proper form to the Secretary at the principal executive offices of the Corporation; (b) provide the information, agreements and questionnaires with respect to such Stockholder and its candidate for nomination required by this [Section 2.14](#); and (c) provide any updates or supplements to such notice at the times and in the forms required by this [Section 2.14](#). To be timely for purposes of this [Section 2.14\(b\)\(ii\)](#), a Stockholder's notice for nominations to be made at a special meeting of the Stockholders must be delivered to, or mailed to and received by the Secretary not earlier than the 120th day prior to such special meeting and not later than the 90th day prior to such special meeting or, if later, the tenth day following the day on which public disclosure (as defined in [Section 2.13\(h\)](#)) of the date of such special meeting was first made.

(iii) In no event shall any adjournment or postponement of an annual meeting or special meeting of the Stockholders, or the announcement of such adjournment or postponement, commence a new time period for the giving of a Stockholder's notice as described above.

(iv) In no event may a Nominating Person provide notice under this [Section 2.14](#) or otherwise with respect to a greater number of Director candidates than are subject to election by Stockholders at the applicable meeting. If, subsequent to such notice, the Corporation shall increase the number of Directors subject to election at the meeting, any notice as to any additional nominees shall be due on the later of: (i) the conclusion of the time period for Timely Notice (with respect to an annual meeting of the Stockholders); (ii) the date set forth in [Section 2.14\(b\)\(ii\)](#) (with respect to a special meeting); or (iii) the tenth day following the date of public disclosure (as defined in [Section 2.13\(h\)](#)) of such increase.

(c) To be in proper form for purposes of this [Section 2.14](#), a Stockholder's notice to the Secretary shall set forth:

(i) As to each Nominating Person, the Stockholder Information (as defined in [Section 2.13\(c\)\(i\)](#)) except that the term "Nominating Person" shall be substituted for the term "Proposing Person" in all places it appears in [Section 2.13\(c\)\(i\)](#);

(ii) As to each Nominating Person, any Disclosable Interests (as defined in Section 2.13(c)(ii)), except that the term “Nominating Person” shall be substituted for the term “Proposing Person” in all places it appears in Section 2.13(c)(ii) and the disclosure with respect to the business to be brought before the meeting of the Stockholders in Section 2.13(c)(iii) shall be made with respect to nomination of each person for election as a Director at such meeting); and

(iii) As to each candidate whom a Nominating Person proposes to nominate for election as a Director, (A) all information with respect to such candidate for nomination that would be required to be set forth in a Stockholder’s notice pursuant to this Section 2.14 if such candidate for nomination were a Nominating Person; (B) all information relating to such candidate for nomination that is required to be disclosed in a proxy statement or other filings required to be made in connection with solicitations of proxies for election of Directors in a contested election pursuant to Section 14(a) under the Exchange Act (including such candidate’s written consent to being named in the Corporation’s proxy statement as a nominee and to serving as a Director if elected); (C) a description of any direct or indirect material interest in any material contract or agreement between or among any Nominating Person, on the one hand, and each candidate for nomination or any other participants in such solicitation, on the other hand, including all information that would be required to be disclosed pursuant to Item 404 under Regulation S-K if such Nominating Person were the “registrant” for purposes of such rule and the candidate for nomination were a Director or executive officer of such registrant; and (D) a completed and signed questionnaire, representation and agreement as provided in Section 2.14(f).

(d) The term “**Nominating Person**” means (a) the Stockholder providing the notice of the nomination proposed to be made at the meeting of the Stockholders; (b) the beneficial owner or beneficial owners, if different, on whose behalf the notice of the nomination proposed to be made at the meeting is made; and (c) any other participant in such solicitation.

(e) A Stockholder providing notice of any nomination proposed to be made at a meeting of the Stockholders shall further update and supplement such notice, if necessary, so that the information provided or required to be provided in such notice pursuant to this Section 2.14 shall be true and correct as of the record date for notice of the meeting and as of the date that is ten business days prior to the meeting or any adjournment or postponement of the meeting. Any such update and supplement shall be delivered to, or mailed and received by, the Secretary at the principal executive offices of the Corporation not later than five business days after the record date for notice of the meeting (in the case of the update and supplement required to be made as of such record date), and not later than eight business days prior to the date for the meeting or, if practicable, any adjournment or postponement of the meeting. In the event such delivery is not practicable, delivery shall be effected on the first practicable date prior to the date to which the meeting has been adjourned or postponed) (in the case of the update and supplement required to be made as of ten business days prior to the meeting or any adjournment or postponement thereof).

(f) To be eligible to be a candidate for election as a Director at an annual or special meeting of the Stockholders, a candidate must be nominated in the manner prescribed in this Section 2.14. Whether nominated by the Board of Directors or by a Stockholder of record, any candidate must have previously delivered (in accordance with the time period prescribed for delivery in a notice to such candidate given by or on behalf of the Board of Directors), to the Secretary at the principal executive offices of the Corporation: (a) a completed written questionnaire (in the form provided by the Corporation) with respect to the background, qualifications, stock ownership and independence of such candidate for nomination; and (b) a written representation and agreement (in the form provided by the Corporation) that such candidate for nomination (A) is not, and will not become a party to, any agreement, arrangement or understanding with any person or entity other than the Corporation with respect to any direct or indirect compensation or reimbursement for service as a Director that has not been disclosed in such written questionnaire and (B) if elected as a Director, will comply with all applicable corporate governance, conflict of interest, confidentiality, stock ownership and trading and other policies and guidelines of the Corporation applicable to all Directors and in effect during such person's term in office as a Director (and, if requested by any candidate for nomination, the Secretary shall provide to such candidate for nomination all such policies and guidelines then in effect).

(g) The Board of Directors may also require any proposed candidate for nomination as a Director to furnish such other information as may reasonably be requested by the Board of Directors in writing prior to the meeting of Stockholders at which such candidate's nomination is to be acted upon in order for the Board of Directors to determine the eligibility of such candidate for nomination to be an independent Director in accordance with the Corporation's Corporate Governance Guidelines.

(h) In addition to the requirements of this Section 2.14 with respect to any nomination proposed to be made at a meeting, each Proposing Person shall comply with all applicable requirements of the Exchange Act with respect to any such nominations.

(i) No candidate shall be eligible for nomination as a Director unless such candidate for nomination and the Nominating Person seeking to place such candidate's name in nomination has complied with this Section 2.14. If the facts warrant, the presiding officer at the meeting shall determine that a nomination was not properly made in accordance with this Section 2.14. In the event of any such determination, the presiding person shall announce their determination to the meeting and the defective nomination shall be disregarded. Any ballots cast for the candidate in question (but in the case of any form of ballot listing other qualified nominees, only the ballots cast for the nominee in question) shall be void and of no force or effect.

(j) Notwithstanding anything to the contrary in these By-laws, no candidate for nomination shall be eligible to be seated as a Director unless nominated and elected in accordance with this Section 2.14.

(k) Notwithstanding the foregoing provisions of this Section 2.14, unless otherwise required by law, if any Nominating Person provides notice pursuant to Rule 14a-19(b) promulgated under the Exchange Act and subsequently fails to comply with the requirements of Rule 14a-19(a)(2) and Rule 14a-19(a)(3) promulgated under the Exchange Act, then the Corporation shall disregard any proxies or votes solicited for the Nominating Person's nominee. Upon request by the Corporation, if any Nominating Person provides notice pursuant to Rule 14a-19(b) promulgated under the Exchange Act, such Nominating Person shall deliver to the Corporation, no later than five business days prior to the applicable meeting, reasonable evidence that it has met the requirements of Rule 14a-19(a)(3) promulgated under the Exchange Act.

Section 2.15 Delivery to the Corporation. Whenever this Article II requires one or more persons (including a record or beneficial owner of Stock) to deliver a document or information to the Corporation or any officer, employee or agent of the Corporation, such document or information shall be in writing exclusively (and not in an electronic transmission) and shall be delivered exclusively by hand (including, without limitation, overnight courier service) or by certified or registered mail, return receipt requested. Without limiting the generality of the foregoing, the requirements set forth in the preceding sentence shall apply to any notice, request, questionnaire, revocation, representation or other document or agreement and the Corporation shall not be required to accept delivery of any document not in such written form or so delivered. For the avoidance of doubt, the Corporation expressly opts out of Section 116 of the DGCL with respect to the delivery of information and documents to the Corporation required by this Article II.

ARTICLE III.
BOARD OF DIRECTORS

Section 3.01 Powers. Except as otherwise provided by the Certificate of Incorporation or the DGCL, the business and affairs of the Corporation shall be managed by or under the direction of the Board of Directors.

Section 3.02 Number; Tenure; Qualifications. Subject to the Certificate of Incorporation and the rights of holders of any series of preferred Stock to elect Directors, the total number of Directors constituting the entire Board of Directors shall be fixed from time to time exclusively by resolution of the Board of Directors, each of whom shall be a natural person. No reduction of the authorized number of directors shall have the effect of removing any director before that director's term of office expires. The Directors shall be classified in the manner provided in the Certificate of Incorporation. Each Director shall hold office until such time as provided in the Certificate of Incorporation. Directors need not be Stockholders to be qualified for election or service as a Director.

Section 3.03 Election, Qualification and Term of Office of Directors. Except as provided in these By-laws, and subject to the Certificate of Incorporation, each Director, including a Director elected to fill a vacancy or newly created directorship, shall hold office until the expiration of the term of the class, if any, for which elected and until such Director's successor is elected and qualified or until such Director's earlier death, resignation, disqualification or removal. Directors need not be Stockholders. The Certificate of Incorporation or these By-laws may prescribe qualifications for Directors.

Section 3.04 Resignation and Vacancies.

(a) Any Director may resign at any time upon notice given in writing or by electronic transmission to the Corporation. The resignation shall take effect at the time specified in such writing or electronic transmission or upon the happening of an event specified in such notice or electronic transmission, and if no time or event is specified, at the time of its receipt. When one or more Directors so resigns and the resignation is effective at a future date or upon the happening of an event to occur on a future date, a majority of the Directors then in office, including those who have so resigned, shall have power to fill such vacancy or vacancies. The appointment of the newly elected directors shall take effect upon the resignation or resignations of such resigning Directors and each Director so chosen shall hold office as provided in Section 3.03.

(b) Unless otherwise provided in the Certificate of Incorporation or these By-laws, vacancies resulting from the death, resignation, disqualification or removal of any Director, and newly created directorships resulting from any increase in the authorized number of Directors shall be filled only by a majority of the Directors then in office, although less than a quorum, or by a sole remaining Director.

Section 3.05 Regular Meetings. Regular meetings of the Board of Directors may be held at such places, if any, within or without the State of Delaware. Such regular meetings shall be held at times designated by the Board of Directors and publicized among all Directors, either orally or in writing, by telephone, including a voice-messaging system or other system designed to record and communicate messages, facsimile, telegraph or telex, or by electronic mail or other means of electronic transmission. No further notice shall be required for regular meetings of the Board of Directors.

Section 3.06 Special Meetings. Special meetings of the Board of Directors may be called by the Chairperson, the Chief Executive Officer, the President, the Secretary or a majority of the Directors then in office. Any such special meetings shall be held at such time, date and place, if any, within or without the State of Delaware as they shall fix. Notice to Directors of the date, place and time of any special meeting of the Board of Directors shall be given to each Director by the Secretary or by the officer or one of the Directors calling the meeting. Such notice may be given in person, by United States first-class mail, or by e-mail, telephone, telecopier, facsimile or other means of electronic transmission. If the notice is delivered in person, by e-mail, telephone, telecopier, facsimile or other means of electronic transmission, it shall be delivered or sent at least 24 hours before the time of holding of the meeting. If the notice is sent by mail, it shall be deposited in the United States mail at least four days before the time of the holding of the meeting. The notice need not specify the place of the meeting if the meeting is to be held at the Corporation's principal executive office nor the purpose of the meeting.

Section 3.07 Place of Meetings; Telephonic Meetings. The Board of Directors may hold meetings, both regular and special, either within or outside the State of Delaware. Unless otherwise restricted by the Certificate of Incorporation or these By-laws, Directors may participate in any meetings of the Board of Directors or a committee thereof by means of conference telephone or other communications equipment by means of which all persons participating in the meeting can hear each other. Participation in a meeting of the Board of Directors pursuant to this Section 3.07 shall constitute presence in person at such meeting.

Section 3.08 Quorum; Vote Required for Action. Unless otherwise provided by the Certificate of Incorporation, at all meetings of the Board of Directors a majority of the total number of Directors shall constitute a quorum for the transaction of business. Notwithstanding the foregoing and solely for the purposes of filling vacancies pursuant to Section 3.04, a meeting of the Board of Directors may be held if a majority of the Directors then in office participate in such meeting. The affirmative vote of a majority of the Directors present at any meeting of the Board of Directors at which a quorum is present shall be the act of the Board of Directors, except as may be otherwise specifically required by applicable law, the Certificate of Incorporation or these By-laws. If a quorum is not present at any meeting of the Board of Directors, then the Directors present at the meeting may adjourn the meeting from time to time, without notice other than announcement at the meeting, until a quorum is present.

Section 3.09 Organization. Meetings of the Board of Directors shall be presided over by the Chairperson, or in such person's absence by the person whom the Chairperson shall designate, or in the absence of the foregoing persons by a chairperson chosen at the meeting by the affirmative vote of a majority of the Directors present at the meeting. The Secretary shall act as secretary of the meeting, but in such person's absence, the chairperson of the meeting may appoint any person to act as secretary of the meeting.

Section 3.10 Action by Unanimous Consent of Directors. Unless otherwise restricted by the Certificate of Incorporation or these By-laws, any action required or permitted to be taken at any meeting of the Board of Directors, or of any committee thereof, may be taken without a meeting of the Board of Directors if all members of the Board of Directors or such committee consent in writing or by electronic transmission. Thereafter, the writing or writings or electronic transmissions shall be filed with the minutes of proceedings of the Board of Directors or such committee in accordance with applicable law. Such filing shall be in paper form if the minutes are maintained in paper form and shall be in electronic form if the minutes are maintained in electronic form. Such action by written consent or consent by electronic transmission shall have the same force and effect as a unanimous vote of the Board of Directors.

Section 3.11 Compensation of Directors. Unless otherwise restricted by the Certificate of Incorporation or these By-laws, the Board of Directors shall have the authority to fix the compensation, including fees and reimbursements of expenses and equity compensation, of Directors for services to the Corporation in any capacity. No such payment shall preclude any Director from serving the Corporation in any other capacity and receiving compensation from the Corporation for such service. Any Director may decline any or all such compensation payable to such Director in such person's discretion.

Section 3.12 Chairperson. The Board of Directors may appoint from its members a chairperson (the "***Chairperson***"). The Board of Directors may, in its sole discretion, from time to time appoint one or more vice chairpersons (each, a "***Vice Chairperson***"), each of whom in such capacity shall report directly to the Chairperson.

ARTICLE IV.
COMMITTEES

Section 4.01 Committees. The Board of Directors may designate one or more committees, each committee to consist of one or more of the Directors. The Board of Directors may designate one or more Directors as alternate members of any committee, who may replace any absent or disqualified member at any meeting of such committee. In the absence or disqualification of a member of any committee, the member or members present at any meeting and not disqualified from voting, whether or not he, she or they constitute a quorum and may unanimously appoint another member of the Board of Directors to act at the meeting in place of any such absent or disqualified member. To the extent permitted by applicable law and to the extent provided in a resolution of the Board of Directors, any such committee may exercise all of the powers and authority of the Board of Directors in the management of the business and affairs of the Corporation, and may authorize the seal of the Corporation (if one is adopted) to be affixed to all papers that may require it. No such committee shall have the power or authority, however, to: (i) approve or adopt, or recommend to the Stockholders, any action or matter expressly required by the DGCL to be submitted to Stockholders for approval; or (ii) adopt, amend or repeal any bylaw of the Corporation. Except as otherwise provided in the Certificate of Incorporation, these By-laws, or the resolution of the Board of Directors designating the committee, a committee may create one (1) or more subcommittees, each subcommittee to consist of one or more members of the committee, and delegate to a subcommittee any or all of the powers and authority of the committee. Except as otherwise provided in the Certificate of Incorporation, these By-laws, or the resolution of the Board of Directors designating the committee (or resolution of the committee designating the subcommittee, if applicable), a majority of the Directors then serving on a committee or subcommittee shall constitute a quorum for the transaction of business. The vote of a majority of the members of the committee or subcommittee present at a meeting at which a quorum is present shall be the act of the committee or subcommittee. Meetings of any committee of the Board of Directors may be held at any time or place, if any, within or without the State of Delaware whenever called by the Chairperson or a majority of the members of such committee.

Section 4.02 Committee Minutes. Each committee of the Board of Directors shall keep regular minutes of its meetings and report the same to the Board of Directors when required.

Section 4.03 Committee Rules. Unless the Board of Directors otherwise provides, each committee designated by the Board of Directors may make, alter and repeal rules for the conduct of its business. In the absence of such rules, each such committee shall conduct its business in the same manner as the Board of Directors conducts its business pursuant to Article III.

ARTICLE V.
OFFICERS

Section 5.01 Officers. The officers of the Corporation shall include a Chief Executive Officer, a President and a Secretary. The Corporation may also have, at the discretion of the Board of Directors, a Chairperson, a Vice Chairperson, a Chief Financial Officer, a Treasurer, one or more Executive Vice Presidents, one or more Senior Vice Presidents, one or more Assistant Treasurers, one or more Assistant Secretaries, and any such other officers as may be appointed in accordance with the provisions of these By-laws. Each officer of the Corporation shall hold office for such term as may be prescribed by the Board of Directors and until such person's successor is duly elected and qualified or until such person's earlier death, resignation or removal. No officer need be a Stockholder or Director.

Section 5.02 Appointment of Officers. The Board of Directors shall appoint the officers of the Corporation, except such officers as may be appointed in accordance with the provisions of Section 5.03.

Section 5.03 Subordinate Officer. The Board of Directors may appoint or empower the Chief Executive Officer of the Corporation or, in the absence of a Chief Executive Officer of the Corporation, an Executive Vice President of the Corporation, to appoint, such other officers and agents as the business of the Corporation may require. Each of such officers and agents shall hold office for such period, have such authority, and perform such duties as are provided in these By-laws or as the Board of Directors may determine from time to time.

Section 5.04 Removal and Resignation of Officers. Subject to the rights, if any, of an officer under any contract of employment, any officer may be removed, either with or without cause, by the Board of Directors or, except in the case of an officer chosen by the Board of Directors, by any officer upon whom such power of removal may be conferred by the Board of Directors. Any officer may resign at any time by giving notice in writing or by electronic transmission to the Corporation. Any resignation shall take effect at the date of the receipt of that notice or at any later time specified in that notice. Unless otherwise specified in the notice of resignation, the acceptance of the resignation shall not be necessary to make it effective. If a resignation is made effective at a later date and the Corporation accepts the future effective date, the Board of Directors may fill the pending vacancy before the effective date if the Board of Directors provides that the successor shall not take office until the effective date. Any resignation is without prejudice to the rights, if any, of the Corporation under any contract to which the officer is a party.

Section 5.05 Vacancies in Offices. Any vacancy occurring in any office of the Corporation shall be filled by the Board of Directors or as provided in Section 5.02.

Section 5.06 Representation of Shares of Other Entities. Unless otherwise directed by the Board of Directors, the Chairperson, the Chief Executive Officer, or an Executive Vice President of this Corporation, or any other person authorized by the Board of Directors, the Chief Executive Officer or the President, is authorized to vote, represent and exercise on behalf of this Corporation all rights incident to any and all shares or voting securities of any other corporation or other person standing in the name of this Corporation. The authority granted by this Section 5.06 may be exercised either by such person directly or by any other person authorized to do so by proxy or power of attorney duly executed by such person having the authority.

Section 5.07 Authority and Duties of Officers. All officers of the Corporation shall respectively have such authority and perform such duties in the management of the business of the Corporation as may be provided in these By-laws or designated from time to time by the Board of Directors and, to the extent not so provided, as generally pertain to their respective offices, subject to the control of the Board of Directors.

Section 5.08 Compensation. The compensation of the officers of the Corporation for their services as such shall be fixed from time to time by or at the direction of the Board of Directors. An officer of the Corporation shall not be prevented from receiving compensation by reason of the fact that such Officer is also a Director.

ARTICLE VI.
RECORDS

Section 6.01 Records. A stock ledger consisting of one or more records in which the names of all of the Stockholders of record, the address and number of shares registered in the name of each such Stockholder, and all issuances and transfers of Stock are recorded in accordance with Section 224 of the DGCL shall be administered by or on behalf of the Corporation. Any records administered by or on behalf of the Corporation in the regular course of its business, including its stock ledger, books of account, and minute books, may be kept on, or by means of, or be in the form of, any information storage device, or method, or one or more electronic networks or databases (including one or more distributed electronic networks or databases), provided that the records so kept can be converted into clearly legible paper form within a reasonable time and, with respect to the stock ledger, that the records so kept (i) can be used to prepare the list of Stockholders specified in Sections 219 and 220 of the DGCL; (ii) record the information specified in Sections 156, 159, 217(a) and 218 of the DGCL; and (iii) record transfers of Stock as governed by Article 8 of the Uniform Commercial Code as adopted in the State of Delaware.

ARTICLE VII.
GENERAL MATTERS

Section 7.01 Execution of Corporate Contracts and Instruments. Except as otherwise provided in these By-laws, the Board of Directors may authorize any officer or officers, or agent or agents to enter into any contract or execute any instrument in the name of and on behalf of the Corporation; such authority may be general or confined to specific instances.

Section 7.02 Stock Certificates.

(a) The shares of Stock shall be represented by certificates, provided that the Board of Directors by resolution may provide that some or all of the shares of any class or series of Stock shall be uncertificated. Any such resolution shall not apply to shares represented by a certificate previously issued until such certificate is surrendered to the Corporation. Certificates for the shares of Stock shall be in such form as is consistent with the Certificate of Incorporation and applicable law. Every holder of Stock represented by a certificate shall be entitled to have a certificate signed by, or in the name of the Corporation by, any two officers authorized to sign stock certificates representing the number of shares registered in certificate form. The Chairperson or Vice Chairperson, Chief Executive Officer, the President, an Executive Vice President, the Treasurer, any Assistant Treasurer, the Secretary, any Assistant Secretary of the Corporation or any other person designated by the Board of Directors shall be specifically authorized to sign stock certificates. Any or all of the signatures on the certificate may be a facsimile. In case any officer, transfer agent or registrar who has signed or whose facsimile signature has been placed upon a certificate has ceased to be such officer, transfer agent or registrar before such certificate is issued, it may be issued by the Corporation with the same effect as if they were such officer, transfer agent or registrar at the date of issue.

(b) The Corporation may issue the whole or any part of its shares of Stock as partly paid and subject to call for the remainder of the consideration to be paid for such shares. Upon the face or back of each stock certificate issued to represent any such partly paid shares, or upon the books and records of the Corporation in the case of uncertificated partly paid shares, the total amount of the consideration to be paid and the amount paid shall be stated. Upon the declaration of any dividend on fully paid shares, the Corporation shall declare a dividend upon partly paid shares of the same class, but only upon the basis of the percentage of the consideration actually paid.

Section 7.03 Special Designation of Certificates. If the Corporation is authorized to issue more than one class of Stock or more than one series of any class, then the powers, the designations, the preferences and the relative, participating, optional or other special rights of each class of Stock or series of Stock and the qualifications, limitations or restrictions of such preferences and/or rights shall be set forth in full or summarized on the face or on the back of the certificate that the Corporation shall issue to represent such class or series of Stock (or, in the case of uncertificated shares, set forth in a notice provided pursuant to Section 151 of the DGCL). Except as otherwise provided in Section 202 of the DGCL, in lieu of the foregoing requirements, there may be set forth on the face or back of the certificate that the Corporation shall issue to represent such class or series of Stock (or, in the case of any uncertificated shares, included in the aforementioned notice) a statement that the Corporation will furnish without charge to each Stockholder who so requests the powers, the designations, the preferences and the relative, participating, optional or other special rights of each class of Stock or series thereof and the qualifications, limitations or restrictions of such preferences and/or rights.

Section 7.04 Lost Certificates. Except as provided in this Section 7.04, no new certificates for shares of Stock shall be issued to replace a previously issued certificate unless the latter is surrendered to the Corporation and cancelled at the same time. The Corporation may issue a new certificate of Stock or uncertificated shares in place of any certificate theretofore issued by it, alleged to have been lost, stolen or destroyed. The Corporation may require the owner of the lost, stolen or destroyed certificate, or such owner's legal representative, to give the Corporation a bond sufficient to indemnify it against any claim that may be made against it on account of the alleged loss, theft or destruction of any such certificate or the issuance of such new certificate or uncertificated shares.

Section 7.05 Shares Without Certificates. The Corporation may adopt a system of issuance, recordation and transfer of its shares of Stock by electronic or other means not involving the issuance of certificates, provided the use of such system by the Corporation is permitted in accordance with applicable law.

Section 7.06 Construction; Definitions. Unless the context requires otherwise, the general provisions, rules of construction and definitions in the DGCL shall govern the construction of these By-laws. Without limiting this provision, the singular number includes the plural and the plural number includes the singular.

Section 7.07 Dividends. Subject to any restrictions contained in either (i) the DGCL or (ii) the Certificate of Incorporation, the Board of Directors may declare and pay dividends upon the shares of its Stock. Dividends may be paid in cash, in property or in shares of Stock. The Board of Directors may set apart out of any of the funds of the Corporation available for dividends a reserve or reserves for any proper purpose and may abolish any such reserve. Such purposes shall include but not be limited to equalizing dividends, repairing or maintaining any property of the Corporation, and meeting contingencies.

Section 7.08 Fiscal Year. The fiscal year of the Corporation shall be fixed by resolution of the Board of Directors and may be changed by the Board of Directors.

Section 7.09 Seal. The Corporation may adopt a corporate seal, which shall be adopted and which may be altered by the Board of Directors. The Corporation may use the corporate seal by causing it or a facsimile of such seal to be impressed or affixed or in any other manner reproduced.

Section 7.10 Transfer of Stock. Shares of Stock shall be transferable in the manner prescribed by law and in these By-laws, subject to any limitations set forth in the Certificate of Incorporation. Shares of Stock shall be transferred on the books of the Corporation only by the holder of record or by such holder's attorney duly authorized in writing, upon surrender to the Corporation of the certificate or certificates representing such shares endorsed by the appropriate person or persons (or by delivery of duly executed instructions with respect to uncertificated shares). Any transfer of Shares shall be accompanied by such evidence of the authenticity of such endorsement or execution, transfer, authorization and other matters as the Corporation may reasonably require, along with all necessary stock transfer stamps. No transfer of Stock shall be valid as against the Corporation for any purpose until it shall have been entered in the stock records of the Corporation by an entry showing the names of the persons from and to whom it was transferred. Notwithstanding anything to the contrary in these By-laws, at all times that the Corporation's stock is listed on a stock exchange, the Shares of Stock of the Corporation shall comply with all direct registration system eligibility requirements established by such exchange, including any requirement that shares of the Corporation's stock be eligible for issue in uncertificated or book-entry form. All issuances and transfers of Shares of Stock shall be entered on the books of the Corporation with all information necessary to comply with such direct registration system eligibility requirements, including the name and address of the person to whom the Shares of Stock are issued, the number of Shares of Stock issued and the date of issue. The Board of Directors shall have the power and authority to make such rules and regulations as it may deem necessary or proper concerning the issue, transfer and registration of Shares of Stock of the Corporation in both the certificated and uncertificated form.

Section 7.11 Stock Transfer Agreements. The Corporation shall have power to enter into and perform any agreement with any number of Stockholders of any one or more classes or series of Stock to restrict the transfer of shares of Stock of any one or more classes owned by such Stockholders in any manner not prohibited by the DGCL.

Section 7.12 Registered Stockholders. The Corporation shall: (i) be entitled to recognize the exclusive right of a person registered on its books as the owner of shares of Stock to receive dividends and to vote as such owner; and (ii) not be bound to recognize any equitable or other claim to or interest in such share or shares of Stock on the part of another person, whether or not it shall have express or other notice of such claim to or interest in such share or shares of Stock, except as otherwise provided by the laws of the State of Delaware.

Section 7.13 Waiver of Notice. Whenever notice is required to be given under any provision of the DGCL, the Certificate of Incorporation or these By-laws, a written waiver, signed by the person entitled to notice, or a waiver by electronic transmission by the person entitled to notice, whether before or after the time of the event for which notice is to be given, shall be deemed equivalent to notice. Attendance of a person at a meeting shall constitute a waiver of notice of such meeting, except when the person attends a meeting for the express purpose of objecting at the beginning of the meeting, to the transaction of any business because the meeting is not lawfully called or convened. Neither the business to be transacted at, nor the purpose of, any regular or special meeting of the Stockholders need be specified in any written waiver of notice or any waiver by electronic transmission unless so required by the Certificate of Incorporation or these By-laws.

ARTICLE VIII. NOTICE

Section 8.01 Delivery of Notice; Notice by Electronic Transmission.

(a) Without limiting the manner by which notice otherwise may be given effectively to Stockholders, any notice to Stockholders given by the Corporation under any provisions of the DGCL, the Certificate of Incorporation, or these By-laws may be given in writing directed to the Stockholder's mailing address (or by electronic transmission directed to the Stockholder's electronic mail address, as applicable) as it appears on the records of the Corporation. All such notices shall be given: (1) if mailed, when the notice is deposited in the U.S. mail, postage prepaid; (2) if delivered by courier service, the earlier of when the notice is received or left at such Stockholder's address; or (3) if given by electronic mail, when directed to such Stockholder's electronic mail address unless the Stockholder has notified the Corporation in writing or by electronic transmission of an objection to receiving notice by electronic mail. A notice by electronic mail must include a prominent legend that the communication is an important notice regarding the Corporation..

(b) Without limiting the manner by which notice otherwise may be given effectively to Stockholders, any notice to Stockholders given by the Corporation under any provision of the DGCL, the Certificate of Incorporation or these By-laws shall be effective if given by a form of electronic transmission consented to by the Stockholder to whom the notice is given. Any such consent shall be revocable by the Stockholder by written notice or electronic transmission to the Corporation. Notwithstanding the provisions of this paragraph, the Corporation may give a notice by electronic mail in accordance with Section 8.01(a) without obtaining the consent required by this Section 8.01(b).

(c) Any notice given pursuant to Section 8.01(b) shall be deemed given: (i) if by facsimile telecommunication, when directed to a number at which the Stockholder has consented to receive notice; (ii) if by a posting on an electronic network together with separate notice to the Stockholder of such specific posting, upon the later of (A) such posting and (B) the giving of such separate notice; and (iii) if by any other form of electronic transmission, when directed to the Stockholder. Notwithstanding the foregoing, a notice may not be given by an electronic transmission from and after the time that (1) the Corporation is unable to deliver by such electronic transmission two (2) consecutive notices given by the Corporation and (2) such inability becomes known to the Secretary or an Assistant Secretary of the Corporation or to the transfer agent, or other person responsible for the giving of notice. The inadvertent failure to discover such inability shall not invalidate any meeting or other action. An affidavit of the Secretary or an Assistant Secretary or of the transfer agent or other agent of the Corporation that the notice has been given shall, in the absence of fraud, be prima facie evidence of the facts stated therein.

ARTICLE IX.
INDEMNIFICATION

Section 9.01 Indemnification of Directors and Officers. To the fullest extent permitted by the DGCL as it presently exists or may hereafter be amended, the Corporation shall indemnify and hold harmless, any Director or officer of the Corporation who was or is made or is threatened to be made a party or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (a “***Proceeding***”) by reason of the fact that he or she, or a person for whom he or she is the legal representative, is or was a Director or officer of the Corporation or, while serving as a Director or officer of the Corporation, is or was serving at the request of the Corporation as a director, officer, employee or agent of another corporation or of a partnership (a “***covered person***”), joint venture, trust, enterprise or non-profit entity, including service with respect to employee benefit plans, against all liability and loss suffered and expenses (including attorneys’ fees, judgments, fines ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such person in connection with any such Proceeding. Notwithstanding the preceding sentence, except as otherwise provided in Section 9.04, the Corporation shall be required to indemnify a person in connection with a Proceeding initiated by such person only if the Proceeding was authorized in the specific case by the Board of Directors.

Section 9.02 Indemnification of Others. To the fullest extent permitted by applicable law as it presently exists or may hereafter be amended, the Corporation shall have the power to indemnify and hold harmless, any employee or agent of the Corporation who was or is made or is threatened to be made a party or is otherwise involved in any Proceeding by reason of the fact that he or she, or a person for whom he or she is the legal representative, is or was an employee or agent of the Corporation or is or was serving at the request of the Corporation as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust, enterprise or non-profit entity, including service with respect to employee benefit plans, against all liability and loss suffered and expenses reasonably incurred by such person in connection with any such Proceeding.

Section 9.03 Prepayment of Expenses. To the fullest extent not prohibited by applicable law the Corporation shall pay the expenses (including attorneys’ fees) incurred by any covered person, and may pay the expenses incurred by any employee or agent of the Corporation, in defending any Proceeding in advance of its final disposition; *provided, however*, that, to the extent required by law, such payment of expenses in advance of the final disposition of the Proceeding shall be made only upon receipt of an undertaking by the person to repay all amounts advanced if it should be ultimately determined that the person is not entitled to be indemnified under this Article IX or otherwise.

Section 9.04 Determination: Claim. If a claim for indemnification (following the final disposition of such Proceeding) under this Article IX is not paid in full within 60 days, or a claim for advancement of expenses under this Article IX is not paid in full within 30 days, after a written claim has been received by the Corporation the claimant may thereafter (but not before) file suit to recover the unpaid amount of such claim. If successful in whole or in part, the claimant shall be entitled to be paid the expense of prosecuting such claim to the fullest extent permitted by law, including reasonable attorneys' fees. It shall be a defense to any such action (other than an action brought to enforce a claim for expenses incurred in defending any proceeding in advance of its final disposition where the required undertaking, if any, has been tendered to the Corporation) that the claimant has not met the standards of conduct that make it permissible under the DGCL for the Corporation to indemnify the claimant for the amount claimed. The burden of proof in such defense shall be on the Corporation. Neither the failure of the Corporation (including its Board of Directors, independent legal counsel or its stockholders) to have made a determination prior to the commencement of such action that indemnification of the claimant is proper in the circumstances because such claimant has met the applicable standard of conduct set forth in the DGCL, nor an actual determination by the Corporation (including its Board of Directors, independent legal counsel or its stockholders) that the claimant has not met such applicable standard of conduct, shall be a defense to the action or create a presumption that the claimant has not met the applicable standard of conduct.

Section 9.05 Non-Exclusivity of Rights. The rights conferred on any person by this Article IX shall not be exclusive of any other rights that such person may have or hereafter acquire under any statute, provision of the Certificate of Incorporation, these By-laws, agreement, vote of Stockholders or disinterested Directors or otherwise.

Section 9.06 Insurance. The Corporation may purchase and maintain insurance on behalf of any person who is or was a Director, officer, employee, fiduciary or agent of the Corporation, or is or was serving at the request of the Corporation as a director, officer, employee, fiduciary or agent of another corporation, partnership, joint venture, trust enterprise or non-profit entity against any liability asserted against him or her and incurred by him or her in any such capacity, or arising out of his or her status as such, whether or not the Corporation would have the power to indemnify him or her against such liability under the provisions of the DGCL.

Section 9.07 Other Indemnification. The Corporation's obligation, if any, to indemnify or advance expenses to any person who was or is serving at its request as a director, officer, employee or agent of another corporation, partnership, joint venture, trust, enterprise or non-profit entity shall be reduced by any amount such person may collect as indemnification or advancement of expenses from such other corporation, partnership, joint venture, trust, enterprise or non-profit enterprise.

Section 9.08 Continuation of Indemnification. The rights to indemnification and to prepayment of expenses provided by, or granted pursuant to, this Article IX shall continue notwithstanding that the person has ceased to be a Director or officer of the Corporation and shall inure to the benefit of the estate, heirs, executors, administrators, legatees and distributees of such person.

(a) The provisions of this Article IX shall constitute a contract between the Corporation, on the one hand, and, on the other hand, each individual who serves or has served as a Director or officer of the Corporation (whether before or after the adoption of these By-laws), in consideration of such person's performance of such services. Pursuant to this Article IX, the Corporation intends to be legally bound to each such current or former Director or officer of the Corporation. With respect to current and former Directors and officers of the Corporation, the rights conferred under this Article IX are present contractual rights and such rights are fully vested, and shall be deemed to have vested fully, immediately upon adoption of these By-laws. With respect to any Directors or officers of the Corporation who commence service following adoption of these By-laws, the rights conferred under this provision shall be present contractual rights and such rights shall fully vest, and be deemed to have vested fully, immediately upon such Director or officer commencing service as a Director or officer of the Corporation. Any repeal or modification of the foregoing provisions of this Article IX shall not adversely affect any right or protection (i) hereunder of any person in respect of any act or omission occurring prior to the time of such repeal or modification or (ii) under any agreement providing for indemnification or advancement of expenses to an officer or Director of the Corporation in effect prior to the time of such repeal or modification.

(b) Any reference to an officer of the Corporation in this Article IX shall be deemed to refer exclusively to the Chief Executive Officer, President, and Secretary, or other officer of the Corporation appointed by (x) the Board of Directors pursuant to Article V or (y) an officer to whom the Board of Directors has delegated the power to appoint officers pursuant to Article V, and any reference to an officer of any other corporation, partnership, joint venture, trust, employee benefit plan or other enterprise shall be deemed to refer exclusively to an officer appointed by the board of directors (or equivalent governing body) of such other entity pursuant to the certificate of incorporation and By-laws (or equivalent organizational documents) of such other corporation, partnership, joint venture, trust, employee benefit plan or other enterprise. The fact that any person who is or was an employee of the Corporation or an employee of any other corporation, partnership, joint venture, trust, employee benefit plan or other enterprise has been given or has used the title of "Vice President" or any other title that could be construed to suggest or imply that such person is or may be an officer of the Corporation or of such other corporation, partnership, joint venture, trust, employee benefit plan or other enterprise shall not result in such person being constituted as, or being deemed to be, an officer of the Corporation or of such other corporation, partnership, joint venture, trust, employee benefit plan or other enterprise.

ARTICLE X.
AMENDMENTS

The Board of Directors is expressly empowered to adopt, amend or repeal these By-laws. The Stockholders also shall have power to adopt, amend or repeal these By-laws. Notwithstanding the foregoing, such action by Stockholders shall require, in addition to any other vote required by the Certificate of Incorporation or applicable law, the affirmative vote of the holders of at least two-thirds of the voting power of all the then outstanding shares of voting Stock of the Corporation with the power to vote generally in an election of Directors, voting together as a single class.

ARTICLE XI.
DEFINITIONS

As used in these By-laws, unless the context otherwise requires, the following terms shall have the following meanings:

An “**electronic transmission**” means any form of communication, not directly involving the physical transmission of paper, including the use of, or participation in, one or more electronic networks or databases (including one or more distributed electronic networks or databases), that creates a record that may be retained, retrieved and reviewed by a recipient of such record, and that may be directly reproduced in paper form by such a recipient through an automated process.

An “**electronic mail**” means an electronic transmission directed to a unique electronic mail address (which electronic mail shall be deemed to include any files attached to such electronic mail and any information hyperlinked to a website if such electronic mail includes the contact information of an officer or agent of the Corporation who is available to assist with accessing such files and information).

An “**electronic mail address**” means a destination, commonly expressed as a string of characters, consisting of a unique user name or mailbox (commonly referred to as the “local part” of the address) and a reference to an internet domain (commonly referred to as the “domain part” of the address), whether or not displayed, to which electronic mail can be sent or delivered.

The term “**person**” means any individual, general partnership, limited partnership, limited liability company, corporation, trust, business trust, joint stock company, joint venture, unincorporated association, cooperative or association or any other legal entity or organization of whatever nature, and shall include any successor (by merger or otherwise) of such entity.

* * *

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X-energy Canada Inc.
393 University Ave, 4th Floor
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M5G 1E6

November 20, 2025

Daniel Gross

*Via e-mail: [**]*

Dear Daniel,

I am very pleased to extend to you an offer to join X-energy (the "Company") as **Executive Vice President and Chief Financial Officer**. We are looking forward to the valuable contributions we know you will make to our Company, and this offer is subject only to approval by our Board of Directors, which is a standard step in our hiring of key senior executives. We look forward to welcoming you to the team. If you decide to join us, the terms and conditions of your employment will be:

Employer: X-energy, LLC

Start Date: December 1, 2025, or earlier if possible

Reporting to: Chief Executive Officer (J. Clay Sell)

Office/Work Location: X-energy HQ, Rockville, MD; full-time on-site (minimum of four days per week)

Base Salary: \$550,000 per year; \$21,153.85 bi-weekly, payable in accordance with the Company's standard payroll practices and subject to all applicable tax withholdings.

Annual Bonus: As a participant in the Company's Short Term Incentive Program ("STIP"), your annual target incentive will be 75% of your base salary, with actual payment based on Company and individual performance in accordance with the applicable STIP plan. Your eligibility under the STIP begins with the 2026 performance year. To receive any STIP bonus, you must be an active employee in good standing at the time bonuses are paid, typically occurring in the first quarter following the performance year.

Long term Incentive Plan: You will be eligible to participate in X-energy's Long-Term Incentive Plan ("LTIP"). You will receive a grant of approximately 1,850,000 Profits Interest Units ("PIUs"), subject to final valuation and confirmation by Deloitte. The PIUs will vest ratably over four years (25% annually), subject to your continued service and all terms of the LTIP and applicable award agreements. Future LTIP grants, if any, will be made solely at the discretion of the Board.

PIUs are speculative and may have no monetary value at issue. The value you may realize, if any, will depend on numerous factors—including the Company's future performance, market conditions, capital structure, dilution, and the total number of PIUs outstanding at the time of any qualifying liquidity event. The Company makes no representation or warranty regarding the timing, likelihood, or terms of any liquidity event, or the future value of any PIU.

Executive Perquisites and Relocation: You will receive a monthly stipend for twelve (12) months, through December 31, 2026, which will cover reasonable expenses related to executive housing, travel, and other expenses associated with commuting to the company's Maryland headquarters. Other business travel and expenses will be subject to the company's travel and expense policy.

You agree to relocate within a reasonable distance of the headquarters no later than February 1, 2027. To support your relocation, you will be eligible for up to \$175,000 in relocation benefits and will work with our designated relocation management provider. Upon relocation, you must provide your updated physical address and required tax forms. Please note that relocation benefits reimbursed to you are considered taxable income under IRS rules.

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If you voluntarily resign from X-energy within twenty-four (24) months after your relocation, you will be required to repay all relocation benefits previously paid by the Company.

Universal Leave/Paid Holidays: You will accrue 20 days/160 hours of Universal Leave annually for vacation, illness, or time away from work for personal activities. X-energy provides paid holidays in accordance with the company holiday calendar which must be used in each calendar year. The paid holidays are considered floating holidays which can be used on the assigned holiday or taken on another day of the employee's choice. New hires are eligible to utilize any paid holidays that remain on the company schedule after their start date for that given calendar year.

Other Benefits: Medical, dental, life and disability insurance, and other benefits are as set forth in X-energy's Benefits Guide, which will be provided via email. We would be happy to answer any questions that you may have regarding these benefits.

Employment Classification: Full-time exempt

Please note that your employment with X-energy is for no specified period and constitutes at will employment. This offer is contingent upon the successful completion of our pre-employment process which will include a background check and education verification. Additional verifications, such as a credit check, may be required for positions with specialized data access. Once you accept this offer, you will receive an email from the background check administrator, the company that we use to conduct this process. The email will contain a link to our background check vendor's secure website where you will be guided through the process and can safely enter the necessary information. Please watch for this email and submit your information to the background check vendor as soon as possible.

You will be required to sign the Company's standard Confidentiality and Intellectual Property Assignment Agreement. In addition, for a period of twelve (12) months following the end of your employment, you agree not to directly or indirectly solicit or induce any employee, consultant, or customer of the Company to terminate or alter their relationship with the Company, and for a period of six (6) months following the end of your employment, you agree not to engage, whether as an employee, consultant, officer, or otherwise, in any business that competes with the Company's business as conducted during your employment within the geographic areas where the Company conducts business. You also agree not to make or cause to be made any disparaging statements, written or oral, about the Company, its affiliates, officers, directors, or employees. Any unvested equity, bonus, or other incentive compensation paid or awarded to you under this offer letter will be subject to forfeiture or repayment to the extent required by applicable law, Company policy, or (i) in the event of a breach of these obligations, (ii) voluntary resignation or (iii) termination for cause, within twelve (12) months from each payment date.

This offer letter shall be governed by and construed in accordance with the laws of the state of Maryland, without giving effect to any choice of law or conflict of law provisions.

Daniel, we are genuinely excited about the prospect of you joining us as our next Executive Vice President and Chief Financial Officer, and I look forward to working closely with you in what I am confident will be a long, successful, and rewarding partnership. To accept this offer, please sign and date below, and return to [**].

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If you have any questions, please do not hesitate to contact me.

Sincerely,

//J. Clay Sell//

J. Clay Sell
Chief Executive Officer

I accept X-energy's offer of employment, and I acknowledge that my title will be **Executive Vice President and Chief Financial Officer** with all of the responsibilities and requirements attendant to such position.

Signature: /s/ Daniel Gross

Name (print): Daniel Gross

Date: November 22, 2025

X Energy, LLC is committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity Employer and make decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class. We welcome the employment of women, minorities, veterans, and individuals with disabilities in our workforce. If you are in need of special assistance, please contact our Human Resources Department. X Energy, LLC participates in E-Verify. Please visit the links below for more information about E-Verify and the protection of your Right to Work.

Right To Work Link

[If you have the right to work, don't let anyone take it away \(e-verify.gov\)](#)

E-Verify Participation Link

[E-Verify Participation Poster English and Spanish](#)

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393 University Ave, 4th Floor
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M5G 1E6

September 22, 2025

Dragan Popovic
[**]

Via e-mail: [**]

Dear Dragan,

I am very pleased to extend to you an offer to join X-energy as our next **Executive Vice President and Global Chief Operating Officer**. We are looking forward to the valuable contributions we know you will make to our Company, and this offer is subject only to approval by our Board of Directors, which is a standard step in our hiring of key senior executives. We do not anticipate any issues with this approval and look forward to welcoming you to the team. If you decide to join us, the terms of your employment will be:

Employer: X-energy Canada

Start Date: October 27, 2025, or earlier if possible

Reporting to: Chief Executive Officer (J. Clay Sell)

Office/Work Location: X-energy Canada, Toronto, Ontario; full-time. While you will be expected to travel to the United States or internationally for meetings, training, and consultations incidental to your role, all substantive work and productive employment will be performed in Canada.

Base Salary: \$450,000 USD (or CAD equivalent) per year; \$17,308 bi-weekly

Annual Bonus: As a participant in X-energy's Short Term Incentive Program ("STIP"), your annual target incentive will be 75% of your base salary, attainment of which will be based on Company and personal performance and paid as a bonus each calendar year. Your STIP award for 2025 will be a guaranteed amount of \$134,375 (comprised of a pro-rated STIP target amount of \$84,375, plus an additional \$50,000 incentive bonus). To receive your STIP bonus, you must be an active employee in good standing at the time bonuses are issued.

Long-term Incentive Plan: You are eligible to participate in X-energy's Long-term Incentive Plan ("LTIP"). As such, you will receive a grant of 600,000 Profits Interest Units ("PIUs"), which will vest ratably over four years, 25% per year. Future grants may be awarded at the Company's discretion, based on Company results and your individual performance.

The actual value of your PIUs will depend on many factors, including, but not limited to, the Company's future performance, market conditions, capital structure, and the total number of PIUs outstanding at the time of a qualifying liquidity event (e.g., an initial public offering or a sale of the Company). The Board retains full discretion over any future grants and the treatment of PIUs at exit.

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The following is provided solely as a hypothetical illustration and should not be relied upon as a prediction or guarantee of any particular outcome. This example is based on numerous assumptions, all of which may change materially without notice. It is not intended to establish a fair market value for tax purposes, nor does it create any obligation on the part of the Company to achieve any particular valuation or to undertake any specific transaction.

Based on a recent value analysis conducted by our outside consultants, if the Company were to achieve a \$10 billion exit value, the current estimated value of one PIU could be approximately \$28.00. Under that purely hypothetical scenario, 600,000 PIUs could have a value of approximately \$16,800,000. Actual results, including the value (if any) realized for your PIUs, may differ significantly from this example. All PIUs will remain subject to the terms, conditions, and restrictions set forth in the governing plan documents and award agreements, which shall control in all respects.

Travel, Visa Sponsorship, and Relocation Expectations. You are currently a citizen of Canada. Should it be necessary, you agree to cooperate fully with all efforts to obtain a work visa authorizing your employment in the United States. Unless and until such visa is issued, all substantive work and productive employment shall be performed in Canada. Notwithstanding the foregoing, in your capacity as Global Chief Operating Officer, you will be required to travel to the Company's headquarters in Maryland, other locations within the United States, and international sites as necessary for meetings, training, and consultations incidental to your role overseeing global operations.

If deemed necessary, the Company will cover your legal and filing expenses associated with obtaining and maintaining any required U.S. work authorization, and, if applicable, U.S. lawful permanent residency ("green card") or U.S. citizenship. You acknowledge that in this scenario, the expectation will be that you will take all reasonable steps, with company support, to obtain U.S. permanent residency and, if eligible and willing, U.S. citizenship within a mutually agreed timeframe. Upon issuance of the requisite work visa, you shall commence employment with X-energy LLC in the United States and shall relocate, as soon as reasonably practicable, to a residence within reasonable commuting distance of the Company's corporate headquarters in the MD/DC/VA metropolitan area.

The Company shall be financially responsible for the following:

- Reasonable travel (including commuting and lodging) expenses incurred from your current residence until relocation;
- If applicable, relocation expenses up to \$135,000, which shall constitute taxable income, subject to applicable tax withholding and reporting requirements. You shall be required to update your physical address and tax forms upon relocation; and
- A reasonable number of house-hunting trips for you and your spouse.

If you resign within 24 months of relocation, you must repay all relocation expenses.

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Universal Leave/Paid Holidays: You will accrue 20 days/160 hours of Universal Leave annually for vacation, illness, or time away from work for personal activities. X-energy provides ten (10) paid holidays which must be used in each calendar year. The ten (10) paid holidays are considered floating holidays which can be used on the assigned holiday or taken on another day of the employee's choice. New hires are eligible to utilize any paid holidays that remain on the company schedule after their start date for that given calendar year.

Other Benefits: Medical, dental, life and disability insurance, and other benefits are as set forth in X-energy's Benefits Guide, which will be provided via email. We would be happy to answer any questions that you may have regarding these benefits.

Employment Classification: Full-time exempt

Please note that your employment with X-energy Canada is for no specified period and constitutes at will employment. This offer is contingent upon the successful completion of our pre-employment process which will include a background check and education verification. Additional verifications, such as a credit check, may be required for positions with specialized data access. Once you accept this offer, you will receive an email from ClearStar, the company that we use to conduct this process. The email will contain a link to ClearStar's secure website where you will be guided through the process and can safely enter the necessary information. Please watch for this email and submit your information to ClearStar as soon as possible.

Dragan, I am genuinely excited about the prospect of you joining us as our next Executive Vice President and Global Chief Operating Officer, and I look forward to working closely with you in what I am confident will be a long, successful, and rewarding partnership. To accept this offer, please sign and date below, and return

If you have any questions, please do not hesitate to contact me.

Sincerely,

//J. Clay Sell//

J. Clay Sell
Chief Executive Officer

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I accept X-energy's offer of employment, and I acknowledge that my title will be **Executive Vice President and Global Chief Operating Officer** with all of the responsibilities and requirements attendant to such position.

Signature: /s/ Dragan Popovic

Name (print): Dragan Popovic

Date: Sept 22, 2025

X energy, LLC and it's affiliated companies, are committed to hiring and retaining a diverse workforce. We are proud to be an Equal Opportunity Employer and make decisions without regard to race, color, religion, creed, sex, sexual orientation, gender identity, marital status, national origin, age, veteran status, disability, or any other protected class. We welcome the employment of women, minorities, veterans, and individuals with disabilities in our workforce. If you are in need of special assistance, please contact our Human Resources Department.

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If you have the right to work, don't let anyone take it away (e-verify.gov)

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X-ENERGY REACTOR COMPANY, LLC
EIGHTH AMENDED AND RESTATED
LIMITED LIABILITY COMPANY AGREEMENT

Dated as of , 2026

THE MEMBERSHIP INTERESTS REPRESENTED BY THIS EIGHTH AMENDED AND RESTATED LIMITED LIABILITY COMPANY AGREEMENT HAVE NOT BEEN REGISTERED UNDER THE UNITED STATES SECURITIES ACT OF 1933, AS AMENDED, OR UNDER ANY OTHER APPLICABLE SECURITIES LAWS. SUCH MEMBERSHIP INTERESTS MAY NOT BE SOLD, ASSIGNED, PLEDGED OR OTHERWISE DISPOSED OF AT ANY TIME WITHOUT EFFECTIVE REGISTRATION UNDER SUCH ACT AND LAWS OR EXEMPTION FROM SUCH ACT AND LAWS, AND COMPLIANCE WITH THE OTHER SUBSTANTIAL RESTRICTIONS ON TRANSFERABILITY SET FORTH IN THIS AGREEMENT.

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X-ENERGY REACTOR COMPANY, LLC
EIGHTH AMENDED AND RESTATED
LIMITED LIABILITY COMPANY AGREEMENT

This EIGHTH AMENDED AND RESTATED LIMITED LIABILITY COMPANY AGREEMENT (as the same may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, together with all schedules, exhibits and annexes to this Agreement, this “**Agreement**”) of X-Energy Reactor Company, LLC, a Delaware limited liability company (the “**Company**”), dated as of _____, 2026 (the “**Effective Date**”), is entered into by and among the Company, X-Energy Inc., a Delaware corporation (the “**Corporation**”), in its capacity as a Member and the sole managing member of the Company, each of the other Existing Members (as defined herein), and each other Person who is or at any time becomes a Member in accordance with the terms of this Agreement.

RECITALS

WHEREAS, unless the context otherwise requires, capitalized terms used in this Agreement have the meaning given to them in Article I;

WHEREAS, the Company was formed as a limited liability company pursuant to and in accordance with the Delaware Act by the filing of the Certificate of Formation of the Company (the “**Certificate of Formation**”) with the Secretary of State of the State of Delaware on December 14, 2018;

WHEREAS, prior to the Effective Date, the Company was governed by the Seventh Amended and Restated Limited Liability Company Agreement of the Company, effective as of November 21, 2025 (the “**Seventh A&R LLC Agreement**”), which the parties listed on Schedule 1 to this Agreement executed in their capacity as members (collectively, the “**Pre-IPO Members**”);

WHEREAS, on _____, the Corporation intends to issue shares of its Class A Common Stock in an initial public offering of its Class A Common Stock (the “**IPO**”);

WHEREAS, in connection with the IPO, the Company, the Corporation and the Pre-IPO Members desire to recapitalize and convert the Original Units into Common Units (as defined below) (the “**Recapitalization**”) as provided herein;

WHEREAS, the Corporation will sell shares of its Class A Common Stock to public investors in the IPO and will use the net proceeds received from the IPO (the “**IPO Net Proceeds**”) to purchase newly issued Common Units from the Company pursuant to the IPO Common Unit Subscription Agreement(the “**Unit Purchase**”);

WHEREAS, the Corporation may issue additional shares of Class A Common Stock in connection with the IPO as a result of the exercise by the underwriters of their over-allotment option (the “**Over-Allotment Option**”) and, if the Over-Allotment Option is exercised in whole or in part, any additional net proceeds (the “**Over-Allotment Option Net Proceeds**”) shall be used by the Corporation to purchase newly issued Common Units from the Company and Common Units held by the Members;

WHEREAS, immediately following the consummation of the IPO and pursuant to the Unit Purchase, the Corporation will become the managing member of XERC and XERC and the Corporation will effectuate certain other transactions to combine the businesses of XERC and the Corporation;

WHEREAS, in connection with the foregoing matters, the Company and the Members (including the Pre-IPO Members) desire to amend and restate the Seventh A&R LLC Agreement in its entirety as of the Effective Date to reflect, among other things: (a) the Recapitalization, (b) the addition of the Corporation as a Member and its designation as sole managing member of the Company; and (c) the other rights and obligations of the Members, the Company, the Manager and the Corporation, in each case, as provided and agreed upon in the terms of this Agreement as of the Effective Date, at which time the Seventh A&R LLC Agreement shall be superseded entirely by this Agreement and shall be of no further force or effect.

NOW, THEREFORE, in consideration of the mutual covenants contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Seventh A&R LLC Agreement is amended and restated in its entirety and the Company, the Corporation and the other Members, each intending to be legally bound, agree as follows:

ARTICLE I. DEFINITIONS

The following definitions shall be applied to the terms used in this Agreement for all purposes, unless otherwise clearly indicated to the contrary.

“Additional Member” has the meaning set forth in Section 12.02.

“Adjusted Capital Account Deficit” with respect to the Capital Account of any Member as of the end of any Taxable Year means the amount by which the balance in such Capital Account is less than zero. For this purpose, such Member’s Capital Account balance shall be:

- (a) reduced for any items described in Treasury Regulations Sections 1.704-1(b)(2)(ii)(d)(4), (5), and (6); and
- (b) increased for any amount such Member is obligated to contribute or is treated as being obligated to contribute to the Company pursuant to Treasury Regulations Sections 1.704-1(b)(2)(ii)(c) (relating to partner liabilities to a partnership) or 1.704-2(g)(1) and 1.704-2(i)(5) (relating to minimum gain).

“Admission Date” has the meaning set forth in Section 10.06.

“Affiliate” (and with correlative meaning **“Affiliated”**) with respect to a specified Person means each other Person that directly, or indirectly through one or more intermediaries, controls or is controlled by, or is under common control with, the Person specified. The term **“control”** (including with correlative meanings, **“controlled by”** and **“under common control with”**) means possession, directly or indirectly, of power to direct or cause the direction of management or policies (whether through ownership of Voting Securities or by contract or other agreement or otherwise) of a Person. With respect to each Member other than the Corporation, each of the following shall be deemed an **“Affiliate”**: (a) a trust, family limited partnership or similar estate planning vehicle, under which the distribution of Units may be made only to beneficiaries who are such Member, such Member’s current or former spouse, siblings, parents, or spouse’s or former spouse’s parents or siblings or lineal descendants (whether natural or adopted) of the Member, such Member’s current or former spouse, siblings, parents or current or former spouse’s parents or siblings and any charitable foundation of such Member; (b) a charitable remainder trust, the income of which shall be paid to such Member during such Member’s life; and (c) such Member’s current or former spouse, siblings, parents, or current or former spouse’s parents or siblings or lineal descendants (whether natural or adopted) of the Member, such Member’s current or former spouse, siblings, parents or current or former spouse’s siblings or parents and any charitable foundation or other charitable donee of such Member.

“**Agreement**” has the meaning set forth in the Preamble.

“**Allocation Period**” means, as applicable, the period (a) beginning the day following the end of a prior Allocation Period, and (b) ending: (i) on the last day of each Fiscal Year; (ii) the day preceding any day in which an adjustment to the Book Value of the Company’s properties pursuant to clauses (b)(i), (b)(ii), (b)(iii) or (b)(v) of the definition of Book Value occurs; (iii) immediately after any day in which an adjustment to the Book Value of the Company’s properties pursuant to clause (b)(iv) of the definition of Book Value occurs; or (iv) on any other date determined by the Manager.

“**Assignee**” means a Person to whom a Unit has been transferred but who has not become a Member pursuant to Article XII.

“**Assumed Tax Liability**” with respect to any Member means an amount equal to the excess of (i) the product of (A) the Distribution Tax Rate *multiplied by* (B) the estimated or actual cumulative taxable income or gain of the Company, as determined for federal income tax purposes (for the avoidance of doubt, including taking into account the character of items when determining whether income and losses can be offset), allocated to such Member for the current and all prior Taxable Years (or portions of such Taxable Years), *less* prior losses of the Company allocated to such Member for such Taxable Years (or portions of such Taxable Years), to the extent such prior losses are available to reduce such income (for the avoidance of doubt, after taking into account any limitation under Code Section 172(a)(2)(B)) and have not previously been taken into account in the calculation of Assumed Tax Liability for any prior period, in each case, as reasonably determined in good faith by the Manager over (ii) the cumulative Tax Distributions made to such Member pursuant to Section 4.01(b)(i) or any similar provision of the Seventh A&R LLC Agreement. Notwithstanding the foregoing, in the case of each Member, such Assumed Tax Liability shall take into account any Code Section 704(c) allocations (including “reverse” 704(c) allocations) to the Member and any adjustments made pursuant to Code Section 734 and 743(b). A Member’s Assumed Tax Liability shall be estimated on a quarterly basis by the Manager, taking into account estimated taxable income or loss of the Company through the end of the relevant quarterly period.

“Automatic Conversion” means any conversion of Common Stock pursuant to Section 4.5(c) of the Certificate of Incorporation.

“Black-Out Period” means any “black-out” or similar period under the Corporation’s policies covering trading in the Corporation’s securities to which the applicable Redeeming Member is subject (or will be subject at such time as it owns Class A Common Stock), which period restricts the ability of such Redeeming Member to immediately resell shares of Class A Common Stock to be delivered to such Redeeming Member in connection with a Share Settlement.

“Block Transfer” means any Redemption by a Member and any related persons (within the meaning of Section 267(b) or 707(b)(1) of the Code) in one or more transactions during any thirty (30) calendar day period of Common Units representing in the aggregate more than two percent of the total interests in the Company’s capital or profits, which meets the requirements of a “block transfer” pursuant to Treasury Regulation Section 1.7704-1(e)(2).

“Book Value” with respect to any property of the Company means such property’s adjusted basis for U.S. federal income tax purposes, except as follows:

(a) The initial Book Value of any property contributed by a Member to the Company shall be the Fair Market Value of such property as of the date of such contribution.

(b) The Book Values of all properties shall be adjusted to equal their respective fair market values to reflect any Unrealized Gain or Unrealized Loss attributable to such Company assets as of the following times: (i) the acquisition of an interest (or additional interest) in the Company by any new or existing Member in exchange for more than a *de minimis* Capital Contribution to the Company or in exchange for the performance of services to or for the benefit of the Company; (ii) the distribution by the Company to a Member of more than a *de minimis* amount of property as consideration for an interest in the Company; (iii) the liquidation of the Company within the meaning of Treasury Regulation Section 1.704-1(b)(2)(ii)(g); (iv) the acquisition of an interest in the Company by any new or existing Member upon the exercise of a noncompensatory option (including the exercise of a Common Warrant) in accordance with Treasury Regulation Section 1.704-1(b)(2)(iv)(s); or (v) any other event to the extent determined by the Manager to be permitted and necessary to properly reflect Book Values in accordance with the standards set forth in Treasury Regulation Section 1.704-1(b)(2)(iv)(q); *provided, however*, that adjustments pursuant to clauses (b)(i), (b)(ii) and (b)(iv) above shall be made, however, only if the Manager determines that such adjustments are necessary or appropriate to reflect the relative economic interests of the Members in the Company. If any noncompensatory options are outstanding upon the occurrence of an event described in clauses (b)(i) through (b)(v) above, the Company shall adjust the Book Values of its properties in accordance with Treasury Regulation Sections 1.704-1(b)(2)(iv)(f)(1) and 1.704-1(b)(2)(iv)(h)(2).

(c) In determining such Unrealized Gain or Unrealized Loss, the aggregate fair market value of all Company property (including cash or cash equivalents) immediately prior to the issuance of additional Equity Securities of the Company that are treated as equity for U.S. federal income tax purposes shall be determined by the Manager using such reasonable method of valuation as it may adopt. For the avoidance of doubt, the preceding sentence shall apply in the case of a Revaluation Event resulting from the exercise of a noncompensatory option (including the exercise of a Common Warrant) or a Revaluation Event in accordance with principles similar to those set forth in Treasury Regulations Section 1.704-1(b)(2)(iv)(s), immediately after the issuance of Equity Securities of the Company that are treated as equity for U.S. federal income tax purposes acquired pursuant to the exercise of such noncompensatory option. In making its determination of the fair market values of individual properties, the Manager may: (i) reasonably determine an aggregate value for the assets of the Company that takes into account the current trading price of the Class A Common Stock, the fair market value of all other Equity Securities at such time and the amount of Company liabilities; (ii) make any reasonable adjustments necessary to reflect the difference, if any, between the fair market value of any outstanding Common Warrant (upon an exercise) and the aggregate Capital Accounts attributable to the Common Warrant (upon an exercise) to the extent of any Unrealized Gain or Unrealized Loss that has not been reflected in the Members' Capital Accounts previously, consistent with the methodology of Treasury Regulation Section 1.704-1(b)(2)(iv)(h)(2); and (iii) allocate such aggregate value among the individual properties of the Company (in such manner as the Manager reasonably determines appropriate). Absent a contrary determination by the Manager, the aggregate fair market value of all Company assets (including cash or cash equivalents) immediately prior to a Revaluation Event shall be the value that would result in the Per Unit Capital Amount of each Common Unit that is outstanding prior to such Revaluation Event being equal to the Event Issue Value.

(d) The Book Value of property distributed to a Member shall be adjusted to equal the fair market value of such property as of the date of such distribution to reflect any Unrealized Gain or Unrealized Loss attributable to any Company asset.

(e) The Book Value of all property shall be increased (or decreased) to reflect any adjustments to the adjusted basis of such property pursuant to Code Section 734(b) (including any such adjustments pursuant to Treasury Regulation Section 1.734-2(b)(1)), but only to the extent that such adjustments are taken into account in determining Capital Accounts pursuant to Treasury Regulation Section 1.704-1(b)(2)(iv)(m) and clause (e) of the definition of Net Profits or Net Losses or Section 5.03(f). Notwithstanding the foregoing, the Book Value of property shall not be adjusted pursuant to this clause (e) if the Manager reasonably determines an adjustment pursuant to clause (b) is necessary or appropriate in connection with a transaction that would otherwise result in an adjustment pursuant to this clause (e).

(f) If the Book Value of property has been determined or adjusted pursuant to clauses (a), (b) or (e) of this definition, such Book Value shall thereafter be adjusted by the Depreciation taken into account with respect to such property for purposes of computing Net Profits, Net Losses and other items allocated pursuant to Section 5.02 and Section 5.03.

“**Business Day**” means any day other than a Saturday, Sunday or day on which banks located in New York City, New York are authorized or required by Law to close.

“**Capital Account**” means the capital account maintained for a Member in accordance with [Section 5.01](#).

“**Capital Contribution**” with respect to any Member means the amount of any cash, cash equivalents, promissory obligations or the Fair Market Value of other property that such Member (or such Member’s predecessor) contributes (or is deemed to contribute) to the Company pursuant to [Article III](#).

“**cash and cash equivalents**” means the cash and cash equivalents, including checks, money orders, marketable securities, short-term instruments, negotiable instruments, funds in time and demand deposits or similar accounts on hand, in lock boxes, in financial institutions or elsewhere, together with all accrued but unpaid interest thereon, and all bank, brokerage or other similar accounts.

“**Cash Settlement**” means immediately available funds in U.S. dollars in an amount equal to the Redeemed Units Equivalent; *provided*, that such funds were received from a Qualified Offering.

“**Certificate**” means the Company’s Certificate of Formation as filed with the Secretary of State of the State of Delaware, as amended or amended and restated from time to time.

“**Certificate of Formation**” has the meaning set forth in the Recitals.

“**Certificate of Incorporation**” means the Corporation’s Certificate of Incorporation, dated as of the date hereof, as amended, restated, and restated, supplemented or otherwise modified from time to time.

“**Change of Control**” means the occurrence of any of the following events:

(1) any “person” or “group” (within the meaning of Sections 13(d) and 14(d) of the Exchange Act, but excluding any employee benefit plan of such person and its subsidiaries, and any person or entity acting in its capacity as trustee, agent or other fiduciary or administrator of any such plan, and excluding the Permitted Transferees) other than a Pre-IPO Member becomes the “beneficial owner” (within the meaning of Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, of voting securities representing in the aggregate more than fifty percent (50%) of the voting power of all of the outstanding voting securities of the Corporation;

(2) the stockholders of the Corporation approve a plan of complete liquidation or dissolution of the Corporation or there is consummated a sale or other disposition, directly or indirectly, by the Corporation of all or substantially all of the Corporation’s assets (including a sale of all or substantially all of the assets of the Company);

(3) there is consummated a merger or consolidation of the Corporation with any other corporation or entity, and, immediately after the consummation of such merger or consolidation, the voting securities of the Corporation outstanding immediately prior to such merger or consolidation do not continue to represent, or are not converted into, voting securities representing in the aggregate more than fifty percent (50%) of the voting power of all of the outstanding voting securities of the Person resulting from such merger or consolidation or, if the surviving company is a Subsidiary, the ultimate parent thereof; or

(4) the Corporation ceases to be the sole Manager of the Company. Notwithstanding the foregoing, a “Change of Control” shall not be deemed to have occurred (i) by virtue of the consummation of any transaction or series of integrated transactions immediately following which the record holders of the Class A Common Stock, Class B Common Stock, preferred stock and/or any other class or classes of capital stock of the Corporation immediately prior to such transaction or series of transactions continue to have substantially the same proportionate ownership in and voting control over, and own substantially all of the shares of, an entity which owns all or substantially all of the assets of the Corporation immediately following such transaction or series of transactions or (ii) in connection with any Automatic Conversion.

“**Change of Control Date**” has the meaning set forth in Section 10.09(a).

“**Change of Control Transaction**” means any Change of Control that was approved by the Corporate Board prior to such Change of Control.

“**Class A Common Stock**” means the shares of Class A common stock, par value \$0.0001 per share, of the Corporation.

“**Class B Common Stock**” means the shares of Class B common stock, par value \$0.0001 per share, of the Corporation.

“**Code**” means the United States Internal Revenue Code of 1986, as amended. Unless the context requires otherwise, any reference in this Agreement to a specific section of the Code shall be deemed to include any corresponding provisions of future Law as in effect for the relevant taxable period.

“**Common Share Price**” means the share price equal to the VWAP of one share of Class A Common Stock as reported on the Stock Exchange (or the exchange on which the shares of Class A Common Stock are then listed) for a period of at least 20 days out of 30 consecutive Trading Days ending on the Trading Day immediately prior to the date of determination (as adjusted as appropriate to reflect any stock splits, reverse stock splits, stock dividends, extraordinary cash dividend, reorganization, recapitalization, reclassification, combination, exchange of shares or other like change or transaction with respect to the Class A Common Stock). Stock dividends shall include any dividend or distribution of securities convertible into Class A Common Stock.

“**Common Stock**” means the shares of Class A Common Stock and Class B Common Stock.

“**Common Unit**” means a Unit designated as a “Common Unit” and having the rights and obligations specified with respect to the Common Units in this Agreement.

“**Common Unit Percentage Interest**” as among Common Units and with respect to a Member at a particular time means such Member’s percentage interest in the Common Units determined by dividing the number of such Member’s Common Units by the total number of Common Units of all Members of such class at such time. The Common Unit Percentage Interest of each Member shall be calculated to the fourth decimal place.

“**Common Unit Redemption Price**” with respect to any Redemption or Direct Exchange means the net amount (net of underwriting or similar discounts but for clarity not other transaction expenses), on a per share basis, received as a result of a substantially contemporaneous Qualified Offering of Class A Common Stock by the Corporation.

“**Common Warrants**” means warrants to purchase Common Units of the Company.

“**Company**” has the meaning set forth in the Preamble.

“**Company Minimum Gain**” means “partnership minimum gain” determined pursuant to Treasury Regulations Sections 1.704-2(b)(2) and 1.704-2(d).

“**Company Representative**” has the meaning assigned to the term “partnership representative” in Section 6223 of the Code and any Treasury Regulations or other administrative or judicial pronouncements promulgated thereunder.

“**Competitor**” means any Person who is engaged, or after the date of this Agreement engages, in the business of nuclear reactor and fuel design engineering.

“**Conversion**” has the meaning set forth in Section 3.01(a).

“**Corporate Board**” means the board of directors of the Corporation.

“**Corporation**” has the meaning set forth in the Recitals, together with its successors and assigns.

“**Corporation Offer**” means a tender offer, share exchange offer, issuer bid, take-over bid, recapitalization, or similar transaction with respect to Class A Common Stock.

“**Corresponding Rights**” means any rights issued with respect to a share of Class A Common Stock or Class B Common Stock pursuant to a “poison pill” or similar stockholder rights plan approved by the Corporate Board.

“**Credit Agreements**” means any promissory note, mortgage, loan agreement, indenture or similar instrument or agreement to which the Company or any of its Subsidiaries is or becomes a borrower, as such instruments or agreements may be amended, restated, supplemented or otherwise modified from time to time and including any one or more refinancing or replacements of such instruments or agreements, in whole or in part, with any other debt facility or debt obligation, for as long as the payee or creditor to whom the Company or any of its Subsidiaries owes such obligation is not an Affiliate of the Company.

“**Delaware Act**” means the Delaware Limited Liability Company Act, 6 Del. C. § 18-101, *et seq.*, as it may be amended from time to time, and any successor to the Delaware Limited Liability Company Act, 6 Del. C. § 18-101.

“**Depreciation**” for each applicable Allocation Period means an amount equal to the depreciation, amortization or other cost recovery deduction allowable with respect to an asset for such Allocation Period, except that (a) with respect to any such property the Book Value of which differs from its adjusted basis for U.S. federal income tax purposes and which difference is being eliminated by use of the “remedial method” pursuant to Treasury Regulations Section 1.704-3(d), Depreciation for such Allocation Period shall be the amount of book basis recovered for such Allocation Period under the rules prescribed by Treasury Regulations Section 1.704-3(d)(2), and (b) with respect to any other such property the Book Value of which differs from its adjusted basis for U.S. federal income tax purposes at the beginning of such Allocation Period, Depreciation shall be an amount which bears the same ratio to such beginning Book Value as the federal income tax depreciation, amortization, or other cost recovery deduction for such Allocation Period bears to such beginning adjusted basis. Notwithstanding the foregoing, if the adjusted basis for U.S. federal income tax purposes of an asset at the beginning of such Allocation Period is zero, Depreciation with respect to such asset shall be determined with reference to such beginning Book Value using any reasonable method selected by the Manager.

“**DGCL**” means the General Corporation Law of the State of Delaware, as it may be amended from time to time.

“**Direct Exchange**” has the meaning set forth in [Section 11.03\(a\)](#).

“**Discount**” has the meaning set forth in [Section 6.06](#).

“**Disinterested Majority**” means a majority of the directors of the Corporate Board who are disinterested, as determined by the Corporate Board in accordance with the DGCL, with respect to the matter being considered by the Corporate Board. To the extent, however, a matter being considered by the Corporate Board is required to be considered by disinterested directors under the rules of the Stock Exchange or, if the Class A Common Stock is not listed or admitted to trading on the Stock Exchange, the principal national securities exchange on which the Class A Common Stock is listed or admitted to trading, the Securities Act or the Exchange Act, such rules with respect to the definition of disinterested director shall apply solely with respect to such matter.

“**Distributable Cash**” as of any relevant date on which a determination is being made by the Manager regarding a potential distribution pursuant to [Section 4.01\(a\)](#) means the amount of cash that could be distributed by the Company for such purposes in accordance with any applicable Credit Agreements (and without otherwise violating any applicable provisions of any applicable Credit Agreements) and applicable Law.

“**Distribution**” (and with correlative meaning, “**Distribute**”) means each distribution made by the Company to a Member with respect to such Member’s Units, whether in cash, property or securities of the Company and whether by liquidating distribution or otherwise.

“**Distribution Tax Rate**” with respect to any Member for any taxable period means a rate equal to the highest effective marginal combined federal, state and local income tax rate for such Taxable Year applicable to a corporate or individual taxpayer (whichever is higher) resident in Los Angeles, California, for such Fiscal Year, taking into account the character of the relevant tax items (e.g., ordinary or capital) and the deductibility of state and local income taxes for federal income tax purposes (but only to the extent such taxes are deductible under the Code), as reasonably determined by the Manager.

“**Distribution Date**” means , , and of each year, commencing on ; provided, that if any such date is not a Business Day then the “**Distribution Date**” shall be the next Business Day immediately following such date.

“**Effective Date**” has the meaning set forth in the Preamble.

“**Election Notice**” has the meaning set forth in Section 11.01(b).

“**Equity Plan**” means any option, stock, unit, stock unit, appreciation right, phantom equity or other incentive equity or equity-based compensation plan or program, in each case, now or hereafter adopted by the Company or the Corporation, including the Corporation’s 2026 Incentive Award Plan.

“**Equity Securities**” with respect to any Person means: (a) units or other equity interests in such Person or any Subsidiary of such Person (including, with respect to the Company and its Subsidiaries, other classes or groups of the Company and its Subsidiaries having such relative rights, powers and duties as may from time to time be established by the Manager pursuant to the provisions of this Agreement, including rights, powers or duties senior to existing classes and groups of Units and other equity interests in the Company or any Subsidiary of the Company); (b) obligations, evidences of indebtedness or other securities or interests convertible or exchangeable into any equity interests in such Person or any Subsidiary of such Person; and (c) warrants, options or other rights to purchase or otherwise acquire any equity interests in such Person or any Subsidiary of such Person.

“**Estate Planning Vehicle**” means, with respect to any Member (or former Member) that is a natural person, (a) a trust which is at all times controlled by such Member (or former Member) under which a distribution of such Member’s (or former Member’s) Units may be made only to beneficiaries who are such Member (or former Member), his or her spouse, his or her parents or his or her lineal descendants, (b) a charitable remainder trust which is at all times controlled by such Member (or former Member), the income from which will be paid to such Member (or former Member) during his or her life, (c) a corporation, the sole assets of which are Equity Securities in the Company, and at all times the majority and controlling shareholder of which is only such Member (or former Member) and the remaining shareholders of which are either such Member (or former Member) or his or her spouse, his or her parents or his or her lineal descendants and (d) a partnership or limited liability company, the sole assets of which are Equity Securities in the Company, and at all times the general partner or managing or majority member of which is only such Member (or former Member), and the remaining partners or members of which are either such Member (or former Member) or his or her spouse, his or her parents or his or her lineal descendants.

“Event Issue Value” with respect to any Common Unit as of any date of determination means, in the case of: (a) a Revaluation Event that includes the issuance of Common Units to the Corporation with respect to a public offering by the Corporation, the price paid by the Corporation for such Common Units (in accordance with this Agreement); or (b) any other Revaluation Event, the Closing Sale Price of the Class A Common Stock on the date of such Revaluation Event or, if the Manager determines that a value for the Common Unit other than such Closing Sale Price more accurately reflects the Event Issue Value, the value determined by the Manager.

“Event of Withdrawal” means the bankruptcy or dissolution of a Member or the occurrence of any other event that terminates the continued membership of a Member in the Company. “Event of Withdrawal” shall not include an event that (a) terminates the existence of a Member for U.S. federal income tax purposes (including, without limitation: (i) a change in entity classification of a Member under Treasury Regulations Section 301.7701-3; (ii) a sale of assets by, or liquidation of, a Member pursuant to an election under Sections 336 or 338 of the Code; or (iii) merger, severance, or allocation within a trust or among sub-trusts of a trust that is a Member) but that (b) does not terminate the existence of such Member under applicable state Law (or, in the case of a trust that is a Member, does not terminate the trusteeship of the fiduciaries under such trust with respect to all the Units of such trust that is a Member).

“Exchange Act” means the U.S. Securities Exchange Act of 1934, as amended, and any applicable rules and regulations promulgated under the statute, and any successor to such statute, rules or regulations.

“Exchange Election Notice” has the meaning set forth in [Section 11.03\(b\)](#).

“Excise Tax Reimbursement” has the meaning set forth in [Section 4.01\(b\)\(iv\)](#).

“Fair Market Value” of a specific asset of the Company means the amount that the Company would receive in an all-cash sale of such asset in an arms-length transaction with a willing unaffiliated third party, with neither party having any compulsion to buy or sell, consummated on the day immediately preceding the date on which the event occurred which necessitated the determination of the Fair Market Value (and after giving effect to any transfer taxes payable in connection with such sale), as such amount is determined by the Manager (or, if pursuant to [Section 14.02](#), the Liquidator) in its good faith judgment using all factors, information and data it deems to be pertinent.

“Fiscal Period” means any interim accounting period within a Taxable Year established by the Manager and which is permitted or required by Section 706 of the Code.

“Fiscal Year” means the Company’s annual accounting period established pursuant to [Section 8.02](#).

“Seventh A&R LLC Agreement” has the meaning set forth in the Recitals.

“Governmental Entity” means: (a) the United States of America; (b) any other sovereign nation; (c) any state, province, county, municipal, district, territory or other political subdivision of (a) or (b) of this definition, including any county, municipal or other local subdivision of the foregoing; or (d) any agency, arbitrator or arbitral body (public or private), authority, board, body, bureau, commission, court, department, entity, instrumentality, organization (including any public international organization such as the United Nations) or tribunal exercising executive, legislative, judicial, quasi-judicial, regulatory or administrative functions of or pertaining to government on behalf of (a), (b) or (c) of this definition.

“**HSR Act**” means the Hart-Scott-Rodino Antitrust Improvements Act of 1976, as amended from time to time.

“**Indemnified Person**” has the meaning set forth in [Section 7.04\(a\)](#).

“**Investment Company Act**” means the U.S. Investment Company Act of 1940, as amended from time to time.

“**IPO**” means the initial underwritten public offering of the shares of the Corporation’s Class A Common Stock.

“**IPO Common Unit Subscription**” has the meaning set forth in Section 3.03(b).

“**IPO Common Unit Subscription Agreement**” means that certain Subscription Agreement, dated as of the Effective Date, by and between the Corporation and the Company, relating to the subscription by the Corporation for Common Units.

“**IPO Net Proceeds**” has the meaning set forth in the Recitals.

“**IRS**” means the U.S. Internal Revenue Service.

“**Joinder**” means a joinder to this Agreement, in form and substance substantially similar to [Exhibit A](#) to this Agreement.

“**Law**” means all laws, statutes, acts, constitutions, treaties, principles of common law, codes, ordinances, rules and regulations of any Governmental Entity.

“**Liquidating Event**” has the meaning set forth in [Section 14.01](#).

“**Liquidator**” has the meaning set forth in [Section 14.02](#).

“**LLC Employee**” means an employee of, or other service provider (including, without limitation, any management member whether or not treated as an employee for the purposes of U.S. federal income tax) to, the Company or any of its Subsidiaries, in each case acting in such capacity.

“**Manager**” has the meaning set forth in [Section 6.01\(a\)](#).

“**Mandatory Redemption Right**” has the meaning set forth in Section 11.07.

“**Member**” as of any date of determination means (a) each of the members named on the Schedule of Members and (b) any Person admitted to the Company as a Substituted Member or Additional Member in accordance with [Article XII](#), but in each case only so long as such Person is shown on the Company’s books and records as the owner of one or more Units, each in its capacity as a member of the Company.

“Member Nonrecourse Debt” means liabilities of the Company treated as “partner nonrecourse debt” under Section 1.704-2(b)(4) of the Treasury Regulations.

“Member Nonrecourse Debt Minimum Gain” has the meaning of “partner nonrecourse debt minimum gain” set forth in Treasury Regulation Section 1.704-2(i)(2).

“Member Nonrecourse Deductions” in any year means the Company deductions that are characterized as “partner nonrecourse deductions” under Sections 1.704-2(i)(1) and 1.704-2(i)(2) of the Treasury Regulations.

“Minimum Redemption Number” with respect to a Redemption by any Member means the lesser of (i) Common Units and (ii) all of the Common Units held by the Redeeming Member.

“Minority Member Redemption Date” has the meaning set forth in Section 11.01(i).

“Minority Member Redemption Notice” has the meaning set forth in Section 11.01(i).

“Net Profit” and **“Net Loss”** for each applicable Allocation Period means an amount equal to the Company’s taxable income or loss for such Allocation Period, determined in accordance with Section 703(a) of the Code (for this purpose, all items of income, gain, loss, deduction or credit required to be stated separately pursuant to Section 703(a)(1) of the Code shall be included in taxable income or loss), with the following adjustments (without duplication):

(a) any income of the Company that is exempt from U.S. federal income tax and not otherwise taken into account in computing Net Profit or Net Loss pursuant to this definition of “Net Profit” and “Net Loss” shall be added to such taxable income or loss;

(b) any expenditures of the Company described in Section 705(a)(2)(B) of the Code or treated as Section 705(a)(2)(B) of the Code expenditures pursuant to Treasury Regulations Section 1.704-1(b)(2)(iv)(i), and not otherwise taken into account in computing Net Profit and Net Loss pursuant to this definition of “Net Profit” and “Net Loss,” shall be subtracted from such taxable income or loss;

(c) gain or loss resulting from any disposition of any asset of the Company with respect to which gain or loss is recognized for U.S. federal income tax purposes shall be computed by reference to the Book Value of the asset disposed of, notwithstanding that the adjusted tax basis of such asset differs from its Book Value;

(d) in lieu of the depreciation, amortization, and other cost recovery deductions taken into account in computing such taxable income or loss, there shall be taken into account Depreciation for such Allocation Period, computed in accordance with the definition of Depreciation;

(e) to the extent an adjustment to the adjusted tax basis of any Company asset pursuant to Section 734(b) or Section 743(b) of the Code is required, pursuant to Treasury Regulations Section 1.704-1(b)(2)(iv)(m), to be taken into account in determining Capital Accounts, the amount of such adjustment to the Capital Accounts shall be treated as an item of gain (if the adjustment increases the basis of the asset) or loss (if the adjustment decreases such basis) from the disposition of such asset and shall be taken into account for purposes of computing Net Profit or Net Loss;

(f) if the Book Value of any asset of the Company is adjusted in accordance with clause (b) or (d) of the definition of Book Value, the amount of such adjustment shall be taken into account, in the applicable Allocation Period, as gain or loss from the disposition of such property for purposes of computing Net Profit or Net Loss; and

(g) notwithstanding any other provision of this definition, any items that are specially allocated pursuant to Section 5.03 shall not be taken into account in computing Net Profit and Net Loss.

The amounts of the items of Company income, gain, loss or deduction available to be specially allocated pursuant to Section 5.03 shall be determined by applying rules analogous to those set forth in subparagraphs (a) through (f) above.

“Non-Foreign Person Certificate” has the meaning set forth in Section 11.06(a).

“Officer” has the meaning set forth in Section 6.01(b).

“Original Units” means the Class A Common Units, Class B Common Units, Series A Preferred Units, Series A-1 Preferred Units, Series B Preferred Units, Series C Preferred Units, Series C-1 Preferred Units and Series D Preferred Units (each as defined in the Seventh A&R LLC Agreement) of the Company.

“Other Agreements” has the meaning set forth in Section 10.04.

“Over-Allotment Option” has the meaning set forth in the Recitals.

“Over-Allotment Option Net Proceeds” has the meaning set forth in the Recitals.

“Partnership Tax Audit Rules” means Sections 6221 through 6241 of the Code, as amended, together with any final or temporary Treasury Regulations and other official guidance interpreting Sections 6221 through 6241 of the Code, as amended (and any analogous provision of state or local tax law).

“Per Unit Capital Amount” as of any date of determination means the Capital Account, stated on a per Unit basis, underlying any class of Units held by a Member.

“Percentage Interest” as among an individual class of Units and with respect to a Member at a particular time means such Member’s percentage interest in the Company determined by dividing the number of such Member’s Units of such class by the total number of Units of all Members of such class at such time. The Percentage Interest of each Member shall be calculated to the fourth decimal place.

“Permitted Pledge” means any pledge, hypothecation or grant of security over Units by a Member or any Affiliate thereof with respect to all or any portion of its Units (or any beneficial interest therein) to or in favor of any bank or financial institution as collateral for (i) any loan, advance, extension of credit or (ii) any derivative transaction referencing the Class A Common Stock (including, without limitation, any transaction which transfers some or all of the economic risk of ownership of Class A Common Stock, including any forward contract, equity swap, put or call, put or call equivalent position, collar, sale of exchangeable security or any similar transaction), in the case of each of clause (i) and (ii), other than a total return swap or other transaction or instrument which is deemed to transfer some or all of the beneficial ownership of any Units for U.S. federal income tax purposes.

“Permitted Transfer” has the meaning set forth in [Section 10.02](#).

“Permitted Transferee” has the meaning set forth in [Section 10.02](#).

“Person” means an individual or any corporation, partnership, limited liability company, trust, unincorporated organization, association, joint venture or any other organization or entity, whether or not a legal entity.

“Pre-IPO Members” has the meaning set forth in the Recitals.

“Prime Rate” on any date means a variable rate per annum equal to the most recent “Prime Rate” posted on the “Money Rates” page of The Wall Street Journal (or, if more than one rate is published as the Prime Rate, then the highest of such rates).

“pro rata,” “pro rata portion,” “according to their interests,” “ratably,” “proportionately,” “proportional,” “in proportion to,” “based on the number of Units held,” “based upon the percentage of Units held,” “based upon the number of Units outstanding,” and other terms with similar meanings, when used in the context of a number of Units of the Company relative to other Units, means as amongst an individual class of Units, pro rata based upon the number of such Units within such class of Units.

“Pubco Offer” has the meaning set forth in Section 10.09(b).

“Qualified Offering” means a follow-on or qualified public or private offering of shares of Class A Common Stock by the Corporation following the date of this Agreement.

“Quarterly Redemption Date” for each calendar quarter in a Restricted Fiscal Year following the consummation of the IPO, means: (a) the later to occur of either (i) the completion of the second Trading Day after the date on which the Corporation makes a public news release of its quarterly earnings for the prior calendar quarter and (ii) the first day of each calendar quarter on which directors and executive officers of the Corporation are permitted to trade under the applicable policies of the Corporation related to trading by directors and executive officers; or (b) such other date as the Corporation shall determine in its sole discretion is in the best interest of the Members (other than the Corporation). The Corporation will deliver notice of the Quarterly Redemption Date to each Member (other than the Corporation) at least 75 days prior to each Quarterly Redemption Date.

“Quarterly Tax Distribution” has the meaning set forth in Section 4.01(b)(i).

“Recapitalization” has the meaning set forth in the Recitals.

“Recapitalization Instrument” means the written consent of the Pre-IPO Members set forth in Schedule 4.

“Redeemed Units” has the meaning set forth in Section 11.01(a).

“Redeemed Units Equivalent” means the product of (a) the applicable number of Redeemed Units *multiplied by* (b) the Common Unit Redemption Price.

“Redeeming Member” has the meaning set forth in Section 11.01(a).

“Redemption” has the meaning set forth in Section 11.01(a).

“Redemption Date” has the meaning set forth in Section 11.01(a).

“Redemption Notice” has the meaning set forth in Section 11.01(a).

“Redemption Right” has the meaning set forth in Section 11.01(a).

“Registration Rights Agreement” means the Amended and Restated Registration Rights Agreement, dated as of the date of this Agreement, by and among the Corporation, certain of the Members as of the date of this Agreement and certain other Persons party to such Amended and Restated Registration Rights Agreement (together with any joinder to such agreement from time to time by any successor or assign to any party to such agreement).

“Restricted Fiscal Year” means any Fiscal Year during which the Manager determines the Company does not satisfy the private placement safe harbor of Treasury Regulations Section 1.7704-1(h).

“Retraction Notice” has the meaning set forth in Section 11.01(c).

“Revaluation Event” means an event that results in an adjustment of the Book Value of each Company property pursuant to clauses (b) and (e) of the definition of Book Value.

“Schedule of Members” has the meaning set forth in Section 3.01(b).

“SEC” means the U.S. Securities and Exchange Commission, including any successor governmental body or agency.

“Securities Act” means the U.S. Securities Act of 1933, as amended, and applicable rules and regulations under such statute, and any successor to such statute, rules or regulations. Any reference in this Agreement to a specific section, rule or regulation of the Securities Act shall be deemed to include any corresponding provisions of future Law.

“**Share Settlement**” means a number of shares of Class A Common Stock (together with any Corresponding Rights) equal to the number of Redeemed Units.

“**Specified Members**” has the meaning set forth in Section 9.03.

“**Stock Exchange**” means the New York Stock Exchange.

“**Subsidiary**” with respect to any Person means any corporation, limited liability company, partnership, association or business entity of which: (a) if a corporation, a majority of the total voting power of shares of stock entitled (without regard to the occurrence of any contingency) to vote in the election of directors, managers or trustees of such corporation is at the time owned or controlled, directly or indirectly, by that Person or one or more of the other Subsidiaries of that Person or a combination of such Person or one or more of the other Subsidiaries of such Person; (b) if a limited liability company, partnership, association or other business entity (other than a corporation), a majority of the voting interests of such partnership is at the time owned or controlled, directly or indirectly, by any Person or one or more Subsidiaries of that Person or a combination of such Person or one or more of the other Subsidiaries of such Person; (c) in any case, such Person controls the management of such corporation, limited liability company, partnership, association or business entity; or (d) such business entity is a variable interest entity of that Person. References to a “Subsidiary” of the Company shall be given effect only at such times that the Company has one or more Subsidiaries, and, unless otherwise indicated, the term “Subsidiary” refers to a Subsidiary of the Company. “Subsidiaries” of the Company shall include all of the Company’s direct and indirect, greater than 50% owned joint ventures.

“**Substituted Member**” means a Person that is admitted as a Member to the Company pursuant to Section 12.01.

“**Tax Distributions**” has the meaning set forth in Section 4.01(b)(i).

“**Tax Receivable Agreement**” means the Tax Receivable Agreement, dated as of the date of this Agreement, by and among the Corporation and the Company, on the one hand, and the TRA Parties (as such term is defined in the Tax Receivable Agreement) party to the Tax Receivable Agreement, on the other hand (together with any joinder to such agreement from time to time by any successor or assign to any party to such agreement).

“**Taxable Year**” means the Company’s accounting period for U.S. federal income tax purposes determined pursuant to Section 9.02.

“**Trading Day**” means any day on which shares of Class A Common Stock are actually traded on the principal securities exchange or securities market on which shares of Class A Common Stock are then traded.

“**Trading Market**” means the Stock Exchange, or if the Class A Common Stock is ever listed or traded on any other national exchange or principal quotation system, such market or exchange that is at the applicable time the principal trading platform, market or exchange for the Class A Common Stock.

“**Transfer**” (and, with correlative meaning, “**Transferring**”) means any sale, transfer, assignment, redemption, pledge, encumbrance or other disposition of (whether directly or indirectly, whether with or without consideration and whether voluntarily or involuntarily or by operation of Law) (a) any interest (legal or beneficial) in any Equity Securities of the Company or (b) any equity or other interest (legal or beneficial) in any Member if substantially all of the assets of such Member consist solely of Units.

“**Treasury Regulations**” means the final, temporary and (to the extent they can be relied upon) proposed regulations under the Code, as promulgated from time to time (including corresponding provisions and succeeding provisions) as in effect for the relevant taxable period.

“**Underwriting Agreement**” means the Underwriting Agreement, dated as of the date hereof, by and among the Corporation, J.P. Morgan Securities LLC, Jefferies LLC and Morgan Stanley & Co. LLC, as representatives of the several underwriters named therein.

“**Unit**” means a limited liability company interest in the Company representing the fractional interest of a Member in Net Profits and Net Losses (or items of income, gain, loss, deduction or credit) and Distributions of the Company, and otherwise having the rights and obligations specified with respect to “Units” in this Agreement, including, but not limited to Common Units. Notwithstanding the foregoing, any class or group of Units issued, including the Common Units, shall have the relative rights, powers and duties set forth in this Agreement applicable to such class or group of Units.

“**Unrealized Gain**” attributable to any item of Company property means, as of any date of determination, the excess, if any, of (a) the Fair Market Value of such property as of such date (as determined under clause (c) of the definition of Book Value) over (b) the Book Value of such property as of such date (prior to any adjustment to be made pursuant to clause (b) of the definition Book Value as of such date).

“**Unrealized Loss**” attributable to any item of Company property means, as of any date of determination, the excess, if any, of (a) the Book Value of such property as of such date (prior to any adjustment to be made pursuant to clause (b) of the definition of Book Value as of such date) over (b) the Fair Market Value of such property as of such date (as determined under clause (c) of the definition of Book Value).

“**Unvested Corporate Shares**” means shares of Class A Common Stock issuable pursuant to awards granted under an Equity Plan that are not Vested Corporate Shares.

“**Vested Corporate Shares**” means the shares of Class A Common Stock issued pursuant to awards granted under an Equity Plan that are vested pursuant to the terms thereof or any award or similar agreement relating thereto.

“**Voting Securities**” of any Person means the capital stock or other Equity Securities of such Person normally entitled to vote in the election of directors or comparable governing body of such Person.

“**VWAP**” for any security as of any day or multi-day period means the dollar volume-weighted average price for such security on the principal securities exchange or securities market on which such security is then traded during the period beginning at 9:30:01 a.m., New York time, and ending at 4:00:00 p.m., New York time, as reported by Bloomberg through its “HP” function (set to weighted average). If the foregoing does not apply, “VWAP” shall mean the dollar volume-weighted average price of such security in the over-the-counter market on the electronic bulletin board for such security during the period beginning at 9:30:01 a.m., New York time, and ending at 4:00:00 p.m., New York time, as reported by Bloomberg. If no dollar volume-weighted average price is reported for such security by Bloomberg for such hours, “VWAP” shall mean the average of the highest closing bid price and the lowest closing ask price of any of the market makers for such security as reported by OTC Markets Group Inc. If the VWAP cannot be calculated for such security on such date(s) on any of the foregoing bases, the VWAP of such security on such day or multi-day period (as applicable) shall be the fair market value per share on such day or multi-day period (as applicable) as reasonably determined by the Corporation.

“**Warrant Agreements**” means warrant agreements between the Corporation and the Company, dated as of the date of this Agreement, pursuant to which, among other things, the Company will issue Common Warrants to the Corporation.

ARTICLE II. ORGANIZATIONAL MATTERS

Section 2.01 Formation of the Company. The Company was formed on December 14, 2018 pursuant to the provisions of the Delaware Act.

Section 2.02 Eighth Amended and Restated Limited Liability Company Agreement. The Members execute this Agreement for the purpose of amending, restating and superseding the Seventh A&R LLC Agreement in its entirety and otherwise establishing the affairs of the Company and the conduct of its business in accordance with the provisions of the Delaware Act. During the term of the Company set forth in Section 2.06, the Members agree that the rights and obligations of the Members with respect to the Company will be determined in accordance with the terms and conditions of this Agreement and the Delaware Act. No provision of this Agreement shall be in violation of the Delaware Act. To the extent any provision of this Agreement is in violation of the Delaware Act, such provision shall be void and of no effect to the extent of such violation without affecting the validity of the other provisions of this Agreement. Neither any Member nor the Manager nor any other Person shall have appraisal rights with respect to any Units.

Section 2.03 Name. The name of the Company is “X-Energy Reactor Company, LLC.” The Manager in its sole discretion may change the name of the Company at any time and from time to time. Notification of any such change shall be given to all of the Members. The Company’s business may be conducted under its name and/or any other name or names deemed advisable by the Manager.

Section 2.04 Purpose; Powers. The primary business and purpose of the Company shall be to engage in such lawful acts or activities as are permitted under the Delaware Act and determined from time to time by the Manager in accordance with the terms and conditions of this Agreement. The Company shall have the power and authority to take (directly or indirectly through its Subsidiaries) all actions and engage in all activities necessary, appropriate, desirable, advisable, ancillary or incidental to accomplish the foregoing purpose.

Section 2.05 Principal Office; Registered Office. The principal office of the Company shall be located at such place or places as the Manager may from time to time designate, each of which may be within or outside the State of Delaware. The address of the registered office of the Company in the State of Delaware shall be c/o Corporation Service Company, 251 Little Falls Drive, Wilmington, Delaware, 19808. The registered agent for service of process on the Company in the State of Delaware at such registered office shall be Corporation Service Company. The Manager may from time to time change the Company's registered agent and registered office in the State of Delaware.

Section 2.06 Term. The term of the Company commenced upon the filing of the Certificate of Formation of the Company with the office of the Secretary of State of the State of Delaware in accordance with the Delaware Act and shall continue in perpetuity unless dissolved in accordance with the provisions of Article XIV.

Section 2.07 No State-Law Partnership. The Members intend that the Company not be a partnership (including a limited partnership) or joint venture, and that no Member be a partner or joint venturer of any other Member by virtue of this Agreement, for any purposes other than as set forth in the last sentence of this Section 2.07. Neither this Agreement nor any other document entered into by the Company or any Member relating to the subject matter of this Agreement shall be construed to suggest otherwise. The Members intend that the Company shall be treated as a partnership for U.S. federal and, if applicable, state or local income tax purposes, and that each Member and the Company shall file all tax returns and shall otherwise take all tax and financial reporting positions in a manner consistent with such treatment.

Section 2.08 Liability. Except as otherwise provided by the Delaware Act, the debts, obligations and liabilities of the Company, whether arising in contract, tort or otherwise, shall be solely the debts, obligations and liabilities of the Company. No Member shall be obligated personally for any such debt, obligation or liability of the Company solely by reason of being a Member.

ARTICLE III.
MEMBERS; UNITS; CAPITALIZATION

Section 3.01 Members.

(a) In connection with the IPO, the Corporation was admitted as a Member and will acquire Common Units pursuant to the IPO Common Unit Subscription Agreement.

(b) The Company shall maintain a schedule setting forth: (i) the name and address of each Member; (ii) the aggregate number of outstanding Units and the number and class of Units held by each Member; (iii) the Capital Account of each Member on the Effective Date; (iv) the aggregate amount of cash Capital Contributions that have been made by the Members with respect to their Units; and (v) the Fair Market Value of any property other than cash contributed by the Members with respect to their Units (including, if applicable, a description and the amount of any liability assumed by the Company or to which contributed property is subject) (such schedule, as updated and amended from time to time in accordance with the terms of this Agreement, the “*Schedule of Members*”). The applicable Schedule of Members in effect as of the Effective Date and after giving effect to the Recapitalization, the IPO Common Unit Subscription Agreement and any Common Units to be purchased by the Corporation from the Members with the IPO Net Proceeds is set forth as Schedule 2 to this Agreement. The Schedule of Members may be updated by the Manager in the Company’s books and records from time to time. As updated, the Schedule of Members shall be the definitive record of ownership of each Unit of the Company and all relevant information with respect to each Member. The Company shall be entitled to recognize the exclusive right of a Person registered on its records as the owner of Units for all purposes. The Company shall not be bound to recognize any equitable or other claim to or interest in Units on the part of any other Person, whether or not it shall have express or other notice of such claim or interest, except as otherwise provided by the Delaware Act. Following the date of this Agreement, no Person shall be admitted as a Member and no additional Units shall be issued except as expressly provided in this Agreement.

(c) No Member shall be required or, except as approved by the Manager pursuant to Section 6.01 and in accordance with the other provisions of this Agreement, permitted to: (i) loan any money or property to the Company; (ii) borrow any money or property from the Company; or (iii) make any additional Capital Contributions.

Section 3.02 Units.

(a) Interests in the Company shall be represented by Units, or such other securities of the Company, in each case as the Manager may establish in its discretion in accordance with the terms and subject to the restrictions of this Agreement. At the Effective Date, the Units will be comprised of a single class of Common Units.

(b) Subject to compliance with Section 3.04(a), the Manager may cause the Company to: (i) issue additional Common Units; and (ii) create one or more classes or series of Units solely to the extent such new class or series of Units are substantially economically equivalent to a class of common or other stock of the Corporation or class or series of preferred stock of the Corporation, respectively. The Company may reissue any Common Units that have been repurchased or acquired by the Company. Any such issuance, and the admission of any Person as a Member in connection with such issuance, shall not be valid unless otherwise made in accordance with the provisions of this Agreement.

(c) Subject to Section 15.03(b) and Section 15.03(c), the Manager may amend this Agreement, without the consent of any Member or any other Person, in connection with the creation and issuance of such classes or series of Units, pursuant to Section 3.02(b), Section 3.04(a) or Section 3.10.

Section 3.03 Recapitalization; the Corporation's Capital Contribution; the Corporation's Purchase of Common Units and Common Warrants.

(a) Immediately prior to the Effective Date, in order to effect the Recapitalization, the number of Original Units that were issued and outstanding and held by the Pre-IPO Members prior to the Effective Date as set forth opposite the respective Pre-IPO Member's name in Schedule 1 were converted pursuant to the Recapitalization Instrument into the number of Common Units set forth opposite the name of the respective Pre-IPO Member on the Schedule of Members attached to this Agreement as Schedule 2. Such Common Units are issued and outstanding as of the Effective Date, and the holders of such Common Units are Members under this Agreement.

Section 3.04 Authorization and Issuance of Additional Units and Warrants.

(a) Except as otherwise determined by the Manager, the Company, the Manager and the Corporation shall undertake all actions, including an issuance, reclassification, distribution, division or recapitalization, with respect to the Common Units, the ClassA Common Stock or the ClassB Common Stock, as applicable, to maintain at all times: (i) a one-to-one ratio between the number of Common Units owned by the Corporation, directly or indirectly, and the number of outstanding shares of ClassA Common Stock; (ii) a one-to-one ratio between the number of Common Units owned by each Member (other than the Corporation and its Subsidiaries), directly or indirectly, and the number of outstanding shares of ClassB Common Stock owned by such Member, which number of Common Units owned by each Member (other than the Corporation and its Subsidiaries) shall equal the number of outstanding shares of ClassB Common Stock, as applicable and (iii) a one-to-one ratio between any other outstanding Equity Securities (including any Corresponding Rights) of the Corporation and the corresponding class of Equity Securities (including any Corresponding Rights) of the Company, which are held by the Corporation (collectively, the "One-to-One Ratios"). With respect to each of clauses (i)- (iii) of the preceding sentence, for purposes of maintaining the One-to-One Ratios, the Corporation shall disregard: (A) treasury stock; or (B) preferred stock or other debt securities or Equity Securities (including any Corresponding Rights) issued by the Corporation that are convertible into or exercisable or exchangeable for Common Stock (except to the extent the net proceeds from such other securities, including any exercise or purchase price payable upon conversion, exercise or exchange of such other securities, has been contributed by the Corporation to the equity capital of the Company). In each of the foregoing cases of clause (B), the issuance of Common Stock in connection with the conversion, exercise or exchange of such preferred stock or other debt or Equity Securities, as applicable, shall not be disregarded. Except as otherwise determined by the Manager, if the Corporation issues, transfers or delivers from treasury stock or repurchases or redeems shares of ClassA Common Stock in a transaction not contemplated in this Agreement, the Manager, the Corporation and the Company shall take all actions such that, after giving effect to all such issuances, transfers, deliveries, repurchases or redemptions, the number of outstanding Common Units owned, directly or indirectly, by the Corporation will equal on a one-for-one basis the aggregate number of outstanding shares of ClassA Common Stock.

(b) Except as otherwise determined by the Manager, if the Corporation issues, transfers or delivers from treasury stock or repurchases or redeems any shares of the Corporation's preferred stock in a transaction not contemplated in this Agreement, the Manager, the Company and the Corporation shall take all actions such that, after giving effect to all such issuances, transfers, deliveries, repurchases or redemptions, the Corporation, directly or indirectly, holds (in the case of any issuance, transfer or delivery) or ceases to hold (in the case of any repurchase or redemption) Equity Securities in the Company that (in the good faith determination by the Manager) are in the aggregate substantially economically equivalent to the outstanding preferred stock of the Corporation so issued, transferred, delivered, repurchased or redeemed. Except as otherwise determined by the Manager, if the Corporation issues, transfers or delivers from treasury stock or repurchases or redeems Class B Common Stock in a transaction not contemplated in this Agreement, the Manager, the Corporation and the Company shall take all actions such that, after giving effect to all such issuances, transfers, deliveries, repurchases or redemptions, the number of outstanding Common Units owned, directly or indirectly, by the Members (other than the Corporation and its Subsidiaries), directly or indirectly, will equal on a one-for-one basis the aggregate number of outstanding shares of Class B Common.

(c) Except as otherwise determined by the Manager, the Corporation and the Company shall not undertake any subdivision or combination of the Common Units, Class A Common Stock, or Class B Common Stock, that is not accompanied by an identical subdivision or combination of Class A Common Stock, Class B Common Stock or Common Units, as applicable, to maintain at all times the One-to-One Ratios. The prohibition set forth in the preceding sentence shall not apply if such subdivision or combination is necessary to maintain at all times a one-to-one ratio between either the number of Common Units owned, directly or indirectly, by the Corporation and the aggregate number of outstanding shares of Class A Common Stock and Class B Common Stock, the number of Common Units owned by Members (other than the Corporation and its Subsidiaries) and the aggregate number of outstanding shares of Class B Common Stock, owned by the Corporation, directly or indirectly, in each case as contemplated by the first sentence of this [Section 3.04\(c\)](#). For purposes of this [Section 3.02\(b\)](#), the term "subdivision" shall include any subdivision effectuated by any Unit split, stock split, Unit distribution, stock distribution, reclassification, division, recapitalization or similar event and the term "combination" shall include combinations effectuated by reverse Unit split, reverse stock split, reclassification, division, recapitalization or similar event.

(d) Except in connection with a redemption of Common Units described in [Article XI](#), if at any time the Corporation issues a share of Class A Common Stock or other Equity Security: (i) the Company shall issue to the Corporation such number of Common Units or corresponding Equity Securities as is necessary to maintain the One-to-One Ratios; and (ii) in exchange for such issuance, the net proceeds or contributed proceeds received by the Corporation with respect to the corresponding issuance of Class A Common Stock or Equity Securities shall be concurrently contributed by the Corporation to the Company except to the extent such net proceeds are used by the Corporation to acquire Common Units from a Member (other than the Corporation). If at any time the Corporation issues or redeems Class A Common Stock or Equity Securities, the Company, the Corporation and the Manager shall cooperate to issue, redeem, convert and/or cancel the Common Units or corresponding Equity Securities of the Company as necessary to maintain the One-to-One Ratios.

(e) Notwithstanding anything to the contrary in this Agreement, except to the extent described in [Section 3.04\(a\)](#) through [\(d\)](#), from time to time at its sole discretion: (i) the Corporation may make loans to the Company and its Subsidiaries; and (ii) the Corporation may contribute property (including cash and/or the loans described in the foregoing clause (i)) to the Company. Upon each contribution described in the foregoing clause (ii), and after giving proper effect to all related transactions, the Company shall (x) issue to the Corporation such number of Common Units or Equity Securities of the Company as necessary to maintain the One-to-One Ratios, if any, or the economic parity between one share of Class A Common Stock, on the one hand, and one Common Unit, on the other hand, and (y) cancel such number of Common Units or Equity Securities of the Company held by Members other than the Corporation on a pro rata basis (based on the number of Common Units held by each such Member) as necessary to maintain the One-to-One Ratios or the economic parity between one share of Class A Common Stock, on the one hand, and one Common Unit, on the other hand.

(f) The Company shall only be permitted to issue additional Common Units, and/or establish other classes or series of Units or other Equity Securities in the Company to the Persons and on the terms and conditions provided for in [Section 3.02](#), this [Section 3.04](#), [Section 3.10](#) and [Section 3.11](#). Subject to the foregoing, the Manager may cause the Company to issue additional Common Units authorized under this Agreement and/or establish other classes or series of Units or other Equity Securities in the Company at such times and upon such terms as the Manager shall determine. The Manager shall amend this Agreement as necessary in connection with the issuance of additional Common Units, to establish other classes or series of Units or other Equity Securities in the Company, or admission of additional Members under this [Section 3.04](#). In each of the foregoing cases, such amendment shall not require any consent or acknowledgement of any other Member.

Section 3.05 Repurchase or Redemption.

(a) Except as otherwise reasonably determined by the Manager, if at any time any shares of ClassA Common Stock are repurchased or redeemed (whether by exercise of a put or call, automatically or by means of another arrangement) by the Corporation for cash, then the Manager shall cause the Company, immediately prior to such repurchase or redemption of ClassA Common Stock, to redeem a corresponding number of Common Units held (directly or indirectly) by the Corporation. The aggregate redemption price for any such redemption shall be equal to the aggregate purchase or redemption price of the shares of ClassA Common Stock being repurchased or redeemed by the Corporation (plus any expenses related thereto). The other terms for any such redemption shall be the same as applicable to the shares of ClassA Common Stock being repurchased or redeemed by the Corporation. With respect to any other Equity Securities of the Corporation that are repurchased or redeemed (whether by exercise of a put or call, automatically or by means of another arrangement) by the Corporation for cash, then, immediately prior to such repurchase or redemption of such Equity Securities, the Manager shall cause the Company to redeem an equal number of the corresponding class or series of Equity Securities of the Company with the same rights to dividends and distributions (including distributions upon liquidation) and other economic rights as those of such Equity Securities of the Corporation held (directly or indirectly) by the Corporation, in accordance with the One-to-One Ratios. The aggregate redemption price for any such redemption shall be equal to the aggregate purchase or redemption price of the applicable Equity Securities of the Corporation being repurchased or redeemed by the Corporation (plus any expenses related thereto), if any, and upon such other terms as are the same for the applicable Equity Securities of the Corporation being repurchased or redeemed by the Corporation. If the Corporation uses funds received from distributions from the Company or the net proceeds from an issuance of ClassA Common Stock to fund such repurchase or redemption, then the Company shall cancel a corresponding number of Common Units held (directly or indirectly) by the Corporation for no consideration (but only to the extent that such Common Units were issued upon the issuance of ClassA Common Stock from which the redemption proceeds were obtained).

(b) The Company may not redeem or repurchase: (i) any Common Units from the Corporation unless substantially simultaneously the Corporation redeems or repurchases an equal number of shares of Class A Common Stock for the same price per security from holders of such Class A Common Stock; or (ii) any other Equity Securities of the Company from the Corporation unless substantially simultaneously the Corporation redeems or repurchases for the same price per security an equal number of Equity Securities of Corporation of a corresponding class or series with substantially the same rights to dividends and distributions (including distributions upon liquidation) and other economic rights as those of such Equity Securities of the Corporation.

(c) Notwithstanding any provision to the contrary contained in this Agreement, the Company shall not make any repurchase or redemption if such repurchase or redemption would violate any applicable Law.

Section 3.06 Certificates. The Units shall be uncertificated unless otherwise determined by the Manager.

Section 3.07 Negative Capital Accounts. No Member shall be required to pay to any other Member or the Company any deficit or negative balance that may exist from time to time in such Member's Capital Account (including upon and after dissolution of the Company).

Section 3.08 No Withdrawal. No Person shall be entitled to withdraw any part of such Person's Capital Contribution or Capital Account or to receive any Distribution from the Company except as expressly provided in this Agreement.

Section 3.09 Loans From Members. Loans by Members to the Company shall not be considered Capital Contributions. Subject to the provisions of Section 3.01(c), the amount of any such advances shall be a debt of the Company to such Member and shall be payable or collectible in accordance with the terms and conditions upon which such advances are made.

Section 3.10 Corporate Stock Option Plans and Equity Plans. Nothing in this Agreement shall be construed or applied to preclude or restrain the Corporation from adopting, modifying or terminating an Equity Plan or from issuing shares of Class A Common Stock pursuant to any such plans. The Corporation may implement such Equity Plans and any actions taken under such Equity Plans (such as the grant or exercise of options to acquire shares of Class A Common Stock), whether taken with respect to or by an employee or other service provider of the Corporation, the Company or their respective Subsidiaries. Such implementation shall be in a manner determined by the Corporation in accordance with the initial implementation guidelines attached to this Agreement as Exhibit C, which may be amended by the Corporation from time to time. In its sole discretion, the Corporation may amend this Agreement (including Exhibit C) as necessary or advisable in connection with the adoption, implementation, modification or termination of an Equity Plan. In the event of such an amendment by the Corporation, the Company will provide notice of such amendment to the Members. The Company is expressly authorized to issue Units (i) in accordance with the terms of any such Equity Plan, or (ii) in an amount equal to the number of shares of Class A Common Stock issued pursuant to any such Equity Plan, without any further act, approval or vote of any Member or any other Persons.

Section 3.11 Dividend Reinvestment Plan, Cash Option Purchase Plan or Other Plan. Except as may otherwise be provided in this Article III, all amounts received or deemed received by the Corporation in respect of any dividend reinvestment plan, cash option purchase plan, or other subscription plan or agreement, either (a) shall be utilized by the Corporation to effect open market purchases of shares of Class A Common Stock, or (b) if the Corporation elects instead to issue new shares of Class A Common Stock with respect to such amounts, shall be contributed by the Corporation to the Company in exchange for additional Common Units. Upon such contribution, the Company will issue to the Corporation a number of Common Units equal to the number of new shares of Class A Common Stock so issued.

ARTICLE IV. DISTRIBUTIONS

Section 4.01 Distributions.

(a) *Distributable Cash; Other Distributions.*

(i) After making or providing for any Distributions pursuant to Section 4.01(b), to the extent permitted by applicable Law and under this Agreement, Distributions to Members may be declared by the Manager out of Distributable Cash or other funds or property legally available for Distributions in such amounts, at such time and on such terms (including the payment dates of such Distributions) as the Manager in its sole discretion shall determine using such record date as the Manager may designate. All Distributions made under this Section 4.01(a)(i) shall be made to the Members holding Common Units, on a *pro rata* basis as follows: with respect to Members holding Common Units as of the close of business on such record date, on a *pro rata* basis in accordance with each Member's Common Unit Percentage Interest (other than any Distributions made pursuant to Section 4.01(a)(ii)) as of the close of business on such record date. Notwithstanding the foregoing, the Manager shall have the obligation to make distributions as set forth in Section 4.01(b) and Section 14.02.

(ii) In its sole discretion, the Manager, may authorize that cash be paid to the Corporation (which payment shall be made without *pro rata* distributions to the other Common Units) in exchange for the redemption, repurchase or other acquisition of Equity Securities in the Company that are held by the Corporation to the extent that such cash payment is used to redeem, repurchase or otherwise acquire an equal number of corresponding Equity Securities of the Corporation in accordance with Section 3.05.

(iii) Notwithstanding any other provision herein to the contrary, no Distributions shall be made to any Member to the extent such Distribution would render the Company insolvent or violate the Delaware Act or any applicable Law. For purposes of the foregoing sentence, "insolvency" means the inability of the Company to meet its payment obligations when due.

(b) *Tax Distributions and Reimbursements.*

(i) With respect to each Taxable Year, and to the extent permitted by applicable Law, the Company shall make cash distributions (“**Tax Distributions**”) to each Member in an amount equal to (1) in accordance with, and to the extent of, such Member’s Assumed Tax Liability; *provided, however*, to the extent a Member would otherwise be entitled to receive less than its Common Unit Percentage Interest of the aggregate Tax Distributions to be paid pursuant to this Section 4.01(b)(i)(A) on any given date, then the Tax Distributions to such Member shall be increased, as necessary, to ensure that all such Tax Distributions made pursuant to this Section 4.01(b)(i)(A) are made *pro rata* in accordance with the Members’ respective Common Unit Percentage Interests; or (2) if the amount the Corporation would receive under clause (1) is, in the sole discretion of the Manager, reasonably expected to be less than the amount that will enable the Corporation to meet both its tax obligations and its obligations pursuant to the Tax Receivable Agreement, then: (I) the Corporation shall receive an amount that will enable the Corporation to meet both its tax obligations and its obligations pursuant to the Tax Receivable Agreement for the relevant taxable year or quarter, as applicable; and (II) the Members (other than the Corporation) shall receive an amount necessary to ensure that the Tax Distributions made pursuant to this Section 4.01(b)(i)(A), when taking into account the amount to be distributed to the Corporation under clause (2)(I), are made *pro rata* in accordance with the Members’ respective Common Unit Percentage Interests.

(ii) Tax Distributions pursuant to Section 4.01(b)(i) shall be estimated by the Company on a quarterly basis and, to the extent feasible, shall be distributed to the Members (together with a statement showing the calculation of such Tax Distribution and an estimate of the Company’s net taxable income allocable to each Member for such period) on a quarterly basis on April 15th, June 15th, September 15th and December 15th (or such other dates for which corporations or individuals are required to make quarterly estimated tax payments for U.S. federal income tax purposes, whichever is earlier) (each, a “**Quarterly Tax Distribution**”). The foregoing shall not restrict the Company from making a Tax Distribution on any other date as the Company determines is necessary to enable the Members to timely make estimated income tax payments. Quarterly Tax Distributions shall take into account the estimated taxable income or loss of the Company for the Taxable Year through the end of the relevant quarterly period. A final accounting for Tax Distributions shall be made for each Taxable Year after the allocation of the Company’s actual net taxable income or loss has been determined and any shortfall in the amount of Tax Distributions a Member received for such Taxable Year based on such final accounting shall promptly be distributed to such Member. Any excess Tax Distributions a Member receives with respect to any Taxable Year shall reduce future Tax Distributions otherwise required to be made to such Member with respect to any subsequent Taxable Year, but shall not reduce Tax Distributions made to a Member to provide such Member with its Common Unit Percentage Interest of Tax Distributions made pursuant to Section 4.01(b)(i). Notwithstanding anything to the contrary in this Agreement, in its reasonable discretion, the Manager shall make equitable adjustments (downward (but not below zero) or upward) to the Members’ Tax Distributions. Any such equitable adjustments shall be made *pro rata* in proportion to the Members’ respective number of Common Units to take into account increases or decreases in the number of Common Units held by each Member during the relevant period.

(iii) In the event of any audit by, or similar event with, a Governmental Entity that affects the calculation of any Member's Assumed Tax Liability for any Taxable Year (other than an audit conducted pursuant to the Partnership Tax Audit Rules for which no election is made pursuant to Section 6226 of the Partnership Tax Audit Rules and the Treasury Regulations promulgated under the Partnership Tax Audit Rules), or in the event the Company files an amended tax return or administrative adjustment request, each Member's Assumed Tax Liability with respect to such year shall be recalculated by giving effect to such event, taking into account interest, penalties or additions to tax. Any shortfall in the amount of Tax Distributions the Members and former Members received for the relevant Taxable Years based on such recalculated Assumed Tax Liability promptly shall be distributed to such Members and the successors of such former Members, except to the extent Distributions were made to such Members and former Members pursuant to Section 4.01(a)(i) and this Section 4.01(b) in the relevant Taxable Years sufficient to cover such shortfall.

(iv) Consistent with the provision in Section 6.06, if the Corporation is subject to any excise tax pursuant to Section 4501 of the Code and any Treasury Regulations promulgated thereunder in connection with the Redemption, the Company shall, to the extent permitted by applicable Law, reimburse the Corporation ("**Excise Tax Reimbursement**") in an amount equal to such excise tax obligation at such time as, in its sole discretion, the Manager reasonably determines is necessary to enable the Corporation to timely make such excise tax payments as required by applicable law. For the avoidance of doubt, the amount of any Excise Tax Reimbursement the Corporation receives shall not reduce any other entitlement of the Corporation to distributions pursuant to this Agreement.

ARTICLE V.
CAPITAL ACCOUNTS; ALLOCATIONS; TAX MATTERS

Section 5.01 Capital Accounts.

(a) The Company shall maintain a separate Capital Account for each Member according to the rules of Treasury Regulations Section 1.704-1(b)(2)(iv) and, to the extent consistent with such provisions, the following provisions:

(i) To each Member's Capital Account there shall be credited: (A) such Member's Capital Contributions; (B) such Member's distributive share of Net Profit and any item in the nature of income or gain that is allocated pursuant to Section 5.02 and Section 5.03; and (C) the amount of any Company liabilities assumed by such Member or that are secured by any asset distributed to such Member.

(ii) To each Member's Capital Account there shall be debited: (A) the amount of money and the Book Value of any asset distributed to such Member pursuant to any provision of this Agreement; (B) such Member's distributive share of Net Loss and any items in the nature of deductions or losses that are allocated to such Member pursuant to Section 5.02 and Section 5.03; and (C) the amount of any liabilities of such Member assumed by the Company or that are secured by any asset contributed by such Member to the Company.

(iii) In determining the amount of any liability for purposes of Section 5.01(a)(i) and Section 5.01(a)(ii), there shall be taken into account Section 752(c) of the Code and any other applicable provisions of the Code and the Treasury Regulations.

The foregoing provisions and the other provisions of this Agreement relating to the maintenance of Capital Accounts are intended to comply with Treasury Regulations Section 1.704-1(b) and shall be interpreted and applied in a manner consistent with such Treasury Regulations. In the event that the Manager shall reasonably determine that it is necessary to modify the manner in which the Capital Accounts or any debits or credits to such Capital Accounts are maintained (including debits or credits relating to liabilities that are secured by contributed or distributed property or that are assumed by the Company or the Members) to comply with the Code and Treasury Regulations or to ensure that the allocations provided for in this Section 5.01 have substantial economic effect and/or are in accordance with the Members' interests in the Company, the Manager may (acting reasonably and in good faith) make such modification so long as such modification will not have any effect on the amounts distributed to any Person pursuant to Article XIV upon the dissolution of the Company. The Manager also may: (x) make any adjustments that are necessary or appropriate to maintain equality between Capital Accounts of the Members and the amount of capital reflected on the Company's balance sheet, as computed for book purposes, in accordance with Treasury Regulations Section 1.704-1(b)(2)(iv)(g); and (y) make any appropriate modifications if unanticipated events might otherwise cause this Agreement not to comply with Treasury Regulations Section 1.704-1(b).

(b)

(c) The Company shall revalue the Capital Accounts in connection with a Revaluation Event and in accordance with the definition of Book Value. In the event of a Transfer of Units made in accordance with this Agreement, the Capital Account of the transferor that is attributable to the transferred Units shall carry over to the transferee Member in accordance with the provisions of Treasury Regulation Section 1.704-1(b)(2)(iv)(I).

(d)

Section 5.02 Allocations. After giving effect to the allocations in Section 5.03, Net Profit and Net Loss (and, to the extent the Manager determines necessary, individual items of income, gain, loss, deduction or credit) of the Company for each applicable Allocation Period shall be allocated among the Members during such Allocation Period. Such allocation shall be in a manner such that the Capital Account of each Member, immediately after making such allocation, is, as nearly as possible, equal to (i) the distributions that would be made to such Member pursuant to Section 14.02(c) if the Company were dissolved, its affairs wound up and its assets sold for cash equal to their Book Value, all Company liabilities were satisfied (limited with respect to each nonrecourse liability to the Book Value of the assets securing such liability) and the net assets of the Company were distributed, in accordance with Section 14.02(c), to the Members immediately after making such allocation, *minus* (ii) such Member's share of Company Minimum Gain and Member Nonrecourse Debt Minimum Gain, computed immediately prior to the hypothetical sale of assets. Notwithstanding the foregoing, the Manager (acting reasonably and in good faith) may make allocations it deems necessary to give economic effect to the provisions in Article V, Article XIV and the other relevant provisions of this Agreement and to properly reflect each Member's "interest in the partnership" within the meaning of Treasury Regulations Section 1.704-1(b)(3).

Section 5.03 Special Allocations.

(a) Member Nonrecourse Deductions attributable to Member Nonrecourse Debt shall be allocated to the Members bearing the economic risk of loss for such Member Nonrecourse Debt as determined under Treasury Regulation Section 1.704-2(b)(4). If more than one Member bears the economic risk of loss for such Member Nonrecourse Debt, the Member Nonrecourse Deductions attributable to such Member Nonrecourse Debt shall be allocated among the Members according to the ratio in which they bear the economic risk of loss. This Section 5.03(a) is intended to comply with the provisions of Treasury Regulation Section 1.704-2(i) and shall be interpreted consistently with such Treasury Regulation Section 1.704-2(i).

(b) Nonrecourse deductions (as determined according to Treasury Regulations Section 1.704-2(b)(1)) for any Taxable Year shall be allocated pro rata among the Members in accordance with their Common Unit Percentage Interests. If there is a net decrease in the Company Minimum Gain during any Taxable Year, each Member shall be allocated individual items of income and gain for such Taxable Year (and, if necessary, for subsequent Taxable Years) in the amounts and of such character as determined according to Treasury Regulations Section 1.704-2(f). This Section 5.03(b) is intended to be a minimum gain chargeback provision that complies with the requirements of Treasury Regulations Section 1.704-2(f) and shall be interpreted in a manner consistent with Treasury Regulations Section 1.704-2(f).

(c) If any Member unexpectedly receives an adjustment, allocation or Distribution described in Treasury Regulations Sections 1.704-1(b)(2)(ii)(d)(4), (5) and (6) has an Adjusted Capital Account Deficit as of the end of any Taxable Year, after all other allocations pursuant to Section 5.02 and this Section 5.03, have been tentatively made as if this Section 5.03(c) were not in this Agreement, items of income and gain for such Taxable Year shall be allocated to such Member in proportion to, and to the extent of, such Adjusted Capital Account Deficit. This Section 5.03(c) is intended to be a qualified income offset provision as described in Treasury Regulations Section 1.704-1(b)(2)(ii)(d) and shall be interpreted in a manner consistent with Treasury Regulations Section 1.704-1(b)(2)(ii)(d).

(d) If the allocation of Net Losses (or individual items of loss or deduction) to a Member as provided in Section 5.02 would create or increase an Adjusted Capital Account Deficit, there shall be allocated to such Member only that amount of Net Loss (or individual items of loss or deduction) as will not create or increase an Adjusted Capital Account Deficit. The Net Losses (or individual items of loss or deduction) that would, absent the application of the preceding sentence, otherwise be allocated to such Member shall be allocated to the other Members in accordance with their relative Common Unit Percentage Interests, subject to this Section 5.03(d).

(e) In the event that any Member has an Adjusted Capital Account Deficit at the end of any applicable Allocation Period, such Member shall be allocated items of Company gross income, and gain in the amount of such deficit as quickly as possible. Any allocation pursuant to this Section 5.03(e) shall be made, however, only if and to the extent that such Member would have an Adjusted Capital Account Deficit after all other allocations provided for in Section 5.02 and this Section 5.03 have been tentatively made as if Section 5.03(c) and this Section 5.03(e) were not in this Agreement.

(f) To the extent an adjustment to the adjusted tax basis of any Company asset pursuant to Sections 734(b) or 743(b) of the Code is required pursuant to Treasury Regulations Section 1.704-1(b)(2)(iv)(m)(4) to be taken into account in determining Capital Accounts as a result of a distribution other than in liquidation of a Member's interest in the Company, the amount of such adjustment shall be treated as an item of gain (if the adjustment increases the basis of such asset) or loss (if the adjustment decreases the basis of such asset) from the disposition of the asset and shall be taken into account for purposes of computing Net Profit and Net Loss. To the extent an adjustment to the adjusted tax basis of any Company asset pursuant to Sections 734(b) or 743(b) of the Code is required, pursuant to Treasury Regulations Section 1.704-1(b)(2)(iv)(m)(2) or Section 1.704-1(b)(2)(iv)(m)(4), to be taken into account in determining Capital Accounts as the result of a distribution to a Member in complete liquidation of such Member's interest in the Company, the amount of such adjustment to Capital Accounts shall be treated as an item of gain (if the adjustment increases the basis of the asset) or loss (if the adjustment decreases such basis). Such gain or loss shall be specially allocated to such Members in accordance with their interests in the Company in the event Treasury Regulations Section 1.704-1(b)(2)(iv)(m)(2) applies, or to the Member to whom such distribution was made in the event Treasury Regulations Section 1.704-1(b)(2)(iv)(m)(4) applies.

(g) The allocations set forth in Section 5.03(a) through and including Section 5.03(e) (the "**Regulatory Allocations**") are intended to comply with certain requirements of Sections 1.704-1(b) and 1.704-2 of the Treasury Regulations. The Regulatory Allocations may not be consistent with the manner in which the Members intend to allocate Net Profit and Net Loss of the Company or make Distributions. Accordingly, notwithstanding the other provisions of this Article V, but subject to the Regulatory Allocations, income, gain, deduction and loss with respect to the Company shall be reallocated among the Members so as to eliminate the effect of the Regulatory Allocations. As a result of such reallocation, the respective Capital Accounts of the Members shall be in the amounts (or as close to such amounts as possible) they would have been if Net Profit and Net Loss (and such other items of income, gain, deduction and loss) had been allocated without reference to the Regulatory Allocations. In general, the Members anticipate that this will be accomplished by specially allocating other Net Profit and Net Loss (and such other items of income, gain, deduction and loss) among the Members so that the net amount of the Regulatory Allocations and such special allocations to each such Member is zero. If in any Allocation Period there is a decrease in partnership minimum gain, or in partner nonrecourse debt minimum gain, and application of the minimum gain chargeback requirements set forth in Section 5.03(a) or Section 5.03(b) would cause a distortion in the economic arrangement among the Members, then if it does not expect that the Company will have sufficient other income to correct such distortion, the Manager may request the IRS to waive either or both of such minimum gain chargeback requirements pursuant to Treasury Regulations Section 1.704-2(f)(4). If such request is granted, this Agreement shall be applied in such instance as if it did not contain such minimum gain chargeback requirement.

Section 5.04 Tax Allocations.

(a) The income, gains, losses, deductions and credits of the Company will be allocated, for federal, state and local income tax purposes, among the Members in accordance with the allocation of such income, gains, losses, deductions and credits among the Members for computing their Capital Accounts. If any such allocation is not permitted by the Code or other applicable Law, the Company's subsequent income, gains, losses, deductions and credits will be allocated among the Members so as to reflect as nearly as possible the allocation set forth in this Section 5.04 in computing their Capital Accounts.

(b) In accordance with Section 704(c) of the Code and the Treasury Regulations thereunder, income, gain, loss, and deduction with respect to any asset contributed to the capital of the Company and with respect to reverse Code Section 704(c) allocations described in Treasury Regulations Section 1.704-3(a)(6) shall, solely for applicable tax purposes, be allocated among the Members. Such allocation shall take account of any variation between the adjusted basis of such asset to the Company for U.S. federal income tax purposes and its initial Book Value or its Book Value determined pursuant to Treasury Regulations Section 1.704-1(b)(2)(iv)(f) (computed in accordance with the definition of Book Value). In the case of any variation that exists as a result of the IPO, the foregoing allocation shall be made using the "traditional method with curative allocations limited to back end gain on sale." In the case of any other variation, the allocation shall be made using the "traditional method with curative allocations limited to back end gain on sale," unless another method is chosen by the Manager. In the event that multiple such variations exist, Section 704(c) shall be applied in reverse chronological order. Allocations pursuant to this Section 5.04(b), Section 704(c) of the Code (and the principles thereof), and Treasury Regulations Section 1.704-1(b)(4)(i) are solely for purposes of U.S. federal (and applicable state and local) income tax purposes. Accordingly, any such allocations shall not affect, or in any way be taken into account in computing, any Member's Capital Account or share of Net Profit or Net Loss. Allocations of tax credits, tax credit recapture, and any items related to such tax credits and tax credit recapture shall be allocated to the Members as determined by the Manager taking into account the principles of Treasury Regulations Section 1.704-1(b)(4)(ii).

(c) For purposes of determining a Member's share of the Company's "excess nonrecourse liabilities" within the meaning of Treasury Regulations Section 1.752-3(a)(3), each Member's interest in income and gain shall be determined pursuant to any proper method, as reasonably determined by the Manager. In making such determination in any year, the Manager shall use its reasonable best efforts to allocate a sufficient amount of the excess nonrecourse liabilities to those Members who would have at the end of the applicable Taxable Year, but for such allocation, taxable income due to the deemed distribution of money to such Member pursuant to Section 752(b) of the Code that is in excess of such Member's adjusted tax basis in its Units. In exercising its reasonable best efforts to determine the appropriate allocation, the Manager shall use in all instances any proper method permitted under applicable Law, including without limitation the "additional method" described in Treasury Regulations Section 1.752-3(a)(3). With respect to any of the Company's "excess nonrecourse liabilities" that arise after the Effective Date, the Manager shall not be required to allocate "excess nonrecourse liabilities" in the manner described in the preceding proviso to the extent that the Manager determines in its sole discretion made in good faith that such allocation would reasonably be expected to have a material adverse impact on the Corporation. For purposes of the preceding sentence, any such allocation that results in the Corporation having a lower tax basis in its interests in the Company but that does not otherwise cause the Corporation to have taxable income in the applicable Taxable Year in excess of the taxable income it otherwise would have been expected to have in such Taxable Year utilizing a different permissible allocation of "excess nonrecourse liabilities" shall not be considered a material adverse impact, including instances where this result arises from an actual or deemed distribution made to the Corporation in such Taxable Year.

(d) If necessary, the Company will make corrective allocations as set forth in Treasury Regulation Section 1.704-1(b)(4)(x).

(e) In the event any Common Units issued pursuant to Section 3.10 are subsequently forfeited, the Company may make forfeiture allocations with respect to such Common Units in the Taxable Year of such forfeiture in accordance with the principles of proposed Treasury Regulations Section 1.704-1(b)(4)(xii)(c), taking into account any amendments to Treasury Regulations Section 1.704-1(b)(4)(xii)(c) and any temporary or final Treasury Regulations issued pursuant to Section 1.704-1(b)(4)(xii)(c).

(f) Allocations pursuant to this Section 5.04 are solely for purposes of federal, state and local income taxes. Accordingly, any such allocations shall not affect, or in any way be taken into account in computing, any Member's Capital Account or share of Net Profits, Net Losses, Distributions (other than Tax Distributions) or other items of the Company pursuant to any provision of this Agreement.

Section 5.05 Tax Withholding.

(a) If requested by the Manager, each Member shall, if able to do so, deliver to the Manager: (i) an affidavit in form satisfactory to the Company, such as an IRS Form W-9 or applicable IRS Form W-8, that the applicable Member (or its beneficial owners, as the case may be) is not subject to withholding under the provisions of any U.S. federal, state, local, foreign or other applicable Law; (ii) any certificate that the Company may reasonably request with respect to any such Laws; or (iii) any other form or instrument reasonably requested by the Company relating to any Member's status under such Law. In the event that a Member fails or is unable to deliver to the Company an affidavit described in clause (i) of this Section 5.05(a), the Company may withhold amounts from such Member in accordance with Section 5.05(b).

(b) After receipt of a written request of any Member or former Member, the Company shall provide such information to such Member and take such other action as may be reasonably necessary to assist such Member in making any necessary filings, applications or elections to obtain any available exemption from, or any available refund of, any withholding imposed by any taxing authority with respect to amounts distributable or items of income allocable to such Member under this Agreement to the extent not adverse to the Company or any Member. In addition and at the request of any Member, the Company shall make or cause to be made (or cause the Company to make) any such filings, applications or elections. Any Member making such a request shall cooperate with the Company, with respect to any such filing, application or election to the extent reasonably required by the Company. The requesting Member shall also be responsible for and pay any filing fees, taxes or other out-of-pocket expenses reasonably incurred in connection with any information, filing, application or elections described in this Section 5.05(b) or, if there is more than one requesting Member, by such requesting Members in accordance with their relative Common Unit Percentage Interests.

(c) Withholding Advances. To the extent the Corporation or the Company is required by Law to withhold or to make tax payments (including payments for interest, penalties or additions to tax) on behalf of or with respect to any Member (“**Withholding Advances**”), the Corporation or the Company, as the case may be, may withhold such amounts and make such tax payments as so required. For the avoidance of doubt, Withholding Advances shall include the delivery of consideration in connection with a Redemption or Direct Exchange, backup withholding, Section 1445 of the Code, Section 1446 of the Code or any “imputed underpayment” within the meaning of the Code or, in each case, similar provisions of state, local or other tax Law.

(d) Repayment of Withholding Advances. All Withholding Advances made on behalf of a Member who is an officer or director of the Corporation must be repaid as soon the Company withholds or makes tax payments on behalf of such Member. All Withholding Advances made on behalf of any other Member, plus interest thereon at a rate equal to the Prime Rate as of the date of such Withholding Advances plus % per annum, shall: (i) be paid on demand by the Member (or former Member) on whose behalf such Withholding Advances were made (it being understood that no such payment shall increase such Member’s Capital Account); or (ii) with the consent of the Manager be repaid by reducing the amount of the current or next succeeding distribution or distributions that would otherwise have been made to such Member or, if such distributions are not sufficient for that purpose, by so reducing the proceeds of liquidation otherwise payable to such Member. Interest on any Withholding Advances shall begin to accrue on the day that is 15 days after the payment of such Withholding Advances by the Company to the extent of the amount of Withholding Advances that have not yet been repaid by such Member at such time. Whenever repayment of a Withholding Advance by a Member is made as described in clause (ii) of this Section 5.05(c), for all other purposes of this Agreement such Member shall be treated as having received all distributions (whether before or upon any Liquidating Event) unreduced by the amount of such Withholding Advance and interest thereon.

(e) Withholding Advances — Reimbursement of Liabilities. Each Member agrees to reimburse the Company for any liability with respect to Withholding Advances (including interest on any Withholding Advances) required or made on behalf of or with respect to such Member (including penalties imposed with respect to any Withholding Advances).

ARTICLE VI.
MANAGEMENT

Section 6.01 Authority of the Manager: Officer Delegation.

(a) Except for situations in which the approval of any Member(s) is specifically required by this Agreement and except as otherwise provided in this Agreement: (i) all management powers over the business and affairs of the Company shall be exclusively vested in the Corporation, as the sole managing member of the Company (the Corporation, in such capacity, the “**Manager**”); (ii) the Manager shall conduct, direct and exercise full control over all activities of the Company; and (iii) the Manager shall have power to bind or take any action on behalf of the Company, or to exercise in its discretion any rights and power granted to the Company under this Agreement, or any other agreement, instrument or other document to which the Company is a party. Without limiting the generality of the foregoing, the Manager’s discretion shall include the right to take certain actions, give or withhold certain consents or approvals, or make certain determinations, opinions, judgment, or other decisions consistent with the grant of authority set forth in this Section 6.01(a). The Manager shall be the “manager” of the Company for the purposes of the Delaware Act. Except as otherwise expressly provided for in this Section 6.01(a) and subject to the other provisions of this Agreement, the Members consent to the exercise by the Manager of all such powers and rights conferred on the Members by the Delaware Act with respect to the management and control of the Company. Any vacancies in the position of the Manager shall be filled in accordance with Section 6.04.

(b) Without limiting the authority of the Manager to act on behalf of the Company, the day-to-day business and operations of the Company shall be overseen and implemented by officers of the Company (each, an “**Officer**” and collectively, the “**Officers**”), subject to the limitations imposed by the Manager. An Officer may, but need not, be a Member. Each Officer shall be appointed by the Manager and shall hold office until such Officer’s successor shall be duly designated and shall qualify or until such Officer’s death or until such Officer shall resign or shall have been removed in the manner provided in this Section 6.01. Any one Person may hold more than one office. Subject to the other provisions of this Agreement, the salaries or other compensation, if any, of the Officers of the Company shall be fixed from time to time by the Manager. The authority and responsibility of the Officers shall be limited to such duties as the Manager may, from time to time, delegate to them. Unless the Manager decides otherwise, if the title is one commonly used for officers of a business corporation formed under the General Corporation Law of the State of Delaware, the assignment of such title shall constitute the delegation to such Person of the authorities and duties that are normally associated with that office. All Officers shall be, and shall be deemed to be, officers and employees of the Company. An Officer may also perform one or more roles as an officer of the Manager. Any Officer may be removed at any time, with or without cause, by the Manager.

(c) Subject to the other provisions of this Agreement, the Manager shall have the power and authority to effectuate the sale, lease, transfer, exchange or other disposition of any, all or substantially all of the assets of the Company or the merger, consolidation, conversion, division, reorganization or other combination of the Company with or into another entity, without the prior consent of any Member or any other Person being required. Such sale, lease, transfer, exchange or other disposition of any, all or substantially all of the assets of the Company shall include the exercise or grant of any conversion, option, privilege or subscription right or any other right available in connection with any assets at any time held by the Company.

Section 6.02 Actions of the Manager. The Manager may act through any Officer or through any other Person or Persons to whom authority and duties have been delegated pursuant to Section 6.01(b).

Section 6.03 Resignation; No Removal. The Manager may resign at any time by giving written notice to the Members. Any such resignation shall be subject to the appointment of a new Manager in accordance with Section 6.04. Unless otherwise specified in the notice, the resignation shall take effect upon receipt of such notice by the Members (subject to the appointment of a new Manager in accordance with Section 6.04), and the acceptance of the resignation shall not be necessary to make it effective. The Members have no right under this Agreement to remove or replace the Manager. Notwithstanding anything to the contrary in this Section 6.03, no replacement or termination of the Corporation as the Manager shall be effective unless proper provision is made, in compliance with this Agreement, so that the obligations of the Corporation, its successor or assign (if applicable) and any new Manager and the rights of all Members under this Agreement and applicable Law remain in full force and effect. No appointment of a Person other than the Corporation (or its successor or assign, as applicable) as the Manager shall be effective unless: (a) the new Manager executes a Joinder to this Agreement and agrees to be bound by the terms and conditions in this Agreement; and (b) the Corporation (or its successor or assign, as applicable) and the new Manager (as applicable) provide all other Members with contractual rights, directly enforceable by such other Members against the Corporation (or its successor, as applicable) and the new Manager (as applicable), to cause (i) the Corporation to comply with all of the Corporation's obligations under this Agreement (in its capacity as a Member) and (ii) the new Manager to comply with all of the Manager's obligations under this Agreement.

Section 6.04 Vacancies. Vacancies in the position of Manager occurring for any reason shall be filled by the Corporation. If the Corporation has ceased to exist without any successor or assign, then any such Manager vacancy shall be filled by the holders of a majority in interest of the voting capital stock of the Corporation immediately prior to such cessation. The Members (other than the Corporation) have no right under this Agreement to fill any vacancy in the position of Manager.

Section 6.05 Transactions Between the Company and the Manager. The Manager may cause the Company to contract and deal with the Manager, or any Affiliate of the Manager. With the exception of contracts and dealings between the Company and its Subsidiaries, any contracts between the Manager or any Affiliate of the Manager and the Company shall be: (i) on terms comparable to and competitive with those available to the Company from others dealing at arm's length; (ii) approved by the Members (other than the Manager) holding a majority of the Percentage Interests of the Members (other than the Manager); or (iii) approved by the Disinterested Majority. Any contracts between the Manager or any Affiliate of the Manager and the Company approved pursuant to clause (i), (ii) or (iii) in the preceding sentence must also be otherwise permitted by the Credit Agreements. The limitations set forth in the foregoing sentence shall in no way, however, limit the Manager's rights under Section 3.02, Section 3.04, Section 3.05 or Section 3.10. The Members approve each of the contracts or agreements between or among the Manager or its Affiliates (other than the Company and its Subsidiaries), on the one hand, and the Company or its Affiliates (other than the Manager and any of the Company's Subsidiaries), on the other hand, entered into on or prior to the date of this Agreement in accordance with the Seventh A&R LLC Agreement or that the board of managers of the Company or the Corporate Board has approved in connection with the IPO, including the Recapitalization, as of the date of this Agreement, including the Tax Receivable Agreement.

Section 6.06 Reimbursement for Expenses. Except as provided in this Section 6.06, the Manager shall not be compensated for its services as the Manager of the Company. The Members acknowledge and agree that the Manager's Class A Common Stock is publicly traded and, therefore, the Manager has access to the public capital markets and that such status and the services performed by the Manager will inure to the benefit of the Company and all Members. Accordingly, the Manager shall be reimbursed by the Company for any reasonable out-of-pocket expenses incurred on behalf of the Company. Such reasonable out-of-pocket expenses incurred on behalf of the Company shall apply to, among others, all fees, expenses and costs associated with being a public company (including public reporting obligations, proxy statements, stockholder meetings, Trading Market fees (or fees associated with the principal national securities exchange on which the Class A Common Stock is then listed or admitted to trading), transfer agent fees, legal fees, SEC and FINRA filing fees, offering expenses and excise taxes (including any excise taxes imposed pursuant to Section 4501 of the Code) incurred in connection with the redemption of any shares of Equity Securities of the Manager) and maintaining its corporate existence. In the event that shares of Class A Common Stock are sold to underwriters in any subsequent public offering at a price per share that is lower than the price per share for which such shares of Class A Common Stock are sold to the public in such subsequent public offering, after taking into account underwriters' discounts or commissions and brokers' fees or commissions (such difference, the "**Discount**"): (i) the Manager shall be deemed to have contributed to the Company in exchange for newly issued Common Units the full amount for which such shares of Class A Common Stock were sold to the public; and (ii) the Company shall be deemed to have paid the Discount as an expense. To the extent practicable, expenses incurred by the Manager on behalf of or for the benefit of the Company shall be billed directly to and paid by the Company. To the extent any reimbursements to the Manager or any of its Affiliates by the Company pursuant to this Section 6.06 constitute gross income to such Person (as opposed to the repayment of advances made by such Person on behalf of the Company), such amounts shall be treated as "guaranteed payments" within the meaning of Section 707(c) of the Code (unless otherwise required by the Code and Treasury Regulations) and shall not be treated as distributions for purposes of computing the Members' Capital Accounts. Notwithstanding the foregoing, the Company shall not bear any obligations with respect to income tax of the Manager or any payments made pursuant to the Tax Receivable Agreement other than in a manner that is expressly contemplated under this Agreement.

Section 6.07 Limitation of Liability of Manager.

(a) Except as otherwise provided in this Agreement or in an agreement entered into by such Person and the Company, neither the Manager nor any of the Manager's Affiliates or the Manager's officers, directors or employees (collectively "**Manager's Representatives**") shall be liable to the Company, to any Member that is not the Manager or to any other Person bound by this Agreement for any act or omission performed or omitted by the Manager in its capacity as the sole managing member of the Company pursuant to authority granted to the Manager by this Agreement. Except as otherwise provided in this Agreement, however, the foregoing limitation of liability shall not apply to the extent the act or omission was attributable to the Manager's or the Manager's Representative's gross negligence, bad faith, fraud intentional misconduct or knowing violation of Law or for any present or future material breaches of any representations, warranties or covenants by the Manager or any Manager's Representative contained in this Agreement or in the Other Agreements with the Company. The Manager may exercise any of the powers granted to it by this Agreement and perform any of the duties imposed upon it under this Agreement either directly or by or through its agents, and the Manager shall not be responsible for any misconduct or negligence on the part of any such agent (so long as such agent was selected in good faith and with reasonable care). The Manager shall be entitled to rely upon the advice of legal counsel, independent public accountants and other experts, including financial advisors. Any act of or failure to act by the Manager in good faith reliance on the advice of any of the foregoing shall in no event subject the Manager to liability to the Company or any Member that is not the Manager.

(b) Notwithstanding any other provision of this Agreement or in any agreement contemplated in this Agreement or applicable provisions of Law or equity or otherwise, to the fullest extent permitted by applicable Law, whenever this Agreement or any other agreement contemplated in this Agreement provides that the Manager shall act in a manner that is, or provide terms that are, “fair and reasonable” to the Company or any Member that is not the Manager, the Manager shall determine such appropriate action or provide such terms considering, in each case, the relative interests of each party to such agreement, transaction or situation and the benefits and burdens relating to such interests, any customary or accepted industry practices, and any applicable United States generally accepted accounting practices or principles.

(c) In connection with the performance of its duties as the Manager of the Company, except as otherwise set forth in this Agreement, the Manager acknowledges that, solely in its capacity as the Manager, it will owe fiduciary duties to the Members. Such fiduciary duties shall be the same fiduciary duties as such Manager would owe to the stockholders of a Delaware corporation if it were a member of the board of directors of such a corporation and the Members were stockholders of such corporation. Officers of the Company shall also owe Members and the Company the same fiduciary duties they would owe as if they were officers of a Delaware corporation.

Section 6.08 Investment Company Act. The Manager shall use its best efforts to ensure that the Company shall not be subject to registration as an investment company pursuant to the Investment Company Act.

ARTICLE VII. RIGHTS AND OBLIGATIONS OF MEMBERS AND THE MANAGER

Section 7.01 Limitation of Liability and Duties of Members.

(a) Except as provided in this Agreement or in the Delaware Act, the debts, obligations and liabilities of the Company, whether arising in contract, tort or otherwise, shall be solely the debts, obligations and liabilities of the Company. No Member or Manager shall be obligated personally for any debts, obligations, contracts or liabilities of the Company solely by reason of being a Member or the Manager (except to the extent and under the circumstances set forth in any non-waivable provision of the Delaware Act). Notwithstanding anything contained in this Agreement to the contrary and to the fullest extent permitted by applicable Law, the failure of the Company to observe any formalities or requirements relating to the exercise of its powers or management of its business and affairs under this Agreement or the Delaware Act shall not be grounds for imposing personal liability on the Members for liabilities of the Company.

(b) In accordance with the Delaware Act and the Laws of the State of Delaware, a Member may, under certain circumstances, be required to return amounts previously distributed to such Member. It is the intent of the Members that no Distribution to any Member pursuant to Article IV or Article XIV shall be deemed a return of money or other property paid or distributed in violation of the Delaware Act. The payment of any such money or Distribution of any such property to a Member shall be deemed to be a compromise within the meaning of Section 18-502(b) of the Delaware Act. To the fullest extent permitted by Law, any Member receiving any such money or property shall not be required to return any such money or property to the Company or any other Person, unless such distribution was made by the Company to its Members in clerical error. However, if any court of competent jurisdiction holds that, notwithstanding the provisions of this Agreement, any Member is obligated to make any such payment, such obligation shall be the obligation of such Member and not of any other Member.

(c) To the fullest extent permitted by applicable Law, including Section 18-1101(c) of the Delaware Act, and notwithstanding any other provision of this Agreement (but subject to Section 6.07 with respect to the Manager) or in any Agreement contemplated in this Agreement or applicable provisions of Law or equity or otherwise, to the extent that any Member (other than the Manager in its capacity as such) (or any Member's Affiliate or any manager, managing member, general partner, director, officer, employee, agent, fiduciary or trustee of any Member or of any Affiliate of a Member (other than the Company)) has duties (including fiduciary duties) to the Company, the Manager, another Member, any Person who acquires an interest in a Unit or any other Person bound by this Agreement, all such duties (including fiduciary duties) are eliminated, to the fullest extent permitted by law, and replaced with the duties or standards expressly set forth in this Agreement. The limitations set forth in the preceding sentence shall not, however, eliminate the implied contractual covenant of good faith and fair dealing. The elimination of duties (including fiduciary duties) to the Company, the Manager, each of the Members, each other Person who acquires an interest in a Unit and each other Person bound by this Agreement and replacement of such duties with the duties or standards expressly set forth in this Agreement are approved by the Company, the Manager, each of the Members, each other Person who acquires an interest in a Unit and each other Person bound by this Agreement.

Section 7.02 Lack of Authority. No Member, other than the Manager or a duly appointed Officer, in each case in its capacity as such, has the authority or power to act for or on behalf of the Company, to do any act that would be binding on the Company or to make any expenditure on behalf of the Company. The Members consent to the exercise by the Manager of the powers conferred on it by Law and this Agreement.

Section 7.03 No Right of Partition. No Member, other than the Manager, shall have the right to seek or obtain partition by court decree or operation of Law of any property of the Company, or the right to own or use particular or individual assets of the Company.

Section 7.04 Indemnification.

(a) The Company agrees to indemnify and hold harmless any Person (each an “*Indemnified Person*”) to the fullest extent permitted under applicable Law, as the same now exists or may hereafter be amended, substituted or replaced. To the fullest extent permitted by applicable Law, no such amendment, substitution or replacement shall affect the existing rights of any Indemnified Person except to the extent that such amendment, substitution or replacement permits the Company to provide broader indemnification rights than the Company is currently providing immediately prior to such amendment, substitution or replacement. The Indemnification provided under this Section 7.04 shall indemnify and hold harmless each Indemnified Person against all expenses, liabilities and losses (including attorneys’ fees, judgments, fines, excise taxes or penalties) reasonably incurred or suffered by such Person (or one or more of such Person’s Affiliates) by reason of the fact that such Person: (i) is or was a Member or an Affiliate of any Member (other than as a result of an ownership interest in the Corporation); (ii) is or was serving as the Manager or a director, officer or employee of the Manager, the Company Representative, or a director, manager, Officer or employee of the Company; or (iii) is or was serving at the request of the Company as a manager, officer, director, principal, member, employee, advisor, attorney, accountant or other agent or representative of another Person. Notwithstanding the foregoing, no Indemnified Person shall be indemnified for any expenses, liabilities and losses suffered that are attributable to such Indemnified Person’s or its Affiliates’ gross negligence, bad faith, intentional fraud misconduct or knowing violation of Law or for any present or future breaches of any representations, warranties or covenants by such Indemnified Person or its Affiliates contained in this Agreement or in Other Agreements with the Company. Reasonable expenses, including out-of-pocket attorneys’ fees, incurred by any such Indemnified Person in defending a proceeding shall be paid by the Company in advance of the final disposition of such proceeding, including any appeal from such proceeding, upon receipt of an undertaking by or on behalf of such Indemnified Person to repay such amount if it shall ultimately be determined that such Indemnified Person is not entitled to be indemnified by the Company.

(b) The right to indemnification and the advancement of expenses conferred in this Section 7.04 shall not be exclusive of any other right which any Person may have or hereafter acquire under any statute, agreement, bylaw, action by the Manager or otherwise.

(c) The Company shall maintain directors’ and officers’ liability insurance, or substantially equivalent insurance, at its expense, to protect any Indemnified Person against any expense, liability or loss described in Section 7.04(a) whether or not the Company would have the power to indemnify such Indemnified Person against such expense, liability or loss under the provisions of this Section 7.04. The Company shall use its commercially reasonable efforts to purchase and maintain property, casualty and liability insurance in types and at levels customary for companies of similar size engaged in similar lines of business, as determined in good faith by the Manager. The Company shall use its commercially reasonable efforts to purchase directors’ and officers’ liability insurance (including employment practices coverage) with a carrier and in an amount determined necessary or desirable, as determined in good faith by the Manager.

(d) The indemnification and advancement of expenses provided for in this Section 7.04 shall be provided out of and to the extent of Company assets only. Unless such Member otherwise agrees in writing or is found in a non-appealable decision by a Governmental Entity of competent jurisdiction to have personal liability on account of such expenses, no Member shall have personal liability or shall be required to make additional Capital Contributions to help satisfy indemnity obligations of the Company. The Company (i) shall be the primary indemnitor of first resort for such Indemnified Person pursuant to this Section 7.04 and (ii) shall be fully responsible for the advancement of all expenses and the payment of all damages or liabilities with respect to such Indemnified Person which are addressed by this Section 7.04.

(e) If this Section 7.04 or any portion of this Agreement shall be invalidated on any ground by any Governmental Entity of competent jurisdiction, then the Company shall nevertheless indemnify and hold harmless each Indemnified Person pursuant to this Section 7.04 to the fullest extent permitted by any applicable portion of this Section 7.04 that shall not have been invalidated and to the fullest extent permitted by applicable Law.

ARTICLE VIII.

BOOKS, RECORDS, ACCOUNTING AND REPORTS, AFFIRMATIVE COVENANTS

Section 8.01 Records and Accounting. The Company shall keep, or cause to be kept, appropriate books and records with respect to the Company's business, including all books and records necessary to provide any information, lists and copies of documents required pursuant to applicable Laws. All matters concerning (a) the determination of the relative amount of allocations and Distributions among the Members pursuant to Article IV and Article V, and (b) accounting procedures and determinations, and other determinations not specifically and expressly provided for by the terms of this Agreement, shall be determined by the Manager. Any such determination by the Manager shall be final and conclusive as to all of the Members absent manifest clerical error or common law fraud.

Section 8.02 Fiscal Year. The Fiscal Year of the Company shall end on December 31 of each year or such other date as may be established by the Manager.

Section 8.03 Inspection Rights. The Company shall permit each Member and each of its designated representatives to examine the books and records of the Company or any of its Subsidiaries. Such examination shall occur at the principal office of the Company or such other location as the Manager shall reasonably approve during normal business hours and upon reasonable notice for any purpose reasonably related to such Member's Units. Any such inspection by a Member shall be at the Member's sole cost and expense. The inspection rights provided in this Section 8.03 shall not interfere, however, with the Manager's right to keep confidential from the Members certain information in accordance with Section 18-305 of the Delaware Act.

ARTICLE IX.

TAX MATTERS

Section 9.01 Preparation of Tax Returns. The Manager shall arrange for the preparation and timely filing of all tax returns required to be filed by the Company. The Manager shall use reasonable efforts (taking into account applicable extensions of time to file tax returns) to furnish, within 215 days of the close of each Taxable Year, or as soon as reasonably possible, to each Member a completed IRS Schedule K-1 (and any comparable state and local income tax form) and such other information as is reasonably requested by such Member relating to the Company that is necessary for such Member to comply with its tax reporting obligations. Subject to the terms and conditions of this Agreement, in its capacity as Company Representative, the Manager shall have the authority to prepare the tax returns of the Company using such permissible methods and elections as it determines in its reasonable discretion, including the use of any permissible method under Section 706 of the Code for purposes of determining the varying Units of its Members.

Section 9.02 Tax Elections. The Taxable Year shall be the Fiscal Year set forth in Section 8.02, unless otherwise required by Section 706 of the Code. The Manager shall cause the Company and each of its Subsidiaries that is treated as a partnership for U.S. federal income tax purposes to have in effect an election pursuant to Section 754 of the Code (or any similar provisions of applicable state, local or foreign tax Law) for the Taxable Year that includes the Effective Date and each subsequent Taxable Year in which an Exchange (as defined in the Tax Receivable Agreement) occurs. The preceding sentence shall not apply, however, to any Company Subsidiary to the extent it is directly or indirectly held by or through any Company Subsidiary that is treated as a corporation for U.S. federal, and applicable state and local, income tax purposes. The Manager shall take commercially reasonable efforts to cause each Person in which the Company owns a direct or indirect equity interest that is so treated as a partnership to have in effect such an election for the Taxable Year that includes the Effective Date and each subsequent Taxable Year in which an Exchange (as defined in the Tax Receivable Agreement) occurs. The foregoing shall not apply to any such Person that is directly or indirectly held by or through an entity treated as a corporation for U.S. federal, and applicable state and local, income tax purposes. Each Member will upon request supply any information reasonably necessary to give proper effect to any such elections.

Section 9.03 Company Representative.

(a) The Manager is specially authorized and appointed to act as the Company Representative and in any similar capacity under state or local Law. The Manager may also appoint and replace the Company Representative. The Company Representative shall designate a “designated individual” in accordance with Treasury Regulations Section 301.6223-1(b)(3)(i). The Company and the Members (including any Member designated as the Company Representative prior to the date of this Agreement) shall reasonably cooperate with each other and shall use reasonable best efforts to cause the Manager (or any Person subsequently designated) to become the Company Representative with respect to any taxable period of the Company with respect to which the statute of limitations has not yet expired. To implement the foregoing, the Company and the Members shall cause any tax matters partner, partnership representative or designated individual designated prior to the Effective Date to resign, be revoked or replaced, as applicable, including (as applicable) by filing certifications pursuant to Treasury Regulations Section 301.6231(a)(7)-1(d).

(b) At the Company’s expense, the Company Representative may retain such outside counsel, accountants and other professional consultants as the Company Representative reasonably deems necessary in the course of fulfilling its obligations. Subject to the other terms of this Agreement, the Company Representative is authorized to take such actions and execute and file all statements and forms on behalf of the Company that are approved by the Manager and are permitted or required by the applicable provisions of the Partnership Tax Audit Rules. The Company Representative will have sole discretion to determine whether the Company (either in its own behalf or on behalf of the Members) will contest or continue to contest any tax deficiencies assessed or proposed to be assessed by any taxing authority. Each Member agrees to reasonably cooperate with the Company Representative and to do or refrain from doing any or all things reasonably requested by the Company Representative (including paying all resulting taxes, additions to tax, penalties and interest in a timely fashion) in connection with any examination of the Company’s affairs by any taxing authorities, including resulting administrative and judicial proceedings. Any deficiency for taxes imposed on any Member (including penalties, additions to tax or interest imposed with respect to such taxes) will be paid by such Member. If such deficiency is required to be paid (and actually paid) by the Company, such deficiency will be recoverable from such Member as provided in Section 5.05. The Company Representative shall be entitled to cause the Company to elect the application of Section 6226 of the Code with respect to any imputed underpayment or make any other decision or election, or take any action pursuant to Sections 6221 through 6235 and 6241 of the Code. The Company Representative shall keep the Members reasonably informed of any material audit or administrative or judicial proceedings and any decisions or elections described in the previous sentence that are material in nature. The Company shall reimburse the Company Representative for all reasonable, documented out-of-pocket expenses incurred by the Company Representative, including reasonable fees of any professional attorneys, in carrying out its duties as the Company Representative. In the event that the Manager determines that the foregoing provisions are no longer applicable to the Company, either due to a change of controlling law or the enactment of applicable Treasury Regulations, the Manager is authorized to take any reasonable actions as may be required concerning tax matters of the Company not otherwise addressed in this Section 9.03. The provisions of this Section 9.03 shall survive the termination of any Member’s interest in the Company, the termination of this Agreement and the termination of the Company. The provisions of this Section 9.03 shall remain binding on each Member for the period of time necessary to resolve with any applicable taxing authority any tax matters relating to the Company.

ARTICLE X.
RESTRICTIONS ON TRANSFER OF UNITS; CERTAIN TRANSACTIONS

Section 10.01 Transfers by Members. No holder of Units shall Transfer any interest in any Units, except Transfers: (a) pursuant to and in accordance with Section 10.02 and Section 10.09; (b) approved in advance and in writing by the Manager, in the case of Transfers by any Member other than the Manager; or (c) in the case of Transfers by the Manager, to any Person who succeeds to the Manager in accordance with Section 6.04. Notwithstanding the foregoing, “Transfer” shall not include any indirect Transfer of Units held by the Manager by virtue of any Transfer of Equity Securities in the Corporation. Notwithstanding any other provision of this Agreement to the contrary, no Member shall Transfer all or any part of its Units or any right or economic interest pertaining to such Units if such Transfer, nor shall the Company issue any Units if such issuance, in the reasonable discretion of the Manager, (x) would cause the Company to (1) be classified as a “publicly traded partnership” as that term is defined in Section 7704 of the Code and Treasury Regulations promulgated thereunder or (2) fail to qualify for the safe harbor contained in Treasury Regulations Section 1.7704-1(h) or (y) would result in the Company having more than 100 partners, within the meaning of Treasury Regulations Section 1.7704-1(h)(1) (determined pursuant to the rules of Treasury Regulations Section 1.7704-1(h)(3)) in any Fiscal Year that is not a Restricted Fiscal Year.

Section 10.02 Permitted Transfers. The restrictions contained in Section 10.01 shall not apply to any of the following (each, a “*Permitted Transfer*” and each transferee, a “*Permitted Transferee*”): (i) a Transfer pursuant to a Redemption or Direct Exchange in accordance with Article XI; (ii) a Transfer by a Member to the Corporation or any of its Subsidiaries; (iii) a Permitted Pledge; or (iv) to an Affiliate of such Member. In addition, the Manager shall not unreasonably withhold, condition or delay its consent to any other Transfer by a Member so long as such Transfer would not, in the reasonable discretion of the Manager, have the consequence described in clauses (x) or (y) of the last sentence of Section 10.01. The restrictions contained in this Agreement will continue to apply to Units after any Permitted Transfer of such Units. In addition, in the case of any transfers pursuant to clause (iii) of this Section 10.02: (i), the Permitted Transferees of the Units so Transferred shall at the time of the Permitted Transfer agree in writing to be bound by the provisions of this Agreement; and (ii) prior to such Transfer the transferor will deliver a written notice to the Company and the Members, which notice will disclose in reasonable detail the identity of the proposed Permitted Transferee. If a Permitted Transfer pursuant to clause (iii) of this Section 10.02 would result in a Change of Control, such Member must provide the Manager with written notice of any such proposed Permitted Transfer at least 60 calendar days prior to the consummation of such Permitted Transfer. In the case of a Permitted Transfer of any Common Units by any Member holding Class B Common Stock to a Permitted Transferee in accordance with this Section 10.02, such Member shall also transfer a number of shares of Class B Common Stock equal to the number of Common Units that were transferred by such Member in the transaction to such Permitted Transferee. All Permitted Transfers are subject to the additional limitations set forth in Section 10.07(b).

Section 10.03 Restricted Units Legend. The Units have not been registered under the Securities Act. Consequently, in addition to the other restrictions on Transfer contained in this Agreement, such Units cannot be sold unless subsequently registered under the Securities Act or if an exemption from such registration is then available with respect to such sale. The book-entry statements representing the Units shall bear, and to the extent Units have been certificated in accordance with Section 3.06, each certificate evidencing Units and each certificate issued in exchange for or upon the Transfer of any Units shall be stamped or otherwise imprinted with, a legend in substantially the following form:

“THE SECURITIES REPRESENTED BY THIS CERTIFICATE HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “ACT”), AND MAY NOT BE SOLD OR TRANSFERRED IN THE ABSENCE OF AN EFFECTIVE REGISTRATION STATEMENT UNDER THE ACT OR AN EXEMPTION FROM REGISTRATION UNDER THE ACT. THE SECURITIES REPRESENTED BY THIS CERTIFICATE ARE ALSO SUBJECT TO ADDITIONAL RESTRICTIONS ON TRANSFER SPECIFIED IN THE EIGHTH AMENDED AND RESTATED LIMITED LIABILITY COMPANY AGREEMENT OF X-ENERGY REACTOR COMPANY, LLC, AS IT MAY BE AMENDED, RESTATED, AMENDED AND RESTATED, OR OTHERWISE MODIFIED FROM TIME TO TIME, AND X-ENERGY REACTOR COMPANY, LLC RESERVES THE RIGHT TO REFUSE THE TRANSFER OF SUCH SECURITIES UNTIL SUCH CONDITIONS HAVE BEEN FULFILLED WITH RESPECT TO ANY TRANSFER. A COPY OF SUCH CONDITIONS SHALL BE FURNISHED BY X-ENERGY REACTOR COMPANY, LLC TO THE HOLDER HEREOF UPON WRITTEN REQUEST AND WITHOUT CHARGE.”

The legend set forth above shall be removed from the book-entry statements or certificates (if any) evidencing any Units that cease to be Units in accordance with the definition of Units.

Section 10.04 Transfer. Prior to Transferring any Units, the Transferring holder of Units shall cause the prospective Permitted Transferee to be bound by this Agreement and any other agreements executed by the holders of Units and relating to such Units in the aggregate to which the Transferring holder was a party (collectively, the “**Other Agreements**”). Any prospective Permitted Transferee shall execute and deliver to the Company counterparts of this Agreement and any applicable Other Agreements.

Section 10.05 Assignee’s Rights.

(a) The Transfer of a Unit in accordance with this Agreement shall be effective as of the date of such Transfer (assuming compliance with all of the conditions to such Transfer set forth in this **Article X**), and such Transfer shall be shown on the books and records of the Company. Net Profits, Net Losses and other items of the Company shall be allocated between the transferor and the transferee according to Code Section 706, using any permissible method as determined in the reasonable discretion of the Manager. Distributions made before the effective date of such Transfer shall be paid to the transferor, and Distributions made on or after such date shall be paid to the Assignee.

(b) Unless and until an Assignee becomes a Member pursuant to **Article XII**, the Assignee shall not be entitled to any of the rights granted to a Member under this Agreement or under applicable Law, other than the rights granted specifically to Assignees pursuant to this Agreement. Without relieving the Transferring holder from any such limitations or obligations as more fully described in **Section 10.06**, such Assignee shall be bound by any limitations and obligations of a Member contained in this Agreement by which a Member would be bound on account of the Assignee’s Units (including the obligation to make Capital Contributions on account of such Units).

Section 10.06 Assignor’s Rights and Obligations. Any Member who shall Transfer any Unit in a manner in accordance with this Agreement shall cease to be a Member with respect to such Units and shall no longer have any rights or privileges, or, except as set forth in this Section 10.06, duties, liabilities or obligations, of a Member with respect to such Units or other interest. The Members acknowledge and agree, however, that the applicable provisions of Section 6.07 and Section 7.04 shall continue to inure to such Person’s benefit. Unless and until the Assignee (if not already a Member) is admitted as a Substituted Member in accordance with the provisions of **Article XII** (the “**Admission Date**”): (a) such Transferring holder shall retain all of the duties, liabilities and obligations of a Member with respect to such Units; and (b) in its sole discretion, the Manager may reinstate all or any portion of the rights and privileges of such Member with respect to such Units for any period of time prior to the Admission Date. Nothing contained in this Agreement shall relieve any Member who Transfers any Units in the Company: (i) from any liability to the Company with respect to such Units that may exist as of the Admission Date or that is otherwise specified in the Delaware Act; (ii) for any liability to the Company or any other Person for any materially false statement made by such Member (in its capacity as such); or (iii) for any present or future breaches of any representations, warranties or covenants by such Member (in its capacity as such) contained in this Agreement or in the Other Agreements with the Company.

Section 10.07 Overriding Provisions.

(a) To the fullest extent permitted by applicable Law, any Transfer or attempted Transfer of any Units in violation of this Agreement (including any prohibited indirect Transfers) shall be null and void *ab initio*, and the provisions of Section 10.05 and Section 10.06 shall not apply to any such Transfers. Any Person to whom a Transfer is made or attempted in violation of this Agreement shall not become a Member and shall not have any other rights in or with respect to any rights of a Member of the Company with respect to the applicable Units. The approval of any Transfer in any one or more instances shall not limit or waive the requirement for such approval in any other or future instance. The Manager shall promptly amend the Schedule of Members to reflect any Permitted Transfer pursuant to this Article X.

(b) Notwithstanding anything contained in this Agreement to the contrary (including the provisions of Section 10.01, Article XI and Article XII), in no event shall any Member Transfer any Units to the extent such Transfer would:

- (i) result in the violation of the Securities Act, or any other applicable federal, state or foreign Laws;
- (ii) cause the Company to be required to register under the Investment Company Act;
- (iii) in the reasonable determination of the Manager, be or result in a violation of or a default (or an event that, with notice or the lapse of time or both, would constitute a default) under, or result in an acceleration of any obligation under any Credit Agreement to which the Company or the Manager is a party. Notwithstanding the foregoing, the payee or creditor to whom the Company or the Manager owes such obligation is not an Affiliate of the Company or the Manager;
- (iv) be a Transfer to a Person who is not legally competent or who has not achieved such Person's majority of age under applicable Law (excluding trusts for the benefit of minors);
- (v) be a Transfer to a Competitor;
- (vi) cause the Company to be treated as a "publicly traded partnership" or to be taxed as a corporation pursuant to Section 7704 of the Code or any successor provision to Section 7704 of the Code; or
- (vii) result in the Company having more than one hundred (100) partners, within the meaning of Treasury Regulations Section 1.7704-1(h)(1)(determined pursuant to the rules of Treasury Regulations Section 1.7704-1(h)(3)).

(c) Notwithstanding anything contained in this Agreement to the contrary, in no event shall any Member that is not a “United States person” within the meaning of Section 7701(a)(30) of the Code Transfer any Units (including in connection with a Redemption or a Direct Exchange) unless and until such Member and the transferee have delivered to the Company, in respect of the relevant Transfer (or Redemption or Direct Exchange, as applicable), written evidence that all required withholding under Section 1446(f) of the Code will have been done and duly remitted to the applicable Governmental Entity or duly executed certifications (prepared in accordance with the applicable Treasury Regulations or other authorities) of an exemption from such withholding and no more than ten Business Days following such Transfer, the transferee Member shall provide the Company with a certification of withholding that meets the requirements of Treasury Regulations Section 1.1446(f)-2(d)(2). The Company shall cooperate in the manner set forth in [Section 10.07\(a\)](#) with any reasonable requests from such Member for certifications or other information from the Company in connection with satisfying this [Section 10.07\(c\)](#) prior to the relevant Transfer (or Redemption or Direct Exchange, as applicable).

[Section 10.08 Spousal Consent.](#) In connection with the execution and delivery of this Agreement, any Member will deliver to the Company an executed consent from such Member’s spouse (if any) in the form of [Exhibit B-1](#) attached to this Agreement or a Member’s spouse confirmation of separate property in the form of [Exhibit B-2](#) attached to this Agreement. If, at any time subsequent to the date of this Agreement such Member becomes legally married (whether in the first instance or to a different spouse), such Member shall cause such Member’s spouse to execute and deliver to the Company a consent in the form of [Exhibit B-1](#) or [Exhibit B-2](#) attached to this Agreement. Such Member’s non-delivery to the Company of an executed consent in the form of [Exhibit B-1](#) or [Exhibit B-2](#) at any time shall constitute such Member’s continuing representation and warranty that such Member is not legally married as of such date.

[Section 10.09 Certain Transactions with respect to the Corporation.](#)

(a) In connection with a Change of Control Transaction, in its sole discretion, the Manager shall have the right to require each Member (other than the Corporation and its Subsidiaries) to effect a Redemption of all or a portion of such Member’s Common Units together with an equal number of shares of Class B Common Stock. Pursuant to a Redemption, such Common Units and such shares of Class B Common Stock will be exchanged for shares of Class A Common Stock (or economically equivalent cash or securities of a successor entity) in accordance with the Redemption provisions of [Article XI, mutatis mutandis](#) (applied for this purpose as if the Corporation had delivered an Election Notice that specified a Share Settlement with respect to such Redemption) and otherwise in accordance with this [Section 10.09\(a\)](#). Any such Redemption pursuant to this [Section 10.09\(a\)](#) shall be effective immediately prior to the consummation of such Change of Control Transaction. For the avoidance of doubt, any such Redemption shall be contingent upon the consummation of such Change of Control Transaction and shall not be effective if such Change of Control Transaction is not consummated (the date of such Redemption pursuant to this [Section 10.09\(a\)](#), the “**Change of Control Date**”). In the event the Manager requires a Redemption under this [Section 10.09](#), then (i) the Common Units and any shares of Class B Common Stock, subject to such Redemption shall be deemed to be transferred to the Corporation on the Change of Control Date; and (ii) each such Member shall cease to have any rights with respect to the Units and any shares of Class B Common Stock, subject to such Redemption (other than the right to receive shares of Class A Common Stock (or economically equivalent cash or Equity Securities in a successor entity) pursuant to such Redemption). In the event the Manager desires to initiate the provisions of this [Section 10.09](#), the Manager shall provide written notice of an expected Change of Control Transaction to all Members within the earlier of (x) five Business Days following the execution of a definitive agreement with respect to such Change of Control Transaction and (y) ten Business Days before the proposed date upon which the contemplated Change of Control Transaction is to be effected. Any such notice shall include shall reasonably describe: (i) the Change of Control Transaction, including the date of execution of any definitive agreement or the proposed effective date for the Change of Control; (ii) the amount and types of consideration to be paid for shares of Class A Common Stock in the Change of Control Transaction; and (iii) any election with respect to types of consideration that a holder of shares of Class A Common Stock shall be entitled to make in connection with a Change of Control Transaction. The election referred to in the preceding sentence shall be available to each Member on the same terms as holders of shares of Class A Common Stock. Following delivery of such notice and on or prior to the Change of Control Date, the Members shall take all actions reasonably requested by the Corporation to effect such Redemption. Such actions shall include taking any action and delivering any document required pursuant to this [Section 10.09\(a\)](#) to effect such Redemption.

(b) If a Corporation Offer is proposed by the Corporation or is proposed to the Corporation or its stockholders and approved by the Corporate Board or is otherwise effected or to be effected with the consent or approval of the Corporate Board, the Manager shall provide written notice of the Corporation Offer to all Members within the earlier of (i) five Business Days following the execution of a definitive agreement with respect to, or the commencement of, such Corporation Offer and (ii) ten Business Days before the proposed date upon which the Corporation Offer is to be effected. Any such written notice shall reasonably describe: (i) the Corporation Offer, including the date of execution of any definitive agreement or of such commencement; (ii) the material terms of such Corporation Offer, including the amount and types of consideration to be received by holders of shares of Class A Common Stock in the Corporation Offer; (iii) any election with respect to types of consideration that a holder of shares of Class A Common Stock shall be entitled to make in connection with such Corporation Offer; and (iv) the number of Common Units (and the corresponding shares of Class B Common Stock) held by such Member that is applicable to such Corporation Offer. The Members (other than the Corporation and its Subsidiaries) shall be permitted to participate in such Corporation Offer by delivering a written notice of participation that is effective immediately prior to the consummation of such Corporation Offer (and that is contingent upon consummation of such offer). Any such written notice shall include such information necessary for consummation of such offer as requested by the Corporation. In the case of any Corporation Offer that was initially proposed by the Corporation, the Corporation shall use reasonable best efforts to enable and permit the Members (other than the Corporation and its Subsidiaries) to participate in such transaction to the same extent or on an economically equivalent basis as the holders of shares of Class A Common Stock, and to enable such Members to participate in such transaction without being required to exchange Common Units or shares of Class B Common Stock prior to the consummation of such transaction. In no event shall the Members be entitled to receive in such Corporation Offer aggregate consideration for each Common Unit that is greater than the consideration payable in respect of each share of Class A Common Stock in connection with a Corporation Offer. Payments under or in respect of the Tax Receivable Agreement shall not be considered part of any such consideration.

(c) If a transaction or proposed transaction constitutes both a Change of Control Transaction and a Corporation Offer, the provisions of Section 10.09(a) shall take precedence over the provisions of Section 10.09(b) with respect to such transaction. The provisions of Section 10.09(b) shall be subordinate to provisions of Section 10.09(a), and may only be triggered if the Manager elects to waive the provisions of Section 10.09(a).

ARTICLE XI.
REDEMPTION AND DIRECT EXCHANGE RIGHTS

Section 11.01 Redemption Right of a Member.

(a) Each Member holding Common Units (other than the Corporation), subject to compliance with any contractual lock-up period relating to the shares of the Corporation that may be applicable to such Member shall be entitled to cause the Company to redeem (a “**Redemption**”) its Common Units (excluding any Common Units that are subject to vesting conditions) in whole or in part (the “**Redemption Right**”). Any such Redemption must be for at least the Minimum Redemption Number and, in the case of a Restricted Fiscal Year, such Member may only exercise its Redemption Right on the Quarterly Redemption Date; provided, however, that for all purposes of this Article XI, any Block Transfer shall be treated as a Redemption occurring in a year that is not a Restricted Fiscal Year. A Member desiring to exercise its Redemption Right (each, a “**Redeeming Member**”) shall exercise such right by giving written notice (the “**Redemption Notice**”) to the Company with a copy to the Corporation. The Redemption Notice shall specify the number of Common Units (the “**Redeemed Units**”) that the Redeeming Member intends to have the Company redeem. The Redemption Notice shall also specify a date, (i) not less than five Business Days nor more than ten Business Days after delivery of such Redemption Notice for a Redemption that occurs in a taxable year that is not a Restricted Fiscal Year or (ii) for a Quarterly Redemption Date for any Redemption that occurs in a Restricted Fiscal Year, unless and to the extent that the Manager in its sole discretion agrees in writing to waive any time periods, not less than 60 days after delivery of the applicable Redemption Notice on which exercise of the Redemption Right shall be completed (the “**Redemption Date**”). The Company, the Corporation and the Redeeming Member may change the number of Redeemed Units and/or the Redemption Date specified in such Redemption Notice to another number and/or date by mutual agreement signed in writing by each of them. If the Corporation elects a Share Settlement, the Redemption may be conditioned (including as to timing) by the Redeeming Member on the closing of an underwritten distribution of the shares of Class A Common Stock that may be issued in connection with such proposed Redemption. Subject to Section 11.03 and unless the Redeeming Member timely has delivered a Retraction Notice as provided in Section 11.01(c) or has revoked or delayed a Redemption as provided in Section 11.01(d), on the Redemption Date (to be effective immediately prior to the close of business on the Redemption Date), then:

(i) the Redeeming Member shall Transfer and surrender, free and clear of all liens and encumbrances (x) the Redeemed Units to the Company (including any certificates representing the Redeemed Units if they are certificated) and (y) a number of shares of Class B Common Stock, as applicable (together with any Corresponding Rights), equal to the number of Redeemed Units to the Corporation, to the extent applicable;

(ii) the Company shall (x) cancel the Redeemed Units, (y) transfer to the Redeeming Member the consideration to which the Redeeming Member is entitled under Section 11.01(b), and (z) if the Common Units are certificated in accordance with Section 3.06, issue to the Redeeming Member a certificate for a number of Common Units equal to the difference (if any) between the number of Common Units evidenced by the certificate surrendered by the Redeeming Member pursuant to clause (ii) of this Section 11.01(a) and the Redeemed Units; and

(b) the Corporation shall cancel and retire for no consideration the shares of Class B Common Stock, as applicable (together with any Corresponding Rights), that were Transferred to the Corporation pursuant to Section 11.01(a)(i)(y). Based on a determination solely by the Disinterested Majority, the Corporation shall have the option as provided in Section 11.02 to elect to have the Redeemed Units be redeemed in consideration for either a Share Settlement or a Cash Settlement. Notwithstanding the foregoing, the Corporation may elect to have the Redeemed Units be redeemed in consideration for a Cash Settlement only to the extent that the Corporation has cash available in an amount equal to at least the Redeemed Units Equivalent, which cash was received from a Qualified Offering. The Corporation shall give written notice (the “**Election Notice**”) to the Company (with a copy to the Redeeming Member) of such election within three Business Days of receiving the Redemption Notice. If the Corporation does not timely deliver an Election Notice, the Corporation shall be deemed to have elected the Share Settlement method (subject to the limitations set forth above).

(c) If the Corporation elects the Cash Settlement in connection with a Redemption, the Redeeming Member may retract its Redemption Notice by giving written notice (the “**Retraction Notice**”) to the Company (with a copy to the Corporation) within three Business Days of delivery of the Election Notice. The timely delivery of a Retraction Notice shall terminate all of the Redeeming Member’s, the Company’s and the Corporation’s rights and obligations under this Section 11.01 arising from the related Redemption Notice.

(d) If the Corporation elects a Share Settlement in connection with a Redemption, a Redeeming Member shall be entitled to revoke its Redemption Notice or delay the consummation of a Redemption if any of the following conditions exists:

(i) any registration statement pursuant to which the resale of the Class A Common Stock to be registered for such Redeeming Member at or immediately following the consummation of the Redemption shall have ceased to be effective pursuant to any action or inaction by the SEC or no such resale registration statement has yet become effective;

- (ii) the Corporation shall have failed to cause any related prospectus to be supplemented by any required prospectus supplement necessary to effect such Redemption;
- (iii) the Corporation shall have exercised its right to defer, delay or suspend the filing or effectiveness of a registration statement and such deferral, delay or suspension shall affect the ability of such Redeeming Member to have its ClassA Common Stock registered at or immediately following the consummation of the Redemption;
- (iv) the Redeeming Member is in possession of any material non-public information concerning the Corporation, the receipt of which results in such Redeeming Member being prohibited or restricted from selling ClassA Common Stock at or immediately following the Redemption without disclosure of such information (and the Corporation does not permit disclosure of such information);
- (v) any stop order relating to the registration statement pursuant to which the ClassA Common Stock was to be registered by such Redeeming Member at or immediately following the Redemption shall have been issued by the SEC;
- (vi) there shall have occurred a material disruption in the securities markets generally or in the market or markets in which the ClassA Common Stock is then traded;
- (vii) there shall be in effect an injunction, a restraining order or a decree of any nature of any Governmental Entity that restrains or prohibits the Redemption;
- (viii) the Corporation shall have failed to comply in all material respects with its obligations under the Registration Rights Agreement, and such failure shall have affected the ability of such Redeeming Member to consummate the resale of ClassA Common Stock to be received upon such Redemption pursuant to an effective registration statement; or
- (ix) the Redemption Date would occur three Business Days or less prior to, or during, a Black-Out Period.

If a Redeeming Member delays the consummation of a Redemption pursuant to this Section 11.01(d), the Redemption Date shall occur on the fifth Business Day following the date on which the condition(s) giving rise to such delay cease to exist or such earlier day as the Corporation, the Company and such Redeeming Member may agree in writing.

(e) The number of shares of ClassA Common Stock or Redeemed Units Equivalent, if applicable, (together with any Corresponding Rights) applicable to any Share Settlement or Cash Settlement shall not be adjusted on account of any Distributions previously made with respect to the Redeemed Units or dividends previously paid with respect to ClassA Common Stock. If a Redeeming Member causes the Company to redeem Redeemed Units and the Redemption Date occurs subsequent to the record date for any Distribution with respect to the Redeemed Units, but prior to payment of such Distribution, the Redeeming Member shall be entitled to receive such Distribution with respect to the Redeemed Units on the date that it is made notwithstanding that the Redeeming Member Transferred and surrendered the Redeemed Units to the Company prior to such date. A Redeeming Member shall be entitled, however, to receive all Tax Distributions that such Redeeming Member otherwise would have received in respect of income allocated to such Member for the portion of any Fiscal Year irrespective of whether such Tax Distribution(s) are declared or made after the Redemption Date.

(f) In the case of a Share Settlement, if a reclassification or other similar transaction occurs following delivery of a Redemption Notice, but prior to the Redemption Date, as a result of which shares of Class A Common Stock are converted into another security, then a Redeeming Member shall be entitled to receive the amount of such other security (and, if applicable, any Corresponding Rights) that the Redeeming Member would have received if such Redemption Right had been exercised and the Redemption Date had occurred immediately prior to the record date of such reclassification or other similar transaction.

(g) Notwithstanding anything to the contrary contained in this Agreement, neither the Company nor the Corporation shall be obligated to effectuate a Redemption if such Redemption could (as determined in the sole discretion of the Manager) cause the Company to be treated as a “publicly traded partnership” or to be taxed as a corporation pursuant to Section 7704 of the Code or successor provisions of the Code.

(h) Notwithstanding anything to the contrary contained in this Agreement, neither the Company nor the Corporation shall be obligated to effectuate a Redemption during a Restricted Fiscal Year if the Company reasonably expects that following such Redemption, more than ten percent of the outstanding Common Units (determined without reference to the Corporation’s Common Units) will be considered transferred during such Restricted Fiscal Year for purposes of Treasury Regulation Section 1.7704-1(f)(3).

(i) If (i) the Members (other than the Corporation) beneficially own, in the aggregate, less than 5.0% of the then outstanding Units and (ii) the Class A Common Stock is then listed on the Stock Exchange or is listed or admitted to trading on another principal national securities exchange, then in its sole discretion, the Corporation shall have the right to require all Members (other than the Corporation) to effect a Redemption of all, but not less than all, of the Units held by such Members. Such Redemption shall be together with the surrender and delivery of the same number of shares of Class B Common Stock to the Corporation. Notwithstanding the foregoing, a Cash Settlement shall not be permitted pursuant to such a Redemption under this Section 11.01(i). The Corporation shall deliver written notice to the Company and all of the other Members of its intention to exercise its Redemption Right pursuant to this Section 11.01(i) (a “**Minority Member Redemption Notice**”) at least five Business Days prior to the proposed date upon which such Redemption is to be effected (such proposed date, the “**Minority Member Redemption Date**”). A Minority Member Redemption Notice shall indicate the number of Common Units (and corresponding number of shares of Class B Common Stock) held by such Member that the Corporation intends to require to be subject to such Redemption. Any Redemption pursuant to this Section 11.01(i) shall be effective on the Minority Member Redemption Date. Following delivery of a Minority Member Redemption Notice and on or prior to the Minority Member Redemption Date, the Members shall take all actions reasonably requested by the Corporation to effect such Redemption. Such actions shall include taking any action and delivering any document required pursuant to this Section 11.01(i) to effect a Redemption. Notwithstanding the foregoing, the Corporation will only have the right to deliver a Minority Member Redemption Notice if: (x) there is an active shelf registration statement in effect with respect to all of such Member’s Common Units subject to Redemption pursuant to a given Minority Member Redemption Notice; and (y) the Class A Common Stock issuable to such Member shall not be subject to any lockup or other restrictions on transfer.

Section 11.02 Election and Contribution of the Corporation. Unless the Redeeming Member has timely delivered a Retraction Notice as provided in Section 11.01(c), or has revoked or delayed a Redemption as provided in Section 11.01(d), subject to Section 11.03, on the Redemption Date: (i) the Corporation shall make a Capital Contribution to the Company (in the form of the Share Settlement or the Cash Settlement, as determined by the Corporation in accordance with Section 11.01(b)); and (ii) the Company shall issue to the Corporation a number of Common Units equal to the number of Redeemed Units surrendered by the Redeeming Member. Such Redemption shall be effective immediately prior to the close of business on the Redemption Date. Notwithstanding any other provisions of this Agreement to the contrary, but subject to Section 11.03, if the Corporation elects a Cash Settlement, the Corporation shall only be obligated to contribute to the Company an amount in respect of such Cash Settlement equal to the Redeemed Units Equivalent with respect to such Cash Settlement. In no event shall such amount exceed the amount actually paid by the Company to the Redeeming Member as the Cash Settlement. The timely delivery of a Retraction Notice shall terminate all of the Company's and the Corporation's rights and obligations under this Section 11.02 arising from the Redemption Notice.

Section 11.03 Direct Exchange Right of the Corporation.

(a) Notwithstanding anything to the contrary in this Article XI (except for the limitations set forth in Section 11.01(b) regarding the Corporation's option to select the Share Settlement or the Cash Settlement, and without limitation to the rights of the Members under Section 11.01, including the right to revoke a Redemption Notice), the Corporation may, in its sole and absolute discretion (as determined solely by the Disinterested Majority) (subject to the limitations set forth on such discretion in Section 11.01(b)), elect to effect on the Redemption Date the exchange of Redeemed Units for the Share Settlement or the Cash Settlement, as the case may be, through a direct exchange of such Redeemed Units and the Share Settlement or the Cash Settlement, as applicable, between the Redeeming Member and the Corporation (a "**Direct Exchange**"). A Direct Exchange shall occur in place of contributing the Share Settlement or the Cash Settlement, as the case may be, to the Company in accordance with Section 11.02 for purposes of the Company redeeming the Redeemed Units from the Redeeming Member in consideration of the Share Settlement or the Cash Settlement, as applicable. Upon such Direct Exchange pursuant to this Section 11.03, the Corporation shall acquire the Redeemed Units and shall be treated for all purposes of this Agreement as the owner of such Units.

(b) The Corporation may, at any time prior to a Redemption Date (including after delivery of an Election Notice pursuant to Section 11.01(b)), deliver written notice (an "**Exchange Election Notice**") to the Company and the Redeeming Member setting forth its election to exercise its right to consummate a Direct Exchange. Notwithstanding the foregoing, such election shall be subject to the limitations set forth in Section 11.01(b) and shall not unreasonably prejudice the ability of the parties to consummate a Redemption or Direct Exchange on the Redemption Date. An Exchange Election Notice may be revoked by the Corporation at any time. Notwithstanding the foregoing, any such revocation shall not unreasonably prejudice the ability of the parties to consummate a Redemption or Direct Exchange on the Redemption Date. The right to consummate a Direct Exchange in all events shall be exercisable for all of the Redeemed Units that would have otherwise been subject to a Redemption.

(c) Except as otherwise provided by this Section 11.03, a Direct Exchange shall be consummated pursuant to the same timeframe as the relevant Redemption would have been consummated if the Corporation had not delivered an Exchange Election Notice and as follows:

- (i) the Redeeming Member shall transfer and surrender, free and clear of all liens and encumbrances (x) the Redeemed Units and (y) a number of shares of Class B Common Stock (together with any Corresponding Rights), equal to the number of Redeemed Units, to the extent applicable, in each case, to the Corporation;
- (ii) the Corporation shall (x) pay to the Redeeming Member the Share Settlement or the Cash Settlement, as applicable, and (y) cancel and retire for no consideration the shares of Class B Common Stock (together with any Corresponding Rights), that were Transferred to the Corporation pursuant to Section 11.03(e)(i)(y); and
- (iii) the Company shall (x) register the Corporation as the owner of the Redeemed Units and (y) if the Common Units are certificated, issue to the Redeeming Member a certificate for a number of Units equal to the difference (if any) between the number of Common Units evidenced by the certificate surrendered by the Redeeming Member pursuant to Section 11.03(c)(i)(x) and the Redeemed Units, and issue to the Corporation a certificate for the number of Redeemed Units.

Section 11.04 Reservation of shares of Class A Common Stock; Listing; Certificate of the Corporation. At all times the Corporation shall reserve and keep available out of its authorized but unissued Class A Common Stock, solely for the purpose of issuance upon a Share Settlement in connection with a Redemption or Direct Exchange, such number of shares of Class A Common Stock as shall be issuable upon any such Share Settlement pursuant to a Redemption or Direct Exchange. Nothing contained in this Section 11.04 shall be construed to preclude the Corporation from satisfying its obligations in respect of any such Share Settlement pursuant to a Redemption or Direct Exchange by delivery of purchased Class A Common Stock (which may or may not be held in the treasury of the Corporation) or by way of Cash Settlement. The Corporation shall deliver Class A Common Stock that has been registered under the Securities Act with respect to any Share Settlement pursuant to a Redemption or Direct Exchange to the extent a registration statement is effective and available with respect to such shares. Prior to such delivery, the Corporation shall use its commercially reasonable efforts to list the Class A Common Stock required to be delivered upon any such Share Settlement pursuant to a Redemption or Direct Exchange upon each national securities exchange upon which the outstanding shares of Class A Common Stock are listed at the time of such Share Settlement pursuant to a Redemption or Direct Exchange (it being understood that any such shares may be subject to transfer restrictions under applicable securities Laws). The Corporation covenants that all shares of Class A Common Stock issued in connection with a Share Settlement pursuant to a Redemption or Direct Exchange will, upon issuance, be validly issued, fully paid and non-assessable. The provisions of this Article XI shall be interpreted and applied in a manner consistent with any corresponding provisions of the Certificate of Incorporation (if any).

Section 11.05 Effect of Exercise of Redemption or Direct Exchange. This Agreement shall continue notwithstanding the consummation of a Redemption or Direct Exchange by a Member and all rights set forth herein shall continue in effect with respect to the remaining Members. To the extent the Redeeming Member has any remaining Units following such Redemption or Direct Exchange, the rights set forth in this Agreement shall continue to apply to the Units held by the Redeeming Member. No Redemption or Direct Exchange shall relieve a Redeeming Member of any prior breach of this Agreement by such Redeeming Member.

Section 11.06 Tax Treatment.

(a) In connection with any Redemption or Direct Exchange, the Redeeming Member shall, to the extent it is legally entitled to deliver such form, deliver to the Manager or the Company, as applicable, a certificate, dated as of the Redemption Date, in a form reasonably acceptable to the Manager or the Company, as applicable, certifying as to such Redeeming Member's taxpayer identification number and that such Redeeming Member is a not a foreign person for purposes of Section 1445 and Section 1446(f) of the Code (which certificate may be an IRS Form W-9 if then sufficient for such purposes under applicable Law) (such certificate a "***Non-Foreign Person Certificate***"). If a Redeeming Member is unable to provide a Non-Foreign Person Certificate in connection with a Redemption or a Direct Exchange, then such Redeeming Member and the Company shall cooperate to provide any other certification or determination described in Treasury Regulations Sections 1.1446(f)-2(b) and 1.1446(f)-2(c) or otherwise permitted under applicable Law at the time of such Redemption or Direct Exchange, and the Manager or the Company, as applicable, shall be permitted to withhold on the amount realized by such Redeeming Member in respect of such Redemption or Direct Exchange to the extent required under Section 1446(f) of the Code and Treasury Regulations promulgated thereunder after taking into account the certificate or other determination provided pursuant the preceding sentence. If a Redeeming Member is unable to provide a Non-Foreign Person Certificate in connection with a Redemption or a Direct Exchange, then upon request of the Redeeming Member and to the extent permitted under applicable Law, the Company shall deliver a certificate pursuant to Treasury Regulations Section 1.1445-11T(d)(2) certifying that 50 percent or more of the value of the gross assets of the Company does not consist of "U.S. real property interests" (as used in Treasury Regulations Section 1.1445-11T), or that 90 percent or more of the value of the gross assets of the Company does not consist of "U.S. real property interests" plus "cash or cash equivalents" (as used in Treasury Regulations Section 1.1445-11T). Notwithstanding the foregoing, if the Company is not legally entitled to provide the certificate described in the previous sentence, then the Corporation shall be permitted to withhold on the amount realized by such Redeeming Member in respect of such Redemption or Direct Exchange to the extent required under Section 1445 of the Code and Treasury Regulations.

(b) Unless otherwise required by applicable Law, the parties acknowledge and agree that a Redemption or a Direct Exchange, as the case may be, shall be treated as a direct exchange of a Share Settlement or a Cash Settlement, as applicable, on the one hand, and the Redeemed Units, on the other hand, between the Corporation and the Redeeming Member for U.S. federal and applicable state and local income tax purposes.

ARTICLE XII.
ADMISSION OF MEMBERS

Section 12.01 Substituted Members. Subject to the provisions of Article X, in connection with the Permitted Transfer of a Unit under this Agreement, the Permitted Transferee shall become a Substituted Member on the effective date of such Transfer. Such effective date shall not be earlier than the date of compliance with the conditions to such Transfer. Such admission shall be shown on the books and records of the Company, including the Schedule of Members.

Section 12.02 Additional Members. Subject to the provisions of Article X, any Person that is not a Member as of the Effective Date may be admitted to the Company as an additional Member (any such Person, an “***Additional Member***”). Any such admission shall be condition upon furnishing to the Manager: (a) duly executed Joinder and counterparts to any applicable Other Agreements; and (b) such other documents or instruments as may be reasonably necessary or appropriate to effect such Person’s admission as a Member (including entering into such documents as may reasonably be requested by the Manager). Such admission shall become effective on the date on which the Manager determines in its sole discretion that such conditions have been satisfied and when any such admission is shown on the books and records of the Company, including the Schedule of Members.

ARTICLE XIII.
WITHDRAWAL AND RESIGNATION; TERMINATION OF RIGHTS

Section 13.01 Withdrawal and Resignation of Members. Except in the event of Transfers pursuant to Section 10.06, Redemptions and Direct Exchanges pursuant to Article XI and the Manager’s right to resign pursuant to Section 6.03, no Member shall have the power or right to withdraw or otherwise resign as a Member from the Company prior to the dissolution and winding up of the Company pursuant to Article XIV. Any Member, however, that attempts to withdraw or otherwise resign as a Member from the Company without the prior written consent of the Manager upon or following the dissolution and winding up of the Company pursuant to Article XIV, but prior to such Member receiving the full amount of Distributions from the Company to which such Member is entitled pursuant to Article XIV, shall be liable to the Company for all damages (including all lost profits and special, indirect and consequential damages) directly or indirectly caused by the withdrawal or resignation of such Member. Upon a Transfer of all of a Member’s Units in a Transfer permitted by this Agreement, subject to the provisions of Section 10.06, such Member shall cease to be a Member.

ARTICLE XIV.
DISSOLUTION AND LIQUIDATION

Section 14.01 Dissolution. The Company shall not be dissolved by the admission of Additional Members or Substituted Members or the attempted withdrawal, removal, dissolution, bankruptcy or resignation of a Member. The Company shall dissolve, and its affairs shall be wound up, upon (a “*Liquidating Event*”):

- (a) the decision of the Manager together with the written approval of the Members holding a majority of the Units then outstanding to dissolve the Company (excluding for purposes of such calculation the Corporation and all Units held directly or indirectly by it);
- (b) a dissolution of the Company under Section 18-801(4) of the Delaware Act, unless the Company is continued without dissolution pursuant to Section 18-801(4) of the Delaware Act; or
- (c) the entry of a decree of judicial dissolution of the Company under Section 18-802 of the Delaware Act.

Except as otherwise set forth in this Article XIV, the Company is intended to have perpetual existence. An Event of Withdrawal shall not in and of itself cause a dissolution of the Company, and the Company shall continue in existence subject to the terms and conditions of this Agreement.

Section 14.02 Winding Up. Subject to Section 14.05, on dissolution of the Company, the Manager (or in the event that there is no Manager or the Manager is in bankruptcy, any Person selected by the majority of Members) shall act as liquidating trustee or may appoint one or more Persons as liquidating trustee (each such Person, a “*Liquidator*”). The Liquidator shall proceed diligently to wind up the affairs of the Company and make final distributions as provided in this Agreement and in the Delaware Act. The costs of liquidation shall be borne as an expense of the Company. Until final distribution, the Liquidator shall, to the fullest extent permitted by applicable Law, continue to operate the properties of the Company with all of the power and authority of the Manager. Notwithstanding the foregoing, the Company shall engage in no further business except as may be necessary to preserve the value of the Company’s assets during the period of dissolution and liquidation. The steps to be accomplished by the Liquidator are as follows:

- (a) as promptly as possible after dissolution and again after final liquidation, the Liquidator shall cause a proper accounting to be made by a recognized firm of certified public accountants of the Company’s assets, liabilities and operations through the last day of the calendar month in which the dissolution occurs or the final liquidation is completed, as applicable;
- (b) the Liquidator shall pay, satisfy or discharge from the Company’s funds, or otherwise make adequate provision for payment and discharge of all debts, liabilities and obligations (including the establishment of a cash fund for contingent, conditional and unmatured liabilities in such amount and for such term as the Liquidator may reasonably determine) the following: first, all expenses incurred in connection with the liquidation; second, all of the debts, liabilities and obligations of the Company owed to creditors other than the Members; and third, all of the debts, liabilities and obligations of the Company owed to the Members (other than any payments or distributions owed to such Members in their capacity as Members pursuant to this Agreement); and following any payments pursuant to this Section 14.02(b);
- (c) all remaining assets of the Company shall be distributed to the Members, pro rata in proportion to each Member’s Common Unit Percentage Interest.

The distribution of cash and/or property to the Members in accordance with the provisions of this Section 14.02 and Section 14.03 below shall constitute a complete return to the Members of their Capital Contributions, a complete distribution to the Members of their interest in the Company and all of the Company's property and shall constitute a compromise to which all Members have consented within the meaning of the Delaware Act. To the extent that a Member returns funds to the Company, it has no claim against any other Member for those funds.

Section 14.03 Deferment; Distribution in Kind. Notwithstanding the provisions of Section 14.02, but subject to the order of priorities set forth in Section 14.02, if upon dissolution of the Company the Liquidator determines that an immediate sale of part or all of the Company's assets would be impractical or would cause undue loss (or would otherwise not be beneficial) to the Members, the Liquidator may, in its sole discretion and the fullest extent permitted by applicable Law, defer for a reasonable time the liquidation of any assets. The Liquidator shall not defer the liquidation of any assets necessary to satisfy the Company's liabilities other than loans to the Company by any Member(s) and reserves. Subject to the order of priorities set forth in Section 14.02, the Liquidator may, in its sole discretion, distribute to the Members, in lieu of cash, either: (a) all or any portion of such remaining assets in-kind of the Company in accordance with the provisions of Section 14.02(c), (b) as tenants in common and in accordance with the provisions of Section 14.02(c), undivided interests in all or any portion of such assets of the Company; or (c) a combination of the foregoing. Any such Distributions in-kind shall be subject to: (y) such conditions relating to the disposition and management of such assets as the Liquidator deems reasonable and equitable; and (z) the terms and conditions of any agreements governing such assets (or the operation of such assets or the holders of such assets) at such time. Any assets of the Company distributed in kind will first be written up or down to their Fair Market Value, thus creating Net Profit or Net Loss (if any). Such Net Profit or Net Loss shall be allocated in accordance with Article V. The Liquidator shall determine the Fair Market Value of any property (other than cash) distributed.

Section 14.04 Cancellation of Certificate. On completion of the winding up of the Company as provided in this Agreement, the Manager (or such other Person or Persons as the Delaware Act may require or permit) shall file a certificate of cancellation of the Certificate with the Secretary of State of Delaware, cancel any other filings made pursuant to this Agreement that should be canceled and take such other actions as may be necessary to terminate the existence of the Company. The Company shall continue in existence for all purposes of this Agreement until it is terminated pursuant to this Section 14.04.

Section 14.05 Reasonable Time for Winding Up. A reasonable time, but in no event more than one year, shall be allowed for the orderly winding up of the business and affairs of the Company and the liquidation of its assets pursuant to Section 14.02 and Section 14.03 in order to minimize any losses otherwise attendant upon such winding up.

Section 14.06 Return of Capital. The Liquidator shall not be personally liable for the return of Capital Contributions or any portion of such Capital Contributions to the Members (it being understood that any such return shall be made solely from assets of the Company).

ARTICLE XV.
GENERAL PROVISIONS

Section 15.01 Power of Attorney.

(a) Each Member constitutes and appoints the Manager (or the Liquidator, if applicable) with full power of substitution, as such Member's true and lawful agent and attorney-in-fact, with full power and authority in such Member's name, place and stead, to:

(i) execute, swear to, acknowledge, deliver, file and record in the appropriate public offices: (A) this Agreement, all certificates and other instruments and all amendments of such amendments that the Manager deems appropriate or necessary to form, qualify, or continue the qualification of, the Company as a limited liability company in the State of Delaware and in all other jurisdictions in which the Company may conduct business or own property; (B) all instruments that the Manager deems appropriate or necessary to reflect any amendment, change, modification or restatement of this Agreement in accordance with its terms; (C) all conveyances and other instruments or documents that the Manager deems appropriate or necessary to reflect the dissolution, winding up and termination of the Company pursuant to the terms of this Agreement, including a certificate of cancellation; and (D) all instruments relating to the admission, substitution or resignation of any Member pursuant to Article XII or Article XIII; and

(ii) sign, execute, swear to and acknowledge all ballots, consents, approvals, waivers, certificates and other instruments appropriate or necessary, in the reasonable judgment of the Manager, to evidence, confirm or ratify any vote, consent, approval, agreement or other action that is made or given by the Members under this Agreement or is consistent with the terms of this Agreement, in the reasonable judgment of the Manager, to effectuate the terms of this Agreement.

(b) The foregoing power of attorney is irrevocable and coupled with an interest. The foregoing power of attorney shall survive the death, disability, incapacity, dissolution, bankruptcy, insolvency or termination of any Member and the transfer of all or any portion of such Member's Units and shall extend to such Member's heirs, successors, assigns and personal representatives.

Section 15.02 Confidentiality.

(a) Each of the Members (other than the Corporation) agrees to hold the Company's Confidential Information in confidence and may not disclose or use such information except as otherwise authorized separately in writing by the Manager. "**Confidential Information**" as used in this Section 15.02 includes all information concerning the Corporation, the Company or their respective Subsidiaries, in whatever form, whether written, electronic or oral, including ideas, financial product structuring, business strategies, innovations and materials, all aspects of the Corporation's and/or the Company's business plan, proposed operation and products, corporate structure, financial and organizational information, analyses, proposed partners, software code and system and product designs, employees and their identities, equity ownership, the methods and means by which either the Corporation or the Company plans to conduct its business, all trade secrets, trademarks, tradenames and all intellectual property associated with the Corporation's and/or the Company's business. With respect to each Member, Confidential Information does not include information or material that: (a) is, or becomes, generally available to the public other than as a direct or indirect result of a disclosure by such Member or its Affiliates or representatives; (b) is, or becomes, available to such Member from a source other than the Corporation, the Company or their respective representatives, *provided* that such source is not, and was not, known to such Member to be bound by a confidentiality agreement with, or any other contractual, fiduciary or other legal obligation of confidentiality to, the Corporation, the Company or any of their respective Affiliates or representatives; (c) is approved for release by written authorization of the Chief Executive Officer, Chief Financial Officer or General Counsel of the Company or of the Corporation, or any other officer designated by the Manager; or (d) is, or becomes, independently developed by such Member or its respective representatives without use of or reference to the Confidential Information.

(b) Solely to the extent it is reasonably necessary or appropriate to fulfill its obligations or to exercise its rights under this Agreement, each of the Members may disclose Confidential Information to its Subsidiaries, Affiliates, partners, directors, officers, employees, counsel, advisers, consultants, outside contractors and other agents, on the condition that such Persons keep the Confidential Information confidential to the same extent as such Member is required to keep the Confidential Information confidential. Notwithstanding the foregoing, such Member shall remain liable with respect to any breach of this [Section 15.02](#) by any such Subsidiaries, Affiliates, partners, directors, officers, employees, counsel, advisers, consultants, outside contractors and other agents (as if such Persons were party to this Agreement for purposes of this [Section 15.02](#)).

(c) Notwithstanding [Section 15.02\(a\)](#) or [Section 15.02\(b\)](#), each of the Members may disclose Confidential Information: (i) to the extent that such Member is required by Law (by oral questions, interrogatories, request for information or documents, subpoena, civil investigative demand or similar process) to disclose any of the Confidential Information; (ii) for purposes of reporting to its stockholders and direct and indirect equity holders (each of whom are bound by customary confidentiality obligations) the performance of the Company and its Subsidiaries and for purposes of including applicable information in its financial statements to the extent required by applicable Law or applicable accounting standards; or (iii) to any *bona fide* prospective purchaser of the equity or assets of a Member, or the Units held by such Member (*provided*, in each case, that such Member determines in good faith that such prospective purchaser would be a Permitted Transferee), or a prospective merger partner of such Member. Any disclosure pursuant to clause (iii) in this [Section 15.02\(c\)](#), shall be conditioned upon the Member informing such Persons of the confidential nature of such information and any such Persons agreement in writing to keep such information confidential in accordance with the contents of this Agreement. Each Member will be liable for any breaches of this [Section 15.02](#) by any such Persons (as if such Persons were party to this Agreement for purposes of this [Section 15.02](#)). Notwithstanding any of the foregoing, nothing in this [Section 15.02](#) will restrict in any manner the ability of the Corporation to comply with its disclosure obligations under Law, and the extent to which any Confidential Information is necessary or desirable to disclose.

Section 15.03 Amendments. Except as otherwise contemplated by this Agreement, this Agreement may be amended or modified (including by means of merger, consolidation or other business combination to which the Company is a party) upon the prior written consent of the Manager, together with the prior written consent of the holders of a majority of the Units then outstanding (excluding all Units held directly or indirectly by the Corporation). No alteration, modification or amendment shall be effective until written notice has been provided to the Members. Notwithstanding the foregoing, no amendment or modification:

- (a) to this Section 15.03 may be made without the prior written consent of the Manager and each of the Members;
- (b) to any of the terms and conditions of this Agreement, which terms and conditions expressly require the approval or action of certain Persons, may be made without obtaining the consent of the requisite number or specified percentage of such Persons who are entitled to approve or take action on such matter; and
- (c) to any of the terms and conditions of this Agreement which would (i) reduce the amounts distributable to a Member pursuant to Article IV and Article XIV in a manner that is not *pro rata* with respect to all Members, (ii) modify the limited liability of any Member or increase the liabilities of such Member under this Agreement, (iii) otherwise materially and adversely affect a holder of Units in a manner materially disproportionate to any other holder of Units or remove a right or privilege granted to a Member (other than amendments, modifications and waivers necessary to implement the provisions of Article XII) or (iv) alter or change any rights, preferences or privileges of any Units in a manner that is different or prejudicial relative to any other Units in the same class of Unit or materially and adversely affect the rights of any Member under Article XI, shall be effective against such affected Member or holder of Units without the prior written consent of such Member or holder of Units.

Notwithstanding any of the foregoing, the Manager may make any amendment to this Agreement (including Schedule 2) (i) of an administrative nature that is necessary in order to implement the substantive provisions of this Agreement, without the consent of any other Member; *provided*, that any such amendment does not otherwise contradict Section 15.03(c), or (ii) to reflect any changes to the Units, including the admission of new Members, Transfers of Units, or the issuance of any other capital stock of the Corporation in accordance with the terms of this Agreement.

Section 15.04 Title to Company Assets. Company assets shall be owned by the Company as an entity. No Member, individually or collectively, shall have any ownership interest in such assets of the Company or any portion of such assets. The Company shall hold title to all of its property in the name of the Company and not in the name of any Member. All assets of the Company shall be recorded as the property of the Company on its books and records, irrespective of the name in which legal title to such assets is held. The Company's credit and assets shall be used solely for the benefit of the Company. No asset of the Company shall be transferred or encumbered for, or in payment of, any individual obligation of any Member.

Section 15.05 Addresses and Notices. All notices, consents, waivers and other communications under this Agreement shall be in writing and shall be deemed to have been duly given when delivered: (i) in person; (ii) by facsimile or other electronic means (including email), with affirmative confirmation of receipt; (iii) one Business Day after being sent, if sent by reputable, nationally recognized overnight courier service; or (iv) three Business Days after being mailed, if sent by registered or certified mail, pre-paid and return receipt requested, to the applicable party at the following addresses (or at such other address for a party as shall be specified by like notice):

To the Company:

X-Energy Reactor Company, LLC
801 Thompson Avenue, Suite 400,
Rockville, MD 20852-1627
Attention: Steve Miller, General Counsel
Email:

with a copy (which copy shall not constitute notice) to:

Latham & Watkins LLP
555 Eleventh Street, NW, Suite 1000
Washington, D.C. 20004-1304
Attn: Paul Sheridan; John Slater
Email:

To the Corporation:

X-Energy, Inc.
801 Thompson Avenue, Suite 400,
Rockville, MD 20852-1627
Attention: Steve Miller, General Counsel
Email:

with a copy (which copy shall not constitute notice) to:

Latham & Watkins LLP
555 Eleventh Street, NW, Suite 1000
Washington, D.C. 20004-1304
Attn: Paul Sheridan; John Slater
Email:

To the Members, as set forth on Schedule 2.

Section 15.06 Binding Effect; Intended Beneficiaries. This Agreement shall be binding upon and inure to the benefit of the parties to this Agreement and their heirs, executors, administrators, successors, legal representatives and permitted assigns.

Section 15.07 Creditors. None of the provisions of this Agreement shall be for the benefit of or enforceable by any creditors of the Company or any of its Affiliates. No creditor who makes a loan to the Company or any of its Affiliates may have or acquire (except pursuant to the terms of a separate agreement executed by the Company in favor of such creditor) at any time as a result of making the loan any direct or indirect interest in Net Profits and Net Losses, Distributions, capital or property of the Company other than as a secured creditor.

Section 15.08 Waiver. No failure by any party to insist upon the strict performance of any covenant, duty, agreement or condition of this Agreement or to exercise any right or remedy consequent upon a breach of such covenant, duty, agreement or condition shall constitute a waiver of any such breach or any other covenant, duty, agreement or condition. No waiver of any provision or default under, nor consent to any exception to, the terms of this Agreement shall be effective unless in writing and signed by the party to be bound. Such waiver is effective only to the specific purpose, extent and instance so provided.

Section 15.09 Counterparts. This Agreement may be executed and delivered (including by electronic transmission) in one or more counterparts, each of which shall be deemed an original but all of which taken together shall constitute one and the same instrument.

Section 15.10 Applicable Law; Jurisdiction. This Agreement and all claims or causes of action based upon, arising out of, or related to this Agreement or the transactions contemplated by this Agreement, shall be governed by, and construed in accordance with, the Laws of the State of Delaware, without giving effect to any choice of Law or conflict of Law rules or provisions (whether of the State of Delaware or any other jurisdiction) that would cause the application of the Laws of another jurisdiction. Any suit, dispute, action or proceeding seeking to enforce any provision of, or based on any matter arising out of or in connection with, this Agreement shall be heard in the Court of Chancery of the State of Delaware. The parties: (i) consent to the exclusive jurisdiction of such court (and of the appropriate appellate courts) in any such suit, action or proceeding and (i) submit to the exclusive jurisdiction of each such court in any such proceeding or action; (ii) waive any objection it may now or hereafter have to personal jurisdiction, venue or to convenience of forum; (iii) agree that all claims in respect of the proceeding or action shall be heard and determined only in any such court; and (iv) agree not to bring any proceeding or action arising out of or relating to this Agreement or the matters contemplated by this Agreement in any other court. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, PROCESS IN ANY SUCH SUIT, ACTION OR PROCEEDING MAYBE SERVED ON ANY PARTY ANYWHERE IN THE WORLD, WHETHER WITHIN OR WITHOUT THE JURISDICTION OF ANY SUCH COURT (INCLUDING BY PREPAID CERTIFIED MAIL WITH A VALIDATED PROOF OF MAILING RECEIPT) AND SHALL HAVE THE SAME LEGAL FORCE AND EFFECT AS IF SERVED UPON SUCH PARTY PERSONALLY WITHIN THE STATE OF DELAWARE. WITHOUT LIMITING THE FOREGOING, TO THE FULLEST EXTENT PERMITTED BY LAW, SERVICE OF PROCESS UPON SUCH PARTY AT THE ADDRESS REFERRED TO IN Section 15.05 (INCLUDING BY PREPAID CERTIFIED MAIL WITH A VALIDATED PROOF OF MAILING RECEIPT), TOGETHER WITH WRITTEN NOTICE OF SUCH SERVICE TO SUCH PARTY, SHALL BE DEEMED EFFECTIVE SERVICE OF PROCESS UPON SUCH PARTY.

Section 15.11 Severability. Whenever possible, each provision of this Agreement will be interpreted in such manner as to be effective and valid under applicable Law. If any provision of this Agreement is held to be invalid, illegal or unenforceable in any respect under any applicable Law or rule in any jurisdiction, such invalidity, illegality or unenforceability will not affect any other provision or the effectiveness or validity of any provision in any other jurisdiction. Upon such determination that any provision is invalid, illegal or unenforceable, this Agreement will be reformed, construed and enforced in such jurisdiction as if such invalid, illegal or unenforceable provision had never been contained in this Agreement.

Section 15.12 Further Action. The parties shall execute and deliver all documents, provide all information and take or refrain from taking such actions as may be necessary or appropriate to achieve the purposes of this Agreement.

Section 15.13 Execution and Delivery by Electronic Signature and Electronic Transmission. This Agreement and any signed agreement or instrument entered into in connection with this Agreement, contemplated by this Agreement or entered into by the Company in accordance with this Agreement, and any amendments to this Agreement or to such agreement or instrument, to the extent signed and delivered by means of an electronic signature or electronic transmission shall be treated in all manner and respects as an original agreement or instrument and shall be considered to have the same binding legal effect as if it were the original signed version of such agreement or instrument delivered in person. Such signature and delivery by electronic signature or electronic transmission includes by a facsimile machine or via email. At the request of any party to this Agreement or to any such agreement or instrument, each other party shall re-execute original forms of such agreement or instrument and deliver them to all other parties. No party to this Agreement or to any such agreement or instrument shall raise the use of electronic signature or electronic transmission to execute or deliver a document or the fact that any signature or agreement or instrument was transmitted or communicated through such electronic transmission as a defense to the formation of a contract and each such party forever waives any such defense.

Section 15.14 Right of Offset. Whenever the Company or the Corporation is to pay any sum (other than pursuant to Article IV) to any Member, any amounts that such Member owes to the Company or the Corporation that are not the subject of a good faith dispute may be deducted from that sum before payment. The distribution of Units to the Corporation shall not be subject to this Section 15.14.

Section 15.15 Entire Agreement. This Agreement, those documents expressly referred to in this Agreement (including the Registration Rights Agreement and the Tax Receivable Agreement), any indemnity agreements entered into in connection with the Seventh A&R LLC Agreement with any member of the board of directors at that time and other documents of even date with this Agreement embody the complete agreement and understanding among the parties. This Agreement and such documents, indemnity agreements and other documents supersede and preempt any prior understandings, agreements or representations by or among the parties, written or oral, which may have related to the subject matter of this Agreement in any way. The Seventh A&R LLC Agreement is superseded in its entirety by this Agreement as of the Effective Date and shall be of no further force and effect thereafter, except to the extent reference to the Seventh A&R LLC Agreement is contemplated in this Agreement, and only for such limited purposes as stated in this Agreement.

Section 15.16 Remedies. Each Member shall have all rights and remedies set forth in this Agreement, all rights and remedies that such Person has been granted at any time under any other agreement or contract and all of the rights that such Person has under any Law. Any Person having any rights under any provision of this Agreement or any other agreements contemplated by this Agreement shall be entitled to enforce such rights specifically (without posting a bond or other security), to recover damages by reason of any breach of any provision of this Agreement and to exercise all other rights granted by Law.

Section 15.17 Descriptive Headings; Interpretation. The descriptive headings of this Agreement are inserted for convenience only and do not constitute a substantive part of this Agreement. Whenever required by the context, any pronoun used in this Agreement shall include all genders, and the singular form of nouns, pronouns and verbs shall include the plural and vice versa. The use of the word “including” in this Agreement shall be by way of example rather than by limitation. Reference to any agreement, document or instrument means such agreement, document or instrument as amended or otherwise modified from time to time in accordance with the terms of such agreement, document or instrument, and if applicable of this Agreement. Without limiting the immediately preceding sentence, no amendment or other modification to any agreement, document or instrument that requires the consent of any Person pursuant to the terms of this Agreement or any other agreement will be given effect under this Agreement unless such Person has consented in writing to such amendment or modification. Whenever required by the context, references to a Fiscal Year shall refer to a portion of such Fiscal Year. The use of the words “or,” “either” and “any” shall not be exclusive. Each of the parties has been represented by independent counsel of its own choice during the negotiation and execution of this Agreement and the parties and their counsel have participated jointly in the negotiation and drafting of this Agreement. In the event an ambiguity or question of intent or interpretation arises, this Agreement shall be construed as if drafted jointly by the parties. No presumption or burden of proof shall arise favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

IN WITNESS WHEREOF, the undersigned have executed or caused to be executed on their behalf this Eighth Amended and Restated Limited Liability Company Agreement as of the date first written above.

COMPANY:

X-ENERGY REACTOR COMPANY, LLC

By: _____
Name: _____
Title: _____

IN WITNESS WHEREOF, the undersigned have executed or caused to be executed on their behalf this Eighth Amended and Restated Limited Liability Company Agreement as of the date first written above.

MANAGER:

X-ENERGY, INC.

By: _____
Name: _____
Title: _____

IN WITNESS WHEREOF, the undersigned have executed or caused to be executed on their behalf this Eighth Amended and Restated Limited Liability Company Agreement as of the date first written above.

MEMBERS:

SCHEDULE 1

SCHEDULE OF PRE-IPO MEMBERS

SCHEDULE 2*

SCHEDULE OF MEMBERS

Member / Contact Information	Common Units
X-Energy, Inc. 801 Thompson Avenue, Suite 400 Rockville, MD 20852 Phone: Attention: Email:	
Total	

* THIS SCHEDULE OF MEMBERS SHALL BE UPDATED FROM TIME TO TIME IN ACCORDANCE WITH THIS AGREEMENT, INCLUDING TO REFLECT ANY ADJUSTMENT WITH RESPECT TO ANY SUBDIVISION (BY UNIT SPLIT OR OTHERWISE) OR ANY COMBINATION (BY REVERSE UNIT SPLIT OR OTHERWISE) OF ANY OUTSTANDING UNITS, OR TO REFLECT ANY ADDITIONAL ISSUANCES OF UNITS PURSUANT TO THIS AGREEMENT.

FORM OF JOINDER AGREEMENT

This JOINDER AGREEMENT, dated as of _____, 20__ (this "Joinder"), is delivered pursuant to the Eighth Amended and Restated Limited Liability Company Agreement, dated as of _____ (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "LLC Agreement") by and among X-Energy Reactor Company, LLC, a Delaware limited liability company (the "Company"), X-Energy, Inc., a Delaware corporation and the sole managing member of the Company (the "Corporation"), and each of the Members from time to time party to the LLC Agreement. Capitalized terms used but not otherwise defined in this Joinder have the respective meanings set forth in the LLC Agreement.

1. Joinder to the LLC Agreement. Upon the execution of this Joinder by the undersigned and delivery of this Joinder to the Corporation, the undersigned is and will be a Member under the LLC Agreement and a party to the LLC Agreement, with all the rights, privileges and responsibilities of a Member under the LLC Agreement. The undersigned agrees that it shall comply with and be fully bound by the terms of the LLC Agreement as if it had been a signatory to the LLC Agreement as of the date of the LLC Agreement. The undersigned acknowledges, agrees and confirms that it has received a copy of the LLC Agreement and has reviewed the same and understands its contents.
2. Incorporation by Reference. All terms and conditions of the LLC Agreement are incorporated by reference in this Joinder as if set forth in this Joinder in full.
3. Address. All notices under the LLC Agreement to the undersigned shall be direct to:

[Name]
[Address]
[City, State, Zip Code]
Attn:
E-mail:

IN WITNESS WHEREOF, the undersigned has duly executed and delivered this Joinder as of the day and year first above written.

[NAME OF NEW MEMBER]

By: _____
Name:
Title:

Acknowledged and agreed
as of the date first set forth above:

X-ENERGY REACTOR COMPANY, LLC

By: X-Energy, Inc.,
its Manager

By: _____
Name:
Title:

FORM OF AGREEMENT AND CONSENT OF SPOUSE

The undersigned spouse of _____ (the “Member”), a party to the Eighth Amended and Restated Limited Liability Company Agreement, dated as of _____ (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Agreement”) by and among X-Energy Reactor Company, LLC, a Delaware limited liability company (the “Company”), X-Energy, Inc., a Delaware corporation and the sole managing member of the Company, and each of the Members from time to time party to the Agreement (capitalized terms used but not otherwise defined in this Agreement and Consent of Spouse have the respective meanings set forth in the Agreement), acknowledges on such Person’s own behalf that:

I have read the Agreement and understand its contents. I acknowledge and understand that under the Agreement, any interest I may have, community property or otherwise, in the Units owned by the Member is subject to the terms of the Agreement, which include certain restrictions on Transfer.

I consent to and approve the Agreement. I agree that said Units and any interest I may have, community property or otherwise, in such Units are subject to the provisions of the Agreement and that I will take no action at any time to hinder operation of the Agreement on said Units or any interest I may have, community property or otherwise, in said Units.

I acknowledge that the meaning and legal consequences of the Agreement have been explained fully to me and are understood by me, and that I am signing this Agreement and consent without any duress and of free will.

Dated: _____

[NAME OF SPOUSE]

By: _____
Name: _____

FORM OF SPOUSE'S CONFIRMATION OF SEPARATE PROPERTY

I, the undersigned, the spouse of _____ (the "Member"), who is a party to the Eighth Amended and Restated Limited Liability Company Agreement, dated as of _____ (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Agreement") by and among X-Energy Reactor Company, LLC, a Delaware limited liability company (the "Company"), X-Energy, Inc., a Delaware corporation and the sole managing member of the Company, and each of the Members from time to time party to the Agreement (capitalized terms used but not otherwise defined in this Spouse's Confirmation of Separate Property have the respective meanings set forth in the Agreement), acknowledge and confirm that the Units owned by said Member are the sole and separate property of said Member, and I disclaim any interest in same.

I acknowledge that the meaning and legal consequences of this Member's spouse's confirmation of separate property have been fully explained to me and are understood by me, and that I am signing this Member's spouse's confirmation of separate property without any duress and of free will.

Dated: _____

[NAME OF SPOUSE]

By: _____
Name: _____

POLICY REGARDING CERTAIN EQUITY ISSUANCES

[To come.]

FORM OF LOCK-UP AGREEMENT

_____, 20__

J.P. MORGAN SECURITIES LLC
As Representative of
the several Underwriters listed in
Schedule 1 to the Underwriting
Agreement referred to below

c/o J.P. Morgan Securities LLC
270 Park Avenue
New York, NY 10017

Re: X-Energy, Inc. --- Public Offering

Ladies and Gentlemen:

The undersigned understands that you, as Representative of the several Underwriters, propose to enter into an underwriting agreement (the “Underwriting Agreement”) with X-Energy, Inc., a Delaware corporation (the “Company”), X-Energy Reactor Company, LLC, providing for the public offering (the “Public Offering”) by the several Underwriters named in Schedule 1 to the Underwriting Agreement (the “Underwriters”), of shares of Class A common stock, par value \$0.0001 per share (the “Common Stock”), of the Company (the “Securities”). Capitalized terms used herein and not otherwise defined shall have the meanings set forth in the Underwriting Agreement.

In consideration of the Underwriters’ agreement to purchase and make the Public Offering of the Securities, and for other good and valuable consideration the receipt of which is hereby acknowledged, the undersigned hereby agrees that, without the prior written consent of J.P. Morgan Securities LLC on behalf of the Underwriters (the “Representative”), the undersigned will not during the period beginning on the date of this letter agreement (this “Letter Agreement”) and ending at the close of business 180 days after the date of the final prospectus relating to the Public Offering (the “Prospectus”) (such period, the “Restricted Period”), (1) offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase, lend, or otherwise transfer or dispose of, directly or indirectly, any shares of Common Stock, or any securities convertible into or exercisable or exchangeable for Common Stock (including without limitation, Common Stock or such other securities which may be deemed to be beneficially owned by the undersigned in accordance with the rules and regulations of the Securities and Exchange Commission and securities which may be issued upon exercise of a stock option or warrant) (collectively with the Common Stock, the “Lock-Up Securities”), (2) enter into any hedging, swap or other agreement or transaction that transfers, in whole or in part, any of the economic consequences of ownership of the Lock-Up Securities, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of Lock-Up Securities, in cash or otherwise, (3) make any demand for, or exercise any right with respect to the registration of any Lock-Up Securities (other than in connection with the exercise of registration rights under the Stockholders’ Agreement referred to in the Prospectus; provided that such exercise of registration rights does not result in the public filing of a registration statement during the Restricted Period by the Company (and for the avoidance of doubt, a confidential submission of such registration statement with the Commission shall not constitute a public filing during the Restricted Period)), or (4) publicly disclose the intention to do any of the foregoing. The undersigned acknowledges and agrees that the foregoing precludes the undersigned from engaging during the Restricted Period in any hedging or other transactions or arrangements (including, without limitation, any short sale or the purchase or sale of, or entry into, any put or call option, or combination thereof, forward, swap or any other derivative transaction or instrument, however described or defined) designed or intended, or which could reasonably be expected to lead to or result in, a sale or disposition or transfer (whether by the undersigned or any other person) of any economic consequences of ownership, in whole or in part, directly or indirectly, of any Lock-Up Securities, whether any such transaction or arrangement (or instrument provided for thereunder) would be settled by delivery of Lock-Up Securities, in cash or otherwise.

Notwithstanding the foregoing, the undersigned may:

(a) transfer or otherwise dispose of, directly or indirectly, in whole or in part, the undersigned's Lock-Up Securities:

(i) as a bona fide gift or gifts, or for bona fide estate planning purposes, including without limitation to charitable organizations or educational institutions,

(ii) by will, other testamentary document or intestacy,

(iii) to any member of the undersigned's immediate family member or to any trust or other legal entity for the direct or indirect benefit of the undersigned or the immediate family of the undersigned, or if the undersigned is a trust, to a trustor, trustee or beneficiary of the trust or to the estate of a trustor, trustee or beneficiary of such trust (for purposes of this Letter Agreement, "immediate family" shall mean any relationship by blood, current or former marriage, domestic partnership or adoption, not more remote than first cousin),

(iv) to a corporation, partnership, limited liability company or other entity of which the undersigned and the immediate family of the undersigned are the legal and beneficial owner of all of the outstanding equity securities or similar interests,

(v) to a nominee or custodian of a person or entity to whom a disposition or transfer would be permissible under clauses (i) through (iv) above,

(vi) if the undersigned is a corporation, partnership, limited liability company, trust or other business entity, (A) to another corporation, partnership, limited liability company, trust or other business entity that is an affiliate (as defined in Rule 405 promulgated under the Securities Act) of the undersigned, or to any investment fund, vehicle, account, portion of a fund, vehicle or account or other entity which fund or entity controls or manages or is controlled managing or managed by, or under common control with, the undersigned or affiliates of the undersigned (including, for the avoidance of doubt, where the undersigned is a partnership, to its general partner or a successor partnership or fund, or any other funds, vehicles, accounts or portions of funds, vehicles or accounts managed by such partnership), or (B) as part of a distribution, disposition or transfer to the undersigned's members, shareholders, partners, other equityholders or to the estate of such members, shareholders, partners or other equityholders,

(vii) by operation of law, such as pursuant to a qualified domestic order, divorce settlement, divorce decree or separation agreement, or pursuant to a final order of court of regulatory agency,

(viii) to the Company from an employee, independent contractor or service provider of the Company upon death, disability, termination of employment or cessation of services, in each case, of such employee, independent contractor or service provider,

(ix) as part of a sale of the undersigned's Lock-Up Securities acquired in open market transactions after the closing date for the Public Offering or to the Company pursuant to any contractual arrangement that provides the Company with a right to purchase Lock-Up Securities,

(x) to the Company in connection with (A) the vesting, settlement, or exercise of restricted stock units, options, warrants or other rights to purchase shares of Common Stock (including, in each case, by way of "net" or "cashless" exercise), including for the payment of exercise price and tax and remittance payments due as a result of the vesting, settlement, or exercise of such restricted stock units, options, warrants or rights, provided that any such shares of Common Stock received upon such exercise, vesting or settlement shall be subject to the terms of this Letter Agreement, and provided further that any such restricted stock units, options, warrants or rights are held by the undersigned pursuant to an agreement or equity awards granted under a stock incentive plan or other equity award plan, each such agreement or plan which is described in the Registration Statement, the Pricing Disclosure Package and the Prospectus, (B) the repurchase of Ordinary Shares issued pursuant to equity awards granted under a share incentive plan or other equity award plan, limited only to a plan that is described in the Registration Statement, the Pricing Disclosure Package and the Prospectus or (C) a right of first refusal that the Company has with respect to transfers of such shares or securities,

(xi) pursuant to a bona fide third-party tender offer, merger, consolidation or other similar transaction that is approved by the Board of Directors of the Company and made to all holders of the Company's capital stock involving a Change of Control (as defined below) of the Company (for purposes hereof, "Change of Control" shall mean the transfer (whether by tender offer, merger, consolidation or other similar transaction), in one transaction or a series of related transactions, to a person or group of affiliated persons, of shares of capital stock if, after such transfer, such person or group of affiliated persons would hold at least a majority of the outstanding voting securities of the Company (or the surviving entity)); provided that in the event that such tender offer, merger, consolidation or other similar transaction is not completed, the undersigned's Lock-Up Securities shall remain subject to the provisions of this Letter Agreement,

(xii) in connection with open market transactions, including any transactions pursuant to any plans entered into or established pursuant to clause (d) below, to generate such amount of net proceeds to the undersigned from such sales (after deducting commissions) in an aggregate amount up to the total amount of taxes or estimated taxes (as applicable) that become due as a result of the vesting, exercise and/or settlement of Company equity awards held by the undersigned and issued pursuant to a plan or arrangement described in the Prospectus that vest, are exercised and/or settle during the Restricted Period, provided that, for the avoidance of doubt, any Lock-Up Securities retained by the undersigned after giving effect to this provision shall be subject to the terms of this Letter Agreement,

(xiii) as any pledge, charge, hypothecation or other granting of a security interest in the Common Stock or as any security convertible into Common Stock to one or more banks, financial or other lending institutions ("Lenders") as collateral or security for or in connection with any margin loan or other loans, advances or extensions of credit entered into by the undersigned or any of its direct or indirect subsidiaries and any transfers of such Common Stock or such other securities to the applicable Lender(s) or other third parties upon or following foreclosure upon or enforcement of such Common Stock or such securities in accordance with the terms of the documentation governing any margin loan or other loan, advance, or extension of credit (including, without limitation, pursuant to any agreement or arrangement existing as of the date hereof); provided that with respect to any pledge, charge, hypothecation or other granting of a security interest set forth above after the execution of this Letter Agreement, the applicable Lender(s) shall be informed of the existence and contents of this Letter Agreement before entering into any margin loan or other loans, advances or extensions of credit and further, provided that any purchaser or transferee of such Common Stock or such other securities shall, upon foreclosure on the pledged securities, sign and deliver a lock-up agreement substantially in the form of this Letter Agreement,

(xiv) in connection with any reclassification or conversion of the shares of Common Stock; provided that any shares of Common Stock received upon such conversion or reclassification will be subject to the restrictions set forth in this Letter Agreement,

(xv) to the sale of Common Stock to be sold by the undersigned pursuant to the Underwriting Agreement, and

(xvi) with the prior written consent of J.P. Morgan Securities LLC;

provided that (A) in the case of any transfer or distribution pursuant to clause (a)(i), (ii), (iii), (iv), (v), (vi) and (vii), such transfer shall not involve a disposition for value and each donee, devisee, transferee or distributee shall execute and deliver to the Representative a lock-up letter in the form of this Letter Agreement, (B) in the case of any transfer or distribution pursuant to clause (a) (i), (ii), (iii), (iv), (v), (vi), (ix) and (x), no filing by any party (donor, donee, devisee, transferor, transferee, distributor or distributee) under the Exchange Act, or other public announcement shall be required or shall be made voluntarily in connection with such transfer or distribution (other than a filing on a Form 5 made after the expiration of the Restricted Period referred to above) and (C) in the case of any transfer or distribution pursuant to clause (a)(vii) and (viii) it shall be a condition to such transfer that no public filing, report or announcement shall be voluntarily made and if any filing under Section 16(a) of the Exchange Act, or other public filing, report or announcement reporting a reduction in beneficial ownership of shares of Common Stock in connection with such transfer or distribution shall be legally required during the Restricted Period, such filing, report or announcement shall clearly indicate in the footnotes thereto the nature and conditions of such transfer;

(b) exercise outstanding options, settle restricted stock units or other equity awards or exercise warrants pursuant to plans described in the Registration Statement, the Pricing Disclosure Package and the Prospectus; provided that any Lock-Up Securities received upon such exercise, vesting or settlement shall be subject to the terms of this Letter Agreement;

(c) convert outstanding preferred stock, warrants to acquire preferred stock or convertible securities into shares of Common Stock or warrants to acquire shares of Common Stock; provided that any such shares of Common Stock or warrants received upon such conversion shall be subject to the terms of this Letter Agreement;

(d) enter into or establish trading plans pursuant to Rule 10b5-1 under the Exchange Act for the transfer of shares of Lock-Up Securities; provided that (i) such plans do not provide for the transfer of Lock-Up Securities during the Restricted Period (other than pursuant to clause (a)(xii) above) and (ii) to the extent a filing by any party under the Exchange Act or other public announcement shall be required or made voluntarily in connection with such trading plan, such public announcement or filing under the Exchange Act made by any person regarding the establishment of such plan during the Restricted Period shall include a statement that the undersigned is not permitted to transfer, sell or otherwise dispose of securities under such plan during the Restricted Period in contravention of this Letter Agreement (except as otherwise allowed pursuant to clause (a)(xii) above);

(e) make any demand or requests for, exercise any right with respect to, or take any action in preparation of the registration by the Company under the Securities Act of the undersigned's Lock-Up Securities or other securities; provided that (i) no public filing with the Commission or any other public announcement may be made during the Restricted Period in relation to such registration, (ii) the Representative must have received prior written notice from the Company and/or the undersigned of a confidential submission of a registration statement with the Commission during the Restricted Period at least five business days prior to such submission, and (iii) no Lock-up Securities or other securities of the Company may be sold, distributed or exchanged prior to the expiration of the Restricted Period; and

(f) sell the Securities to be sold by the undersigned pursuant to the terms of the Underwriting Agreement.

In addition, nothing in this Letter Agreement shall prevent the transfer, conversion, reclassification or exchange of any Lock-Up Securities pursuant to the Restructuring Transactions as described in the Prospectus; provided that any Lock-Up Securities received in the Restructuring Transactions remain subject to the terms of this Letter Agreement. Further, notwithstanding anything to the contrary in this Letter Agreement:

(a) The Restricted Period will end ten trading days prior to the commencement of a blackout period if (i) at least 120 days have elapsed since the date of the Prospectus and (ii) the Restricted Period is scheduled to end during or within five trading days prior to a blackout period; provided that, (A) promptly upon the Company's determination of the date of the blackout-related release, and at least two trading days in advance of the date of such release, the Company shall notify the Representative of the date of the blackout-related release; and (B) the Company must announce, through a major news service or Form 8-K, the date of the blackout-related release at least two trading days in advance of such release. For the avoidance of doubt, in no event shall the Restricted Period end earlier than 120 days after the date of the Prospectus pursuant to the blackout-related release. For purposes of this Lock-Up Agreement, "blackout period" shall mean a broadly applicable and regularly scheduled period during which trading in the Company's securities would not be permitted under the Company's insider trading policy.

If the undersigned is not a natural person, the undersigned represents and warrants that no single natural person, entity or "group" (within the meaning of Section 13(d)(3) of the Exchange Act) beneficially owns, directly or indirectly, 50% or more of the common equity interests, or 50% or more of the voting power, in the undersigned.

If the undersigned is an officer or director of the Company, the undersigned further agrees that the foregoing provisions shall be equally applicable to any Company-directed Securities the undersigned may purchase in the Public Offering.

If the undersigned is an officer or director of the Company, (a) the Representative, on behalf of the Underwriters, agree that, at least three business days before the effective date of any release or waiver of the foregoing restrictions in connection with a transfer of Lock-Up Securities, the Representative, on behalf of the Underwriters, will notify the Company of the impending release or waiver; provided, that the failure to give such notice shall not give rise to any claim or liability against the Underwriters, and (b) the Company has agreed in the Underwriting Agreement to announce the impending release or waiver through a major news service at least two business days before the effective date of the release or waiver. Any release or waiver granted by the Representative, on behalf of the Underwriters, hereunder to any such officer or director shall only be effective two business days after the publication date of such announcement. The provisions of this paragraph will not apply if (i) the release or waiver is effected solely to permit a transfer not for consideration or that is to an immediate family member as defined in FINRA Rule 5130(i)(5) and (ii) the transferee has agreed in writing to be bound by the same terms described in this letter to the extent and for the duration that such terms remain in effect at the time of the transfer.

In furtherance of the foregoing, the Company, and any duly appointed transfer agent for the registration or transfer of the securities described herein, are hereby authorized to decline to make any transfer of securities if such transfer would constitute a violation or breach of this Letter Agreement.

The undersigned hereby represents and warrants that the undersigned has full power and authority to enter into this Letter Agreement. All authority herein conferred or agreed to be conferred and any obligations of the undersigned shall be binding upon the successors, assigns, heirs or personal representatives of the undersigned. Any signature to this Letter Agreement may be delivered by facsimile, electronic mail (including pdf) or any electronic signature complying with the U.S. federal E-SIGN Act of 2000 or the New York Electronic Signature and Records Act or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes to the fullest extent permitted by applicable law.

The undersigned acknowledges and agrees that the Underwriters have not provided any recommendation or investment advice nor have the Underwriters solicited any action from the undersigned with respect to the Public Offering of the Securities and the undersigned has consulted their own legal, accounting, financial, regulatory and tax advisors to the extent deemed appropriate. The undersigned further acknowledges and agrees that, although the Representative may be required or choose to provide certain Regulation Best Interest and Form CRS disclosures to you in connection with the Public Offering, the Representative and the other Underwriters are not making a recommendation to you to participate in the Public Offering, enter into this Letter Agreement, or sell any Shares at the price determined in the Public Offering, and nothing set forth in such disclosures is intended to suggest that the Representative or any Underwriter is making such a recommendation.

The undersigned understands that, if the Underwriting Agreement does not become effective by _____, 20____, or if the Underwriting Agreement (other than the provisions thereof which survive termination) shall terminate or be terminated prior to payment for and delivery of the Common Stock to be sold thereunder, the undersigned shall be released from all obligations under this Letter Agreement. The undersigned understands that the Underwriters are entering into the Underwriting Agreement and proceeding with the Public Offering in reliance upon this Letter Agreement.

This Letter Agreement and any claim, controversy or dispute arising under or related to this Letter Agreement shall be governed by and construed in accordance with the laws of the State of New York.

Very truly yours,
[NAME OF STOCKHOLDER]

By: _____
Name: _____
Title: _____

MASTER REORGANIZATION AGREEMENT

BY AND AMONG

X-ENERGY REACTOR COMPANY, LLC,

X-ENERGY, INC.,

AND THE OTHER PARTIES HERETO

[·], 2026

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MASTER REORGANIZATION AGREEMENT

This MASTER REORGANIZATION AGREEMENT (this “Agreement”) is entered into on this [·]th day of [·] 2026, by and among each of the following entities (each, a “Party,” and collectively, the “Parties”): (i) X-Energy Reactor Company, LLC, a Delaware limited liability company (“XERC”), (ii) X-Energy, Inc., a Delaware corporation (“PubCo”), (iii) each of the entities listed on the signature pages hereto under the heading “Blockers” (collectively, the “Blockers”), (v) X-Energy Management, LLC, a Delaware limited liability company (“Management Holdings”) and (vi) each of the individuals and entities listed on the signature pages hereto under the heading “Other Investors” (the “Other Investors” and, together with the Blockers and Management Holdings, each an “Investor” and, together, the “Investors”).

RECITALS

WHEREAS, in connection with the proposed initial public offering of PubCo (the “Initial Public Offering”), the Parties desire to effect an organizational restructuring of certain of their affiliates and direct and indirect subsidiaries (including certain affiliates and/or subsidiaries to be formed as part of such organizational restructuring) through a series of sequential transactions as more fully set forth in this Agreement (such transactions together, the “Restructuring”);

WHEREAS, in connection with and prior to the Restructuring, (i) certain Investors exercised and converted warrants issued by XERC into Common Units and (ii) GWN Holdings, LLC elected for its warrant issued by XERC to remain outstanding;

WHEREAS, the Parties wish to facilitate an Initial Public Offering of PubCo using an “Up-C” structure that entails, among other things, offering shares of Class A Common Stock, par value \$0.0001 per share, of PubCo (“Class A Common Stock”) to the public, pursuant to, and as more fully described in, a registration statement on Form S-1 (No. 333-) (including the prospectus included therein and the exhibits thereto) filed by PubCo with the U.S. Securities and Exchange Commission, as amended from time to time (the “Registration Statement”); and

WHEREAS, in connection with the Initial Public Offering, the Parties desire to effect the Restructurings and other transactions set forth in this Agreement, which will occur on the terms and in the sequence set forth herein.

NOW, THEREFORE, the Parties agree as follows:

AGREEMENT

ARTICLE I DEFINITIONS AND CONSTRUCTION

Section 1.1 Definitions.

“Affiliate” with respect to a specified Person means each other Person that directly, or indirectly through one or more intermediaries, controls or is controlled by, or is under common control with, the Person specified. The term “control” (including with correlative meanings, “controlled by” and “under common control with”) means possession, directly or indirectly, of power to direct or cause the direction of management or policies (whether through ownership of voting securities or by contract or other agreement or otherwise) of a Person. With respect to each Investor, each of the following shall be deemed an “Affiliate”: (a) a trust, family limited partnership or similar estate planning vehicle, under which the distribution of Units may be made only to beneficiaries who are such Investor’s, such Investor’s current or former spouse, siblings, parents, or spouse’s or former spouse’s parents or siblings or lineal descendants (whether natural or adopted) of the Investor, such Investor’s current or former spouse, siblings, parents or current or former spouse’s parents or siblings and any charitable foundation of such Investor; (b) a charitable remainder trust, the income of which shall be paid to such Investor during such Investor’s life; and (c) such Investor’s current or former spouse, siblings, parents, or current or former spouse’s parents or siblings or lineal descendants (whether natural or adopted) of the Investor, such Investor’s current or former spouse, siblings, parents or current or former spouse’s siblings or parents and any charitable foundation of such Investor.

“Business Day” means any day (except Saturday or Sunday) on which commercial banks located in New York, New York are generally open for business.

“Blocker Investors” means, collectively, the entities set forth under the heading “Blocker Investors” on Schedule 1 hereto.

“Class A Common Stock of PubCo” has the meaning set forth in the Recitals.

“Class B Common Stock of PubCo” has the meaning set forth in the A&R Charter of PubCo.

“Code” means the Internal Revenue Code of 1986, as amended.

“Common Units” means “Units” (as defined in that certain Eighth A&R LLCA of XERC).

“Continuing Equity Owners” means, collectively, the Investors set forth under the heading “Continuing Equity Owner” on Schedule 1 hereto.

“DGCL” means the General Corporation Law of the State of Delaware, as amended from time to time.

“DLLCA” means the Delaware Limited Liability Company Act (6 Del. C. § 18-101 et seq.), as amended from time to time.

“Effectiveness” means the effectiveness of the Registration Statement related to the Initial Public Offering.

“Eighth A&R LLCA of XERC” means that certain Eighth Amended and Restated Limited Liability Company Agreement of XERC.

“Final Prospectus” means the final prospectus filed by PubCo with the U.S. Securities and Exchange Commission pursuant to Rule 424 under the Securities Act of 1933.

“Former Equity Owners” means, collectively, all Investors other than the Blocker Investors, Management Holdings and the Continuing Equity Owners.

“Governmental Authority” means the United States of America and any foreign country, any state, commonwealth, territory or possession thereof and any political subdivision or quasi-governmental authority of any of the same, including any court, tribunal, department, commission, board, bureau, agency, county, municipality, province, parish or other instrumentality of any of the foregoing.

“Law” means any applicable federal, state, provincial, municipal, local or foreign statute, law, treaty, ordinance, regulation, rule, code, order or rule of common law.

“Legal Proceeding” means any action, arbitration, audit, claim, cause of action, demand, hearing, investigation, litigation, mediation, proceeding suit (whether civil, criminal, administrative, investigative, or informal, public or private, and whether in law or in equity) or Order commenced, brought, heard or conducted by or before, or otherwise involving, any Governmental Authority (whether or not any Governmental Authority is a party to such Legal Proceeding).

“Lock-Up Period” means the period established pursuant to a lock-up agreement entered into among the Investors and the Underwriters.

“Management Holdings LLCA” means that certain Limited Liability Company Agreement of Management Holdings.

“Order” means any order, award, decision, injunction, judgment, ruling, writ, decree, determination, settlement, stipulation or verdict entered, issued, made or rendered by, or entered into with, any Governmental Authority.

“Person” means an individual or any corporation, partnership, limited liability company, trust, unincorporated organization, association, joint venture or any other organization or entity, whether or not a legal entity.

“Profits Interests” means the Class B Common Units (as defined in the Management Holdings LLCA).

“Profits Interests Holder” means the holders of Profits Interests.

“Recapitalization Effective Time” means immediately following the Effectiveness and prior to the Blocker Merger.

“Seventh A&R LLCA of XERC” means that certain Seventh Amended and Restated Limited Liability Company Agreement of XERC.

“Underwriters” means the underwriters named in the Registration Statement.

“Underwriters’ Option” means the option, at the election of the Underwriters, to purchase additional shares of Class A Common Stock pursuant to the Underwriting Agreement.

“Underwriting Agreement” means the underwriting agreement to be entered into by PubCo with the Representatives (as defined in the Underwriting Agreement) in connection with the Initial Public Offering and pursuant to which PubCo shall agree to issue and sell (a) a certain number of shares of Class A Common Stock to the Underwriters at the price set forth in the Underwriting Agreement plus, (b) at the election of the Underwriters, up to a certain number of additional shares of Class A Common Stock pursuant to the Underwriters’ Option.

“Tax” means any U.S. federal, state, local or non-U.S. taxes, levies, fees, imposts, assessments, duties and charges of whatever kind in the nature of a tax (including any interest, penalties, or additions attributable thereto, imposed in connection therewith or imposed with respect thereto), including, without limitation, taxes imposed on, or measured by, net or gross income, alternative minimum, accumulated earnings, personal holding company, franchise, capital stock, net worth, capital gains, profits, windfall profits, gross receipts, value added, sales, use, environmental, excise, custom, transfer, registration, stamp, real property, personal property, ad valorem, payroll, and withholding.

“Tax Return” means any return, report, declaration, form, claim for refund or information return or statement, including any schedule or related or supporting information, filed or required to be filed in connection with the determination, assessment or collection of any Tax, including any attachment, amendment, or supplement thereto.

“TRA Parties” means, collectively, Kamal Ghaffarian Revocable Trust, IBX Opportunity GP, Inc., Ares X-Energy Holdings LP, GM Enterprises, LLC, Ares X-Energy Co-Invest LP, ACIP Investments Pooling LLC - Series 31, and Jane Street Global Trading, LLC.

“Treasury Regulations” means the United States Treasury regulations promulgated under the Code.

“Units” has the meaning given to such term in the Seventh A&R LLCA of XERC.

Section 1.2 Other Definitions. Each of the following terms is defined in the Section set forth opposite such term:

<u>Agreement</u>	Preamble
<u>Blocker Certificate of Merger</u>	Section 2.3(b)
<u>Blocker Equity Interests</u>	Section 2.3(e)(i)
<u>Blocker Investors</u>	Section 1.1
<u>Blocker Merger</u>	Section 2.3(b)
<u>Blocker Merger Effective Time</u>	Section 2.3(d)
<u>Blocker Merger Surviving Company</u>	Section 2.3(b)
<u>Blockers</u>	Preamble
<u>Chosen Courts</u>	Section 5.5
<u>Class A Common Stock</u>	Recital
<u>Class B Common Stock Subscription</u>	Section 2.5(c)(ii)
<u>Continuing Equity Owner Contributions</u>	Section 2.5(c)(i)
<u>Former Equity Owner Contributions</u>	Section 2.5(a)(i)
<u>Former Equity Owners</u>	Section 1.1

Governmental Authority
Initial Public Offering
Intended Tax Treatment
Investor
IPO Closing
IPO Proceeds
Management Holdings
Management Holdings Common Units
Management Holdings Contribution
Management Holdings Liquidation
Management Holdings Recapitalization
 Other Investors
Party
PubCo
Registration Statement
Restructuring
Transfer Taxes
 Up-C
 Use of Proceeds
XERC
XERC Recapitalization

Section 1.1
 Recital
 Section 5.1(a)
 Preamble
 Section 2.2
 Section 2.7(a)
 Preamble
 Section 2.1(b)(i)
 Section 2.5(b)(i)
 Section 2.8
 Section 2.1(b)(i)
 Preamble
 Preamble
 Preamble
 Recital
 Recital
 Section 5.2
 Recital
 Section 2.7(a)
 Preamble
 Section 2.1(a)(i)

Section 1.3 Headings; References; Interpretation. All Article and Section headings in this Agreement are for convenience only and will not be deemed to control or affect the meaning or construction of any of the provisions hereof. The words “hereof,” “herein” and “hereunder” and words of similar import, when used in this Agreement, refer to this Agreement as a whole, including, without limitation, all Exhibits attached hereto, and not to any particular provision of this Agreement. All references in this Agreement to Articles, Sections, Exhibits and Schedules will, unless the context requires a different construction, be deemed to be references to the Articles and Sections of this Agreement and the Exhibits and Schedules attached hereto, and all such Exhibits and Schedules attached hereto are hereby incorporated in this Agreement and made a part of this Agreement for all purposes. All personal pronouns used in this Agreement, whether used in the masculine, feminine or neuter gender, will include all other genders, and the singular will include the plural and vice versa. The use in this Agreement of the word “including” following any general statement, term or matter will not be construed to limit such statement, term or matter to the specific items or matters set forth immediately following such word or to similar items or matters, whether or not non-limiting language (such as “without limitation,” “but not limited to,” or words of similar import) is used with reference thereto, but rather will be deemed to refer to all other items or matters that could reasonably fall within the broadest possible scope of such general statement, term or matter.

ARTICLE II
RESTRUCTURING ACTIONS AND RELATED MATTERS

The transactions described in this Article II shall occur in the order specified in this Agreement.

Section 2.1 Recapitalization.

(a) XERC Recapitalization.

(i) Following and on the same Business Day as the Effectiveness, all of XERC's outstanding Units are hereby converted, effective as of the Recapitalization Effective Time, into the number of Common Unit set forth opposite the name of such Investor under the heading "Common Units held following XERC Recapitalization" on Schedule 1, and such Common Units are hereby issued and outstanding as of the Recapitalization Effective Time and the holders of such Common Units shall continue as Members of XERC (the "XERC Recapitalization"). The number of Common Units to be received by each Investor will be in accordance with Schedule 1, which determination will be consistent with Section 11.2(c) of the Seventh A&R LLCA of XERC.

(ii) This Section 2.1(a) shall be treated as an amendment to Seventh A&R LLCA of XERC and as part of the Seventh A&R LLCA of XERC as described in Section 761(c) of the Code and Treasury Regulations Sections 1.761-1(c) and 1.704-1(b)(2)(ii)(h).

(iii) The Parties (i) intend the XERC Recapitalization to be treated as a partnership recapitalization in accordance with Revenue Ruling 84-52 and Section 721(a) of the Code and (ii) shall not take, and shall not permit any of their respective Affiliates to take, any position (whether in a tax return or financial statement, before any Governmental Authority, in any judicial proceeding or otherwise) that is inconsistent with such tax treatment.

(b) Management Holdings Recapitalization.

(i) Following and on the same Business Day as the Effectiveness, concurrently with the XERC Recapitalization, all of the Profits Interests, effective as of the Recapitalization Effective Time, are hereby converted into a number of common units of Management Holdings (the "Management Holdings Common Units") in an aggregate amount equal to the number of Common Units held by Management Holdings immediately following the XERC Recapitalization and allocated to each Profits Interests Holders in accordance with the allocations determined by the Board of Directors of XERC (the "Management Holdings Recapitalization"). Each Management Holdings Common Units held by any Profits Interests Holders will have the same provisions with respect to vesting, forfeiture and/or transfer restrictions that applied to the Profits Interests held by such Profits Interests Holder immediately prior to the Management Holdings Recapitalization.

(ii) This Section 2.1(b) shall be treated as an amendment to the Management Holdings LLCA and as part of the Management Holdings LLCA as described in Section 761(c) of the Code and Treasury Regulations Sections 1.761-1(c) and 1.704-1(b)(2)(ii)(h).

(iii) The parties hereto (i) intend the Management Holdings Recapitalization to be treated as a partnership recapitalization in accordance with Revenue Ruling 84-52 and Section 721(a) of the Code and (ii) shall not take, and shall not permit any of their respective Affiliates to take, any position (whether in a tax return or financial statement, before any Governmental Authority, in any judicial proceeding or otherwise) that is inconsistent with such tax treatment.]

Section 2.2 Amended and Restated Certificate of Incorporation and Bylaws of PubCo. Immediately prior to the Blocker Merger, the Certificate of Incorporation of PubCo shall be, and hereby is, amended and restated in the form of the Amended and Restated Certificate of Incorporation of PubCo attached hereto as Exhibit A which shall be filed with the Delaware Secretary of State on the date of the initial closing of the Initial Public Offering (the "IPO Closing"), and PubCo shall adopt the Amended and Restated Bylaws of PubCo attached hereto as Exhibit B.

Section 2.3 Blocker Merger.

(a) Immediately following the XERC Recapitalization, each Blocker, Blocker Investors and PubCo shall take all of the actions and consummate the transactions set forth in this Section 2.3 that are applicable to such Person, and each Party agrees that the Blocker Merger shall be deemed to have been taken for all purposes in the same order in which they are described in this Section 2.2 immediately following the consummation of the XERC Recapitalization.

(b) Pursuant to the Certificates of Merger in the form attached hereto as Exhibit C-1 (the "Corporate Blocker Certificate of Merger") and Exhibit C-2 (the "LLC Blocker Certificate of Merger") and, collectively with the Corporate Blocker Certificate of Mergers, the "Certificates of Merger"), each of which will be filed with the Delaware Secretary of State prior to the IPO Closing and following the Recapitalization Effective Time and effective as of the Blocker Merger Effective Time (as defined below), and in accordance with the DGCL and the DLLCA, as applicable, and the provisions of this Agreement, each Blocker will merge with and into PubCo, with PubCo being the surviving company (the "Blocker Merger Surviving Company") of each of such merger (the "Blocker Merger") and shall continue its corporate existence under the laws of the State of Delaware.

(c) The name of the Blocker Merger Surviving Company shall be X-Energy, Inc. The Blocker Merger shall have the effects set forth in the DGCL, including Sections 259 and 264 of the DGCL, and Section 18-209 of the DLLCA, and the Blocker Merger Surviving Company shall possess all the rights, privileges, immunities, powers and franchises of each Blocker, and shall by operation of law become liable for all the debts, liabilities, obligations and duties of each Blocker to the same extent as if said debts, liabilities, obligations and duties had been incurred or contracted by PubCo, as provided in the DGCL and the DLLCA, as applicable.

(d) The Blocker Merger shall become effective at the time designated in the applicable Blocker Certificate of Merger, which shall be on the same Business Day as the Effectiveness and following the XERC Recapitalization (the "Blocker Merger Effective Time").

(e) Blocker Merger Effect on Capital Stock and Interests. At the Blocker Merger Effective Time and pursuant to the Blocker Merger:

(i) All of the limited liability company interests, shares or other equity interests, as applicable, of each Blocker (collectively, the “Blocker Equity Interests”) outstanding immediately prior to the Blocker Merger Effective Time shall, by virtue of the Blocker Merger and without any action on the part of any Party, be cancelled and, for each holder of the Blocker Equity Interests (each, a “Blocker Investor”), automatically converted into and thereafter represent the right to receive the number of validly issued, fully paid and non-assessable shares of Class A Common Stock of PubCo set forth next to such Blocker Investor’s name under the heading “Class A Common Stock of PubCo” on Schedule 1, which amount for the Blocker Investors of each Blocker shall, in the aggregate, be equal to the number of Common Units held by such Blocker immediately prior to the Blocker Merger.

(ii) PubCo shall be admitted as a substitute member of XERC with respect to any Common Units transferred to PubCo pursuant to the Blocker Merger.

(f) This Section 2.3, together with any related definitions and other provisions of this Agreement, constitutes an “agreement of merger” for purposes of each Blocker Certificate of Merger and applicable Law.

Section 2.4 Directors and Officers. From and after the Blocker Merger Effective Time, the directors of PubCo immediately prior to the Blocker Merger Effective Time shall be removed as directors of PubCo and the individuals set forth on Schedule 2 hereto shall be appointed as directors and shall continue to be the directors of the Blocker Merger Surviving Company. From and after the applicable Blocker Merger Effective Time, the officers of PubCo immediately prior to the Blocker Merger Effective Time shall be removed as officers of PubCo and the individuals set forth on Schedule 3 hereto shall be appointed as officers and shall continue to be the officers of the Blocker Merger Surviving Company.

Section 2.5 XERC Member Contributions and Subscriptions.

(a) Former Equity Owner Contributions.

(i) Contemporaneously with the Blocker Merger, each Former Equity Owner shall contribute, convey, transfer and deliver to PubCo all right, title and interest in and to all of the Common Units held by such Former Equity Owner as set forth opposite such Former Equity Owner’s name under the heading “Contributed Common Units” on Schedule 1. PubCo shall accept such contribution and in consideration therefor PubCo shall issue to each Former Equity Owner the number of newly issued shares of Class A Common Stock of PubCo set forth next to such Former Equity Owner’s name under the heading “Class A Common Stock of PubCo” on Schedule 1 (the “Former Equity Owner Contributions”). As a result of the Former Equity Owner Contributions, PubCo shall be admitted as a substitute member of XERC with respect to the contributed Common Units described in the preceding sentence, and immediately upon the admission of PubCo as a substitute member of XERC, each of the Former Equity Owners shall cease to be a member of XERC, and XERC shall continue without dissolution.

(b) Management Holdings Contribution.

(i) Contemporaneously with the Blocker Merger and the Former Equity Owner Contributions, Management Holdings shall contribute, convey, transfer and deliver to PubCo all right, title and interest in and to all of the Common Units held by Management Holdings as set forth Management Holding's name under the heading "Contributed Common Units" on Schedule 1, PubCo shall accept such contribution and in consideration therefor PubCo shall issue to Management Holdings the number of newly issued shares of Class A Common Stock of PubCo set forth next to Management Holding's name under the heading "Class A Common Stock of PubCo" on Schedule 1 (the "Management Holdings Contribution"). As a result of the Management Holdings Contributions, PubCo shall be admitted as a substitute member of XERC with respect to the contributed Common Units described in the preceding sentence, and immediately upon the admission of PubCo as a substitute member of XERC, Management Holdings shall cease to be a member of XERC and XERC shall continue without dissolution. Each share of Class A Common Stock of PubCo held by Management LLC will have the same provisions with respect to vesting, forfeiture and/or transfer restrictions that applied to the corresponding Common Unit contributed by Management LLC.

(c) Continuing Equity Owner Contributions.

(i) Contemporaneously with the Blocker Merger, the Former Equity Owner Contributions and the Management Holdings Contribution, each Continuing Equity Owner shall contribute, convey, transfer and deliver to PubCo all right, title and interest in and to all of the Common Units set forth opposite such Continuing Equity Owner's name under the heading "Contributed Common Units" on Schedule 1, PubCo shall accept such contribution and in consideration therefor PubCo shall issue to each Continuing Equity Owner the number of newly issued shares of Class A Common Stock of PubCo equal to the number of Common Units set forth next to such Continuing Equity Owner's name under the heading "Class A Common Stock of PubCo" on Schedule 1 (the "Continuing Equity Owner Contributions"), as set forth opposite such Continuing Equity Owner's name on Schedule 1. As a result of the Continuing Equity Owner Contributions, PubCo shall be admitted as a substitute member of XERC with respect to the contributed Common Units described in the preceding sentence, and each of the Continuing Equity Owners shall continue as a member of XERC with respect to the Common Units that were not contributed by such Continuing Equity Owner pursuant to this Section 2.5(b)(i).

(ii) Immediately following the transactions contemplated in Section 2.3, Section 2.5(a)(i) and Section 2.5(b)(i), PubCo shall issue and sell to each of the Continuing Equity Owners a number of shares of newly issued, non-economic Class B Common Stock of PubCo equal to the number of Common Units held by each such Continuing Equity Owner after giving effect to the Continuing Equity Owner Contribution and, for the avoidance of doubt, set forth opposite such Continuing Equity Owner's name on Schedule 1, in consideration for such issuance, the Continuing Equity Owners shall each contribute to PubCo an amount equal to (i) \$0.001 per share of Class B Common Stock of PubCo multiplied by (ii) the number of shares of Class B Common Stock of PubCo issued to such Continuing Equity Owner as set forth on Schedule 1 (such contribution and issuance, the "Class B Common Stock Subscription"), which Class B Common Stock Subscription amount and the number of Class B Common Stock issued is set forth opposite such Continuing Equity Owner's name under the headings "Class B Common Stock of PubCo Subscription Price" and "Class B Common Stock of PubCo", respectively on Schedule 1.

Section 2.6 Amendment and Restatement of Limited Liability Company Agreements. Following the Continuing Equity Owner Contributions and prior to the IPO Closing, each of the Continuing Equity Owners and PubCo hereby agree that the Seventh A&R LLC Agreement shall be amended and restated in the form of Eighth A&R LLCA of XERC attached hereto as Exhibit D, pursuant to which PubCo shall be named the “managing member” of XERC. Each Party that is listed as a signatory on the signature pages to the Eighth A&R LLCA of XERC shall adopt and join in such agreement and authorize any authorized officer of XERC to execute such agreement on its behalf.

Section 2.7 PubCo Contributions.

(a) Immediately following the IPO Closing, PubCo shall use the net proceeds received by it in the Initial Public Offering (the “IPO Proceeds”) and the Class B Common Stock Subscription in accordance with the “Use of Proceeds” section of the Registration Statement (other than changes to amounts or that are incidental to the inclusion of a price range or the public offering price and size of the Initial Public Offering as set forth in the Final Prospectus), including to, among other things: (i) pay expenses associated with the Initial Public Offering; and (ii) contribute all of the remaining IPO Proceeds to XERC in exchange for the issuance by XERC to PubCo of a number of Common Units equal to the number of shares of Class A Common Stock issued and sold by PubCo to the Underwriters in connection with the IPO Closing.

(b) If the Underwriters exercise the Underwriters’ Option, in whole or in part (whether at the IPO Closing or thereafter) to purchase additional shares of Class A Common Stock of PubCo for sale to the public in exchange for cash, following such exercise, PubCo shall contribute to XERC the net proceeds received by it pursuant to the exercise of the Underwriters’ Option in exchange for the issuance of a number of Common Units to PubCo equal to the number of shares of Class A Common Stock of PubCo issued and sold by the Underwriters in connection with the closing of such underwriters’ option. Immediately following such contribution, XERC shall retain all or a portion of such additional net proceeds for general company purposes, in each case in accordance with the “Use of Proceeds” section of the Registration Statement (and as may be updated in the Final Prospectus as a result of the final public offering price and size of the Initial Public Offering).

Section 2.8 Management Holdings Liquidation. Following the expiration of the Lock-Up Period, Management Holdings shall hereby, and without any further action required by Management Holdings or any other party, distribute (i) all of the shares of Class A Common Stock issued to Management Holdings in the Management Holdings Contribution and (ii) any other assets held by Management Holdings (if any), in each case, to the Profits Interests Holders in complete liquidation of Management Holdings (the “Management Holdings Liquidation”). The Shares of Class A Common Stock distributed to each Profits Interests Holder pursuant to the Management Holdings Liquidation will have the same provisions with respect to vesting, forfeiture and/or transfer restrictions that applied to the Management Holdings Common Units held by such particular Profits Interests Holder. Following the Management Holdings Liquidation, Management Holdings and XERC shall take all actions necessary to effect the dissolution and winding up of Management Holdings in accordance with the Management Holdings LLCA and applicable law.]

ARTICLE III
INITIAL PUBLIC OFFERING AND RELATED MATTERS

Section 3.1 Underwriters Agreement. It is anticipated that prior to the transactions set forth in Article II of this Agreement, PubCo will enter into the Underwriting Agreement with the Underwriters; subject to the right of each party to elect to not enter into an Underwriting Agreement at its sole discretion.

Section 3.2 Tax Receivable Agreement. Effective immediately following the transactions described in Section 2.6, PubCo and each TRA Party shall enter into a Tax Receivable Agreement in the form attached to this Agreement as Exhibit E, pursuant to which the TRA Parties will receive certain rights pursuant thereto, as provided in Exhibit E.

Section 3.3 Registration Rights Agreement. Effective immediately following the transactions described in Article II, PubCo and certain Investors shall enter into a Registration Rights Agreement in the form attached to this Agreement as Exhibit F, pursuant to which the parties thereto will receive certain rights pursuant thereto, as provided in Exhibit F.

ARTICLE IV
REPRESENTATIONS AND WARRANTIES

Each Party hereby represents and warrants, solely with respect to itself, to the other Parties as follows:

Section 4.1 Organization. Such Party, other than individuals, is a corporation, limited partnership or limited liability company, as applicable, duly organized, validly existing and in good standing (where such concept exists) under the Laws of the jurisdiction of its organization, and has all requisite corporate, partnership or limited liability company, as applicable, power and authority and all necessary governmental approvals to own, lease and operate its properties and to carry on its business as now being conducted, except where the failure to have such power, authority and governmental approvals would not have, individually or in the aggregate, a material adverse effect on such Party or on the consummation of the transactions contemplated hereby.

Section 4.2 Authority; Enforceability. Such Party has the requisite corporate, limited partnership, limited liability company or other power and authority, as applicable, to execute and deliver this Agreement and to perform its obligations under this Agreement. The execution, delivery and performance by such Party of this Agreement and the consummation of the transactions contemplated hereby have been duly authorized by its board of directors or other governing body, as applicable, and no other action is necessary to authorize the execution and delivery by it of this Agreement or the performance of its obligations under this Agreement. This Agreement has been duly executed and delivered by such Party, and, assuming due and valid authorization, execution and delivery under this Agreement by the other Parties hereto, this Agreement is a valid and binding obligation, enforceable against it in accordance with its terms.

Section 4.3 Consents and Approvals: No Violations. Subject to the receipt of any approvals required by the DGCL or the DLLCA, as applicable, none of the execution, delivery or performance of this Agreement by such Party, or compliance by it with any of the provisions of this Agreement, will (a) conflict with or result in any breach of any provision of the certificate of incorporation and by-laws, partnership agreement, limited liability company agreement, or similar organizational documents of such Party, as applicable, (b) require any filing with, or permit, authorization, consent or approval of, any Governmental Authority, or (c) violate any Law applicable to such Party or any of its properties or assets, excluding from the foregoing clauses (b) and (c) such filings, permits, authorizations, consents, violations, breaches, defaults, rights, obligations or encumbrances which would not, individually or in the aggregate, have a material adverse effect on such Party or on the consummation of the transactions contemplated hereby.

Section 4.4 Ownership of Interests. Each Party contributing, issuing, delivering, or exchanging interests hereby, owns all such interests free and clear of all liens, encumbrances, security interest, equities, charges or claims. There are no preferential rights to purchase, rights of first refusal or similar rights that are applicable to the contribution, issuance, delivery or exchange of such interests in connection with the transactions contemplated hereby which have not been waived by the Person holding such rights.

Section 4.5 Bankruptcy. There are no bankruptcy, reorganization, receivership or other insolvency type proceedings pending, being contemplated by or, to such Party's knowledge, threatened against such Party.

Section 4.6 Litigation. No suit, action or litigation by any Person by or before any tribunal or Governmental Authority is pending or, to such Party's knowledge, threatened against such Party or its affiliates that would, individually or in the aggregate, reasonably be expected to have a material adverse effect upon the ability of such Party to perform its obligations hereunder or consummate the transactions contemplated hereby.

Section 4.7 Independent Investigation. Each Party has reviewed with, or has had opportunity to consult with, their own independent legal and tax advisors regarding the transactions contemplated hereby, including the U.S. federal, state, local, foreign and other tax consequences of the transactions contemplated hereby and hereby acknowledges and agrees that none of PubCo, XERC or their advisors (including Latham & Watkins LLP) has provided to such Party any such legal or tax advice regarding the transactions contemplated hereby, none of PubCo or XERC are making any representation or warranty as to the U.S. federal, state, local, foreign and other tax consequences of the transactions contemplated hereby and each such Party will be responsible for such Person's own tax liability that may arise as a result of the transactions contemplated hereby.

Section 4.8 Blocker Taxes.

Each Blocker hereby represents and warrants, solely with respect to itself, to PubCo as follows:

(a) Such Blocker has filed all income and other material Tax Returns required to be filed by applicable Law, all such Tax Returns were prepared in compliance with applicable Law and are true, complete and accurate in all material respects, and such Blocker has paid all Taxes due and owing by the Blocker, other than errors, inaccuracies, omissions or instances of noncompliance arising from information provided or failed to be provided on a Schedule K-1 provided by XERC to such Blocker.

(b) Such Blocker has not received a written claim that has not been resolved by a Governmental Authority in a jurisdiction where such Blocker does not file Tax Returns that it is or may be subject to Tax by that jurisdiction.

(c) There are no claims, assessments, demands, actions, suits, proceedings, or audits with respect to Taxes asserted or now in progress, or, threatened in writing, against such Blocker.

(d) Such Blocker has not waived any statute of limitations in respect of Taxes or agreed to any extension of time with respect to a Tax claim or assessment (other than automatically granted extensions to file Tax Returns).

(e) Such Blocker has timely and properly withheld all Tax required to be withheld on payments by such Blocker to any other Person and has complied with all requirements under Law with respect to such withholding.

(f) There are no currently existing or pending Tax liens with respect to such Blocker (other than liens for Taxes which are not yet delinquent).

(g) Such Blocker is not a party to or bound by any Tax allocation or sharing agreement (other than commercial agreements entered into in the ordinary course of business the primary purpose of which does not relate to Taxes).

(h) Such Blocker (i) has not been a member of an affiliated group filing a consolidated federal income Tax Return or any similar group for state, local or foreign income Tax purposes (other than a group the common parent of which was such Blocker), or (ii) has no liability for the Taxes of any Person (other than such Blocker) under Treasury Regulations Section 1.1502-6 (or any similar state, local or foreign Law), as a transferee or successor, or by contract.

(i) Such Blocker has not constituted either a “distributing corporation” or a “controlled corporation” in a distribution of stock intended to qualify for tax-free treatment under Section 355 of the Code in the two years prior to the date of this Agreement or in a distribution which could otherwise constitute part of a “plan” or a “series of related transactions” (within the meaning of Section 355(e) of the Code).

(j) Such Blocker is, and has been since formation, properly classified as a corporation for U.S. federal income tax purposes.

(k) Since its respective formation date, such Blocker has not: (a) conducted or engaged in any business, operations, or activities other than directly or indirectly holding equity interests in XERC; (b) had, or engaged any, employees, consultants, or independent contractors; (c) owned, leased, or otherwise held any assets other than its direct or indirect ownership of equity interests in XERC, as applicable, and cash or cash equivalents held in accounts maintained solely for the purpose of paying de minimis administrative expenses incurred in the ordinary course of maintaining its existence; or (d) incurred, created, assumed, or guaranteed any indebtedness or other liabilities or obligations (whether accrued, absolute, contingent or otherwise), other than (i) liabilities for Taxes incurred with respect to its existence and its ownership of the XERC interests, or (ii) de minimis administrative expenses incurred in the ordinary course of maintaining its existence.

ARTICLE V
MISCELLANEOUS

Section 5.1 Intended Tax Treatment: Tax Elections.

(a) The Parties acknowledge and agree that for U.S. federal (and applicable state and local) income tax purposes, the Parties intend that: (i) each Blocker Merger will be treated as a “reorganization” within the meaning of Section 368(a) of the Code and (ii) the Former Equity Owner Contributions, Management Holdings Contribution, the Continuing Equity Owner Contribution, the contribution of cash to PubCo in the Initial Public Offering and, if applicable, the exercise of the Underwriters’ Option, together with the Blocker Merger, will be treated as contributions to PubCo that qualify under Section 351(a) of the Code (clauses (i) and (ii), collectively, the “Intended Tax Treatment”). The Parties will, and will cause each of their respective Affiliates to, prepare and file all tax returns in a manner consistent with the Intended Tax Treatment, and none of the Parties or their respective Affiliates will take any position with any Governmental Authority or otherwise that is inconsistent with the Intended Tax Treatment, except as required by applicable Law.

(b) An election under Section 6226 of the Code (and any similar elections under state or local Law) shall be made for XERC with respect to any “imputed underpayment” or similar adjustment that relates to any taxable period (or portion thereof) ending on or prior to the date of the Restructuring or the IPO Closing, as applicable, and XERC (and its members) shall take such actions as are needed to effect the foregoing. In addition, any available election under Section 6226 of the Code (and any similar elections under state or local Law) shall be made for any subsidiaries of XERC with respect to any “imputed underpayment” or similar adjustment that relates to any taxable period (or portion thereof) ending on or prior to the date of the Restructuring or the IPO Closing, as applicable, and XERC (and its members) and any subsidiaries of XERC shall take such actions as are needed to effect the foregoing.

(c) The Blocker Certificates of Merger and this Agreement, taken together, are intended to constitute, and the Parties hereby adopt the foregoing as, a “plan of reorganization” for purposes of Sections 354 and 361 of the Code and within the meaning of Treasury Regulations Sections 1.368-2(g) and 1.368-3(a).

Section 5.2 Transfer Taxes. All transfer, documentary, sales, use, stamp, registration, valued added and similar taxes and fees incurred in connection with this Agreement and the documents to be delivered hereunder (“Transfer Taxes”) shall be borne and paid by XERC. XERC shall timely file any tax return with respect to Transfer Taxes (and the Parties shall cooperate with respect thereto as necessary).

Section 5.3 Withholding.

(a) Each Investor hereto shall deliver a duly executed Internal Revenue Service Form W-9 of such Party to PubCo and XERC.

(b) Each Party hereto, and their applicable affiliates or agents, will be permitted to deduct and withhold from any amounts paid pursuant to this Agreement any taxes required to be deducted or withheld therefrom under applicable Law. If any Person intends to deduct or withhold under this Section 5.3 any amounts payable pursuant to this Agreement, such Person will use commercially reasonable efforts to give the Person in respect of whom such deduction or withholding will be made at least five (5) Business Days' prior written notice of such intention and will reasonably cooperate with such Person to reduce, mitigate or eliminate the potential deduction or withholding to the extent permitted under applicable Law, including through accepting any relevant forms, certificates or other documents. Any taxes so deducted or withheld will be timely paid by such Person to the applicable Governmental Authority, and to the extent such taxes are paid to the applicable Governmental Authority, will be treated for purposes of this Agreement as paid to the Person in respect of whom such deduction or withholding was made.

Section 5.4 Further Assurances. Each party hereto agrees to execute and deliver such instruments and evidences of payment and give such further assurances and perform such further acts as the other may reasonably request and as may reasonably be necessary in connection with the transactions contemplated by this Agreement.

Section 5.5 Governing Law. This Agreement shall be governed by and construed and enforced in accordance with the internal Laws of the State of Delaware applicable to agreements made and to be performed entirely within such State, without reference to conflict of law rules of that or any other jurisdiction. All Legal Proceedings arising out of or relating to this Agreement shall be heard and determined exclusively in the Delaware state courts or federal courts of the United States of America sitting in the State of Delaware and any appellate court from any such court (as applicable, the "Chosen Courts"). Consistent with the preceding sentence, the Parties hereby (i) submit to the exclusive jurisdiction of the Chosen Courts for the purpose of any Legal Proceeding arising out of or relating to this Agreement brought by any Party and (ii) irrevocably waive, and agree not to assert by way of motion, defense, or otherwise, in any such Legal Proceeding, any claim that it is not subject personally to the jurisdiction of the Chosen Courts, that its property is exempt or immune from attachment or execution, that such Legal Proceeding is brought in an inconvenient forum, that the venue of such Legal Proceeding is improper, or that this Agreement or the transactions contemplated hereby may not be enforced in or by any of the Chosen Courts. Notwithstanding the foregoing, the judgment against a Party in any Legal Proceeding contemplated above may be enforced in any other jurisdiction within or outside the United States by suit on the judgment, a certified or exemplified copy of which shall be conclusive evidence of the fact and amount of such judgment. EACH OF THE PARTIES HEREBY WAIVES TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO ANY LEGAL PROCEEDING DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT OR THE TRANSACTION CONTEMPLATED HEREBY. EACH OF THE PARTIES HEREBY (I) CERTIFIES THAT NO REPRESENTATIVE, AGENT OR ATTORNEY OF ANY OTHER PARTY HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PARTY WOULD NOT, IN THE EVENT OF ANY LEGAL PROCEEDING IN CONNECTION WITH THIS AGREEMENT, SEEK TO ENFORCE THE FOREGOING WAIVER AND (II) ACKNOWLEDGES THAT IT HAS BEEN INDUCED TO ENTER INTO THIS AGREEMENT AND THE TRANSACTIONS CONTEMPLATED HEREBY, AS APPLICABLE, BY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS IN THIS SECTION 5.5.

Section 5.6 Counterparts. This Agreement may be executed in one or more counterparts, each of which will be deemed to be an original copy of this Agreement and all of which, when taken together, will be deemed to constitute one and the same agreement. Delivery of an executed counterpart of a signature page to this Agreement by electronic mail or other electronic delivery (including, for the avoidance of doubt, by PDF, DocuSign, email or other electronic transmission) will be treated in all manner and respects as an original agreement or instrument and will be considered to have the same binding legal effect as if it were the original signed version of such agreement delivered in person.

Section 5.7 Successors and Assigns; No Third Party Rights. This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement is not intended to, and does not, create rights in any other Person, and no Person is or is intended to be a third-party beneficiary of any of the provisions of this Agreement.

Section 5.8 Severability. If any of the provisions of this Agreement are held by any court of competent jurisdiction to contravene, or to be invalid under, the Laws of any political body having jurisdiction over the subject matter of this Agreement, such contravention or invalidity will not invalidate the entire Agreement. Instead, this Agreement will be construed as if it did not contain the particular provision or provisions held to be invalid, and an equitable adjustment will be made and necessary provision added so as to give effect to the intention of the Parties as expressed in this Agreement at the time of execution of this Agreement.

Section 5.9 Waivers and Amendments. Any waiver of any term or condition of this Agreement, or any amendment or supplement to this Agreement, will be effective only if in writing and signed by the Parties. A waiver of any breach or failure to enforce any of the terms or conditions of this Agreement will not in any way affect, limit or waive a Party's rights under this Agreement at any time to enforce strict compliance thereafter with every term or condition of this Agreement.

Section 5.10 Entire Agreement; Survival. This Agreement, together with the agreements and other documents referenced in this Agreement, constitutes the entire agreement among the Parties pertaining to the transactions contemplated hereby and supersedes all prior agreements, understandings, negotiations and discussions, whether oral or written, of the Parties pertaining thereto. The provisions of this Agreement (including the representations and warranties under this Agreement) shall survive the IPO Closing, and shall continue indefinitely.

IN WITNESS WHEREOF, the Parties have executed this Agreement as of the date first above written.

PUBCO

X-ENERGY, INC.

By: [Name]
Name:
Title:

XERC

X-ENERGY REACTOR COMPANY, LLC

By: [Name]
Name:
Title:

BLOCKERS

XENON REACTOR COMPANY HOLDCO LLC

By: [Name]
Name:
Title:

SAO BLOCKER, INC.

By: [Name]
Name:
Title:

BE TECH VENTURES, INC.

By: [Name]
Name:
Title:

BURRA HOLDINGS, L.L.C.

By: [Name]
Name:
Title:

MULL HOLDINGS, L.L.C.

By: [Name]
Name:
Title:

GIE FUND I X-ENERGY HOLDCO, LLC

By: [Name]
Name:
Title:

72 X-ENERGY BLOCKER, LLC

By: [Name]
Name:
Title:

VALORINA LLC

By: [Name]
Name:
Title:

MANAGEMENT HOLDINGS

X-ENERGY MANAGEMENT, LLC

By: [Name]
Name:
Title:

OTHER INVESTORS

[·]

By: [Name]

Name:

Title:

Schedule 1

Investors

#	Investor	Common Units held following XERC Recapitalization	Contributed Common Units	Class A Common Stock of PubCo	Class B Common Stock of PubCo Subscription Price	Class B Common Stock of PubCo
Blockers						
1.	Xenon Reactor Company Holdco LLC	[·]	-	-	-	-
2.	SAO Blocker, Inc.	[·]	-	-	-	-
3.	BE Tech Ventures, Inc.	[·]	-	-	-	-
4.	Burra Holdings, L.L.C.	[·]	-	-	-	-
5.	Mull Holdings, L.L.C.	[·]	-	-	-	-
6.	GIE Fund I X-Energy Holdco, LLC	[·]	-	-	-	-
7.	72 X-Energy Blocker, LLC	[·]	-	-	-	-
8.	Valorina LLC	[·]	-	-	-	-
9.	Xenon Reactor Company Holdco LLC	[·]	-	-	-	-
Blocker Investors						
10.	[OTPP Blocker Investor[s]]	-	-	[·]	-	-
11.	[Accrete Blocker Investor[s]]	-	-	[·]	-	-
12.	[BapCo Blocker Investor[s]]	-	-	[·]	-	-
13.	[DE Shaw Blocker Investor[s]]	-	-	[·]	-	-
14.	[Galvanize Blocker Investor[s]]	-	-	[·]	-	-
15.	[Point 72 Blocker Investor[s]]	-	-	[·]	-	-
16.	[Soros Blocker Investor[s]]	-	-	[·]	-	-
17.	[OTPP Blocker Investor[s]]	-	-	[·]	-	-
18.	[Accrete Blocker Investor[s]]	-	-	[·]	-	-
Continuing Equity Owners						
19.	Kamal Ghaffarian Revocable Trust	[·]	[·]	[·]	[·]	[·]
20.	IBX Opportunity GP, Inc.	[·]	[·]	[·]	[·]	[·]
21.	Ares X-Energy Holdings LP	[·]	[·]	[·]	[·]	[·]
22.	GM Enterprises, LLC	[·]	[·]	[·]	[·]	[·]
23.	Ares X-Energy Co-Invest LP	[·]	[·]	[·]	[·]	[·]
24.	ACIP Investments Pooling LLC - Series 31, and	[·]	[·]	[·]	[·]	[·]
25.	Jane Street Global Trading, LLC	[·]	[·]	[·]	[·]	[·]
26.	Kamal Ghaffarian Revocable Trust	[·]	[·]	[·]	[·]	[·]
Management Holdings						
27.	X-Energy Management, LLC	[·]	[·]	[·]	-	-
Former Equity Owners						
28.	[·]	[·]	[·]	[·]	-	-
29.	[·]	[·]	[·]	[·]	-	-

Schedule 2

PubCo Board of Directors

1. Kamal Ghaffarian (Chairman)
 2. J. Clay Sell
 3. Edward Sonnenschein
 4. Michael J. Wallace
 5. Kathleen W. Hyle
 6. Christopher F. Ginther
 7. Gregory J. Goff
 8. David B. Kaplan
 9. Allyson Satin
-

Schedule 3

PubCo Officers

1. J. Clay Sell, Chief Executive Officer
 2. Daniel Gross, Executive Vice President and Chief Financial Officer
 3. Dragan Popovic, Executive Vice President and Chief of Global Operations
-

Exhibit A

A&R Certificate of Incorporation of PubCo

Exhibit B

A&R Bylaws of PubCo

Exhibit C-1

Corporate Certificate of Merger

Exhibit C-2

LLC Certificate of Merger

Exhibit D

Eighth A&R LLCA of XERC

Exhibit E

Tax Receivable Agreement

Exhibit F

Registration Rights Agreement

TAX RECEIVABLE AGREEMENT

by and among

X-ENERGY, INC.

X-ENERGY REACTOR COMPANY, LLC

THE TRA PARTIES

and

OTHER PERSONS FROM TIME TO TIME PARTY HERETO

Dated as of [·], 2026

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Exhibits

Exhibit A	-	List of Exchange TRA Parties
Exhibit B	-	List of Blocker Shareholders
Exhibit C	-	Form of Joinder Agreement

TAX RECEIVABLE AGREEMENT

This TAX RECEIVABLE AGREEMENT (this “Agreement”), dated as of [·], is hereby entered into by and among X-energy, Inc., a Delaware corporation (the “Corporation”), X-energy Reactor Company, LLC, a Delaware limited liability company (“XERC”), and each of the TRA Parties that are from time to time a party hereto.

RECITALS

WHEREAS, XERC is treated as a partnership for U.S. federal income tax purposes;

WHEREAS, XERC entered into the Operating Agreement (defined below) wherein XERC recapitalized all existing ownership interests in XERC into membership interests in the form of Common Units (as defined in Operating Agreement) (the “Recapitalization”);

WHEREAS, following the Recapitalization and immediately prior to the consummation of Common Unit Contribution, each of the Exchange TRA Parties held Common Units and, as of the date hereof, continues to hold (or prior to an Exchange will hold) a portion of such Common Units;

WHEREAS, [·] and [·], (each a “Blocker Company” and collectively, the “Blocker Companies”) are taxable as corporations for U.S. federal income tax purposes;

WHEREAS, as a result of certain reorganization transactions undertaken in connection with the IPO of the Corporation, (i) each Blocker Company will merge with and into the Corporation or a subsidiary of the Corporation (each, a “Merger”), and as a result of such Merger the Corporation will be entitled to utilize certain Blocker Tax Attributes attributable to such Blocker Company and (ii) and certain of the Common Units held by the Exchange TRA Parties were acquired by the Corporation from the Exchange TRA Parties in a transaction intended to qualify as a tax-free contribution under Section 351(a) of the Code (the “Common Unit Contributions”);

WHEREAS, on the date hereof, the Corporation issued shares of its Class A Common Stock in an initial public offering of its Class A Common Stock (the “IPO”);

WHEREAS, immediately following the consummation of the IPO, the Corporation acquired newly issued Common Units from XERC using the net proceeds from the IPO (the “Unit Purchase”) and became the managing member of XERC and XERC and the Corporation effectuated certain other transactions to combine the businesses of XERC and the Corporation;

WHEREAS, following the IPO, the Operating Agreement provides each Exchange TRA Party a redemption right pursuant to which each Exchange TRA Party may cause XERC to redeem all or a portion of its Common Units from time to time for shares of Class A Common Stock or, under certain circumstances, at the Corporation’s option, cash (a “Redemption”), subject to the Corporation’s right, in its sole discretion, to elect to effect a direct exchange of cash or shares of Class A Common Stock for such Common Units between the Corporation and the applicable Exchange TRA Party in lieu of such a Redemption (a “Direct Exchange”), and as a result of any such Redemption or Direct Exchange the Corporation may be entitled to utilize (or otherwise be entitled to the benefits arising out of) the Covered Tax Assets;

WHEREAS, XERC and each of its subsidiaries that is treated as a partnership for U.S. federal income tax purposes will have in effect an election under Section 754 of the Code for the Taxable Year in which any Exchange occurs, which election will cause any such Exchange to result in an adjustment to the Corporation's proportionate share of the tax basis of the assets owned by XERC and such subsidiaries pursuant to Section 743(b) and Section 734(b) of the Code; and

WHEREAS, the Parties to this Agreement desire to provide for certain payments and make certain arrangements with respect to any tax benefits to be derived by the Corporation as the result of Covered Tax Assets and the making of payments under this Agreement.

NOW, THEREFORE, the Parties agree as follows:

ARTICLE I

Definitions

Section 1.1. Definitions. As used in this Agreement, the terms set forth in this Article I shall have the following meanings (such meanings to be equally applicable to (i) the singular and plural, (ii) the active and passive and (iii) for defined terms that are nouns, the verified forms of the terms defined).

"Actual Tax Liability" means, with respect to any Taxable Year, the liability for Covered Taxes of the Corporation (a) appearing on Tax Returns of the Corporation for such Taxable Year or (b) if applicable, determined in accordance with a Determination; provided, that for purposes of determining Actual Tax Liability, the Corporation shall use the Assumed State and Local Tax Rate for purposes of determining liabilities for all state and local Covered Taxes (including, for the avoidance of doubt, the U.S. federal income tax benefit realized by the Corporation with respect to such state and local Covered Taxes).

"Advisory Firm" means an accounting firm that is nationally recognized as being expert in Covered Tax matters selected by the Corporation.

"Affiliate" means, with respect to any Person, any other Person that directly or indirectly, through one or more intermediaries, Controls, is Controlled by, or is under common Control with, such first Person. With respect to each TRA Party, each of the following shall be deemed an "Affiliate": (a) a trust, family limited partnership or similar estate planning vehicle, under which the distribution of an interest in this Agreement may be made only to beneficiaries who are such TRA Party, such TRA Party's current or former spouse, siblings, parents, or spouse's or former spouse's parents or siblings or lineal descendants (whether natural or adopted) of the TRA Party, such TRA Party's current or former spouse, siblings, parents or current or former spouse's parents or siblings and any charitable foundation of such TRA Party; (b) a charitable remainder trust, the income of which shall be paid to such TRA Party during such TRA Party's life; and (c) such TRA Party's current or former spouse, siblings, parents, or current or former spouse's parents or siblings or lineal descendants (whether natural or adopted) of the TRA Party, such TRA Party's current or former spouse, siblings, parents or current or former spouse's siblings or parents and any charitable foundation or other charitable donee of such TRA Party.

“Agreed Rate” means a per annum rate of SOFR plus 100 basis points.

“Agreement” is defined in the preamble.

“Amended Schedule” is defined in Section 2.4(b).

“Amount Realized” means, with respect to any Exchange that is not eligible for nonrecognition treatment (as determined for U.S. federal income tax purposes), at any time, the sum of (i) the Market Value of the shares of Class A Common Stock or the amount of cash (as applicable) transferred to a TRA Party pursuant to such Exchange, (ii) the amount of payments made pursuant to this Agreement with respect to such Exchange (but excluding any portions thereof attributable to Imputed Interest) and (iii) the amount of liabilities of the XERC Group allocated to the Common Units acquired pursuant to the Exchange under Section 752 of the Code.

“Assumed State and Local Tax Rate” means the tax rate equal to the sum of the products of (i) the Corporation’s income and franchise tax apportionment factor for each state and local jurisdiction in which the Corporation or XERC (to the extent the Corporation is includible on XERC’s Tax Return) files income or franchise Tax Returns for the relevant Taxable Year, in each case, as shown on the relevant Tax Return filed by the Corporation or XERC and (ii) the highest corporate income and franchise tax rate(s) for each such state and local jurisdiction in which the Corporation or XERC files income or franchise Tax Returns for each relevant Taxable Year.

“Attributable” is defined in Section 3.1(b)(i).

“Attribute Schedule” is defined in Section 2.2.

“Audit Committee” means the audit committee of the Board.

“Basis Adjustment” is defined in Section 2.1(a).

“Blocker Company” is defined in the recitals.

“Blocker Shareholders” means the entities identified as Blocker Shareholders on Exhibit B and their Permitted Transferees.

“Blocker Tax Attributes” means (i) the Blocker Transferred Basis and (ii) net operating losses (and carryforwards thereof), capital losses (and carryforwards thereof), disallowed interest expense carryforwards under Section 163(j) of the Code and credit carryforwards of the Blocker Companies relating to taxable periods ending on or prior to the IPO (such taxable periods, the “Pre-IPO Tax Period” and such attributes, the “Pre-IPO NOLs”). Notwithstanding the foregoing, the term “Pre-IPO NOL” shall not include any Tax attribute of a Blocker Company that is used to offset Taxes of such Blocker Company, if such offset Taxes are attributable to taxable periods (or portion thereof) ending on or prior to the date of the Merger.

“Blocker Transferred Basis” means the share of Tax basis (including under Sections 734(b), 743(b) and 754 of the Code and Section 1.743-1(h) of the Treasury Regulations and, in each case, the comparable sections of U.S. state and local tax law) of the Reference Assets that is amortizable under Section 197 of the Code or that is otherwise amortizable or depreciable for U.S. federal income tax purposes, in each case, attributable to the Common Units acquired by the Corporation from the Blocker Companies in the Mergers; provided, that for the avoidance of doubt, Blocker Transferred Basis shall not include any Existing Basis, Basis Adjustments or any Exchange Existing Basis.

“Board” means the Board of Directors of the Corporation.

“Business Day” means any day other than a Saturday or a Sunday or a day on which banks located in New York City, New York generally are authorized or required by Law to close.

“Change of Control” shall have the meaning ascribed to such term in the Operating Agreement.

“Class A Common Stock” means the Class A common stock, par value \$0.0001 per share, of the Corporation.

“Code” means the U.S. Internal Revenue Code of 1986, as amended.

“Common Unit Contribution” is defined in the Recitals.

“Common Units” shall have the meaning ascribed to such term in the Operating Agreement.

“Consent Requirement” is defined in Section 7.5(a).

“Control” means the direct or indirect possession of the power to direct or cause the direction of the management or policies of a Person, whether through ownership of voting securities, by contract or otherwise.

“Corporation” is defined in the preamble to this Agreement.

“Covered Tax Assets” means (i) Existing Basis, (ii) Exchange Existing Basis; (iii) Basis Adjustments (iv) Blocker Tax Attributes and (v) Imputed Interest. The determination of Exchange Existing Basis or Blocker Transferred Basis that is allocable to Common Units being exchanged by the TRA Party (and payments made hereunder with respect to such tax basis) or attributable to a Blocker Company shall be determined in good faith by the Corporation in consultation with the Advisory Firm; provided, that in no event will the Exchange Existing Basis, Existing Basis or Blocker Transferred Basis exceed one hundred percent (100%) of the existing tax basis in the Reference Assets that are Covered Tax Assets and allocable to the Corporation at any time. For the avoidance of doubt, Covered Tax Assets shall include any carryforwards, carrybacks or similar attributes that are attributable to the tax items described in clauses (i) through (iv).

“Covered Taxes” means any U.S. federal, state and local taxes, assessments or similar charges that are based on or measured with respect to net income or profits and any interest imposed in respect thereof under applicable Law.

“Cumulative Net Realized Tax Benefit” is defined in Section 3.1(b)(iii).

“Default Rate” means a per annum rate of SOFR plus 500 basis points.

“Default Rate Interest” is defined in Section 5.2.

“Determination” shall have the meaning ascribed to such term in Section 1313(a) of the Code or any similar provisions of state or local tax Law, as applicable, or any other event (including the execution of IRS Form 870-AD) that finally and conclusively establishes the amount of any liability for tax.

“Direct Exchange” is defined in the recitals to this Agreement.

“Dispute” is defined in Section 7.7(a).

“Early Termination Effective Date” means (i) with respect to an early termination pursuant to Section 4.1(a), the date an Early Termination Notice is delivered and (ii) with respect to an early termination pursuant to Section 4.1(c), the date of the applicable Material Breach.

“Early Termination Notice” is defined in Section 4.2(a).

“Early Termination Payment” is defined in Section 4.3(b).

“Early Termination Reference Date” is defined in Section 4.2(b).

“Early Termination Schedule” is defined in Section 4.2(b).

“Exchange” means any Direct Exchange, any Redemption or any other transfer (as determined for U.S. federal income tax purposes) of Common Units to the Corporation from a TRA Party, but excluding the Common Unit Contribution.

“Exchange Existing Basis” means (i) the existing tax basis of the Reference Assets that are depreciable or amortizable (including assets that will eventually be subject to depreciation or amortization, once placed in service) for U.S. federal income tax purposes or stock of a corporation or land, in each case, attributable to the Common Units transferred upon (A) an Exchange, determined as of immediately prior to the time of such Exchange or (B) the Common Unit Contribution, determined as of immediately prior to the Common Unit Contribution and (ii) any increase or decrease (if any) to such tax basis referred to in clause (i) under Section 743(b) of the Code; provided, that for the avoidance of doubt, Exchange Existing Basis shall not include any Existing Basis, Basis Adjustments or any Blocker Transferred Basis.

“Exchange TRA Parties” means each of the Persons (other than Blocker Shareholders and the Corporation) listed on Exhibit A as a party hereto as of the date hereof and their Permitted Transferees.

“Existing Basis” means the Corporation’s proportionate share of the XERC Group’s tax basis in the Reference Assets (other than the Blocker Transferred Basis) held by the XERC Group at the time of the IPO that are amortizable under Section 197 of the Code and reported as amortizable on IRS Form 4562 for U.S. Federal income tax purposes (without taking into account Section 704(c) of the Code) corresponding to (A) Common Units acquired by the Corporation in the Unit Purchase at the time of the IPO or (B) any Common Units acquired by the Corporation after the IPO (other than any Common Units acquired (or deemed acquired) by the Corporation in connection with a Redemption, Direct Exchange or other transaction treated as a direct purchase of Common Units by the Corporation from a Member pursuant to Section 707(a)(2)(B) of the Code) (such acquisition of Units, a “Subsequent Capital Contribution”).

“Expert” is defined in Section 7.8(a).

“Final Payment Date” means, with respect to any Payment required to be made pursuant to this Agreement, the last date on which such payment may be made within the applicable time period prescribed for such payment under this Agreement. The Final Payment Date in respect of (i) a Tax Benefit Payment is determined pursuant to Section 3.1(a) and (ii) an Early Termination Payment is determined pursuant to Section 4.3(a).

“Hypothetical Tax Liability” means, with respect to any Taxable Year, the hypothetical liability of the Corporation that would arise in respect of Covered Taxes, using the same methods, elections, conventions and similar practices used in computing the Actual Tax Liability; provided, that for purposes of determining the Hypothetical Tax Liability, (i) the combined tax rate for U.S. state and local Covered Taxes shall be the Assumed State and Local Tax Rate (including, for the avoidance of doubt, for the purpose of calculating the U.S. federal income tax benefit realized by the Corporation with respect to such state and local Covered Taxes), (ii) the Corporation shall use the Non-Existing Basis, Non-Exchange Existing Basis, the Non-Adjusted Basis and Non-Blocker Transferred Basis and, without duplication, exclude any Blocker Tax Attributes, (iii) the Corporation shall not take into account any Imputed Interest and (iv) the Corporation shall be entitled to make reasonable simplifying assumptions in making any determinations contemplated by this definition.

“Imputed Interest” means any interest imputed under Section 483, 1272 or 1274 of the Code or any similar provisions of state or local tax Law with respect to the Corporation’s payment obligations under this Agreement.

“Independent Directors” means the members of the Board who (a) are “independent” under the standards of the principal U.S. securities exchange on which the Class A Common Stock is traded or quoted, (b) are not officers, directors, employees, equityholders, partners, managers, members, or Affiliates of, and do not have any material direct or indirect financial interest in, any TRA Party or any Affiliate of any TRA Party, and (c) do not have any pecuniary or financial interest in the outcome of any decision or determination to be made by the Independent Directors under this Agreement that is materially different from the interests of the holders of Class A Common Stock generally; provided that no Person shall fail to be an Independent Director solely by reason of (i) being a director, officer, employee, equityholder, partner, member, or manager of the Corporation or any of its Subsidiaries, (ii) having equity interests in the Corporation or XERC, or (iii) being entitled to receive any payment under this Agreement unless such entitlement would reasonably be expected to result in such Person having a pecuniary or financial interest in any such decision or determination that is materially different from the interests of the holders of Class A Common Stock generally.

“Initial TRA Representative” means X-Energy Holding, LLC, a Delaware limited liability company, together with its Affiliates and their respective successors and assigns.

“Interest Amount” is defined in Section 3.1(b)(vi).

“IPO” is defined in the recitals to this Agreement.

“IRS” means the U.S. Internal Revenue Service.

“Joinder” means a joinder to this Agreement, in form and substance substantially similar to Exhibit C to this Agreement.

“Joinder Requirement” is defined in Section 7.5(a).

“Law” means all laws, statutes, ordinances, rules and regulations of the U.S., any foreign country and each state, commonwealth, city, county, municipality, regulatory or self-regulatory body, agency or other political subdivision thereof.

“Market Value” means (i) with respect to an Exchange (other than a deemed Exchange described in clause (ii) below), the value of the Class A Common Stock on the applicable Exchange date used by the Corporation in its U.S. federal income tax reporting with respect to such Exchange, and (ii) with respect to a deemed Exchange pursuant to Valuation Assumption, (a) if the Class A Common Stock trades on a securities exchange or automated or electronic quotation system, the arithmetic average of the high trading price on such date (or if such date is not a Trading Day, the immediately preceding Trading Day) and the low trading price on such date (or if such date is not a Trading Day, the immediately preceding Trading Day) or (b) if the Class A Common Stock no longer trades on a securities exchange or automated or electronic quotation system, the fair market value of one share of Class A Common Stock, as determined by the Corporation in good faith, that would be obtained in an arms’ length free market transaction for cash between an informed and willing buyer and an informed and willing seller, neither of whom is under any undue pressure or compulsion to buy or sell, and without regard to the particular circumstances of the buyer or seller and without any discounts for liquidity or minority discount.

“Material Breach” means (i) subject to the exceptions set forth in this Agreement (including Section 4.1(c) and Section 5.1), the Corporation’s failure to make a Payment (along with any applicable interest) within ninety (90) calendar days of the applicable Final Payment Date, (ii) an intentional material breach by the Corporation of a material obligation under this Agreement or (iii) the rejection of this Agreement by operation of law in a case commenced in bankruptcy or otherwise.

“Mergers” is defined in the recitals to this Agreement.

“Net Tax Benefit” is defined in Section 3.1(b)(ii).

“Non-Adjusted Basis” means, with respect to any Reference Assets which are depreciable or amortizable (including assets that will eventually be subject to depreciation or amortization, once placed in service) for U.S. federal income tax purposes or stock of a corporation or land, attributable to Common Units received in an Exchange determined at the time of the Exchange, the tax basis that such asset would have had at such time if no Basis Adjustments had been made.

“Non-Blocker Transferred Basis” means, with respect to any Reference Asset that has Blocker Transferred Basis at the time of the Mergers, the Tax basis that such Reference Asset would have had if the Blocker Transferred Basis at the time of the Mergers was equal to zero.

“Non-Exchange Existing Basis” means, with respect to any Reference Assets which are depreciable or amortizable (including assets that will eventually be subject to depreciation or amortization, once placed in service) for U.S. federal income tax purposes or stock of a corporation or land, attributable to Common Units received in an Exchange or the Common Unit Contribution, determined at the time of the Exchange or the Common Unit Contribution, the tax basis that such Reference Assets would have had if the Exchange Existing Basis was equal to zero.

“Non-Existing Basis” means, with respect to any Reference Asset at the time of the IPO that is amortizable under Section 197 of the Code and reported as amortizable on IRS Form 4562 for U.S. federal income tax purposes, the tax basis that such Reference Asset would have had if the Existing Basis at the time of the IPO (or, in the case of any adjustments as a result of the Unit Purchase and the entry into this Agreement, at the time of the Unit Purchase) or a Subsequent Capital Contribution, as applicable was equal to zero.

“Objection Notice” is defined in Section 2.4(a)(ii).

“Operating Agreement” means that certain [Eighth] Amended and Restated Limited Liability Company Agreement of XERC, dated as of the date hereof, as such agreement may be further amended, restated, supplemented or otherwise modified from time to time.

“Other TRA” means any other tax receivable agreement or any other agreement that is substantially similar in nature to a tax receivable agreement to which the Corporation or any of its Subsidiaries is a party. For the avoidance of doubt, the effect of any Other TRA shall not be taken into account in respect of any calculations made hereunder.

“Parties” means the parties named on the signature pages to this Agreement and each additional party that satisfies the Joinder Requirements, in each case with their respective successors and assigns.

“Payment” means any Tax Benefit Payment or Early Termination Payment and in each case, unless otherwise specified, refers to the entire amount of such Payment or any portion thereof.

“Permitted Transferee” means a holder of Common Units pursuant to any transfer of such Common Units permitted by the Operating Agreement.

“Person” means an individual, corporation, company, partnership (including a general partnership, limited partnership or limited liability partnership), limited liability company, association, trust or other entity or organization, including a government, domestic or foreign, or political subdivision of any government, or an agency or instrumentality of any government.

“Pre-Exchange Transfer” means any transfer (or deemed transfer) of one or more Common Units (i) that occurs prior to an Exchange of such Common Units or the Common Unit Contribution and (ii) to which Section 743(b) of the Code applies.

“Realized Tax Benefit” is defined in Section 3.1(b)(iv).

“Realized Tax Detriment” is defined in Section 3.1(b)(v).

“Recapitalization” is defined in the recitals to this Agreement.

“Reconciliation Dispute” is defined in Section 7.8(a).

“Reconciliation Procedures” is defined in Section 7.8(a).

“Redemption” is defined in the recitals to this Agreement.

“Reference Assets” means any asset of any member of the XERC Group on the relevant date of determination under this Agreement (including at the time of an Exchange). A Reference Asset also includes any asset the tax basis of which is determined, in whole or in part, by reference to the tax basis of an asset that is described in the preceding sentence, including “substituted basis property” within the meaning of Section 7701(a)(42) of the Code.

“Schedule” means any of the following: (i) an Attribute Schedule; (ii) a Tax Benefit Schedule; (iii) an Early Termination Schedule; and (iv) any Amended Schedule.

“Senior Obligations” is defined in Section 5.1.

“SOFR” means, with respect to any period, the Secured Overnight Financing Rate, as reported by the Wall Street Journal two (2) Business Days prior to the commencement of such period.

“Subordination Rate” means a per annum rate of [].

“Subsidiary” means, with respect to any Person and as of any determination date, any other Person as to which such first Person (i) owns, directly or indirectly, or otherwise controls, more than 50% of the voting power or other similar interests of such other Person or (ii) is the sole general partner interest, or managing member or similar interest, of such other Person.

“Subsidiary Stock” means any stock or other equity interest in any Subsidiary of the Corporation that is treated as a corporation for U.S. federal income tax purposes.

“Tax Benefit Payment” is defined in Section 3.1(b).

“Tax Benefit Schedule” is defined in Section 2.3(a).

“Tax Return” means any return, declaration, report or similar statement filed or required to be filed with respect to taxes (including any attached schedules), including any information return, claim for refund, amended return and declaration of estimated tax.

“Taxable Year” means a taxable year of the Corporation as defined in Section 441(b) of the Code or any similar provisions of U.S. state or local tax Law, as applicable (and, therefore, for the avoidance of doubt, may include a period of less than 12 months for which a Tax Return is filed), ending on or after the closing date of the IPO.

“Taxing Authority” means any federal, state, county, municipal or local government, or any subdivision, agency, commission or authority thereof, or any quasi-governmental body, or any other authority of any kind, exercising regulatory or other authority in relation to tax matters.

“Trading Day” means any day on which shares of Class A Common Stock are actually traded on the principal securities exchange or securities market on which shares of Class A Common Stock are then traded.

“TRA Parties” means the Exchange TRA Parties, the Blocker Shareholders and their Permitted Transferees.

“TRA Representative Approval” means written approval by the TRA Representative.

“TRA Payment Obligations” is defined in Section 5.1.

“TRA Representative” means the Initial TRA Representative; provided, however, that if the Initial TRA Representative does not continue to hold any rights to receive payments under this Agreement, then such TRA Party that holds such TRA rights at such time and holds the majority of Common Units subject to this Agreement (the number of Common Units subject to this Agreement shall be determined at such time) shall be the TRA Representative.

“Treasury Regulations” means the final, temporary and (to the extent they can be relied upon) proposed regulations under the Code, as promulgated from time to time.

“U.S.” means the United States of America.

“Units” shall have the meaning ascribed to such term in the Operating Agreement.

“Unit Purchase” is defined in the recitals to this Agreement.

“Valuation Assumptions” means, as of an Early Termination Effective Date, the assumptions that:

(i) in each Taxable Year ending on or after such Early Termination Effective Date, the Corporation will have taxable income sufficient to fully use the Covered Tax Assets (other than any such Covered Tax Assets that constitute or have resulted in net operating losses, disallowed interest expense carryforwards, or credit carryforwards or carryovers (determined as of the Early Termination Effective Date), which shall be governed by paragraph (iv) below) during such Taxable Year or future Taxable Years (including, for the avoidance of doubt, Basis Adjustments and Imputed Interest that would result from future Tax Benefit Payments that would be paid in accordance with the Valuation Assumptions) in which such deductions would become available;

(ii) the U.S. federal income tax rates that will be in effect for each such Taxable Year will be those specified for each such Taxable Year by the Code and other applicable Law as in effect on the Early Termination Effective Date, except to the extent any change to such tax rates for such Taxable Year have already been enacted into Law, and the combined U.S. state and local income and franchise tax rates shall be the Assumed State and Local Tax Rate in effect for each such Taxable Year (calculated based on apportionment factors applicable in the most recently ended Taxable Year prior to the Early Termination Effective Date);

(iii) all taxable income of the Corporation will be subject to the maximum applicable tax rates for each Covered Tax throughout the relevant period; provided, that the combined tax rate for U.S. state and local income and franchise taxes shall be the Assumed State and Local Tax Rate;

(iv) any carryovers or carrybacks of losses, credits, or disallowed interest expense generated by any Covered Tax Assets (including any Basis Adjustments or Imputed Interest generated as a result of payments made or deemed to be made under this Agreement) and available (after taking into account any applicable limitations, including Section 172(a)(2)(B) of the Code) as of the Early Termination Effective Date will be used by the Corporation ratably in each of the five consecutive Taxable Years beginning with the Taxable Year that includes the Early Termination Effective Date (but, in the case of any such carryover or carryback that has less than five remaining Taxable Years until the applicable expiration date, ratably through the scheduled expiration date of such carryover or carryback) (by way of example, if on the Early Termination Effective Date the Corporation had \$100 of net operating losses, \$20 of such net operating losses would be used in each of the five consecutive Taxable Years beginning in the Taxable Year of such Early Termination Effective Date);

(v) any non-amortizable assets (other than Subsidiary Stock) will be disposed of on the fifteenth anniversary of the Early Termination Effective Date and any Subsidiary Stock will be deemed never to be disposed of;

(vi) if, on the Early Termination Effective Date, any TRA Party has Common Units that have not been Exchanged or otherwise acquired by the Corporation as part of the Common Unit Contribution, then such Common Units shall be deemed to be Exchanged for the Market Value of the shares of Class A Common Stock or the amount of cash that would be received by such TRA Party had such Common Units actually been Exchanged on the Early Termination Effective Date;

(vii) any future payment obligations pursuant to this Agreement that are used to calculate the Early Termination Payment will be satisfied on the date that any Tax Return to which any such payment obligation relates is required to be filed excluding any extensions; and

(viii) with respect to Taxable Years ending prior to the Early Termination Effective Date, any unpaid Tax Benefit Payments and any applicable Default Rate Interest will be paid.

“Voluntary Early Termination” is defined in Section 4.2(a)(i).

“XERC” is defined in the preamble to this Agreement.

“XERC Group” means XERC and each of its direct or indirect subsidiaries that is treated as a partnership or disregarded entity for U.S. federal, and applicable state and local, income tax purposes (but excluding any such subsidiary to the extent it is directly or indirectly held by or through any entity treated as a corporation for U.S. federal, and applicable state and local, income tax purposes (other than the Corporation)).

Section 1.2. Rules of Construction. Unless otherwise specified in this Agreement:

(a) For purposes of interpretation of this Agreement:

(i) The words “herein,” “hereto,” “hereof” and “hereunder” and other words of similar import refer to this Agreement as a whole and not to any particular section or other subdivision of this Agreement.

(ii) Words denoting any gender shall include all genders, and words in the singular, including any defined terms, include the plural and vice versa.

(iii) Reference to any Person includes such Person’s successors and assigns but, if applicable, only if such successors and assigns are permitted by this Agreement, and reference to a Person in a particular capacity excludes such Person in any other capacity.

(iv) All financial accounting terms used and not otherwise defined in this Agreement have the meaning assigned to such terms in accordance with GAAP.

(v) Unless specified otherwise, references to an Article, Section or clause refer to the appropriate Article, Section or clause in this Agreement.

(vi) The term “Dollars” or character “\$” means United States dollars.

(vii) The terms “include” or “including” are by way of example and not limitation and shall be deemed followed by the words “without limitation”.

(viii) The word “if” and other words of similar import when in this Agreement means “if and only if”.

(ix) The term “or”, when used in a list of two or more items, means “and/or” and may indicate any combination of the items.

(x) The term “documents” includes any and all instruments, documents, agreements, certificates, notices, reports, financial statements and other writings, however evidenced, whether in physical or electronic form.

(b) In the computation of periods of time from a specified date to a later specified date, the word “from” means “from and including”, the words “to” and “until” each mean “to but excluding” and the word “through” means “to and including.”

(c) The Article and Section headings contained in this Agreement are solely for the purpose of reference, are not part of the agreement of the Parties and shall not in any way affect the meaning or interpretation of this Agreement.

(d) Unless otherwise expressly provided in this Agreement, (i) references to organizational documents (including the Operating Agreement), agreements (including this Agreement) and other contractual instruments shall be deemed to include all subsequent amendments, restatements, extensions, supplements and other modifications thereto, but only to the extent that such amendments, restatements, extensions, supplements and other modifications are permitted by this Agreement, and (ii) references to any Law (including the Code and the Treasury Regulations) include all statutory and regulatory provisions consolidating, amending, replacing, supplementing or interpreting such Law.

ARTICLE II

Determination of Realized Tax Benefit

Section 2.1. Basis Adjustments; XERC 754 Election.

(a) Basis Adjustments. The Parties acknowledge and agree that to the fullest extent permitted by applicable Law (i) each Redemption using cash or Class A Common Stock contributed to XERC by the Corporation shall be treated as a direct purchase of Common Units by the Corporation from the applicable Exchange TRA Party pursuant to Section 707(a)(2)(B) of the Code (or any similar provisions of applicable state or local tax Law) (i.e., equivalent to a Direct Exchange), and (ii) each (A) Exchange, (B) payment made by the Corporation (including under this Agreement, but except with respect to amounts that constitute Imputed Interest) to an Exchange TRA Party in connection with an Exchange or the Common Unit Contribution and (C) each distribution (or deemed distribution) from XERC to an Exchange TRA Party that may reasonably be treated as a transaction between the Corporation and the Exchange TRA Party pursuant to Section 707(a)(2)(B) of the Code (or any similar provisions of applicable state or local tax Law) will give rise to an increase or decrease to, or the Corporation's proportionate share of, the tax basis of the Reference Assets (which are depreciable or amortizable (including assets that will eventually be subject to depreciation or amortization, once placed in service) for U.S. federal income tax purposes or stock of a corporation or land) under Section 732, 734(b), or 743(b) or 1012 of the Code (or any similar provisions of state or local tax Law) (the "Basis Adjustments"). For purposes of determining the Corporation's proportionate share of the tax basis of the Reference Assets with respect to the Common Units transferred in an Exchange under Treasury Regulations Section 1.743-1(b) (or any similar provisions of state or local tax Law), the consideration paid by the Corporation for such Common Units shall be the Amount Realized. Notwithstanding any other provision of this Agreement, the amount of any Basis Adjustment resulting from an Exchange of one or more Common Units is to be determined as if any Pre-Exchange Transfer of such Common Units had not occurred.

(b) XERC Section 754 Election. The Corporation shall cause each of XERC and its Subsidiaries (as reasonably determined by the Corporation) that is treated as a partnership for U.S. federal income tax purposes to have in effect an election under Section 754 of the Code (or any similar provisions of applicable state or local tax Law) for each Taxable Year in which an Exchange occurs. The Corporation shall take commercially reasonable efforts to cause each Person in which XERC owns a direct or indirect equity interest (other than a Subsidiary and any Person that is directly or indirectly held by or through an entity treated as a corporation for U.S. federal, and applicable state and local, income tax purposes) that is so treated as a partnership to have in effect any such election for each Taxable Year in which an Exchange occurs.

Section 2.2. Attribute Schedules. Within one hundred and fifty (150) calendar days after the filing of the U.S. federal income Tax Return of the Corporation for each relevant Taxable Year, the Corporation shall deliver to the TRA Parties a schedule showing, in reasonable detail, (i) the Covered Tax Assets that are available for use by the Corporation with respect to such Taxable Year with respect to each TRA Party (including the Basis Adjustments with respect to the Reference Assets resulting from Exchanges, Common Unit Contribution or the Mergers effected in such Taxable Year and the periods over which such Basis Adjustments are amortizable or depreciable), (ii) the portion of the Covered Tax Assets that are available for use by the Corporation in future Taxable Years with respect to each TRA Party and (iii) any limitations on the ability of the Corporation to utilize any Covered Tax Assets under applicable Laws (including as a result of the operation of Section 382 of the Code or Section 383 of the Code) (such schedule, an "Attribute Schedule"). An Attribute Schedule will become final and binding on the Parties pursuant to the procedures set forth in Section 2.4(a) and may be amended by the Parties pursuant to the procedures set forth in Section 2.4(b).

Section 2.3. Tax Benefit Schedules.

(a) Tax Benefit Schedule. Within one hundred and fifty (150) calendar days after the filing of the U.S. federal income Tax Return of the Corporation for any Taxable Year in which there is a Realized Tax Benefit or Realized Tax Detriment Attributable to a TRA Party, the Corporation shall provide to such TRA Party a schedule showing, in reasonable detail, the calculation of the Realized Tax Benefit or Realized Tax Detriment for such Taxable Year (a “Tax Benefit Schedule”). A Tax Benefit Schedule will become final and binding on the Parties pursuant to the procedures set forth in Section 2.4(a) and may be amended by the Parties pursuant to the procedures set forth in Section 2.4(b).

(b) Applicable Principles. Subject to the provisions hereunder, the Realized Tax Benefit or Realized Tax Detriment for each Taxable Year is intended to measure the decrease or increase in the Actual Tax Liability of the Corporation for such Taxable Year attributable to the Covered Tax Assets, as determined using a “with and without” methodology. Carryovers or carrybacks of any tax item attributable to any of the Covered Tax Assets shall be considered to be subject to the rules of the Code and the Treasury Regulations, and the appropriate provisions of state and local tax Law, governing the use, limitation or expiration of carryovers or carrybacks of the relevant type. If a carryover or carryback of any tax item includes a portion that is attributable to any Covered Tax Assets (a “TRA Portion”) and another portion that is not attributable to any Covered Tax Assets (a “Non-TRA Portion”), such portions shall be considered to be used in accordance with the “with and without” methodology so that the amount of any Non-TRA Portion is deemed utilized first, followed by the amount of any TRA Portion (with the TRA Portion being applied on a proportionate basis consistent with the provisions of Section 3.3(a)). In accordance with [Section 5.04(b)] of the Operating Agreement, any revaluation of the Book Value (as defined in the Operating Agreement) of any property of XERC in connection with the IPO shall be determined pursuant to Treasury Regulations Section 1.704-1(b)(2)(iv)(f) (computed in accordance with the definition of Book Value) using the [“traditional method with curative allocations limited to back end gain on sale.”]

Section 2.4. Procedures; Amendments.

(a) Procedures. Each time the Corporation delivers a Schedule to the TRA Parties under this Agreement, the Corporation shall, with respect to such Schedule, also (i) deliver to the TRA Representatives supporting schedules and work papers, as reasonably requested by any TRA Representative, that provide a reasonable level of detail regarding relevant data and calculations and (ii) allow the TRA Representatives and their advisors to have reasonable access to the appropriate representatives, as reasonably requested by the TRA Representatives, at the Corporation or the Advisory Firm in connection with a review of relevant information. A Schedule will become final and binding on the TRA Parties thirty (30) calendar days from the date on which the TRA Parties first received the applicable Schedule unless (x) a TRA Representative, within such period, provides the Corporation with written notice of a material objection (made in good faith) to such Schedule and sets forth in reasonable detail such TRA Representative’s material objection (an “Objection Notice”) or (y) the TRA Representative provides a written waiver of its right to deliver an Objection Notice within such period, in which such Schedule becomes binding on the date the waiver from the TRA Representative is received. If the Parties, for any reason, are unable to resolve the issues raised in an Objection Notice within thirty (30) calendar days after receipt by the Corporation of the Objection Notice, the Corporation and the applicable TRA Representative shall employ the Reconciliation Procedures described in Section 7.8 and the finalization of the Schedule will be conducted in accordance therewith.

(b) Amended Schedule. A Schedule (other than an Early Termination Schedule) for any Taxable Year may only and shall be amended from time to time by the Corporation (i) in connection with a Determination affecting such Schedule, (ii) to correct material inaccuracies in such Schedule identified as a result of the receipt of additional factual information relating to a Taxable Year after the date such Schedule was originally provided to the TRA Parties, (iii) to comply with an Expert's determination under the Reconciliation Procedures, (iv) to reflect a change in the Realized Tax Benefit or Realized Tax Detriment for such Taxable Year attributable to a carryover or carryback of a loss or other tax item to such Taxable Year or (v) to reflect a change in the Realized Tax Benefit or Realized Tax Detriment for such Taxable Year attributable to an amended Tax Return filed for such Taxable Year (any such Schedule in its amended form, an "Amended Schedule"). The Corporation shall provide any Amended Schedule to the applicable TRA Parties within sixty (60) calendar days of the occurrence of an event referred to in any of clauses (i) through (v) of the preceding sentence, and the delivery and finalization of any such Amended Schedule shall, for the avoidance of doubt, be subject to the procedures described in Section 2.4(a).

ARTICLE III

Tax Benefit Payments

Section 3.1. Timing and Amount of Tax Benefit Payments.

(a) Timing of Payments. Subject to Sections 3.2 and 3.3, by the date that is five (5) Business Days following the date on which each Tax Benefit Schedule becomes final in accordance with Section 2.4(a) (such date, the "Final Payment Date" in respect of any Tax Benefit Payment), the Corporation shall pay in full to each relevant TRA Party the Tax Benefit Payment as determined pursuant to Section 3.1(b). Each such Tax Benefit Payment shall be made by wire transfer of immediately available funds to a bank account or accounts designated by such TRA Party. For the avoidance of doubt, no TRA Party shall be required under any circumstances to return any Payment or any Default Rate Interest paid by the Corporation to such TRA Party.

(b) Amount of Payments. For purposes of this Agreement, a "Tax Benefit Payment" with respect to any TRA Party means an amount equal to the sum of the Net Tax Benefit that is Attributable to such TRA Party plus the Interest Amount with respect thereto and minus any TRA Accounting and Legal Expenses that have not previously been taken into account in the determination of a Tax Benefit Payment as of the end of such Taxable Year. No Tax Benefit Payment shall be calculated or made in respect of any estimated tax payments, including any estimated U.S. federal income tax payments.

(i) Attributable. A Net Tax Benefit is “Attributable” to a TRA Party in accordance with the following principles:

(A) any Blocker Transferred Basis is Attributable to the Blocker Shareholders in accordance with such Blocker Shareholders’ proportionate ownership of the total equity interests of the Blocker Corporation immediately prior to the Mergers;

(B) any Existing Basis shall be determined separately with respect to each Exchange TRA Party and is Attributable to an Exchange TRA Party based on such Exchange TRA Party’s relative pro rata share in accordance with percentage interest of Common Units held immediately after the IPO or, in the case of a Subsequent Capital Contribution, immediately prior to such Subsequent Capital Contribution;

(C) any Exchange Existing Basis shall be determined separately with respect to each Exchange TRA Party and is Attributable to each TRA Party to the extent it is attributable to Common Units that were transferred in an Exchange or the Common Unit Contribution by such TRA Party;

(D) any Basis Adjustments shall be determined separately with respect to each TRA Party and are Attributable to each TRA Party in an amount equal to the total Basis Adjustment relating to Common Units delivered to the Corporation by such TRA Party in the Exchange or the Common Unit Contribution or such total Basis Adjustment attributable to any distribution (or deemed distribution) to such TRA Party; and

(E) any deduction to the Corporation in respect of Imputed Interest is Attributable to the TRA Party that is required to include the Imputed Interest in income (without regard to whether such Person is actually subject to tax thereon).

(ii) Net Tax Benefit. The “Net Tax Benefit” with respect to a TRA Party for a Taxable Year equals the amount of the excess, if any, of (A) 85% of the Cumulative Net Realized Tax Benefit Attributable to such TRA Party as of the end of such Taxable Year over (B) the aggregate amount of all Tax Benefit Payments previously made to such TRA Party under this Section 3.1 (excluding payments attributable to Interest Amounts).

(iii) Cumulative Net Realized Tax Benefit. The “Cumulative Net Realized Tax Benefit” for a Taxable Year equals the cumulative amount of Realized Tax Benefits for all Taxable Years of the Corporation up to and including such Taxable Year, net of the cumulative amount of Realized Tax Detriments for the same period. The Realized Tax Benefit and Realized Tax Detriment for each Taxable Year shall be determined based on the most recent Tax Benefit Schedule or Amended Schedule, if any, in existence at the time of such determination.

(iv) Realized Tax Benefit. The “Realized Tax Benefit” for a Taxable Year equals the excess, if any, of the Hypothetical Tax Liability over the Actual Tax Liability for such Taxable Year. If all or a portion of the Actual Tax Liability for such Taxable Year arises as a result of an audit or similar proceeding by a Taxing Authority of any Taxable Year, such liability and the corresponding impact on the Hypothetical Tax Liability as a result of such audit or similar proceeding, if applicable, shall not be included in determining the Realized Tax Benefit unless and until there has been a Determination.

(v) Realized Tax Detriment. The “Realized Tax Detriment” for a Taxable Year equals the excess, if any, of the Actual Tax Liability over the Hypothetical Tax Liability for such Taxable Year. If all or a portion of the Actual Tax Liability for such Taxable Year arises as a result of an audit or similar proceeding by a Taxing Authority of any Taxable Year, such liability and the corresponding impact on the Hypothetical Tax Liability as a result of such audit or similar proceeding, if applicable, shall not be included in determining the Realized Tax Detriment unless and until there has been a Determination.

(vi) Interest Amount. The “Interest Amount” in respect of a TRA Party equals interest on the unpaid amount of the Net Tax Benefit with respect to such TRA Party for a Taxable Year, calculated at the Agreed Rate from the due date (without extensions) for filing the U.S. federal income Tax Return of the Corporation for such Taxable Year until the earlier of (A) the date on which no remaining Tax Benefit Payment to the TRA Party is due in respect of such Net Tax Benefit and (B) the applicable Final Payment Date.

(vii) “TRA Accounting and Legal Expenses” means the Corporation’s and XERC’s reasonable and documented accounting and legal expenses payable to any applicable nationally-recognized accounting firm and nationally-recognized law firm, as well as its reasonable allocation of internal accounting costs incurred, in connection with the administration of this Agreement. For these purposes, such amount is allocated among the TRA Parties in the same proportion to the respective Tax Benefit Payments to be paid under Section 3.1(a) (not taking into consideration any allocable TRA Accounting and Legal Expenses for such Taxable Year) bears to the total amount of Tax Benefit Payments to be paid to all TRA Parties under Section 3.1(a). Any TRA Accounting and Legal Expenses shall be carried forward to the following Taxable Year to the extent such TRA Accounting and Legal Expenses are not taken into account in the final determination of the Tax Benefit Payment for such Taxable Year because the Tax Benefit Payment due for such Taxable Year (determined without regard to TRA Accounting and Legal Expenses) is less than the amount of TRA Accounting and Legal Expenses for such Taxable Year (including any carried forward amounts). For the avoidance of doubt, no expenses incurred in connection with or attributable to the IPO shall be included in TRA Accounting and Legal Expenses.

(viii) The TRA Parties acknowledge and agree that, as of the date of this Agreement and the date of the Common Unit Contribution, the Mergers or any future Exchange that may be subject to this Agreement, the aggregate value of the Tax Benefit Payments cannot be reasonably ascertained for U.S. federal income or other applicable tax purposes. Notwithstanding anything to the contrary in this Agreement, unless a TRA Party notifies the Corporation otherwise, the stated maximum selling price (within the meaning of Treasury Regulations Section 15A.453-1(c)(2)) with respect to (A) with respect to any transfer of Common Units by an Exchange TRA Party pursuant to the Common Unit Contribution shall not exceed the sum of (I) the value of the Class A Common Stock delivered to the Exchange TRA Party in the Common Unit Contribution plus (II) [●%] of the Covered Tax Assets relating to the Common Unit Contribution, and the aggregate Payments under this Agreement to such Exchange TRA Party (other than amounts accounted for as interest under the Code) in respect of the Covered Tax Assets relating to the Common Unit Contribution shall not exceed the amount described in this clause (A)(II) and (B) any transfer of Common Units by an Exchange TRA Party pursuant to an Exchange shall not exceed the sum of (I) the value of the Class A Common Stock or the amount of cash delivered to the Exchange TRA Party, in each case, in the Exchange plus (II) the product of (1) the highest marginal federal income tax rate applicable to corporations in effect for the taxable year of such Exchange plus the Assumed State and Local Tax Rate for the taxable year of such Exchange and (2) [85%] of the Existing Basis that is Attributable to Exchange TRA Party and allocable to the Exchange and the Covered Tax Assets relating to the Exchange, and the aggregate Payments under this Agreement to such Exchange TRA Party (other than amounts accounted for as interest under the Code) in respect of the Covered Tax Assets relating to the Exchange shall not exceed the amount described in this clause (B)(II) and (C) with respect to the Mergers (including amounts payable to the Blocker Shareholder pursuant to this Agreement) shall not exceed sum of (I) the value of the Class A Common Stock delivered to the Blocker Shareholders in the Mergers on the closing date of such Mergers, (II) the amount of cash, if any, delivered to the Blocker Shareholders in the Mergers plus (III) the product of (1) the highest marginal federal income tax rate applicable to corporations in effect for the taxable year of such Exchange plus the Assumed State and Local Tax Rate for the taxable year of such Exchange and (2) [●%] of the sum of the Blocker Tax Attributes, and the aggregate Payments under this Agreement to such Blocker Shareholders (other than amounts accounted for as interest under the Code) shall not exceed the amount described in this clause (C)(III).

Section 3.2. No Duplicative Payments. It is intended that the provisions hereunder will not result in the duplicative payment of any amount that may be required under this Agreement, and the provisions hereunder shall be consistently interpreted and applied in accordance with that intent.

Section 3.3. Pro-Ration of Payments as Between the TRA Parties.

(a) Insufficient Taxable Income. Notwithstanding anything in Section 3.1(b) to the contrary, if the aggregate potential Covered Tax benefit of the Corporation as calculated with respect to the Covered Tax Assets (in each case, without regard to the Taxable Year of origination) is limited in a particular Taxable Year because the Corporation does not have sufficient actual taxable income, then the available Covered Tax benefit for the Corporation shall be allocated among the TRA Parties in proportion to the respective Tax Benefit Payments that would have been payable if the Corporation had sufficient taxable income. For example, if the Corporation had \$200 of aggregate potential Covered Tax benefits with respect to the Covered Tax Assets in a particular Taxable Year (with \$50 of such Covered Tax benefits Attributable to TRA Party A and \$150 Attributable to TRA Party B), such that TRA Party A would have been entitled to a Tax Benefit Payment of \$42.50 and TRA Party B would have been entitled to a Tax Benefit Payment of \$127.50 if the Corporation had sufficient actual taxable income, and if the Corporation instead had insufficient actual taxable income in such Taxable Year, such that the Covered Tax benefit was limited to \$100, then \$25 of the aggregate \$100 actual Covered Tax benefit for the Corporation for such Taxable Year would be allocated to TRA Party A and \$75 would be allocated to TRA Party B, such that TRA Party A would receive a Tax Benefit Payment of \$21.25 and TRA Party B would receive a Tax Benefit Payment of \$63.75.

(b) Late Payments. If for any reason the Corporation is not able to fully satisfy its payment obligations to make all Tax Benefit Payments due in respect of a particular Taxable Year, then (i) Default Rate Interest will accrue pursuant to Section 5.2, (ii) the Corporation shall pay the available amount of such Tax Benefit Payments (and any applicable Default Rate Interest) in respect of such Taxable Year to each TRA Party pro rata in accordance with Section 3.3(a) and (iii) no Tax Benefit Payment shall be made in respect of any Taxable Year until all Tax Benefit Payments (and any applicable Default Rate Interest) to all TRA Parties in respect of all prior Taxable Years have been made in full. Notwithstanding the preceding sentence, for the avoidance of doubt, the Default Rate shall not apply (and the Agreed Rate shall apply) in such certain circumstances described in the second proviso to third sentence of Section 4.1(c) and Section 5.2. Notwithstanding anything herein to the contrary, no interest shall accrue with respect to the delay of any payments as a result of a Reconciliation Dispute pursuant to Section 7.8.

Section 3.4. Overpayments. Subject to the procedures described in Section 2.4(a), to the extent the Corporation makes a payment to a TRA Party in respect of a particular Taxable Year under Section 3.1(a) in an amount in excess of the amount of such payment that should have been made to such TRA Party in respect of such Taxable Year (taking into account Section 3.3) under the terms of this Agreement, then such TRA Party shall not receive further payments under Section 3.1(a) or Section 4.3(a) until such TRA Party has foregone an amount of payments equal to such excess; provided, that for the avoidance of the doubt, no TRA Party shall be required to return any Payment or any interest paid by the Corporation to such TRA Party.

ARTICLE IV

Termination

Section 4.1. Early Termination of Agreement; Acceleration Events.

(a) Corporation's Early Termination Right. With the written approval of a majority of the Independent Directors, the Corporation may terminate this Agreement, as and to the extent provided herein, by paying in full each and every TRA Party the Early Termination Payment (along with any applicable Default Rate Interest) due to such TRA Party.

(b) Change of Control. In the event of a Change of Control, this Agreement shall not terminate and, for the avoidance of doubt, shall not result in any rights or obligations with respect to any Early Termination Payment; provided, however, that a majority of the Independent Directors may approve in writing to terminate this Agreement in accordance with Section 7.5(b) upon such Change of Control under the terms and conditions (including payment obligations, if any) determined in the sole judgement of such Independent Directors. In the event of a Change of Control, all obligations hereunder shall be calculated (i) utilizing the Valuation Assumptions by substituting in each case the terms "the closing date of a Change of Control" in each place where the phrase "Early Termination Effective Date" appears and (ii) if, at the time of the Change of Control, there are Common Units that have not been Exchanged, then each such Common Unit, shall be deemed Exchanged for the Market Value of the Class A Common Stock and the amount of cash that would be transferred if the Exchange occurred at the time of the Change of Control.

(c) Breach of Agreement. In the event of a Material Breach that has not been cured prior to the due date of the Tax Return (including extensions) of the Corporation for the Taxable Year in which such Material Breach occurred, all Tax Benefit Payments shall be calculated utilizing the Valuation Assumptions; *provided that*, (i) if such Material Breach is cured prior to the due date of the Tax Return (including extensions) of the Corporation for the Taxable Year in which such Material Breach occurred, then the Valuation Assumptions shall not apply and the Tax Benefit Payments shall be calculated pursuant to this Agreement as if such Material Breach had not occurred and (ii) if such Material Breach is cured after such date, then the Valuation Assumptions shall no longer apply with respect to any Tax Benefit Payments for any Taxable Year that includes or ends after the date of such cure. Subject to the next sentence, the Corporation's failure to make a Payment (along with any applicable interest) within ninety (90) calendar days of the applicable Final Payment Date shall be deemed to constitute a Material Breach. To the extent that any Tax Benefit Payment is not made by the date that is ninety (90) calendar days after the relevant Final Payment Date because the Corporation (i) is prohibited from making such payment under Section 5.1 or the terms of any agreement governing any Senior Obligations or (ii) does not have, and cannot take commercially reasonable actions to obtain, sufficient funds to make such payment, such failure to make a Tax Benefit Payment will not constitute a Material Breach; *provided that* (A) such payment obligation nevertheless [will accrue Default Rate Interest for the benefit of the TRA Parties in accordance with Section 5.2, provided that the Default Rate shall be replaced by the Subordination Rate], (B) the Corporation shall promptly (and in any event, within five (5) Business Days) pay the entirety of the unpaid amount (along with any applicable interest) once the Corporation is not prohibited from making such payment under Section 5.1 or the terms of the agreements governing the Senior Obligations and the Corporation has sufficient funds to make such payment and (C) the failure of the Corporation to comply with the foregoing clause (B) will constitute a Material Breach. For the avoidance of doubt, all cash and cash equivalents used or to be used by the Corporation to pay distributions to its stockholders or to repurchase capital stock of the Corporation (including Class A Common Stock) shall be deemed to be funds available to pay Tax Benefit Payments (along with any applicable interest). The Corporation shall use commercially reasonable efforts to maintain sufficient available funds for the purpose of making Tax Benefit Payments under this Agreement.

(d) In the case of a termination pursuant to the foregoing paragraphs (a), upon the Corporation's payment in full of the Early Termination Payment (along with any applicable Default Rate Interest) to each TRA Party, the Corporation shall have no further payment obligations under this Agreement other than with respect to any Tax Benefit Payments (along with any applicable Default Rate Interest) in respect of any Taxable Year ending prior to the Early Termination Effective Date, and such payment obligations shall survive the termination of, and be calculated and paid in accordance with, this Agreement. If an Exchange subsequently occurs with respect to Common Units for which the Corporation has paid the Early Termination Payment in full, the Corporation shall have no obligations under this Agreement with respect to such Exchange.

Section 4.2. Early Termination Notice.

(a) If (i) the Corporation chooses to exercise its termination right under Section 4.1(a) ("Voluntary Early Termination") or (ii) a Material Breach occurs, the Corporation shall, in each case, deliver to the TRA Parties a reasonably detailed notice of the Corporation's decision to exercise such right or the occurrence of such event, as applicable (an "Early Termination Notice"). In the case of an Early Termination Notice delivered with respect to a Voluntary Early Termination, the Corporation may withdraw such Early Termination Notice and rescind its Voluntary Early Termination at any time prior to the time at which any Early Termination Payment is paid and the terms of this Agreement shall apply as if such Early Termination Notice had never been delivered.

(b) The Corporation shall deliver a schedule showing in reasonable detail the calculation of the Early Termination Payment (an "Early Termination Schedule") (i) in case of a Voluntary Early Termination, simultaneously with the delivery of an Early Termination Notice or (ii) in the case of a termination pursuant to Section 4.1(c), as soon as reasonably practicable following the occurrence of the Material Breach giving rise to such termination. The date on which such Early Termination Schedule becomes final in accordance with Section 2.4(a) shall be the "Early Termination Reference Date".

Section 4.3. Payment upon Early Termination.

(a) Timing of Payment. By the date that is five (5) Business Days after the Early Termination Reference Date (such date, the "Final Payment Date" in respect of the Early Termination Payment), the Corporation shall pay in full to each TRA Party an amount equal to the Early Termination Payment applicable to such TRA Party. Such Early Termination Payment shall be made by the Corporation by wire transfer of immediately available funds to a bank account or accounts designated by the applicable TRA Party.

(b) Amount of Payment. The “Early Termination Payment” payable to a TRA Party pursuant to Section 4.3(a) shall equal the present value, discounted at the Agreed Rate and determined as of the Early Termination Reference Date, of all Tax Benefit Payments (other than any Tax Benefit Payments in respect of Taxable Years ending prior to the Early Termination Effective Date) that would be required to be paid by the Corporation to such TRA Party, beginning from the Early Termination Effective Date and using the Valuation Assumptions. For the avoidance of doubt, an Early Termination Payment shall be made to each TRA Party in accordance with this Agreement, regardless of whether a TRA Party has Exchanged all of its Common Units as of the Early Termination Effective Date.

ARTICLE V

Subordination and Late Payments

Section 5.1. Subordination. Notwithstanding any other provision of this Agreement to the contrary, any payment required to be made by the Corporation to the TRA Parties under this Agreement (the “TRA Payment Obligations”) shall be contractually subordinate and junior in right of payment to any principal, interest, premium, fees, expenses, indemnification obligations or other amounts due and payable in respect of (a) any obligations owed in respect of secured or unsecured indebtedness for borrowed money of the Corporation or any of its Subsidiaries (other than, for the avoidance of doubt, any trade payables, intercompany debt or other similar obligations), (b) any guarantee by the Corporation or any of its Subsidiaries of any obligations described in clause (a), and (c) any refinancing, extension, renewal or replacement of any obligation described in clauses (a) or (b) (collectively “Senior Obligations”) and shall rank *pari passu* in right of payment with all current or future unsecured obligations of the Corporation that are not Senior Obligations. For the avoidance of doubt, nothing in this Agreement shall prohibit the Corporation from entering into Senior Obligations, including Senior Obligations in which the TRA Payment Obligations are deemed to be restricted payments under such agreements. Any Tax Benefit Payment or Early Termination Payment required to be made by the Corporation to the TRA Parties under this Agreement shall rank senior in right of payment to any principal, interest, or other amounts due and payable in respect of any Other TRA. The effect of any Other TRA shall not be taken into account in respect of any calculations made hereunder.

Section 5.2. Late Payments by the Corporation. Subject to Section 4.1(c), the amount of any Payment not made to any TRA Party by the applicable Final Payment Date shall be payable together with “Default Rate Interest,” calculated at the Default Rate and accruing on the amount of the unpaid Payment from the applicable Final Payment Date until the date on which the Corporation makes such Payment to such TRA Party.

ARTICLE VI

Tax Matters; Consistency; Cooperation

Section 6.1. Participation in the Corporation's and XERC's Tax Matters. Except as otherwise provided herein or in Article IX of the Operating Agreement, the Corporation shall have full responsibility for, and sole discretion over, all tax matters concerning the Corporation and XERC, including preparing, filing or amending any Tax Return and defending, contesting or settling any issue pertaining to taxes; *provided, however*, that the Corporation shall not settle any issue pertaining to Covered Tax Assets that is reasonably expected to materially adversely affect the TRA Parties' rights and obligations under this Agreement without the consent of the TRA Representatives, such consent not to be unreasonably withheld, conditioned or delayed. If the TRA Representatives fail to respond to any notice with respect to the settlement of any such issue within thirty (30) calendar days of its receipt of the applicable notice, the TRA Representatives shall be deemed to have consented to the proposed settlement or other disposition. Notwithstanding the foregoing, (i) the Corporation shall notify the TRA Representatives of, and keep them reasonably informed with respect to, the portion of any audit by any Taxing Authority of the Corporation, XERC or any of XERC's Subsidiaries, the outcome of which is reasonably expected to materially and adversely affect the TRA Parties' rights and obligations under this Agreement, including the timing of anticipated Tax Benefit Payments and (ii) the TRA Representatives shall each have the right to participate in and to monitor at their own expense (but, for the avoidance of doubt, not to control) any such issue in any such tax audit. To the extent there is a conflict between this Agreement and the Operating Agreement as it relates to tax matters concerning Covered Taxes and the Corporation and XERC, including preparation, filing or amending of any Tax Return and defending, contesting or settling any issue pertaining to taxes, this Agreement shall control.

Section 6.2. Consistency. Except upon the written advice of the Advisory Firm, all calculations and determinations made hereunder, including any Basis Adjustments, the Schedules and the determination of any Realized Tax Benefits or Realized Tax Detriments, shall be made in accordance with the elections, methodologies and positions taken by the Corporation and applicable members of the XERC Group on their respective Tax Returns. Each TRA Party shall prepare its Tax Returns in a manner consistent with the terms of this Agreement and any related calculations or determinations made hereunder, including the terms of Section 2.1 and the Schedules provided to each such TRA Party, except as otherwise required by applicable Law. In the event that an Advisory Firm is replaced with another Advisory Firm acceptable to the Audit Committee, the TRA Parties shall cause such replacement Advisory Firm to perform its services necessitated by this Agreement using procedures and methodologies consistent with those of the previous Advisory Firm, unless otherwise required by applicable Law or unless the Corporation and all of the TRA Representatives agree to the use of other procedures and methodologies.

Section 6.3. Cooperation.

(a) Each TRA Party shall (i) furnish to the Corporation in a timely manner such information, documents and other materials as the Corporation may reasonably request for purposes of making any determination or computation necessary or appropriate under this Agreement, preparing any Tax Return of XERC or any of its Subsidiaries or contesting or defending any related audit, examination or controversy with any Taxing Authority, (ii) make itself available to the Corporation and its representatives to provide explanations of documents and materials and such other information as the Corporation or its representatives may reasonably request in connection with any of the matters described in clause (i) above and (iii) reasonably cooperate in connection with any such matter. Upon the request of any TRA Party, the Corporation shall use commercially reasonable efforts to execute and provide such documents and otherwise cooperate in taking any action reasonably requested by such TRA Party in connection with its tax or financial reporting and/or the consummation of any assignment or transfer of any of its rights and/or obligations under this Agreement.

ARTICLE VII

Miscellaneous

Section 7.1. Notices. All notices, consents, waivers and other communications under this Agreement shall be in writing and shall be deemed to have been duly given: (i) when delivered, if delivered in person; (ii) when sent, if sent by electronic mail or other electronic means (provided that no “bounce back” or similar message is received); (iii) one Business Day after being sent, if sent by reputable, nationally recognized overnight courier service; or (iv) three Business Days after being mailed, if sent by registered or certified mail, pre-paid and return receipt requested, to the applicable Party at the following addresses (or at such other address for a Party as shall be specified by like notice):

If to the Corporation, to:

X-energy, Inc.
801 Thompson Avenue, Suite 400
Rockville, MD 20852
Attn: [●]
Email: [●]

With a copy (which will not constitute notice) to:

Latham & Watkins LLP
555 Eleventh Street, NW, Suite 1000
Washington, D.C. 20004
Attn: Paul Sheridan; Ian Schuman; John Slater
Email: paul.sheridan@lw.com; ian.schuman@lw.com; john.slater@lw.com

If to any TRA Party, to the address and e-mail address specified on such TRA Party's signature page to the applicable Joinder or otherwise on file with the Corporation or XERC.

Any Party may change its address or e-mail address by giving each of the other Party written notice thereof in the manner set forth above.

Section 7.2. Counterparts. This Agreement may be executed and delivered (including by electronic transmission) in one or more counterparts, each of which shall be deemed an original but all of which taken together shall constitute one and the same instrument. This Agreement shall become effective when one or more counterparts have been signed by each of the TRA Parties and delivered to the other TRA Parties, it being understood that all TRA Parties need not sign the same counterpart.

Section 7.3. Entire Agreement; No Third-Party Beneficiaries. This Agreement and the documents or instruments referred to in this Agreement, including any exhibits attached, which exhibits are incorporated by reference, embody the entire agreement and understanding of the Parties in respect of the subject matter contained in this Agreement. There are no restrictions, promises, representations, warranties, covenants or undertakings, other than those expressly set forth or referred to in this Agreement or the documents or instruments referred to in this Agreement, which collectively supersede all prior agreements and the understandings among the Parties with respect to the subject matter contained in this Agreement. Nothing contained in this Agreement or in any instrument or document executed by any party in connection with this Agreement shall create any rights in, or be deemed to have been executed for the benefit of, any Person that is not a Party or a successor or permitted assign of such a Party.

Section 7.4. Severability. In case any provision in this Agreement shall be held invalid, illegal or unenforceable by any court of competent jurisdiction, such provision shall be modified or deleted, as to the jurisdiction involved, only to the extent necessary to render the same valid, legal and enforceable. The validity, legality and enforceability of the remaining provisions hereof shall not in any way be affected or impaired nor shall the validity, legality or enforceability of such provision be affected in any other jurisdiction. Upon such determination that any term or other provision is invalid, illegal or incapable of being enforced, the Parties will substitute for any invalid, illegal or unenforceable provision a suitable and equitable provision that carries out, so far as may be valid, legal and enforceable, the intent and purpose of such invalid, illegal or unenforceable provision.

Section 7.5. Assignments; Amendments; Successors; No Waiver.

(a) Assignment. [Each TRA Party may assign any of its rights under this Agreement to (i) any transferee of Common Units beneficially owned by such TRA Party in a transfer permitted by the Operating Agreement or (ii) to an Affiliate of such TRA Party, in each case, so long as such assignee executes and delivers a Joinder agreeing to succeed to the applicable portion of such TRA Party's interest in this Agreement and to become a Party for all purposes of this Agreement (the joinder requirement in this sentence, the "Joinder Requirement").] No TRA Party may assign, sell, pledge or otherwise alienate or transfer any interest in this Agreement, including the right to receive any payments under this Agreement, to any Person without (i) such Person fulfilling the Joinder Requirement and (ii) except with respect to an assignment pursuant to the preceding sentence, the express prior written consent of the Corporation (not to be unreasonably withheld, conditioned, or delayed except that the Corporation may withhold, condition, or delay its consent in its sole discretion to any transfer by a TRA Party (x) if the TRA Party is an original signatory to this Agreement and that TRA Party seeks to transfer a portion of its rights, in the aggregate, to more than [five] transferees, or (y) if the TRA Party is not an original signatory to this Agreement and that TRA Party seeks to transfer less than all of its rights (the requirement in this clause (ii), the "Consent Requirement"). Any purported assignment without the Joinder Requirement and, except with respect to an assignment pursuant the first sentence of this Section 7.5, the Consent Requirement shall be null and void. For the avoidance of doubt, if a TRA Party transfers Common Units in accordance with the terms of the Operating Agreement but does not assign to the transferee of such Common Units its rights under this Agreement with respect to such transferred Common Units, such TRA Party shall continue to be entitled to receive the Tax Benefit Payments arising in respect of a subsequent Exchange of such Common Units (and any such transferred Common Units shall be separately identified, so as to facilitate the determination of payments hereunder). The Corporation may not assign any of its rights or obligations under this Agreement to any Person without TRA Party Approval (and any purported assignment without such consent shall be null and void).

(b) Amendments. No provision of this Agreement may be amended unless such amendment is approved in writing by the Corporation with the approval of the TRA Representative; provided further that, to the extent any amendment would materially, adversely and disproportionately affect a TRA Party with respect to any rights under this Agreement, such amendment shall require the written approval of such affected TRA Party. For the avoidance of doubt, a TRA Party shall not be deemed to be materially, adversely and disproportionately affected solely by reason of having delivered Covered Tax Assets in different quantities or at different times compared to other TRA Parties.

(c) Successors. Except as provided in Section 7.5(a), all of the terms and provisions hereunder shall be binding upon, and shall inure to the benefit of and be enforceable by, the Parties and their respective successors, assigns, heirs, executors, administrators and legal representatives. The Corporation shall require and cause any direct or indirect successor (whether by equity purchase, merger, consolidation or otherwise) to all or substantially all of the business or assets of the Corporation, by written agreement, expressly to assume and agree to perform this Agreement in the same manner and to the same extent that the Corporation would be required to perform if no such succession had taken place.

(d) Waiver. No provision of this Agreement may be waived unless such waiver is in writing and signed by the Party against whom the waiver is to be effective. No failure by any Party to insist upon the strict performance of any covenant, duty, agreement or condition of this Agreement, or to exercise any right or remedy consequent upon a breach thereof, shall constitute a waiver of any such breach or any other covenant, duty, agreement or condition.

Section 7.6. Resolution of Disputes; Governing Law.

(a) Except for Reconciliation Disputes subject to Section 7.7, any and all disputes which cannot be settled after good faith negotiation within sixty (60) calendar days, including any ancillary claims of any Party, arising out of, relating to or in connection with the validity, negotiation, execution, interpretation, performance or non-performance of this Agreement (including the validity, scope and enforceability of this Section 7.6 or Section 7.7) (each, a “Dispute”) shall be finally resolved by arbitration in accordance with the International Institute for Conflict Prevention and Resolution Rules for Non-Administered Arbitration by the majority vote of a panel of three arbitrators, of which the Corporation shall designate one arbitrator and the TRA Parties that are party to such Dispute shall designate one arbitrator, in each case in accordance with the “screened” appointment procedure provided in Resolution Rule 5.4. In addition to monetary damages, the arbitrators shall be empowered and permitted to award equitable relief, including an injunction and specific performance of any obligation under this Agreement. The arbitrators are not empowered to award damages in excess of compensatory damages, and each TRA Party hereby irrevocably waives any right to recover punitive, exemplary or similar damages with respect to any Dispute. Any award shall be the sole and exclusive remedy between the TRA Parties regarding any claims, counterclaims, issues or accounting presented to the arbitrators. The arbitration shall be governed by the Federal Arbitration Act, 9 U.S.C. §§ 1 *et seq.*, and judgment upon the award rendered by the arbitrators may be entered by any court having jurisdiction thereof. The place of the arbitration shall be New York, New York.

(b) Notwithstanding the provisions of paragraph (a) above, any Party may bring an action or special proceeding in any court of competent jurisdiction for the purpose of compelling another Party to arbitrate, seeking temporary or preliminary relief in aid of an arbitration hereunder or enforcing an arbitration award and, for the purposes of this paragraph (b), each Party (i) expressly consents to the application of paragraphs (c) and (d) of this Section 7.6 to any such action or proceeding and (ii) agrees that proof shall not be required that monetary damages for breach of the provisions hereunder would be difficult to calculate and that remedies at law would be inadequate.

(c) This Agreement, and all claims or causes of action based upon, arising out of, or related to this Agreement, shall be governed by, and construed in accordance with, in all respects, including as to validity, interpretation and effect, the Laws of the State of Delaware, applicable to contracts entered into and to be performed solely within such state, without giving effect to principles or rules of conflict of Laws to the extent such principles or rules would require or permit the application of Laws of another jurisdiction.. Subject to this Section 7.6 and Section 7.7, the Parties agree that any suit or proceeding in connection with, arising out of or relating to this Agreement must be brought in the Court of Chancery of the State of Delaware and any State of Delaware appellate court therefrom (or, but only to the extent the Court of Chancery declines to accept jurisdiction over a particular matter, any state or federal court within the State of Delaware). Each of the Parties irrevocably: (i) submits to the exclusive jurisdiction of each such court in any such suit or proceeding; (ii) waives any objection it may now or hereafter have to personal jurisdiction, venue or to convenience of forum; (iii) agrees that all claims in respect of the suit or proceeding shall be heard and determined only in any such court; and (iv) agrees not to bring any suit or proceeding arising out of or relating to this Agreement or the transactions contemplated by this Agreement in any other court. Nothing in this Agreement shall be deemed to affect the right of any party to serve process in any manner permitted by Law or to commence a suit or proceeding or otherwise proceed against any other party in any other jurisdiction, in each case, to enforce judgments obtained in any suit or proceeding brought pursuant to this Section 7.6(c).

(d) Each Party irrevocably and unconditionally waives, to the fullest extent permitted by Law, (i) any objection that it may now or hereafter have to the laying of venue of any suit, action or proceeding arising out of or relating to this Agreement in any court referred to in Section 7.7(b) or 7.7(c), and (ii) the defense of an inconvenient forum to the maintenance of any such suit, action or proceeding in any such court.

(e) Each Party irrevocably consents to service of process by means of notice in the manner provided for in Section 7.1. Nothing in this Agreement shall affect the right of any Party to serve process in any other manner permitted by Law.

(f) ANY CONTROVERSY THAT MAY ARISE UNDER THIS AGREEMENT AND THE TRANSACTIONS CONTEMPLATED BY THIS AGREEMENT IS LIKELY TO INVOLVE COMPLICATED AND DIFFICULT ISSUES. THEREFORE, EACH SUCH PARTY IRREVOCABLY, UNCONDITIONALLY AND VOLUNTARILY WAIVES ANY RIGHT SUCH PARTY MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY ACTION, SUIT OR PROCEEDING DIRECTLY OR INDIRECTLY ARISING OUT OF OR RELATING TO THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED BY THIS AGREEMENT.

Section 7.7. Reconciliation Procedures.

(a) In the event that the Corporation and any TRA Representative are unable to resolve a disagreement with respect to a Schedule prepared in accordance with the procedures set forth in Section 2.4 or Section 4.2, as applicable, within the relevant time period designated in this Agreement (a “Reconciliation Dispute”), the procedures described in this paragraph (the “Reconciliation Procedures”) will apply. The applicable TRA Representative shall, within fifteen (15) calendar days of the commencement of a Reconciliation Dispute, mutually select a nationally recognized expert in the particular area of disagreement (the “Expert”) and submit the Reconciliation Dispute to such Expert for determination. The Expert shall be a partner or principal in a nationally recognized accounting firm, and unless the Corporation and such TRA Representative agree otherwise, the Expert (and its employing firm) shall not have any material relationship with the Corporation or such TRA Representative or other actual or potential conflict of interest. If the applicable Parties are unable to agree on an Expert within such fifteen (15) calendar-day time period, the selection of an Expert shall be treated as a Dispute subject to Section 7.6 and an arbitration panel shall pick an Expert from a nationally recognized accounting firm that does not have any material relationship with the applicable Parties or other actual or potential conflict of interest. The Expert shall resolve any matter relating to (i) an Attribute Schedule, Early Termination Schedule or an amendment to either within thirty (30) calendar days and (ii) a Tax Benefit Schedule or an amendment thereto within fifteen (15) calendar days or as soon thereafter as is reasonably practicable, in each case after the matter has been submitted to the Expert for resolution. Notwithstanding the preceding sentence, if the matter is not resolved before any payment that is the subject of a disagreement would be due (in the absence of such disagreement) or any Tax Return reflecting the subject of a disagreement is due, the undisputed amount shall be paid by the date prescribed by this Agreement and such Tax Return may be filed as prepared by the Corporation, subject to adjustment or amendment upon resolution. The Expert shall finally determine any Reconciliation Dispute, and its determinations pursuant to this Section 7.7(a) shall be binding on the applicable Parties and may be entered and enforced in any court having competent jurisdiction. Any dispute as to whether a dispute is a Reconciliation Dispute within the meaning of this Section 7.7 or a Dispute within the meaning of Section 7.6 shall be decided and resolved as a Dispute subject to the procedures set forth in Section 7.6.

(b) The sum of (a) the costs and expenses relating to (i) the engagement (and if applicable selection by an arbitration panel) of such Expert and (ii) if applicable, amending any Tax Return in connection with the decision of such Expert and (b) the reasonable and documented out-of-pocket costs and expenses of the Corporation and the applicable TRA Representative incurred in the conduct of such resolution process shall be allocated between the Corporation, on the one hand, and the applicable TRA Representative, on the other hand, in the same proportion that the aggregate amount of the disputed items so submitted to the Expert that is unsuccessfully disputed by each such Party (as finally determined by the Expert) bears to the total amount of such disputed items so submitted, and each such Party shall promptly reimburse the other Party for the excess that such other Party has paid in respect of such costs and expenses over the amount it has been so allocated. The Corporation may withhold payments under this Agreement to collect amounts due under the preceding sentence.

Section 7.8. Withholding. The Corporation and its Affiliates shall be entitled to deduct and withhold from any payment that is payable to any TRA Party pursuant to this Agreement such amounts as the Corporation is required to deduct and withhold with respect to the making of such payment by applicable Law. To the extent that amounts are so deducted and withheld and paid over to the appropriate Taxing Authority by the Corporation, such deducted and withheld amounts shall be treated for all purposes of this Agreement as having been paid by the Corporation to the relevant TRA Party in respect of whom the deduction and withholding was made. Each TRA Party shall promptly provide the Corporation with any applicable tax forms and certifications reasonably requested by the Corporation in connection with determining whether any such deductions and withholdings are required by applicable Law. For the avoidance of doubt, this Section 7.8 shall apply to any Person who becomes a Party to this Agreement pursuant to Section 7.5.

Section 7.9. Admission of the Corporation into a Consolidated Group; Transfers of Corporate Assets.

(a) If the Corporation is or becomes a member of an affiliated or consolidated group of corporations that files a consolidated income Tax Return pursuant to Section 1501 or other applicable sections of the Code governing affiliated or consolidated groups, or any corresponding provisions of state or local tax Law, then (i) the provisions of this Agreement shall be applied with respect to the group as a whole, and (ii) Payments and other applicable items hereunder shall be computed with reference to the consolidated taxable income of the group as a whole.

(b) If the Corporation or any member of the XERC Group transfers one or more Reference Assets to a Person treated as a corporation for U.S. federal income tax purposes (with which the Corporation does not file a consolidated Tax Return pursuant to Section 1501 of the Code), unless otherwise agreed to by the Corporation and each of the TRA Representatives, such transferor, for purposes of calculating the amount of any Payment due hereunder, shall be treated as having disposed of such asset in a fully taxable transaction on the date of such transfer. The consideration deemed to be received by the Corporation or XERC Group member, as the applicable transferor, shall be equal to the fair market value of the transferred asset plus the amount of debt to which such asset is subject, in the case of a transfer of an encumbered asset. For purposes of this Section 7.10, a transfer of a partnership interest shall be treated as a transfer of the transferring partner's applicable share of each of the assets and liabilities of that partnership. Notwithstanding anything to the contrary set forth herein, if the Corporation or any member of a group described in Section 7.10(a) transfers its assets pursuant to a transaction that qualifies as a "reorganization" (within the meaning of Section 368(a) of the Code) in which such entity does not survive, pursuant to a contribution described in Section 351(a) of the Code or pursuant to any other transaction to which Section 381(a) of the Code applies (other than any such reorganization or any such other transaction, in each case, pursuant to which such entity transfers assets to a corporation with which the Corporation or any member of the group described in Section 7.10(a) (excluding any such member being transferred in such reorganization or other transaction) does not file a consolidated Tax Return pursuant to Section 1501 of the Code), the transfer will not cause such entity to be treated as having transferred any assets to a corporation (or a Person classified as a corporation for U.S. federal income tax purposes) pursuant to this Section 7.10(b).

Section 7.10. Confidentiality. Each TRA Party and each of its respective assignees acknowledges and agrees that the information of the Corporation is confidential and, except in the course of performing any duties as necessary for the Corporation and its Affiliates, as required by Law or legal process or to enforce the terms of this Agreement, such Person shall keep and retain in the strictest confidence and not disclose to any other Person any confidential information, acquired pursuant to this Agreement, of the Corporation or its controlled Affiliates or their successors. This Section 7.11 shall not apply to (i) any information that has been made publicly available by the Corporation or any of its controlled Affiliates, becomes public knowledge (except as a result of an act of any TRA Party in violation of this Agreement) or is generally known to the business community, (ii) the disclosure of information to the extent necessary for a TRA Party to prosecute or defend claims arising under or relating to this Agreement and (iii) the disclosure of information to the extent necessary for a TRA Party to prepare and file its Tax Returns, to respond to any inquiries regarding the same from any Taxing Authority or to prosecute or defend any action, proceeding or audit by any Taxing Authority with respect to such Tax Returns. Notwithstanding anything to the contrary herein, the TRA Parties and each of their assignees (and each employee, representative or other agent of the TRA Parties or their assignees, as applicable) may disclose at their discretion to any and all Persons, without limitation of any kind, the tax treatment and tax structure of the Corporation, the TRA Parties and any of their transactions, and all materials of any kind (including tax opinions or other tax analyses) that are provided to the TRA Parties relating to such tax treatment and tax structure. If a TRA Party or an assignee commits, or threatens to commit, a breach of any of the provisions of this Section 7.11, the Corporation shall have the right and remedy to have the provisions of this Section 7.11 specifically enforced by injunctive relief or otherwise by any court of competent jurisdiction without the need to post any bond or other security, it being acknowledged and agreed that any such breach or threatened breach will cause irreparable injury to the Corporation or any of its controlled Affiliates and that money damages alone will not provide an adequate remedy to such Persons. Such rights and remedies shall be in addition to, and not in lieu of, any other rights and remedies available at Law or in equity.

Section 7.11. Change in Law. Notwithstanding anything herein to the contrary, if, in connection with an actual or proposed change in Law, a TRA Party reasonably believes that the existence of this Agreement could cause income (other than income arising from receipt of a payment under this Agreement) recognized by such TRA Party (or direct or indirect equity holders in such TRA Party) in connection with any Exchange to be treated as ordinary income (other than with respect to assets described in Section 751(a) of the Code) rather than capital gain (or otherwise taxed at ordinary income rates) for U.S. federal income tax purposes or would have other material adverse tax consequences to such TRA Party or any direct or indirect owner of such TRA Party, then, at the written election of such TRA Party in its sole discretion (in an instrument signed by such TRA Party and delivered to the Corporation) and to the extent specified therein by such TRA Party, this Agreement shall cease to have further effect and shall not apply to an Exchange occurring after a date specified by such TRA Party; provided, for the avoidance of doubt, such voluntary termination of rights by a TRA Party shall not result in or cause a termination or acceleration event under Section 4.1.

Section 7.12. Interest Rate Limitation. Notwithstanding anything to the contrary contained herein, the interest paid or agreed to be paid hereunder with respect to amounts due to any TRA Party hereunder shall not exceed the maximum rate of non-usurious interest permitted by applicable Law (the "Maximum Rate"). If any TRA Party shall receive interest in an amount that exceeds the Maximum Rate, the excess interest shall be applied to the applicable payment (but in each case exclusive of any component thereof comprising interest) or, if it exceeds such unpaid non-interest amount, refunded to the Corporation. In determining whether the interest contracted for, charged or received by any TRA Party exceeds the Maximum Rate, such TRA Party may, to the extent permitted by applicable Law, (i) characterize any payment that is not principal as an expense, fee or premium rather than interest, (ii) exclude voluntary prepayments and the effects thereof or (iii) amortize, prorate, allocate and spread in equal or unequal parts the total amount of interest throughout the contemplated term of the payment obligations owed by the Corporation to such TRA Party hereunder. Notwithstanding the foregoing, it is the intention of the Parties to conform strictly to any applicable usury Laws.

Section 7.13. Independent Nature of Rights and Obligations. The rights and obligations of each TRA Party hereunder are several and not joint with the rights and obligations of any other Person. A TRA Party shall not be responsible in any way for the performance of the obligations of any other Person hereunder, nor shall a TRA Party have the right to enforce the rights or obligations of any other Person hereunder (other than obligations of the Corporation). The obligations of a TRA Party hereunder are solely for the benefit of, and shall be enforceable solely by, the Corporation. Nothing contained herein or in any other agreement or document delivered in connection herewith, and no action taken by any TRA Party pursuant hereto or thereto, shall be deemed to constitute the TRA Parties acting as a partnership, association, joint venture or any other kind of entity, or create a presumption that the TRA Parties are in any way acting in concert or as a group with respect to such rights or obligations or the transactions contemplated by this Agreement.

Section 7.14. Tax Characterization. The Parties intend that (i) each (A) Exchange, (B) payment made under this Agreement (except with respect to amounts that constitute Imputed Interest) to an Exchange TRA Party in connection with an Exchange, the Mergers or the Common Unit Contribution, (C) each distribution (or deemed distribution) from XERC to an Exchange TRA Party that may reasonably be treated as a transaction between the Corporation and the Exchange TRA Party pursuant to Section 707(a)(2)(B) of the Code (or any similar provisions of applicable state or local tax Law) shall give rise to Basis Adjustments, (ii) the rights received and (without duplication) payments (except with respect to amounts that constitute Imputed Interest) made, in each case, in respect of the Common Units acquired by the Corporation from the Exchange TRA Parties in the Common Unit Contribution (or any similar future contribution qualifying under Section 351 of the Code) will be treated as other property or money received for purposes of Section 351(b) of the Code and (iii) Tax Benefit Payments (other than Tax Benefit Payments treated as Imputed Interest thereon) made to the Blocker Shareholders in respect of such TRA Party's interest in such Blocker Company shall be treated as other property or money received by reason of the Mergers under Section 356 and not be treated as a payment that has the effect of a distribution of a dividend in excess of such TRA Party's "ratable share of the undistributed earnings and profits" (within the meaning of Treasury Regulations Section 1.356-a(c)(1)) of the applicable Blocker Company as of the date of the Mergers; provided, however, that no Party shall be unreasonably impeded in its ability and discretion to negotiate, compromise and/or settle any tax audit, claim or similar proceedings in connection with such position. To the extent this Agreement imposes obligations on XERC or a member of XERC, this Agreement shall be treated as part of the Operating Agreement as described in Section 761(c) of the Code and Treasury Regulations Sections 1.761-1(c) and 1.704-1(b)(2)(ii)(h).

[Signature Page Follows this Page]

IN WITNESS WHEREOF, the undersigned have executed or caused to be executed on their behalf this Agreement as of the date first written above.

CORPORATION:

X-ENERGY, INC.

By: _____
Name: _____
Title: _____

XERC:

X-ENERGY REACTOR COMPANY, LLC

By: _____
Name: _____
Title: _____

[Signature Page to Tax Receivable Agreement]

TRA PARTIES:

ACIP INVESTMENTS POOLING LLC - SERIES 31

By: _____
Name: _____
Title: _____

ARES X-ENERGY CO-INVEST LP

By: _____
Name: _____
Title: _____

ARES X-ENERGY HOLDINGS LP

By: _____
Name: _____
Title: _____

GHAFFARIAN ENTERPRISES, LLC

By: _____
Name: _____
Title: _____

GM ENTERPRISES, LLC

By: _____
Name: _____
Title: _____

IBX COMPANY OPPORTUNITY FUND 1, LP

By: _____
Name: _____
Title: _____

IBX COMPANY OPPORTUNITY FUND 2, LP

By: _____
Name: _____
Title: _____

IBX OPPORTUNITY GP, INC.

By: _____
Name: _____
Title: _____

IBX X-ENERGY SPV I, LLC

By: _____
Name: _____
Title: _____

KAMAL GHAFFARIAN

By: _____
Name: _____
Title: _____

X-ENERGY HOLDINGS, LLC

By: _____
Name: _____
Title: _____

X-ENERGY KG PARENT, LLC

By: _____
Name: _____
Title: _____

JANE STREET GLOBAL TRADING, LLC

By: _____
Name: _____
Title: _____

XENON REACTOR COMPANY HOLDCO LLC

By: _____
Name: _____
Title: _____

Exhibit C

FORM OF JOINDER AGREEMENT

This JOINDER AGREEMENT, dated as of _____, 20__ (this "Joinder"), is delivered pursuant to that certain Tax Receivable Agreement, dated as of [·] (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Tax Receivable Agreement"), by and among X-energy, Inc., a Delaware corporation (the "Corporation"), X-energy Reactor Company, LLC, a Delaware limited liability company (the "LLC"), and each of the TRA Parties from time to time party thereto. Capitalized terms used but not otherwise defined herein have the respective meanings set forth in the Tax Receivable Agreement.

1. Joinder to the Tax Receivable Agreement. The undersigned hereby represents and warrants to the Corporation that, as of the date hereof, the undersigned has been assigned an interest in the Tax Receivable Agreement from a TRA Party.
2. Joinder to the Tax Receivable Agreement. Upon the execution of this Joinder by the undersigned and delivery hereof to the Corporation, the undersigned hereby is and hereafter will be a TRA Party under the Tax Receivable Agreement, with all the rights, privileges and responsibilities of a party thereunder. The undersigned hereby agrees that it shall comply with and be fully bound by the terms of the Tax Receivable Agreement as if it had been a signatory thereto as of the date thereof.
3. Incorporation by Reference. All terms and conditions of the Tax Receivable Agreement are hereby incorporated by reference in this Joinder as if set forth herein in full.
4. Address. All notices under the Tax Receivable Agreement to the undersigned shall be direct to:

[Name]
[Address]
[City, State, Zip Code]
Attn:
Facsimile:
E-mail:

[Signature Page Follows this Page]

IN WITNESS WHEREOF, the undersigned has duly executed and delivered this Joinder as of the day and year first above written.

[NAME OF NEW TRA PARTY]

By _____
Name:
Title:

Acknowledged and agreed
as of the date first set forth above:

X-ENERGY, INC.

By _____
Name:
Title:

[Signature Page to Joinder to Tax Receivable Agreement]

**FOURTH AMENDED AND RESTATED
REGISTRATION RIGHTS AGREEMENT**

THIS FOURTH AMENDED AND RESTATED REGISTRATION RIGHTS AGREEMENT (this “**Agreement**”), is made as of _____, 2026, by and among X-Energy, Inc., a Delaware corporation (the “**Corporation**”), each of the investors listed on Schedule A to this Agreement, each of which is referred to in this Agreement as an “**Holder**” and any additional investor that becomes a party to this Agreement in accordance with Section 2.12 of this Agreement.

RECITALS:

A. The Corporation is contemplating an offer and sale of its shares of Class A common stock, par value \$0.0001 per share (the “**Class A Common Stock**” and such shares, the “**Shares**”), to the public in an underwritten initial public offering (the “**IPO**”).

B. The Corporation desires to use a portion of the net proceeds from the IPO to purchase Common Units (as defined below) of X Energy Reactor Company, LLC, a Delaware limited liability company (the “**Company**”), and the Company desires to issue its Common Units to the Corporation in exchange for such portion of the net proceeds from the IPO.

C. Immediately prior to the consummation of the issuance of Common Units by the Company to the Corporation, the Holders and certain other Persons that hold equity interests in the Company are the sole members of the Company (the Holders, together with such other Persons, the “**Original Equity Owners**”).

D. Certain of the Original Equity Owners (the “**Existing Holders**”) hold Series B Preferred Units, Series C Preferred Units, Series C-1 Preferred Units, Series D Preferred Units and/or Class A Common Units issued upon conversion thereof and possess registration rights pursuant to that certain Third Amended and Restated Registration Rights Agreement, dated as of November 21, 2025, by and among the Company, such Existing Holders and the other parties named as parties to such agreement (the “**Prior Agreement**”).

E. Prior to the purchase by the Corporation of the Common Units, the Corporation, the Company and the Original Equity Owners will enter into that certain Eighth Amended and Restated Limited Liability Company Agreement of the Company (such agreement, as it may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “**LLC Agreement**”).

F. In connection with the closing of the IPO, (i) the Corporation will become the sole managing member of the Company, (ii) under the LLC Agreement, the Preferred Units and other equity interests held by the Original Equity Owners prior to such time will be recapitalized into Common Units (as defined in the LLC Agreement, the “**Common Units**”) of the Company, (iii) each Person identified on the Schedule of Holders attached hereto as a “Holder” and certain other Existing Holders will remain or become non-managing members of the Company, but otherwise continue to hold Common Units in the Company (such persons, collectively, the “**Continuing Equity Owners**”), and (iv) in consideration of the Corporation acquiring the Common Units and becoming the managing member of the Company and for other good consideration, the Company has provided the Continuing Equity Owners with a redemption right pursuant to which the Continuing Equity Owners can redeem their Common Units for, at the Corporation’s option, shares of Class A Common Stock or cash on the terms set forth in the LLC Agreement.

G. In connection with the IPO and the transactions described above, the Corporation has agreed to grant to the Holders certain rights with respect to the registration of the Registrable Securities (as defined below) on the terms and conditions set forth in this Agreement.

H. The Existing Holders are holders of at least a majority of the Registrable Securities (as defined below), at least a majority of the Series B Preferred Units and at least a majority of the Series C Preferred Units, the Series C-1 Preferred Units, and the Series D Preferred Units, and desire to amend and restate the Prior Agreement in its entirety and to accept the rights created pursuant to this Agreement in lieu of the rights granted to them under the Prior Agreement.

The Existing Holders agree that the Prior Agreement is amended and restated in its entirety by this Agreement, and the parties to this Agreement further agree as follows:

1. Definitions. For purposes of this Agreement:

1.1 “**Affiliate**” means, with respect to any specified Person, any other Person who, directly or indirectly, controls, is controlled by, or is under common control with such Person, including without limitation any general partner, managing member, officer, director or trustee of such Person, or any venture capital fund, investment fund or registered investment company now or hereafter existing that is controlled by one or more general partners, managing members or investment advisers of, or shares the same management company or investment adviser with, such Person. Notwithstanding the foregoing, the Corporation and its Subsidiaries shall not be deemed to be Affiliates of any Holder. As used in this definition, “control” (including, with its correlative meanings, “controlling,” “controlled by” and “under common control with”) shall mean possession, directly or indirectly, of power to direct or cause the direction of management or policies (whether through ownership of securities, by contract or otherwise).

1.2 “**Agreement**” has the meaning set forth in the recitals.

1.3 “**Amazon**” means Amazon.com NV Investment Holdings LLC and its Affiliates.

1.4 “**Ares**” means Ares X-Energy Holdings LP and its Affiliates.

1.5 “**Automatic Shelf Registration Statement**” has the meaning set forth in [Section 2.1\(b\)](#).

1.6 “**Board of Directors**” means the board of directors of the Corporation.

1.7 “**Black Out Period**” has the meaning set forth in [Section 4](#).

1.8 “**Business Day**” means any day of the year on which national banking institutions in New York are open to the public for conducting business and are not required or authorized to close.

1.9 “**C5**” means, collectively, C5 Energy Investors LLC, C5 Impact HPW LLC and their respective Affiliates.

1.10 “**Capital Stock**” means (i) with respect to any Person that is a corporation, any and all shares, interests or equivalents in capital stock of such corporation (whether voting or nonvoting and whether common or preferred), (ii) with respect to any Person that is not a corporation, individual or governmental entity, any and all partnership, membership, limited liability company or other equity interests of such Person that confer on the holder thereof the right to receive a share of the profits and losses of, or the distribution of assets of the issuing Person, and (iii) any and all warrants, rights (including conversion and exchange rights) and options to purchase any security described in the clause (i) or (ii) above.

- 1.11 “**Class A Common Stock**” has the meaning set forth in the recitals.
- 1.12 “**Class B Common Stock**” means the Corporation’s Class B common stock, par value \$0.0001 per share.
- 1.13 “**Common Units**” has the meaning set forth in the recitals.
- 1.14 “**Company**” has the meaning set forth in the recitals.
- 1.15 “**Continuing Equity Owners**” has the meaning set forth in the recitals.
- 1.16 “**Corporation**” has the meaning set forth in the recitals.

1.17 “**Damages**” means any loss, damage, claim or liability (joint or several) to which a party to this Agreement may become subject under the Securities Act, the Exchange Act, or other federal or state law, insofar as such loss, damage, claim or liability (or any action in respect thereof) arises out of or is based upon: (i) any untrue statement or alleged untrue statement of a material fact contained in any registration statement of the Corporation, including any preliminary prospectus or final prospectus contained therein or any amendments or supplements thereto; (ii) an omission or alleged omission to state therein a material fact required to be stated therein, or necessary to make the statements therein not misleading; or (iii) any violation or alleged violation by the indemnifying party (or any of its agents or Affiliates) of the Securities Act, the Exchange Act, any state securities law, or any rule or regulation promulgated under the Securities Act, the Exchange Act, or any state securities law.

1.18 “**End of Suspension Notice**” has the meaning set forth in Section 2(c)(i).

1.19 “**Exchange Act**” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

1.20 “**Excluded Registration**” means (i) registrations on Form S-4 or S-8 promulgated by the Commission or any successor or similar forms, including a registration relating to the sale or grant of securities to employees of the Corporation or a subsidiary pursuant to an equity interest option, equity interest purchase, equity incentive or similar plan; (ii) a registration relating to an SEC Rule 145 transaction; (iii) a registration on any form that does not include substantially the same information as would be required to be included in a registration statement covering the sale of the Registrable Securities; or (iv) a registration in which the only Class A Common Units being registered is Class A Common Stock issuable upon conversion of debt securities that are also being registered.

1.21 “**FINRA**” means the Financial Industry Regulatory Authority.

1.22 “**Free Writing Prospectus**” means the free writing prospectus, as defined in Rule 405.

1.23 “**Form S-1**” means such form under the Securities Act as in effect on the date of this Agreement or any successor registration form under the Securities Act subsequently adopted by the SEC.

1.24 “Form S-3” means such form under the Securities Act as in effect on the date of this Agreement or any registration form under the Securities Act subsequently adopted by the SEC that permits forward incorporation of substantial information by reference to other documents filed by the Corporation with the SEC.

1.25 “Holder” has the meaning set forth in the recitals and any Person that is a party to this Agreement from time to time, as set forth on the signature pages to this Agreement or by virtue of signing a joinder to this Agreement.

1.26 “Immediate Family Member” means a child, stepchild, grandchild, parent, stepparent, grandparent, spouse, domestic partner, sibling, mother-in-law, father-in-law, son-in-law, daughter-in-law, brother-in-law, or sister-in-law, including, adoptive relationships, of a natural person referred to in this Agreement.

1.27 “Indemnified Party” has the meaning set forth in [Section 2.10](#).

1.28 “Indemnifying Party” has the meaning set forth in [Section 2.10](#).

1.29 “Initiating Holders” means, collectively, Holders who properly initiate a registration request under [Section 2.1\(a\)](#) and [2.1\(b\)](#) of this Agreement.

1.30 “IPO” has the meaning set forth in the recitals.

1.31 “Jane Street” means Jane Street Global Trading, LLC and its Affiliates.

1.32 “LLC Agreement” has the meaning set forth in the recitals.

1.33 “Long-Form Registrations” has the meaning set forth in [Section 2.1\(a\)](#).

1.34 “Majority of the Registrable Securities” means, with respect to any group of Registrable Securities described in this Agreement, the Holders of a majority of such group of Registrable Securities.

1.35 “MNPI” means material non-public information within the meaning of Regulation FD promulgated under the Exchange Act.

1.36 “Original Equity Owners” has the meaning set forth in the recitals.

1.37 “Person” means any individual, corporation, partnership, limited liability company, association, a joint stock company, a trust, a joint venture, an unincorporated organization, a governmental entity or any department, agency or political subdivision thereof, or other entity.

1.38 “Piggyback Registration” has the meaning set forth in [Section 2.2](#).

1.39 “Preferred Units” means, collectively, units of the Series A Preferred Units, Series A-1 Preferred Units, Series B Preferred Units, Series C Preferred Units, Series C-1 Preferred Units and Series D Preferred Units of the Company.

1.40 “Public Offering” means any sale or distribution to the public of Capital Stock of the Corporation pursuant to an offering registered under the Securities Act, whether by the Corporation, by Holders and/or by any other holders of the Corporation’s Capital Stock.

1.41 “Registrable Securities” means (i) any Class A Common Stock issued or issuable by the Corporation in a Share Settlement in connection with (x) the redemption by the Company of Common Units owned by any Holder or (y) a direct exchange for Common Units owned by any Holder, in each case in accordance with the terms of the LLC Agreement; (ii) any Capital Stock of the Corporation or of any Subsidiary of the Corporation issued or issuable with respect to the securities referred to in clause (i) above or (iii) below by way of dividend, distribution, split or combination of securities, or any recapitalization, merger, consolidation or other reorganization or similar transaction; and (iii) any other Shares owned (or which may be acquired upon exercise, redemption or conversion of any securities held), directly or indirectly, by Holders. As to any particular Registrable Securities owned by any Person, such securities shall cease to be Registrable Securities on the date such securities (a) have been sold or distributed pursuant to a Public Offering, (b) have been sold in compliance with Rule 144 following the consummation of the IPO, (c) have been repurchased by the Corporation or a Subsidiary of the Corporation or (d) may be disposed of pursuant to Rule 144 in a single transaction without volume limitation or other restrictions or limitations on transfer thereunder, including as to manner or timing of sale or current public information requirements. For purposes of this Agreement, a Person shall be deemed to be a Holder, and the Registrable Securities shall be deemed to be in existence, whenever such Person has the right to acquire, directly or indirectly, such Registrable Securities (upon conversion or exercise in connection with a transfer of securities or otherwise, but disregarding any restrictions or limitations upon the exercise of such right), whether or not such acquisition has actually been effected, and such Person shall be entitled to exercise the rights of a holder of Registrable Securities under this Agreement. Notwithstanding the foregoing, a Holder of Registrable Securities may only request that Registrable Securities in the form of Capital Stock of the Corporation that is registered or to be registered as a class under Section 12 of the Exchange Act be registered pursuant to this Agreement. For the avoidance of doubt, while Common Units and/or shares of Class B Common Stock constitute Registrable Securities, under no circumstances shall the Corporation be obligated to register Common Units or shares of Class B Common Stock, and only Shares issuable upon redemption, exchange or conversion of Common Units or Class B Common Stock will be registered.

1.42 “Registration Expenses” has the meaning set forth in Section 2.8.

1.43 “Schedule of Holders” means the schedule attached to this Agreement entitled “Schedule of Holders,” which shall reflect each Holder from time to time party to this Agreement.

1.44 “SEC” means the Securities and Exchange Commission.

1.45 “SEC Rule 144” means Rule 144 promulgated by the SEC under the Securities Act.

1.46 “SEC Rule 145” means Rule 145 promulgated by the SEC under the Securities Act.

1.47 “SEC Rule 158” means Rule 158 promulgated by the SEC under the Securities Act.

1.48 “SEC Rule 405” means Rule 405 promulgated by the SEC under the Securities Act.

1.49 “SEC Rule 415” means Rule 415 promulgated by the SEC under the Securities Act.

1.50 “Securities Act” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

1.51 “Selling Expenses” means all underwriting discounts, selling commissions, and equity interest transfer taxes applicable to the sale of Registrable Securities, and fees and disbursements of counsel for any Holder, except for the fees and disbursements of the Selling Holder Counsel borne and paid by the Corporation as provided in Section 2.8.

1.52 “Share Settlement” means “Share Settlement” as defined in the LLC Agreement.

1.53 “Shares” has the meaning set forth in the recitals.

1.54 “Shelf Offering” has the meaning set forth in Section 2.1(e)(ii).

1.55 “Shelf Offering Notice” has the meaning set forth in Section 2.1(e)(ii).

1.56 “Shelf Offering Request” has the meaning set forth in Section 2.1(e)(ii).

1.57 “Shelf Registrable Securities” has the meaning set forth in Section 2.1(e)(ii).

1.58 “Shelf Registration” has the meaning set forth in Section 2.1(e)(i).

1.59 “Shelf Registration Statement” has the meaning set forth in Section 2.1(e)(i).

1.60 “Short-Form Registrations” has the meaning set forth in Section 2.1(a).

1.61 “Subsidiary” means, with respect to the Corporation, any corporation, limited liability company, partnership, association or other business entity of which (i) if a corporation, a majority of the total voting power of Capital Stock of such Person entitled (without regard to the occurrence of any contingency) to vote in the election of directors is at the time owned or controlled, directly or indirectly, by the Corporation, or (ii) if a limited liability company, partnership, association or other business entity, either (x) a majority of the Capital Stock of such Person entitled (without regard to the occurrence of any contingency) to vote in the election of managers, general partners or other oversight board vested with the authority to direct management of such Person is at the time owned or controlled, directly or indirectly, by the Corporation or (y) the Corporation or one of its Subsidiaries is the sole manager or general partner of such Person.

1.62 “Suspension Event” has the meaning set forth in Section 2.1(c)(i).

1.63 “Suspension Notice” has the meaning set forth in Section 2.1(c)(i).

1.64 “Suspension Period” has the meaning set forth in Section 2.1(c)(i).

1.65 “Underwritten Takedown” has the meaning set forth in Section 2.1(e)(ii).

1.66 “Up-C Transaction” has the meaning ascribed to it in the LLC Agreement.

1.67 “WKSI” means a “well-known seasoned issuer” as defined under Rule 405.

1.68 “XHLLC” means XERC Holdings LLC and its Affiliates.

2. Registration Rights. The Corporation covenants and agrees as follows:

2.1 Demand Registration. All registrations requested pursuant to this Section 2.1 are referred to herein as “**Demand Registrations**.”

(a) **Long-Form Registration.** Subject to the terms and conditions of this Agreement and any lock-up agreement executed with the underwriters in connection with the IPO, if the Corporation receives a request from (i) Holders of at least a majority of the Registrable Securities then outstanding; or (ii) holders of at least a majority of the Registrable Securities held by Ares X-Energy Holdings LP (“**Ares**”) and its Affiliates; that the Corporation file a Form S-1 registration statement or any similar long-form registration (“**Long-Form Registrations**”) with respect to outstanding Registrable Securities of such Holders having an anticipated aggregate offering price, net of Selling Expenses, of at least \$10 million, then the Corporation shall (x) within 10 days after the date such request is given, give notice thereof (the “**Demand Notice**”) to all Holders other than the Initiating Holders; and (y) as soon as practicable, and in any event within 60 days after the date such request is given by the Initiating Holders, file a Long-Form Registration under the Securities Act covering all Registrable Securities that the Initiating Holders requested to be registered and any additional Registrable Securities requested to be included in such registration by any other Holders, as specified by notice given by each such Holder to the Corporation within 20 days of the date the Demand Notice is given, and in each case, subject to the limitations of Sections 2.1(c) and 2.3. Notwithstanding the foregoing, no more than two requests that the Corporation file a Long-Form Registration may be made by each of Ares and all other Holders collectively pursuant to this Section 2.1(a). All Long-Form Registrations shall be underwritten registrations unless otherwise approved by the applicable Original Equity Owner.

(b) **Short-Form Registration.** If at any time when it is eligible to use a Form S-3 registration statement or any similar short-form registration (“**Short-Form Registrations**”), the Corporation receives a request from Holders of at least twenty percent (20%) of the Registrable Securities then outstanding that the Corporation file a Short-Form Registration with respect to outstanding Registrable Securities of such Holders having an anticipated aggregate offering price, net of Selling Expenses, of at least \$3 million, then the Corporation shall (i) within 10 days after the date such request is given, give a Demand Notice to all Holders other than the Initiating Holders; and (ii) as soon as practicable, and in any event within 45 days after the date such request is given by the Initiating Holders, file a Short-Form Registration under the Securities Act covering all Registrable Securities requested to be included in such registration by any other Holders, as specified by notice given by each such Holder to the Corporation within 20 days of the date the Demand Notice is given, and in each case, subject to the limitations of Sections 2.1(c) and 2.3. Notwithstanding anything to the contrary contained in this Agreement, upon becoming eligible to use Form S-3 (or any equivalent or successor form), the Original Equity Owner making a Demand Registration may request that the registration be made pursuant to Rule 415 under the Securities Act (a “**Shelf Registration**”) and, if the Corporation is a WKSI at the time any request for a Demand Registration is submitted to the Corporation, that such Shelf Registration be an automatic shelf registration statement (as defined in Rule 405 under the Securities Act) (an “**Automatic Shelf Registration Statement**”). The Corporation shall use its commercially reasonable efforts to cause such registration statement to be declared effective by the SEC as soon as practicable and to keep such registration statement continuously effective under the Securities Act until the date when all of the Registrable Securities covered by such registration statement have been sold.

(c) Notwithstanding the foregoing obligations, if the Corporation furnishes to Holders requesting a registration pursuant to this Section 2.1 a certificate signed by the Corporation's chief executive officer stating that in the good faith judgment of the Board of Directors it would be materially detrimental to the Corporation and its stockholders for such registration statement to either become effective or remain effective for as long as such registration statement otherwise would be required to remain effective, because it would (i) reasonably be expected to have a material adverse effect on any proposal or plan by the Corporation or any Subsidiary to engage in any significant acquisition, corporate reorganization, or other similar transaction involving the Corporation; (ii) require premature disclosure of MNPI that the Corporation has a bona fide business purpose for preserving as confidential; or (iii) render the Corporation unable to comply with requirements under the Securities Act or Exchange Act, then the Corporation shall have the right to defer taking action with respect to such filing, and any time periods with respect to filing or effectiveness thereof shall be tolled correspondingly, for a period of not more than 90 days after the request of the Initiating Holders is given (such period, the "**Suspension Period**"). Notwithstanding the foregoing, the Corporation may not invoke this right more than once in any 12 month period, except with the consent of each Original Equity Owner. Further notwithstanding the foregoing, the Corporation shall not register any securities for its own account or that of any other stockholder during such 90 day period. The Corporation also may extend the Suspension Period with the consent of each Original Equity Owner.

(i) In the case of an event that causes the Corporation to suspend the use of a Shelf Registration Statement as set forth in paragraph (c) above (a "**Suspension Event**"), the Corporation shall give a Suspension Notice to the Holders of Registrable Securities registered pursuant to such Shelf Registration Statement to suspend sales of the Registrable Securities and such notice shall state generally the basis for the notice and that such suspension shall continue only for so long as the Suspension Event or its effect is continuing. If the basis of such suspension is nondisclosure of MNPI, the Corporation shall not be required to disclose the subject matter of such MNPI to Holders. A Holder shall not effect any sales of the Registrable Securities pursuant to such Shelf Registration Statement (or such filings) at any time after it has received a Suspension Notice from the Corporation and prior to receipt of an End of Suspension Notice (as defined below). Each Holder agrees that such Holder shall treat as confidential the receipt of the Suspension Notice and shall not disclose or use the information contained in such Suspension Notice without the prior written consent of the Corporation or until such time as the information contained therein is or becomes available to the public generally, other than as a result of disclosure by the Holder in breach of the terms of this Agreement. Holders may recommence effecting sales of the Registrable Securities pursuant to the Shelf Registration Statement (or such filings) following further written notice to such effect (an "**End of Suspension Notice**") from the Corporation, which End of Suspension Notice shall be given by the Corporation to the Holders and their counsel, if any, promptly following the conclusion of any Suspension Event. Notwithstanding the foregoing, in no event shall an End of Suspension Notice be given after the end of the Suspension Period unless with the consent of each Original Equity Owner.

(ii) Notwithstanding any provision of this Agreement to the contrary, if the Corporation gives a Suspension Notice with respect to any Shelf Registration Statement pursuant to this Section 2(c)(ii), the Corporation agrees that it shall (A) extend the period of time during which such Shelf Registration Statement shall be maintained effective pursuant to this Agreement by the number of days during the period from the date of receipt by the Holders of the Suspension Notice to and including the date of receipt by the Holders of the End of Suspension Notice, and (B) provide copies of any supplemented or amended prospectus necessary to resume sales, with respect to each Suspension Event. Notwithstanding the foregoing, such period of time shall not be extended beyond the date that there are no longer Registrable Securities covered by such Shelf Registration Statement.

(d) The Corporation shall not be obligated to effect, or to take any action to effect, any registration pursuant to Section 2.1(a) (i) during the period that is days before the Corporation's good faith estimate of the date of filing of, and ending on a date that is days after the effective date of, a Corporation-initiated registration, so long as the Corporation is actively employing in good faith commercially reasonable efforts to cause such registration statement to become effective; (ii) after the Corporation has effected two registrations pursuant to Section 2.1(a); or (iii) if the Initiating Holders propose to dispose of shares of Registrable Securities that may be immediately registered on Short-Form Registration pursuant to a request made pursuant to Section 2.1(b). The Corporation shall not be obligated to effect, or to take any action to effect, any registration pursuant to Section 2.1(b) (i) during the period that is days before the Corporation's good faith estimate of the date of filing of, and ending on a date that is days after the effective date of, a Corporation-initiated registration so long as Corporation is actively employing in good faith commercially reasonable efforts to cause such registration statement to become effective; or (ii) if the Corporation has effected two registrations pursuant to Section 2.1(b) within the 12 month period immediately preceding the date of such request. A registration shall not be counted as "effected" for purposes of this Section 2.1(d) until such time as the applicable registration statement has been declared effective by the SEC, unless the Initiating Holders withdraw their request for such registration, elect not to pay the registration expenses therefor, and forfeit their right to one demand registration statement pursuant to Section 2.8, in which case such withdrawn registration statement shall be counted as "effected" for purposes of this Section 2.1(d). Notwithstanding the foregoing, if such withdrawal is during a period the Corporation has deferred taking action pursuant to Section 2.1(c), then the Initiating Holders may withdraw their request for registration and such registration will not be counted as "effected" for purposes of this Section 2.1(d). Each Holder agrees that such Holder shall treat as confidential the receipt of the notice of Demand Notice and shall not disclose or use the information contained in such notice of Demand Notice without the prior written consent of the Corporation or until such time as the information contained therein is or becomes available to the public generally, other than as a result of disclosure by the Holder in breach of the terms of this Agreement. Notwithstanding the foregoing, the Corporation shall not be required to take any action that would otherwise be required under this Section 2 or any similar provision contained in the underwriting agreement entered into in connection with any underwritten Public Offering.

(e) Shelf Registrations.

(i) Subject to the availability of required financial information, as promptly as practicable after the Corporation receives written notice of a request for a Shelf Registration, the Corporation shall file with the Commission a registration statement under the Securities Act for the Shelf Registration (a "**Shelf Registration Statement**"). The Corporation shall use its commercially reasonable efforts to cause any Shelf Registration Statement to be declared effective under the Securities Act as soon as practicable after the initial filing of such Shelf Registration Statement, and once effective, the Corporation shall cause such Shelf Registration Statement to remain continuously effective for such time period as is specified in the request by the Holders, but for no time period longer than the period ending on the earliest of (A) the third anniversary of the initial effective date of such Shelf Registration Statement, (B) the date on which all Registrable Securities covered by such Shelf Registration Statement have been sold pursuant to the Shelf Registration Statement, and (C) the date as of which there are no longer any Registrable Securities covered by such Shelf Registration Statement in existence. In addition, notwithstanding anything to the contrary in this Agreement, the Corporation shall prepare a Shelf Registration Statement with respect to all of the Registrable Securities owned by or issuable to the Original Equity Owners and cause such Shelf Registration Statement to be filed and maintained with the Commission as soon as practicable and in no event later than the calendar day following the later to occur of (i) the expiration of the Lock-Up Period (as defined below) and (ii) the Corporation becoming eligible to file a Shelf Registration Statement for a Short-Form Registration. Such Shelf Registration Statement shall provide for the resale, on a continuous or delayed basis pursuant to Rule 415 under the Securities Act, of all of the Registrable Securities owned by or issuable to the Original Equity Owners. The Corporation shall use its commercially reasonable efforts to cause such registration statement to be declared effective by the SEC as soon as practicable and to keep such registration statement continuously effective under the Securities Act until the date when all of the Registrable Securities covered by such registration statement have been sold. Notwithstanding the foregoing, any of the Original Equity Owners may, with respect to itself, instruct the Corporation in writing not to include in such Shelf Registration Statement the Registrable Securities owned by or issuable to such Holder. In order for any of the Original Equity Owners to be named as a selling securityholder in such Shelf Registration Statement, the Corporation may require such Holder to deliver all information about such Holder that is required to be included in such Shelf Registration Statement in accordance with applicable law, including Item 507 of Regulation S-K promulgated under the Securities Act. Notwithstanding anything to the contrary in this Agreement any Holder that is named as a selling securityholder in a Shelf Registration Statement may make a secondary resale under such Shelf Registration Statement without the consent of the Holders representing a Majority of the Registrable Securities or any other Holder if such resale does not require a supplement to the Shelf Registration Statement.

(ii) In the event that a Shelf Registration Statement is effective, Holders representing Registrable Securities either (a) with a market value of at least \$25 million in the aggregate, or (b) that represent at least 10% of the aggregate market value of the Registrable Securities registered pursuant to such Shelf Registration Statement shall have the right at any time or from time to time to elect to sell pursuant to an offering (including an underwritten offering (an “**Underwritten Takedown**”)) Registrable Securities available for sale pursuant to such registration statement (“**Shelf Registrable Securities**”), so long as the Shelf Registration Statement remains in effect, and the Corporation shall pay all Registration Expenses in connection therewith. Notwithstanding the foregoing, each Original Equity Owner shall have the right at any time and from time to time to elect to sell pursuant to an offering (including an Underwritten Takedown) pursuant to a Shelf Offering Request (as defined below) made by such Original Equity Owner. The applicable Holders shall make such election by delivering to the Corporation a written request (a “**Shelf Offering Request**”) for such offering specifying the number of Shelf Registrable Securities that such Holders desire to sell pursuant to such offering (the “**Shelf Offering**”). In the case of an Underwritten Takedown, as promptly as practicable, but no later than two Business Days after receipt of a Shelf Offering Request, the Corporation shall give written notice (the “**Shelf Offering Notice**”) of such Shelf Offering Request to all other holders of Shelf Registrable Securities. The Corporation, subject to [Section 2.3](#) and [Section 2.12](#) of this Agreement, shall include in such Shelf Offering the Shelf Registrable Securities of any other Holder that shall have made a written request to the Corporation for inclusion in such Shelf Offering (which request shall specify the maximum number of Shelf Registrable Securities intended to be sold by such Holder) within five Business Days after the receipt of the Shelf Offering Notice. The Corporation shall, as expeditiously as possible (and in any event within ten Business Days after the receipt of a Shelf Offering Request, unless a longer period is agreed to by the Holders representing a Majority of the Registrable Securities that made the Shelf Offering Request), use its commercially reasonable efforts to facilitate such Shelf Offering. Each Holder agrees that such Holder shall treat as confidential the receipt of the Shelf Offering Notice and shall not disclose or use the information contained in such Shelf Offering Notice without the prior written consent of the Corporation or until such time as the information contained therein is or becomes available to the public generally, other than as a result of disclosure by the Holder in breach of the terms of this Agreement.

(iii) Notwithstanding the foregoing, if any Holder desires to effect a sale of Shelf Registrable Securities that (x) would require an amendment or supplement to the Shelf Registration Statement and (y) does not constitute an Underwritten Takedown, the Holder shall deliver to the Corporation a Shelf Offering Request no later than two Business Days prior to the expected date of the sale of such Shelf Registrable Securities, and subject to the limitations set forth in [Section 2\(d\)\(i\)](#), the Corporation shall file and effect an amendment or supplement to its Shelf Registration Statement for such purpose as soon as reasonably practicable.

(iv) Notwithstanding the foregoing, if an Original Equity Owner wishes to engage in an underwritten block trade off of a Shelf Registration Statement (either through filing an Automatic Shelf Registration Statement or through a take-down from an existing Shelf Registration Statement), then notwithstanding the foregoing time periods, such Holders only need to notify the Corporation of the block trade Shelf Offering two Business Days prior to the day such offering is to commence (unless a longer period is agreed to by Holders representing a Majority of the Registrable Securities wishing to engage in the underwritten block trade) and the Corporation shall promptly notify other Holders and such other Holders must elect whether or not to participate by the next Business Day (i.e., one Business Day prior to the day such offering is to commence) (unless a longer period is agreed to by the Holders representing a Majority of the Registrable Securities wishing to engage in the underwritten block trade) and the Corporation shall as expeditiously as possible use its commercially reasonable efforts to facilitate such offering (which may close as early as two Business Days after the date it commences). Holders representing a Majority of the Registrable Securities wishing to engage in the underwritten block trade shall use commercially reasonable efforts to work with the Corporation and the underwriters prior to making such request in order to facilitate preparation of the registration statement, prospectus and other offering documentation related to the underwritten block trade.

(v) The Corporation shall, at the request of Holders representing a Majority of the Registrable Securities covered by a Shelf Registration Statement, file any prospectus supplement or, if the applicable Shelf Registration Statement is an Automatic Shelf Registration Statement, any post-effective amendments and otherwise take any action necessary to include therein all disclosure and language deemed necessary or advisable by such Holders to effect such Shelf Offering.

2.2 Corporation Registration. Following the IPO, if the Corporation proposes to register (including, for this purpose, a registration effected by the Corporation for stockholders other than the Holders) any of its securities under the Securities Act in connection with the public offering of such securities solely for cash (other than in an Excluded Registration) and the registration form to be used may be used for the registration of Registrable Securities (a “**Piggyback Registration**”), the Corporation shall, at such time, promptly give each Holder who hold Registrable Securities notice of its intention to effect such Piggyback Registration and, subject to the terms of Section 2.2(a), shall include in such Piggyback Registration (and in all related registrations or qualifications under blue sky laws and in any related underwriting) all Registrable Securities with respect to which the Corporation has received written requests for inclusion therein within twenty (20) days after delivery of the Corporation’s notice.

(a) Priority on Primary Registrations. If a Piggyback Registration is an underwritten primary registration on behalf of the Corporation, and the managing underwriters advise the Corporation in writing that in their opinion the number of securities requested to be included in such registration exceeds the number which can be sold in such offering without adversely affecting the marketability, proposed offering price, timing or method of distribution of the offering, the Corporation shall include in such registration (i) first, the securities the Corporation proposes to sell, (ii) second, the Registrable Securities requested to be included in such registration which, in the opinion of the underwriters, can be sold without any such adverse effect, pro rata among the Holders on the basis of the number of Registrable Securities owned by each such Holder that such Holder of Registrable Securities shall have requested to be included therein, and (iii) third, other securities requested to be included in such registration which, in the opinion of the underwriters, can be sold without any such adverse effect.

(b) Selection of Underwriters. If any Piggyback Registration is an underwritten offering, the selection of investment banker(s) and manager(s) for the offering shall be at the election of the Corporation (in the case of a primary registration) or at the election of the holders of other Corporation securities requesting such registration (in the case of a secondary registration). Notwithstanding the foregoing, Holders representing a Majority of the Registrable Securities included in such Piggyback Registration may request that one or more investment banker(s) or manager(s) be included in such offering (such request not to be binding on the Corporation or such other initiating holders of Corporation securities).

(c) Right to Terminate Registration. The Corporation shall have the right to terminate or withdraw any registration initiated by it under this Section 2.2 whether or not any Holder has elected to include securities in such registration. The Registration Expenses of such withdrawn registration shall be borne by the Corporation in accordance with Section 2.8.

2.3 Underwriting Requirements.

(a) If, pursuant to Section 2.1, the Initiating Holders intend to distribute the Registrable Securities covered by their request by means of an underwriting, they shall so advise the Corporation as a part of their request made pursuant to Section 2.1, and the Corporation shall include such information in the Demand Notice. The Holders initiating any Demand Registration representing a Majority of the Registrable Securities included in such Demand Registration shall have the right to select the investment banker(s) and manager(s) to administer the offering (including assignment of titles), subject to the Corporation's approval not be unreasonably withheld, conditioned or delayed. In such event, the right of any Holder to include such Holder's Registrable Securities in such registration shall be conditioned upon such Holder's participation in such underwriting and the inclusion of such Holder's Registrable Securities in the underwriting to the extent provided in this Agreement.

(b) If any Shelf Offering is an Underwritten Takedown, the investment banker(s) and manager(s) to administer the offering relating to such Shelf Offering (including assignment of titles) will be selected by the Corporation and shall be reasonably acceptable to the Holders representing a majority in interest of the Registrable Securities participating in such Underwritten Takedown.

(c) All Holders proposing to distribute their securities through such underwriting shall (together with the Corporation as provided in Section 2.6(e)) enter into an underwriting agreement in customary form with the underwriter(s) selected for such underwriting. Notwithstanding the foregoing, no Holder (or any of their assignees) shall be required to make any representations, warranties or indemnities except as they relate to such Holder's ownership of shares and authority to enter into the underwriting agreement and to such Holder's intended method of distribution, and the liability of such Holder shall be several and not joint, and limited to an amount equal to the net proceeds from the offering received by such Holder.

(d) Notwithstanding any other provision of this Section 2.3, if the managing underwriter(s) advise(s) the Initiating Holders in writing that marketing factors require a limitation on the number of shares to be underwritten, then the Initiating Holders shall so advise all Holders of Registrable Securities that otherwise would be underwritten pursuant to this Agreement, and the number of Registrable Securities that may be included in the underwriting shall be allocated (i) first, the Registrable Securities of Holders requested to be included in such registration which, in the opinion of the underwriters, can be sold without any such adverse effect, pro rata among the such Holders on the basis of the number of Registrable Securities owned by each such Holder that such Holder of Registrable Securities shall have requested to be included therein, (ii) second, other securities requested to be included in such registration which, in the opinion of the underwriters, can be sold without any such adverse effect, and (iii) third, securities the Corporation requested to be included in such registration for its own account which, in the opinion of the underwriters, can be sold without any such adverse effect. To facilitate the allocation of shares in accordance with the above provisions, the Corporation or the underwriters may round the number of shares allocated to any Holder to the nearest 100 shares.

(e) In connection with any Public Offering pursuant to Section 2.2, the Corporation shall not be required to include any of the Holders' Registrable Securities in such underwriting unless such Holder (i) agrees to sell such Person's securities on the basis provided in any underwriting arrangements approved by the Person or Persons entitled hereunder to approve such arrangements, and then only in such quantity as the underwriters in their sole discretion determine will not jeopardize the success of the offering by the Corporation (including, without limitation, pursuant to any over-allotment or "green shoe" option requested by the underwriters). Notwithstanding the foregoing, no Holder shall be required to sell more than the number of Registrable Securities such Holder has requested to include. Additionally, in connection with any Public Offering pursuant to Section 2.2, the Corporation shall not be required to include any of the Holders' Registrable Securities in such underwriting unless such Holder completes and executes all customary and reasonable questionnaires, powers of attorney, indemnities, underwriting agreements, custody agreements and other documents required under the terms of such underwriting arrangements. If in connection with a Piggyback Offering the total number of securities, including Registrable Securities, requested by stockholders to be included in such offering exceeds the number of securities to be sold (other than by the Corporation) that the underwriters in their reasonable discretion determine is compatible with the success of the offering, then the Corporation shall be required to include in the offering only that number of such securities, including Registrable Securities, which the underwriters and the Corporation in their sole discretion determine will not jeopardize the success of the offering.

(f) If the underwriters determine that less than all of the Registrable Securities requested to be registered can be included in such offering, then the Registrable Securities that are included in such offering shall be allocated among the selling Holders (i) first, the Registrable Securities of Holders requested to be included in such registration which, in the opinion of the underwriters, can be sold without any such adverse effect, pro rata among the such Holders on the basis of the number of Registrable Securities owned by each such Holder that such Holder of Registrable Securities shall have requested to be included therein, (ii) second, other securities requested to be included in such registration which, in the opinion of the underwriters, can be sold without any such adverse effect, and (iii) third, securities the Corporation requested to be included in such registration for its own account which, in the opinion of the underwriters, can be sold without any such adverse effect. To facilitate the allocation of shares in accordance with the above provisions, the Corporation or the underwriters may round the number of shares allocated to any Holder to the nearest 100 shares. Notwithstanding the foregoing, in no event shall (i) the number of Registrable Securities included in the offering be reduced unless all other securities (other than securities to be sold by the Corporation) are first entirely excluded from the offering, or (ii) the number of Registrable Securities included in the offering be reduced below twenty percent (20%) of the total number of securities included in such offering, unless such offering is the IPO, in which case the selling Holders may be excluded further if the underwriters make the determination described above and no other stockholder's equity interests are included in such offering. For purposes of the provision in this Section 2.3(f) concerning apportionment, for any selling Holder that is a partnership, limited liability company, or corporation, the partners, members, retired partners, retired members, stockholders, and Affiliates of such Holder, or the estates and Immediate Family Members of any such partners, retired partners, members, and retired members and any trusts for the benefit of any of the foregoing Persons, shall be deemed to be a single "selling Holder," and any pro rata reduction with respect to such "selling Holder" shall be based upon the aggregate number of Registrable Securities owned by all Persons included in such "selling Holder," as defined in this sentence.

(g) For purposes of Section 2.1, a registration shall not be counted as "effected" if, as a result of an exercise of the underwriter's cutback provisions in Section 2.3, fewer than fifty percent (50%) of the total number of Registrable Securities that Holders have requested to be included in such registration statement are actually included.

2.4 Suspended Distributions. Each Person that is participating in any registration under this Agreement, upon receipt of any notice from the Corporation of the happening of any event of the kind described in Section 2.6(i)(B) or (C), shall immediately discontinue the disposition of its Registrable Securities pursuant to the registration statement until such Person's receipt of the copies of a supplemented or amended prospectus as contemplated by Section 2.6(i). In the event the Corporation has given any such notice, the applicable time period set forth in Section 2.6(b) during which a registration statement is to remain effective shall be extended by the number of days during the period from and including the date of the giving of such notice pursuant to this Section 2.4 to and including the date when each seller of Registrable Securities covered by such registration statement shall have received the copies of the supplemented or amended prospectus contemplated by Section 2.6(i).

2.5 Lock-Up Agreements. In connection with the IPO, each Original Equity Owner (each a "**Lock-Up Party**") has entered into a customary lock-up agreement with J.P. Morgan Securities LLC, as representative (the "**Underwriter Representative**") of the several underwriters, pursuant to which each Lock-Up Party has agreed to certain restrictions relating to the shares of Capital Stock and certain other securities held by them (collectively, the "**Lock-Up Restrictions**") during the period ending 180 days after the date of the final prospectus issued in connection with the IPO (such period, the "**Lock-Up Period**"). The Corporation may impose stop-transfer instructions with respect to the shares of Capital Stock and other securities subject to the Lock-Up Restrictions until the end of the Lock-Up Period. Notwithstanding anything to the contrary in this Agreement, each Original Equity Owner shall be entitled to waive its rights under this Agreement.

2.6 Obligations of the Corporation. Whenever required under this Section 2 to effect the registration of any Registrable Securities, use its commercially reasonable efforts to effect the registration and the sale of such Registrable Securities in accordance with the intended method of disposition thereof, and pursuant thereto the Corporation shall, as expeditiously as reasonably possible:

(a) prepare and file with the SEC (subject to the availability of required financial information) a registration statement with respect to such Registrable Securities and use its commercially reasonable efforts to cause such registration statement to become effective and, upon the request of the Holders of a majority of the Registrable Securities registered thereunder, keep such registration statement effective for a period of up to 120 days or such longer period as required in accordance with the terms of this Agreement or, if earlier, until the distribution contemplated in the registration statement has been completed. Notwithstanding the foregoing, such 120 day period shall be extended for a period of time equal to the period the Holder refrains, at the request of an underwriter of Class A Common Stock (or other securities) of the Corporation, from selling any securities included in such registration;

(b) prepare and file with the SEC such amendments and supplements to such registration statement, and the prospectus used in connection with such registration statement, as may be necessary to comply with the Securities Act in order to enable the disposition of all securities covered by such registration statement;

(c) furnish to the selling Holders such numbers of copies of a prospectus, including a preliminary prospectus, as required by the Securities Act, and such other documents as the Holders may reasonably request in order to facilitate their disposition of their Registrable Securities;

(d) use its commercially reasonable efforts to register and qualify the securities covered by such registration statement under such other securities or blue-sky laws of such jurisdictions as shall be reasonably requested by the selling Holders. Notwithstanding the foregoing, the Corporation shall not be required to (A) qualify generally to do business in any jurisdiction where it would not otherwise be required to qualify but for this subparagraph, (B) consent to general service of process in any such jurisdiction or (C) subject itself to taxation in any such jurisdiction, except as may be required by the Securities Act;

(e) in the event of any underwritten public offering, enter into and perform its obligations under an underwriting agreement, in usual and customary form, with the underwriter(s) of such offering;

(f) use its commercially reasonable efforts to cause all such Registrable Securities covered by such registration statement to be listed on a national securities exchange or trading system and each securities exchange and trading system (if any) on which similar securities issued by the Corporation are then listed;

(g) provide a transfer agent and registrar for all Registrable Securities registered pursuant to this Agreement and provide a CUSIP number for all such Registrable Securities, in each case not later than the effective date of such registration;

(h) promptly make available for inspection by the selling Holders, any managing underwriter(s) participating in any disposition pursuant to such registration statement, and any attorney or accountant or other agent retained by any such underwriter or selected by the selling Holders, all financial and other records, pertinent corporate documents, and properties of the Corporation, and cause the Corporation's officers, directors, employees, and independent accountants to supply all information reasonably requested by any such seller, underwriter, attorney, accountant, or agent, in each case, as necessary or advisable to verify the accuracy of the information in such registration statement and to conduct appropriate due diligence in connection therewith;

(i) notify each seller of such Registrable Securities (A) promptly after it receives notice thereof, of the date and time when such registration statement and each post-effective amendment thereto has become effective or a prospectus or supplement to any prospectus relating to a registration statement has been filed and when any registration or qualification has become effective under a state securities or blue sky law or any exemption thereunder has been obtained, (B) promptly after receipt thereof, of any request by the Commission for the amendment or supplementing of such registration statement or prospectus or for additional information and (C) at any time when a prospectus relating thereto is required to be delivered under the Securities Act, of the happening of any event as a result of which the prospectus included in such registration statement contains an untrue statement of a material fact or omits any fact necessary to make the statements therein not misleading, and, subject to [Section 2.3](#), at the request of any such seller, the Corporation shall prepare a supplement or amendment to such prospectus so that, as thereafter delivered to the purchasers of such Registrable Securities, such prospectus shall not contain an untrue statement of a material fact or omit to state any fact necessary to make the statements therein not misleading;

(j) notify each holder of Registrable Securities of (A) the issuance by the Commission of any stop order suspending the effectiveness of any registration statement or the initiation of any proceedings for that purpose, (B) the receipt by the Corporation or its counsel of any notification with respect to the suspension of the qualification of the Registrable Securities for sale in any jurisdiction or the initiation or threatening of any proceeding for such purpose and (C) the effectiveness of each registration statement filed hereunder;

(k) make available for inspection by any seller of Registrable Securities, any underwriter participating in any disposition pursuant to such registration statement and any attorney, accountant or other agent retained by any such seller or underwriter, all financial and other records, pertinent corporate and business documents and properties of the Corporation as shall be necessary to enable them to exercise their due diligence responsibility, and cause the Corporation's officers, directors, employees, agents, representatives and independent accountants to supply all information reasonably requested by any such seller, underwriter, attorney, accountant or agent in connection with such registration statement;

(l) take all reasonable actions to ensure that any Free-Writing Prospectus utilized in connection with any Demand Registration or Piggyback Registration hereunder complies in all material respects with the Securities Act, is filed in accordance with the Securities Act to the extent required thereby, is retained in accordance with the Securities Act to the extent required thereby and, when taken together with the related prospectus, shall not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in light of the circumstances under which they were made, not misleading;

(m) otherwise use its commercially reasonable efforts to comply with all applicable rules and regulations of the Commission;

(n) to the extent that a Holder, in its sole and exclusive judgment, might be deemed to be an underwriter of any Registrable Securities or a controlling person of the Corporation, permit such Holder to participate in the preparation of such registration or comparable statement and allow such Holder to provide language for insertion therein, in form and substance satisfactory to the Corporation, which in the reasonable judgment of such Holder and its counsel should be included;

(o) in the event of the issuance of any stop order suspending the effectiveness of a registration statement, or the issuance of any order suspending or preventing the use of any related prospectus or suspending the qualification of any Class A Common Stock included in such registration statement for sale in any jurisdiction, use reasonable efforts promptly to obtain the withdrawal of such order;

(p) use its commercially reasonable efforts to cause such Registrable Securities covered by such registration statement to be registered with or approved by such other governmental agencies or authorities as may be necessary to enable the sellers thereof to consummate the disposition of such Registrable Securities;

(q) cooperate with the Holders of Registrable Securities covered by the registration statement and the managing underwriter or agent, if any, to facilitate the timely preparation and delivery of certificates (not bearing any restrictive legends) representing securities to be sold under the registration statement and enable such securities to be in such denominations and registered in such names as the managing underwriter, or agent, if any, or such Holders may request;

(r) cooperate with each Holder of Registrable Securities covered by the registration statement and each underwriter or agent participating in the disposition of such Registrable Securities and their respective counsel in connection with any filings required to be made with FINRA;

(s) use its commercially reasonable efforts to make available the executive officers of the Corporation to participate with the Holders of Registrable Securities covered by the registration statement and any underwriters in any "road shows" or other selling efforts that may be reasonably requested by the Holders in connection with the methods of distribution for the Registrable Securities;

(t) in the case of any underwritten Public Offering, use its commercially reasonable efforts to obtain one or more cold comfort letters from the Corporation's independent public accountants in customary form and covering such matters of the type customarily covered by cold comfort letters as the Holders representing a Majority of the Registrable Securities being sold reasonably request;

(u) in the case of any underwritten Public Offering, use its commercially reasonable efforts to provide a legal opinion of the Corporation's outside counsel, dated the closing date of the Public Offering, in customary form and covering such matters of the type customarily covered by legal opinions of such nature, which opinion shall be addressed to the underwriters and the Holders of such Registrable Securities being sold;

(v) if the Corporation files an Automatic Shelf Registration Statement covering any Registrable Securities, use its commercially reasonable efforts to remain a WKSI (and not become an ineligible issuer (as defined in Rule 405 under the Securities Act)) during the period during which such Automatic Shelf Registration Statement is required to remain effective;

(w) if the Corporation does not pay the filing fee covering the Registrable Securities at the time an Automatic Shelf Registration Statement is filed, pay such fee at such time or times as the Registrable Securities are to be sold; and

(x) if the Automatic Shelf Registration Statement has been outstanding for at least three (3) years, at the end of the third year, file a new Automatic Shelf Registration Statement covering the Registrable Securities, and, if at any time when the Corporation is required to re-evaluate its WKSI status the Corporation determines that it is not a WKSI, use its reasonable efforts to refile the Shelf Registration Statement on Form S-3 and, if such form is not available, Form S-1 and keep such registration statement effective during the period during which such registration statement is required to be kept effective.

In addition, the Corporation shall ensure that, at all times after any registration statement covering a public offering of securities of the Corporation under the Securities Act shall have become effective, its insider trading policy shall provide that the Corporation's directors may implement a trading program under Rule 10b5-1 of the Exchange Act. Any officer of the Corporation who is a Holder agrees that if and for so long as he or she is employed by the Corporation or any Subsidiary thereof, he or she shall participate fully in the sale process in a manner customary and reasonable for persons in like positions and consistent with his or her other duties with the Corporation and in accordance with applicable law, including the preparation of the registration statement and the preparation and presentation of any road shows.

2.7 Obligations of the Holder.

(a) Whenever the Holders have requested that any Registrable Securities be registered pursuant to this Agreement or have initiated a Shelf Offering, such Holders shall, if applicable, cause such Registrable Securities to be exchanged into shares of Class A Common Stock in accordance with the terms of the LLC Agreement prior to sale of such Registrable Securities.

(b) It shall be a condition precedent to the obligations of the Corporation to take any action pursuant to this [Section 2](#) with respect to the Registrable Securities of any selling Holder that such Holder shall furnish to the Corporation such information regarding itself, the Registrable Securities held by it, and the intended method of disposition of such securities as is reasonably required to effect the registration of such Holder's Registrable Securities.

(c) The Corporation may require each Holder requesting, or electing to participate in, any registration to furnish the Corporation such information regarding such Holder and the distribution of such Registrable Securities as the Corporation may from time to time reasonably request in writing.

(d) If the Original Equity Owners or any of their respective Affiliates seek to effectuate an in-kind distribution of all or part of their respective Registrable Securities to their respective direct or indirect equityholders, the Corporation shall, subject to any applicable lock-ups, work with the foregoing persons to facilitate such in-kind distribution in the manner reasonably requested and such distributees shall have the right to become a party to this Agreement by the joinder in the form of Exhibit A hereto and thereby have all of the rights of such Original Equity Owners under this Agreement.

2.8 Expenses of Registration. All expenses (other than Selling Expenses) incurred in connection with registrations, filings, or qualifications pursuant to Section 2, including all registration, filing, and qualification fees; printers' and accounting fees; fees and disbursements of counsel for the Corporation; and the reasonable fees and disbursements, not to exceed \$75,000 per registration, of one counsel for the selling Holders ("**Selling Holder Counsel**"), shall be borne and paid by the Corporation. Notwithstanding the foregoing, the Corporation shall not be required to pay for any expenses of any registration proceeding begun pursuant to Section 2.1 if the registration request is subsequently withdrawn at the request of the Holders of a majority of the Registrable Securities to be registered (in which case all selling Holders shall bear such expenses pro rata based upon the number of Registrable Securities that were to be included in the withdrawn registration), unless the Holders of a majority of the Registrable Securities agree to forfeit their right to one registration pursuant to Sections 2.1(a) or 2.1(b), as the case may be then the Holders shall not be required to pay any of such expenses and shall not forfeit their right to one registration pursuant to Sections 2.1(a) or 2.1(b). All Selling Expenses relating to Registrable Securities registered pursuant to this Section 2 shall be borne and paid by the Holders pro rata on the basis of the number of Registrable Securities registered on their behalf.

2.9 Delay of Registration. No Holder shall have any right to obtain or seek an injunction restraining or otherwise delaying any registration pursuant to this Agreement as the result of any controversy that might arise with respect to the interpretation or implementation of this Section 2.

2.10 Indemnification. If any Registrable Securities are included in a registration statement under this Section 2:

(a) To the extent permitted by law, the Corporation will indemnify and hold harmless each selling Holder included in any registration, and the partners, members, officers, directors, and stockholders of each such Holder; legal counsel and accountants for each such Holder; any underwriter (as defined in the Securities Act) for each such Holder; and each Person, if any, who controls such Holder or underwriter within the meaning of the Securities Act or the Exchange Act, against any Damages, and the Corporation will pay to each such Holder, underwriter, controlling Person, or other aforementioned Person any legal or other expenses reasonably incurred thereby in connection with investigating or defending any claim or proceeding from which Damages may result, as such expenses are incurred. Notwithstanding the foregoing, the indemnity agreement contained in this Section 2.10(a) shall not apply to amounts paid in settlement of any such claim or proceeding if such settlement is effected without the consent of the Corporation, which consent shall not be unreasonably withheld, nor shall the Corporation be liable for any Damages to the extent that (i) they arise out of or are based upon actions or omissions made in reliance upon and in conformity with written information furnished by or on behalf of any such Holder, underwriter, controlling Person, or other aforementioned Person expressly for use in connection with such registration, except to the extent such information has been corrected in a subsequent writing prior to the sale of Registrable Securities to the Person asserting the claim, or (ii) such Damages result solely from the failure of such Holder to deliver a copy of the registration statement, prospectus, offering circular or any amendments or supplements thereto after the Corporation has furnished such Holder with a sufficient number of copies thereof.

(b) To the extent permitted by law, each selling Holder, severally and not jointly, will indemnify and hold harmless the Corporation, and each of its directors, each of its officers who has signed the registration statement, each Person (if any), who controls the Corporation within the meaning of the Securities Act, legal counsel and accountants for the Corporation, any underwriter (as defined in the Securities Act), any other Holder selling securities in such registration statement, and any controlling Person of any such underwriter or other Holder, against any Damages, in each case only to the extent that such Damages arise out of or are based upon actions or omissions made in reliance upon and in conformity with written information furnished by or on behalf of such selling Holder expressly for use in connection with such registration and that has not been corrected in a subsequent writing prior to the sale of Registrable Securities to the Person asserting the claim; and each such selling Holder will pay to the Corporation and each other aforementioned Person any legal or other expenses reasonably incurred thereby in connection with investigating or defending any claim or proceeding from which Damages may result, as such expenses are incurred. Notwithstanding the foregoing, at the indemnity agreement contained in this Section 2.10(b) shall not apply to amounts paid in settlement of any such claim or proceeding if such settlement is effected without the consent of the Holder, which consent shall not be unreasonably withheld. In no event shall the aggregate amounts payable by any Holder by way of indemnity or contribution under Section 2.10(b) and 2.10(d) exceed the proceeds from the offering received by such Holder (net of any Selling Expenses paid by such Holder), except in the case of fraud or willful misconduct by such Holder.

(c) Promptly after receipt by an indemnified party under this Section 2.10 (the “**Indemnified Party**”) of notice of the commencement of any action (including any governmental action) for which a party may be entitled to indemnification under this Agreement, such Indemnified Party will, if a claim in respect thereof is to be made against any indemnifying party under this Section 2.10 (the “**Indemnifying Party**”), give the Indemnifying Party notice of the commencement thereof. The Indemnifying Party shall have the right to participate in such action and, to the extent the Indemnifying Party so desires, participate jointly with any other Indemnifying Party to which notice has been given, and to assume the defense thereof with counsel mutually satisfactory to the parties. Notwithstanding the foregoing, an Indemnified Party (together with all other indemnified parties that may be represented without conflict by one counsel) shall have the right to retain one separate counsel, with the fees and expenses to be paid by the Indemnifying Party, if representation of such Indemnified Party by the counsel retained by the Indemnifying Party would be inappropriate due to actual or potential differing interests between such Indemnified Party and any other party represented by such counsel in such action. The failure to give notice to the Indemnifying Party within a reasonable time of the commencement of any such action shall relieve such Indemnifying Party of any liability to the Indemnified Party under this Section 2.10, to the extent that such failure materially prejudices the Indemnifying Party’s ability to defend such action. The failure to give notice to the Indemnifying Party will not relieve it of any liability that it may have to any Indemnified Party otherwise than under this Section 2.10.

(d) To provide for just and equitable contribution to joint liability under the Securities Act in any case in which either: (i) any party otherwise entitled to indemnification under this Agreement makes a claim for indemnification pursuant to this Section 2.10 but it is judicially determined (by the entry of a final judgment or decree by a court of competent jurisdiction and the expiration of time to appeal or the denial of the last right of appeal) that such indemnification may not be enforced in such case, notwithstanding the fact that this Section 2.10 provides for indemnification in such case, or (ii) contribution under the Securities Act may be required on the part of any party to this Agreement for which indemnification is provided under this Section 2.10, then, and in each such case, such parties will contribute to the aggregate losses, claims, damages, liabilities, or expenses to which they may be subject (after contribution from others) in such proportion as is appropriate to reflect the relative fault of each of the Indemnifying Party and the Indemnified Party in connection with the statements, omissions, or other actions that resulted in such loss, claim, damage, liability, or expense, as well as to reflect any other relevant equitable considerations. The relative fault of the Indemnifying Party and of the Indemnified Party shall be determined by reference to, among other things, whether the untrue or allegedly untrue statement of a material fact, or the omission or alleged omission of a material fact, relates to information supplied by the Indemnifying Party or by the Indemnified Party and the parties’ relative intent, knowledge, access to information, and opportunity to correct or prevent such statement or omission. Notwithstanding the foregoing, in any such case (x) no Holder will be required to contribute any amount in excess of the public offering price of all such Registrable Securities offered and sold by such Holder pursuant to such registration statement, and (y) no Person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) will be entitled to contribution from any Person who was not guilty of such fraudulent misrepresentation. In no event shall a Holder’s liability pursuant to this Section 2.10(d), when combined with the amounts paid or payable by such Holder pursuant to Section 2.10(b), exceed the proceeds from the offering received by such Holder (net of any Selling Expenses paid by such Holder), except in the case of willful misconduct or fraud by such Holder.

(e) Notwithstanding the foregoing, to the extent that the provisions on indemnification and contribution contained in the underwriting agreement entered into in connection with the underwritten public offering are in conflict with the foregoing provisions, the provisions in the underwriting agreement shall control. Notwithstanding anything to the contrary in this Agreement, the foregoing provisions shall control as to any matter provided for or addressed thereby that is not provided for or addressed by the underwriting agreement.

(f) Unless otherwise superseded by an underwriting agreement entered into in connection with the underwritten public offering, the obligations of the Corporation and Holders under this Section 2.10 shall survive the completion of any offering of Registrable Securities in a registration under this Section 2, and otherwise shall survive the termination of this Agreement or any provision(s) of this Agreement.

2.11 Reports Under Exchange Act. With a view to making available to the Holders the benefits of SEC Rule 144 and any other rule or regulation of the SEC that may at any time permit a Holder to sell securities of the Corporation to the public without registration or pursuant to a registration on Form S-3 (or any successor form), the Corporation shall:

(a) make and keep available adequate current public information, as those terms are understood and defined in SEC Rule 144, at all times after the effective date of the registration statement filed by the Corporation for the IPO;

(b) use commercially reasonable efforts to file with the SEC in a timely manner all reports and other documents required of the Corporation under the Securities Act and the Exchange Act (at any time after the Corporation has become subject to such reporting requirements); and

(c) furnish to any Holder, so long as the Holder owns any Registrable Securities, forthwith upon request (i) to the extent accurate, a written statement by the Corporation that it has complied with the reporting requirements of SEC Rule 144 (at any time after 90 days after the effective date of the registration statement filed by the Corporation for the IPO), the Securities Act, and the Exchange Act (at any time after the Corporation has become subject to such reporting requirements), or that it qualifies as a registrant whose securities may be resold pursuant to Long-Form Registration (at any time after the Corporation so qualifies); and (ii) such other information as may be reasonably requested in availing any Holder of any rule or regulation of the SEC that permits the selling of any such securities without registration (at any time after the Corporation has become subject to the reporting requirements under the Exchange Act) or pursuant to Form S-3 (at any time after the Corporation so qualifies to use such form).

2.12 Limitations on Subsequent Registration Rights; Joinder. From and after the date of this Agreement, the Corporation shall not, without the prior written consent of the Holders of a majority of the Registrable Securities then outstanding, enter into any agreement with any holder or prospective holder of any securities of the Corporation that would (i) provide to such holder or prospective holder the right to include securities in any registration on other than either a pro rata basis with respect to the Registrable Securities or on a subordinate basis after all Holders have had the opportunity to include in the registration and offering all shares of Registrable Securities that they wish to so include, (ii) allow such holder or prospective holder to include such securities in any registration unless, under the terms of such agreement, such holder or prospective holder may include such securities in any such registration only to the extent that the inclusion of such securities will not reduce the number of the Registrable Securities of the Holders that are included, or (iii) allow such holder or prospective holder to initiate a demand for registration of securities held by such holder or prospective holder other than in compliance with Section 2.1(a). This limitation shall not apply to Registrable Securities acquired by any additional Holder that becomes a party to this Agreement in accordance with Section 2.12. The Corporation represents and warrants that it has not granted any Person other than the parties hereto the right to require the Corporation to initiate the registration of any securities or include in any registration any securities owned by such Person.

2.13 Restrictions on Transfer.

(a) Notwithstanding anything to the contrary contained herein, except in the case of (i) a transfer to the Corporation, (ii) a transfer by any Original Equity Owner or any of its Affiliates to its respective equityholders, (iii) a Public Offering, (iv) a sale pursuant to Rule 144 after the completion of the IPO or (v) a transfer in connection with a sale of the Corporation, prior to transferring any Registrable Securities to any Person (including, without limitation, by operation of law), the transferring Holder shall cause the prospective transferee to execute and deliver to the Corporation a Joinder agreeing to be bound by the terms of this Agreement. Any transfer or attempted transfer of any Registrable Securities in violation of any provision of this Agreement shall be void, and the Corporation shall not record such transfer on its books or treat any purported transferee of such Registrable Securities as the owner thereof for any purpose.

2.14 Termination of Registration Rights. The right of any Holder to request registration or inclusion of Registrable Securities in any registration pursuant to Sections 2.1 or 2.2 shall terminate upon the earliest to occur of:

(a) the closing of a Deemed Liquidation Event (as defined in the LLC Agreement);

(b) such time after consummation of the IPO as Rule 144 or another similar exemption under the Securities Act is available for the sale of all of such Holder's shares without limitation during a three-month period without registration; or

(c) the fifth anniversary of the IPO.

3. MNPI Provisions.

3.1 Each Holder acknowledges that the provisions of this Agreement that require communications by the Corporation or other Holders to such Holder may result in such Holder and its Representatives (as defined below) acquiring MNPI (which may include, solely by way of illustration, the fact that an offering of the Corporation's securities is pending or the number of Corporation securities or the identity of the selling Holders).

3.2 Each Holder agrees that it will maintain the confidentiality of such MNPI and, to the extent such Holder is not a natural person, such confidential treatment shall be in accordance with procedures adopted by it in good faith to protect confidential information of third parties delivered to such Holder (“**Policies**”). Notwithstanding the foregoing, a holder may deliver or disclose MNPI to (i) its directors, officers, employees, agents, attorneys, affiliates and financial and other advisors (collectively, the “**Representatives**”), but solely to the extent such disclosure reasonably relates to its evaluation of exercise of its rights under this Agreement and the sale of any Registrable Securities in connection with the subject of the notice, (ii) any federal or state regulatory authority having jurisdiction over such Holder, (iii) any Person if necessary to effect compliance with any law, rule, regulation or order applicable to such Holder, (iv) in response to any subpoena or other legal process, or (v) in connection with any litigation to which such Holder is a party. Further notwithstanding the foregoing, in the case of clause (i) of the prior sentence, the recipients of such MNPI are subject to the Policies or are informed of the confidentiality obligations regarding MNPI in a offset forth in this Section 3.2 and that in the case of clauses (ii) through (v) of the prior sentence, such disclosure is required by law and such Holder shall promptly notify the Corporation of such disclosure to the extent such Holder is legally permitted to give such notice.

Each Holder shall have the right, at any time and from time to time (including after receiving information regarding any potential Public Offering), to elect to not receive any notice that the Corporation or any other Holders otherwise are required to deliver pursuant to this Agreement by delivering to the Corporation a written statement signed by such Holder that it does not want to receive any notices hereunder (an “**Opt-Out Request**”); in which case and notwithstanding anything to the contrary in this Agreement the Corporation and other Holders shall not be required to, and shall not, deliver any notice or other information required to be provided to Holders hereunder to the extent that the Corporation or such other Holders reasonably expect would result in a Holder acquiring MNPI. An Opt-Out Request may state a date on which it expires or, if no such date is specified, shall remain in effect indefinitely. A Holder who previously has given the Corporation an Opt-Out Request may revoke such request at any time, and there shall be no limit on the ability of a Holder to issue and revoke subsequent Opt-Out Requests. Each Holder shall use commercially reasonable efforts to minimize the administrative burden on the Corporation arising in connection with any such Opt-Out Requests.

4. **Black-Out Periods.** Notwithstanding anything in this Section 4 to the contrary, if the Corporation shall furnish to the Holders initiating a registration pursuant to Section 2.1 or 2.2 of this Agreement a certificate signed by the President or Chief Executive Officer of the Corporation stating that the Corporation’s board of directors has made the good faith determination (after consultation with counsel) (i) that use by the Holders of such proposed registration statement for purposes of effecting offers or sales of Registrable Securities pursuant thereto would require, under the Securities Act, premature disclosure in such registration statement of material, nonpublic information concerning any proposed material transaction involving the Corporation; (ii) that such premature disclosure would be materially adverse to the Corporation or such proposed material transaction or would make the successful consummation by the Corporation of any such material transaction significantly less likely; and (iii) that it is therefore essential to defer the filing of such registration statement for purposes of effecting offers or sales of Registrable Securities pursuant thereto, then the right of the Holders to require the Corporation to file such registration statement for purposes of effecting offers or sales of Registrable Securities pursuant thereto shall be suspended for a period (the “**Black Out Period**”) of not more than 60 days after delivery by the Corporation of the certificate referred to above. Notwithstanding the foregoing, (A) if the public announcement of such material transaction is made during a Black Out Period, then the Black Out Period shall terminate without any further action of the parties and the Corporation shall immediately notify such Holders of such termination, and (B) the Corporation may not exercise the right to initiate a Black Out Period more than once in any twelve month period.

5. Miscellaneous.

5.1 Successors and Assigns. The rights under this Agreement may be assigned (but only with all related obligations) by a Holder to a transferee of Registrable Securities that (a) is an Affiliate of a Holder; (b) is a Holder's Immediate Family Member or trust for the benefit of an individual Holder or one or more of such Holder's Immediate Family Members; or (c) after such transfer, holds at least 100,000 shares of Registrable Securities (subject to appropriate adjustment for equity interest splits, equity interest dividends, combinations, and other recapitalizations). Notwithstanding the foregoing, (x) the Corporation is, within a reasonable time after such transfer, furnished with written notice of the name and address of such transferee and the Registrable Securities with respect to which such rights are being transferred; and (y) such transferee agrees in a written instrument delivered to the Corporation to be bound by and subject to the terms and conditions of this Agreement. For the purposes of determining the number of shares of Registrable Securities held by a transferee, the holdings of a transferee (i) that is an Affiliate or stockholder of a Holder; (ii) who is a Holder's Immediate Family Member; or (iii) that is a trust for the benefit of an individual Holder or such Holder's Immediate Family Member shall be aggregated together and with those of the transferring Holder. Further notwithstanding the foregoing, all transferees who would not qualify individually for assignment of rights shall, as a condition to the applicable transfer, establish a single attorney-in-fact for the purpose of exercising any rights, receiving notices, or taking any action under this Agreement. The terms and conditions of this Agreement inure to the benefit of and are binding upon the respective successors and permitted assignees of the parties. Nothing in this Agreement, express or implied, is intended to confer upon any party other than the parties to this Agreement or their respective successors and permitted assignees any rights, remedies, obligations or liabilities under or by reason of this Agreement, except as expressly provided in this Agreement.

5.2 Business Days. If any time period for giving notice or taking action hereunder expires on a day that is not a business day, the time period shall automatically be extended to the immediately following business day.

5.3 Governing Law. This Agreement shall be governed by the internal law of the State of Delaware, without regard to conflict of law principles that would result in the application of any law other than the law of the State of Delaware.

5.4 Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Counterparts may be delivered via facsimile, electronic mail (including pdf or any electronic signature complying with the U.S. federal ESIGN Act of 2000, the Uniform Electronic Transactions Act or other applicable law) or other transmission method and any counterpart so delivered shall be deemed to have been duly and validly delivered and be valid and effective for all purposes.

5.5 Titles and Subtitles. The titles and subtitles used in this Agreement are for convenience only and are not to be considered in construing or interpreting this Agreement.

5.6 No Strict Construction. The language used in this Agreement shall be deemed to be the language chosen by the parties hereto to express their mutual intent, and no rule of strict construction shall be applied against any party.

5.7 Notices.

(a) All notices and other communications given or made pursuant to this Agreement shall be in writing and shall be deemed effectively given upon the earlier of actual receipt or (i) personal delivery to the party to be notified; (ii) when sent, if sent by electronic mail during the recipient's normal business hours, and if not sent during normal business hours, then on the recipient's next business day; (iii) five days after having been sent by registered or certified mail, return receipt requested, postage prepaid; or (iv) one business day after the business day of deposit with a nationally recognized overnight courier, freight prepaid, specifying next-day delivery, with written verification of receipt. All communications shall be sent to the respective parties at their addresses as set forth on Schedule A to this Agreement, or to the principal office of the Corporation and to the attention of the Chief Executive Officer, in the case of the Corporation, or to such email address, or address as subsequently modified by written notice given in accordance with this Section 5.7. If notice is given to the Corporation, a copy (which shall not constitute notice) shall also be sent to Latham & Watkins LLP, 555 Eleventh Street, NW, Suite 1000, Washington, DC 20041, *Attention: Paul Sheridan*.

(b) **Consent to Electronic Notice.** Each Holder consents to the delivery of any stockholder notice pursuant to the Delaware General Corporation Law (the "DGCL"), as amended or superseded from time to time, by electronic transmission pursuant to Section 232 of the DGCL (or any successor thereto) at the electronic mail address set forth below such Holder's name on the Schedules to this Agreement, as updated from time to time by notice to the Corporation, or as on the books of the Corporation. To the extent that any notice given by means of electronic transmission is returned or undeliverable for any reason, the foregoing consent shall be deemed to have been revoked until a new or corrected electronic mail address has been provided, and such attempted electronic notice shall be ineffective and deemed to not have been given. Each Holder agrees to promptly notify the Corporation of any change in such stockholder's electronic mail address, and that failure to do so shall not affect the foregoing.

5.8 Amendments and Waivers. Any term of this Agreement may be amended, modified or terminated and the observance of any term of this Agreement may be waived (either generally or in a particular instance, and either retroactively or prospectively) only with the written consent of the Corporation and the holders of a majority of the Registrable Securities then outstanding. Notwithstanding the foregoing, no such amendment, modification, termination or waiver that would materially and adversely affect a Holder in a manner materially different than any other Holder, shall be effective against such Holder without the consent of such Holder that is materially and adversely affected thereby. Notwithstanding the foregoing, this Agreement may not be amended, modified or terminated and the observance of any term of this Agreement may not be waived with respect to any Holder without the written consent of such Holder, unless such amendment, modification, termination, or waiver applies to all Holders in the same fashion. Notwithstanding the foregoing, Schedule A to this Agreement may be amended by the Corporation from time to time to add transferees of any Registrable Securities in compliance with the terms of this Agreement without the consent of the other parties; and Schedule A to this Agreement may also be amended by the Corporation after the date of this Agreement without the consent of the other parties to add information regarding any additional Holder who becomes a party to this Agreement in accordance with Section 2.12. The Corporation shall give prompt notice of any amendment, modification or termination of this Agreement or waiver under this Agreement to any party to this Agreement that did not consent in writing to such amendment, modification, termination, or waiver. No waivers of or exceptions to any term, condition, or provision of this Agreement, in any one or more instances, shall be deemed to be or construed as a further or continuing waiver of any such term, condition, or provision.

5.9 Remedies. The parties to this Agreement shall be entitled to enforce their rights under this Agreement specifically (without posting a bond or other security), to recover damages caused by reason of any breach of any provision of this Agreement and to exercise all other rights existing in their favor. The parties hereto agree and acknowledge that a breach of this Agreement would cause irreparable harm and money damages would not be an adequate remedy for any such breach and that, in addition to any other rights and remedies existing hereunder, any party shall be entitled to specific performance and/or other injunctive relief from any court of law or equity of competent jurisdiction (without posting any bond or other security) in order to enforce or prevent violation of the provisions of this Agreement.

5.10 Severability. In case any one or more of the provisions contained in this Agreement is for any reason held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision of this Agreement, and such invalid, illegal, or unenforceable provision shall be reformed and construed so that it will be valid, legal, and enforceable to the maximum extent permitted by law.

5.11 Entire Agreement. Upon the effectiveness of this Agreement, the Prior Agreement shall be deemed amended and restated and superseded and replaced in its entirety by this Agreement and shall be of no further force or effect. This Agreement (including any Schedules and Exhibits to this Agreement) constitutes the full and entire understanding and agreement among the parties with respect to the subject matter of this Agreement, and any other written or oral agreement relating to the subject matter of this Agreement existing between the parties is expressly canceled.

5.12 Dispute Resolution. The parties (a) irrevocably and unconditionally submit to the jurisdiction of the state courts of the State of Delaware and to the jurisdiction of the United States District Court for the District of Delaware for the purpose of any suit, action or other proceeding arising out of or based upon this Agreement, (b) agree not to commence any suit, action or other proceeding arising out of or based upon this Agreement except in the state courts of the State of Delaware or the United States District Court for the District of Delaware, and (c) waive, and agree not to assert, by way of motion, as a defense, or otherwise, in any such suit, action or proceeding, any claim that it is not subject personally to the jurisdiction of the above-named courts, that its property is exempt or immune from attachment or execution, that the suit, action or proceeding is brought in an inconvenient forum, that the venue of the suit, action or proceeding is improper or that this Agreement or the subject matter of this Agreement may not be enforced in or by such court.

(a) WAIVER OF JURY TRIAL: EACH PARTY WAIVES ITS RIGHTS TO A JURY TRIAL OF ANY CLAIM OR CAUSE OF ACTION BASED UPON OR ARISING OUT OF THIS AGREEMENT, THE OTHER TRANSACTION DOCUMENTS, THE SECURITIES OR THE SUBJECT MATTER OF THIS AGREEMENT OR OF THE TRANSACTION DOCUMENTS AND THE SECURITIES. THE SCOPE OF THIS WAIVER IS INTENDED TO BE ALL-ENCOMPASSING OF ANY AND ALL DISPUTES THAT MAY BE FILED IN ANY COURT AND THAT RELATE TO THE SUBJECT MATTER OF THIS TRANSACTION, INCLUDING, WITHOUT LIMITATION, CONTRACT CLAIMS, TORT CLAIMS (INCLUDING NEGLIGENCE), BREACH OF DUTY CLAIMS, AND ALL OTHER COMMON LAW AND STATUTORY CLAIMS. THIS SECTION HAS BEEN FULLY DISCUSSED BY EACH OF THE PARTIES TO THIS AGREEMENT AND THESE PROVISIONS WILL NOT BE SUBJECT TO ANY EXCEPTIONS. EACH PARTY TO THIS AGREEMENT FURTHER WARRANTS AND REPRESENTS THAT SUCH PARTY HAS REVIEWED THIS WAIVER WITH ITS LEGAL COUNSEL, AND THAT SUCH PARTY KNOWINGLY AND VOLUNTARILY WAIVES ITS JURY TRIAL RIGHTS FOLLOWING CONSULTATION WITH LEGAL COUNSEL.

5.13 No Recourse. Notwithstanding anything to the contrary in this Agreement, the Corporation and each Holder agrees and acknowledges that no recourse under this Agreement or any documents or instruments delivered in connection with this Agreement, shall be had against any current or future director, officer, employee, general or limited partner or member of any Holder or of any Affiliate or assignee thereof, whether by the enforcement of any assessment or by any legal or equitable proceeding, or by virtue of any statute, regulation or other applicable law, it being expressly agreed and acknowledged that no personal liability whatsoever shall attach to, be imposed on or otherwise be incurred by any current or future officer, agent or employee of any Holder or any current or future member of any Holder or any current or future director, officer, employee, partner or member of any Holder or of any Affiliate or assignee thereof, as such for any obligation of any Holder under this Agreement or any documents or instruments delivered in connection with this Agreement for any claim based on, in respect of or by reason of such obligations or their creation.

5.14 Further Assurances. In connection with this Agreement and the transactions contemplated hereby, each Holder shall execute and deliver any additional documents and instruments and perform any additional acts that may be necessary or appropriate to effectuate and perform the provisions of this Agreement and the transactions contemplated hereby.

[Remainder of Page Intentionally Left Blank]

The parties have executed this Agreement as of the date first written above.

CORPORATION:

X-ENERGY, INC.

By:

Name: Steven Miller
Title: Executive Vice President

Schedule A-1

The parties have executed this Agreement as of the date first written above.

HOLDER:

By:

Name:

Title:

Schedule A-2

SCHEDULE A

HOLDERS

Name

Address

Email

Schedule A-3

EXHIBIT A

REGISTRATION RIGHTS AGREEMENT JOINDER

The undersigned is executing and delivering this Joinder pursuant to the Registration Rights Agreement dated as of _____, 20__ (as the same may hereafter be amended, the “**Registration Rights Agreement**”), among X-Energy, Inc., a Delaware corporation (the “**Corporation**”), and the other person named as parties to the Registration Rights Agreement.

By executing and delivering this Joinder to the Corporation, and upon acceptance hereof by the Corporation upon the execution of a counterpart hereof, the undersigned hereby agrees to become a party to, to be bound by, and to comply with the provisions of the Registration Rights Agreement as a Holder of Registrable Securities in the same manner as if the undersigned were an original signatory to the Registration Rights Agreement, and the undersigned’s shares of Class A Common Stock (or shares of Class A Common Stock to be issued upon the conversion of the undersigned’s shares of Class B Common Stock) shall be included as Registrable Securities under the Registration Rights Agreement to the extent provided in the Registration Rights Agreement. The Corporation is directed to add the address below the undersigned’s signature on this Joinder to the Schedule of Holders attached to the Registration Rights Agreement.

Accordingly, the undersigned has executed and delivered this Joinder as of the day of _____, 20__.

Signature of Stockholder

Print Name of Stockholder

Its:

Address:

Agreed and Accepted as of _____, 20__

X-Energy, Inc.

By: _____

Name:

Its:

Exhibit A-1

JOINT VENTURE AGREEMENT

THIS JOINT VENTURE AGREEMENT ("Agreement"), effective as of November 23, 2021 ("Effective Date"), is entered into by and between INTUITIVE MACHINES, LLC, a Texas limited liability company with offices at 3700 Bay Area Blvd., #100, Houston, Texas 77058 ("IM") and X-ENERGY, LLC, a Maryland limited liability company with offices at 801 Thompson Avenue, Rockville, Maryland 20852 ("X-ENERGY"). IM and X-ENERGY are hereinafter sometimes referred to individually as a "Member" and collectively as the "Members."

WITNESSETH:

WHEREAS, the Government of the United States of America, acting through the National Aeronautics and Space Administration and Department of Energy ("Client"), anticipates issuance of a request for proposals for selection of a funding award/contract for lunar Fission Surface Power ("FSP") as a Full and Open competitive procurement ("Solicitation"); and

WHEREAS, IM and X-ENERGY believe that, given IM's aerospace know-how and X-ENERGY's nuclear reactor and fuels expertise, formation of a joint venture ("Joint Venture") to submit a proposal in response to the Solicitation, and if awarded, to perform the resulting contract, will be to their mutual benefit, and in the best interest of the Client;

NOW, THEREFORE, in consideration of these mutual covenants and conditions and the other good and valuable consideration set forth herein, IM and X-ENERGY agree as follows.

1.0 Purpose

The purpose of the Joint Venture is to bid upon and, if successful, perform the contract awarded pursuant to the Solicitation ("Contract"), and to do any and all things necessary, and/or incidental to that purpose.

2.0 Limited Liability Company

The Joint Venture shall submit its proposal via IX, LLC, a Delaware limited liability company with offices at 3700 Bay Area Blvd., #100, Houston, Texas 77058 ("LLC"). This Agreement shall be subject to the Members' negotiation and execution of a Limited Liability Company Agreement, which shall contain terms and conditions consistent with the terms and conditions set forth in this Agreement, unless otherwise mutually agreed upon by the Members, and as further limited by Section 12.6 of this Agreement. The LLC shall register in SAM.gov and obtain a separate DUNS number. The LLC has obtained CAGE Code No. 8UU91.

3.0 Profit Interests

The Members shall share profits and losses in the Joint Venture in proportion to their Profit Interests. IM shall have a Profit Interest of fifty-one percent (51%) in the Joint Venture. X-ENERGY shall have a Profit Interest of forty-nine percent (49%) in the Joint Venture. Profit Interests in the Joint Venture shall not be subject to assignment or transfer without the approval of both Members. Should the FSP requirements result in a materially disproportionate share of the work being performed by one Member, and thus not reasonably reflective of the 51/49 Profit Interest split, the Members shall equitably adjust the Profit Interest to more reasonably reflect such disproportionate performance.

Each Member shall submit invoices to the LLC "at cost" and without fee. Fee will be billed to the Client at the LLC/Joint Venture level and shared by the Members in accordance with the Profit Interests set forth above.

4.0 Project Management

4.1 Joint Venture Committee. The Joint Venture shall be governed by a Joint Venture Committee, consisting of two (2) members appointed by IM, two (2) members appointed by X-ENERGY, and one (1) member appointed by IBX, LLC ("IBX"). Joint Venture Committee decisions shall be made by affirmative vote of the majority of Committee members, with the exception of extraordinary decisions identified herein that shall require unanimous approval of the Members.

4.2 Project Manager. The Joint Venture shall have a Project Manager, who shall be appointed by the Joint Venture Committee and be responsible for, among other things: (i) if a Contract is awarded to the LLC, day-to-day performance of the Contract, as well as negotiation of modifications and amendments to the Contract; and (ii) reporting to and implementing direction provided by the Joint Venture Committee.

5.0 Responsibilities

5.1 Proposal Efforts. The Joint Venture shall have a Capture Manager, who shall be appointed by the Joint Venture Committee and be the primary liaison with the Client during the proposal process. The Members shall work together in preparing proposal submissions in connection with the Solicitation. All proposal submissions shall be in the name of the LLC/Joint Venture and shall be approved and signed by both Members. Any decision to protest the award decision, or other procurement decision, shall also require approval of both Members. The Members shall approve the content of their respective proposal contributions submitted in connection with the Solicitation. Unless otherwise agreed, each Member shall be responsible for its own costs incurred in connection with proposal preparation efforts in response to the Solicitation.

5.2 IBX Capture and Proposal Services. Notwithstanding Section 5.1, IM and X-ENERGY agree that the reasonable fees of IBX and/or its consultants or affiliates in connection with capture and proposal preparation efforts shall be apportioned among them in proportion to their total proposed costs, as reflected in the final Phase I FSP cost proposal submitted in response to the Solicitation.

5.3 Negotiation of the Contract. The Project Manager shall be responsible for negotiating the Contract and any subsequent negotiation of task orders or modifications to the Contract.

5.4 Source of Labor. The Joint Venture shall be unpopulated and staffed with existing personnel of IM and X-ENERGY, and other individuals, as applicable. IM and X-ENERGY shall be responsible for their respective labor costs, which will be passed through to the LLC. If desired, the Members may mutually agree on an alternative staffing approach to improve the Joint Venture's competitive position. The Joint Venture may also utilize existing labor markets to maintain the necessary staffing throughout the duration of Contract performance.

5.5 Performance of Contract. The Project Manager shall perform the day-to-day management and administration of the Contract and shall have overall responsibility for performance, subject to oversight and direction of the Joint Venture Committee.

5.6 Service Agreements. The Joint Venture may enter into Service Agreements with individual Members and other third party providers for back-office and/or support services on terms and conditions set forth therein. All Service Agreements shall be subject to approval of the Joint Venture Committee.

5.7 Equipment and Facilities. Any equipment or facilities acquired by the Joint Venture will be held in the name of the Joint Venture and considered Joint Venture property.

6.0 Bank Account

An operating account in the name of the Joint Venture shall be established at a banking institution designated by the Joint Venture Committee. All receipts of the Joint Venture shall be deposited into the bank account, and all expenses of the Joint Venture shall be paid from the bank account. The Joint Venture Committee shall designate in writing the person or persons who may sign on behalf of the Joint Venture.

7.0 Accounting and Records

Accounting and other administrative records relating to the Joint Venture shall be kept in the offices of IM at 3700 Bay Area Blvd., #100, Houston, Texas 77058. Upon completion of the Contract or sooner termination of this Agreement, the final records of the Joint Venture will be retained by IM. X-ENERGY may inspect the records of the Joint Venture during normal business hours upon reasonable advance notice to IM.

8.0 Term and Termination

8.1 Term. The term of this Agreement shall commence on the Effective Date and, unless sooner terminated in accordance with the provisions hereof, or otherwise mutually agreed in writing, shall continue through completion and closeout of the Contract, including all options, modifications and extensions thereto.

8.2 Termination Based on Unsuccessful Proposal. This Agreement shall terminate upon occurrence of the any of the following events: (i) the inability of the Members to agree, despite good faith efforts, on the terms and conditions of an LLC Agreement; (ii) the inability of the Members to agree, despite good faith efforts, on a proposal to be submitted by the Joint Venture in response to the Solicitation; (iii) a final decision by the Client to cancel the Solicitation; or (iv) award of a Contract to an offeror other than the LLC and final resolution of any and all challenges upholding such award.

8.3 Termination for Cause. Either Member may terminate this Agreement if: (i) the other Member fails to correct and cure a material breach of this Agreement within thirty (30) days after receipt of written notice from the non-breaching Member describing the breach in reasonable detail, (ii) the other Member engages in illegal or criminal conduct in connection with performance of this Agreement; (iii) the other Member is suspended or debarred from doing business with the United States Government or otherwise becomes ineligible to perform the Contract for any reason; (iv) the other Member files, or has filed against it, a voluntary or involuntary petition in bankruptcy that is not dismissed within sixty (60) days; or (v) the other Member dissolves or ceases business operations for any reason. Termination hereunder shall be without prejudice to any rights or remedies that a Member may have under this Agreement or applicable law.

8.4 Force Majeure. Neither Member shall be liable for any delay or failure of performance caused by: (i) acts of God; (ii) fires; (iii) floods; (iv) epidemics or pandemics, including without limitation, COVID-19; (v) quarantine restrictions; (vi) strikes; (vii) freight embargoes; (viii) unusually severe weather; or (ix) any other circumstance beyond its reasonable control and without its fault or negligence.

9.0 Disputes

The Members shall submit any unresolved dispute arising out of or relating to this Agreement to the managing executive officer of each Member for resolution. If a dispute cannot be resolved by negotiation, it shall be submitted to the American Arbitration Association ("AAA") for arbitration under the Commercial Arbitration Rules before a single arbitrator. The arbitration shall take place in Delaware unless the Members agree to a different venue. This provision to arbitrate shall be specifically enforceable in any court of competent jurisdiction. The written decision of the arbitrator shall be final and conclusive on the Members and judgment thereon may be entered in a court of competent jurisdiction. The pendency of any arbitration proceeding shall not relieve either Member from continued performance in accordance with this Agreement.

10.0 Continued Performance

Each Member agrees to continue and complete performance of the Contract despite the withdrawal of the other Member.

11.0 Proprietary Information

The Nondisclosure Agreement between the Members dated November 23, 2021 is hereby incorporated into this Agreement by reference, and shall survive termination hereon in accordance with its terms.

12.0 Other Provisions

12.1 Entire Agreement. This Agreement, together with the LLC Agreement, embodies the complete agreement and understanding among the Members with respect to the subject matter hereof and supersedes any prior understandings, agreement, and representations, written or oral, by or among the Members related to the subject matter hereof.

12.2 Amendment. Any amendment to this Agreement shall not be effective unless it is in a writing executed by both Members.

12.3 Applicable Law. All questions concerning the construction, validity, and interpretation of this Agreement and the performance of the obligations imposed by this Agreement shall be governed by the laws of the State of Delaware, exclusive of conflicts of law principles.

12.4 Assignment. Neither Member shall delegate or assign any of its rights, duties or responsibilities in and to this Agreement or any interest arising hereunder without the prior written consent of the other Member. Any attempted assignment in violation of this paragraph shall be null and void.

12.5 Severability. If any provision of this Agreement or part of such provision is or becomes invalid or unenforceable, then the remaining provisions hereof shall continue to be effective.

12.6 Precedence/Conflict. To the extent there is a conflict between the terms of this Agreement and those of the Limited Liability Company Agreement, the terms of this Agreement shall control.

12.7 Waivers. No waiver by a Member of any of its rights or remedies shall be construed as a waiver by such Member of any other rights or remedies that such Member may have under this Agreement.

12.8 Authority. The person signing below on behalf of each Member represents and warrants that he/she has the authority to execute this Agreement on behalf of such Member and bind such Member to the terms hereof.

12.9 Counterparts. This Agreement may be executed simultaneously in two or more counterparts, each of which shall be deemed an original and all of which, when taken together, constitute one and the same document. The signature of any Member to any counterpart shall be deemed a signature to, and may be appended to, any other counterpart. The Members agree to accept the authenticity of electronic signatures in lieu of originals.

IN WITNESS WHEREOF, the following authorized representatives of the Members have executed this Agreement as of the Effective Date.

INTUITIVE MACHINES, LLC

By: /s/ Erik Sallee
Title: Chief Financial Officer

X-ENERGY, LLC

By: /s/ Steven L. Miller
Title: Senior Vice President and General Counsel

IX, LLC

By: /s/ Steve Altemus
Title: President & CEO



Professional Services Agreement

No. 21-41

This Professional Services Agreement ("PSA" or "Agreement"), effective December 19, 2021 is made and entered into by and between **X Energy, LLC** ("X- energy"), a Maryland limited liability company, having an office at 801 Thompson Avenue, Suite 200, Rockville, MD, 20852 and **IBX** ("Company"), having an office at 801 Thompson Avenue, Suite 400, Rockville, MD, 20852.

WHEREAS X-energy wishes to secure Company's performance of consulting and other professional services ("Project") and;

WHEREAS, Company wishes to enter into an agreement with X-energy for the performance of said services in exchange for the fees set forth herein;

NOW THEREFORE, in consideration of the mutual covenants contained in this Agreement and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

I. DESCRIPTION OF PROFESSIONAL SERVICES

Company shall provide to X-energy consulting and professional services ("Services") subject to the Terms and Conditions attached hereto as Exhibit A. Services are described in specific Task Assignment Order(s).

II. TASK ORDERS AND PURCHASE ORDERS

X-energy shall direct Company to perform services to be provided based on individual Purchase Order(s) issued by an authorized member of the X-energy Procurement Department. Any costs incurred by Company on behalf of X-energy without an authorized X-energy shall be borne by Company. The Company shall provide all resources necessary to deliver and/or perform the Purchase Order(s). Company is not authorized to incur expenses or make commitments in excess of the Total Value Not to Exceed listed in each Task Order/Purchase Order and X-energy is not obligated to compensate Company beyond the Total Task Order/Purchase Order Value Not to Exceed listed in each Task Order or Purchase Order. The Total Task Order/Purchase Order Value Not to Exceed listed in each Task Order or Purchase Order may be increased only by a written instrument signed by an authorized Procurement Representative of X-energy.

III. CONTRACT VALUE AND FUNDING

The Contract Value and Funding limits of this PSA are the sum of all awarded Task Orders or Purchase Orders in U.S. Dollars.

IV. LABOR RATES

Company's fully loaded labor rates and approved labor categories are set forth in Exhibit C. All labor rates include direct costs and indirect costs, including without limitation, G&A and profit, and shall remain fixed for the term of this PSA. All Company Labor Rates shall be in U.S. Dollars.

V. CONTRACTOR AND X ENERGY ADMINISTRATIVE CONTACTS

IBX

801 Thompson Avenue.

Suite 400

Rockville MD 20852

Tel: [**]

Email: [**]

X Energy, LLC

801 Thompson Avenue

Suite 200

Rockville, MD 20852

Tel. [**]

E-Mail: [**]

IN WITNESS WHEREOF, the parties have, through their authorized representatives, executed this Agreement, which consists of the Terms and Conditions and all Exhibits and attachments hereto, to be effective as of the date first set forth above.

IBX	X Energy, LLC
By: <u>/s/Shelley Johnson</u>	By: <u>/s/Edward Morris</u>
Name: <u>Shelley Johnson</u>	Name: <u>Edward Morris</u>
Title: <u>Vice President</u>	Title: <u>Subcontracts Manager</u>
Date: <u>February 8, 2022</u>	Date: <u>February 9, 2022</u>

Exhibit A

TERMS AND CONDITIONS

1. Services.

(a) Company will perform the Services described in the Statement of Work ("SOW"), set forth in Exhibit D. Company shall perform the Services in a competent, diligent, good faith, timely and professional manner and in accordance with the SOW. Company shall comply with applicable policies and standards of X-energy, as well as all applicable federal, state or local laws and regulations. Company shall comply with the additional terms and conditions of the contract between X-energy and the customer of client for whom the Services are performed ("Customer").

(b) Company agrees not to subcontract or assign any portion of the Services or this Agreement, or use any subcontractor, Company or independent contractor (collectively, "Subcontractor") to perform the Services, without X-energy's prior written consent. If X-energy provides written consent for the Company to use a Subcontractor: (i) Company shall be responsible in all respects for compliance by the Subcontractor with all terms and conditions of this Agreement; and (ii) Company shall obtain Subcontractor's written consent to be bound by the confidentiality obligations herein prior to the commencement of performance.

2. Effective Date; Term. This Agreement shall be effective as of the date first above written ("Effective Date") and shall continue in full force and effect until the first of the following to occur: (a) X-energy notifies Company that the Services have been completed; (b) the Contract Value has been reached and has not been increased in accordance with this Agreement; or (c) this Agreement has been terminated in accordance with Section 11 hereof.

3. Invoicing Invoices shall be submitted no more or less than once a month, by the 15-**calendar day** of the month, for the number of hours worked by individual, by labor category through the end of the month. To the extent that Subcontractor submits its invoices by the 5th calendar day of the month, X-energy will pay Subcontractor Net 30 days from receipt of an approved invoice.

- (a) A separate, distinct invoice number.
- (b) Separate invoices shall be submitted for each Purchase Order;
- (c) The current and cumulative charges for the billing period, with hours and dollars provided for each authorized individual by labor category at the rates provided in this Agreement;
- (d) Charges captured in submitted invoices shall be within the confines the Period of Performance and/or the Exhibit D – Statement of Work described in the Purchase Order (if applicable);
- (e) Copy of each individual timesheet, Receipts of all ODCs & travel;
- (f) Invoices shall be signed and dated by an authorized employee of the Company, verifying that the costs included are correct.
- (g) All invoices shall be sent to AccountsPayable@X-energy.com by the 15th calendar day of the month.**

- (h) X-energy shall reimburse Subcontractor for all expenses reasonably incurred in accordance with the Purchase Order, provided that reimbursement for such types of expenses have been pre-approved in writing by the X-energy Subcontract Administrator. All Subcontractor expenses not pre-approved by the X-energy Subcontract Administrator or not otherwise meeting the requirements of this Agreement or the Purchase Order to which it applies shall be reimbursed at the sole discretion of X-energy. **Travel shall be reimbursed based on actual costs incurred in accordance with the Federal Travel Regulations (FTR) <https://www.gsa.gov/policy-regulations/regulations/federal-travel-regulation-ftr>**
- (h) X-energy shall reimburse Subcontractor for all expenses reasonably incurred in accordance with the Purchase Order, provided that reimbursement for such types of expenses have been pre-approved in writing by the X-energy Subcontract Administrator. All Subcontractor expenses not pre-approved by the X-energy Subcontract Administrator or not otherwise meeting the requirements of this Agreement or the Purchase Order to which it applies shall be reimbursed at the sole discretion of X-energy.

4. Payment Terms

(a) The amount to be paid to Company for labor shall be computed by multiplying the applicable hourly billing rate set forth in Exhibit C by the number of direct hours performed, unless on a monthly retainer. Fractional parts of an hour shall be payable on a prorated basis as rounded to quarter-hours.

(b) Company Invoiced amounts are due and payable by X-energy no later than thirty (30) days after receipt of an approved, complete and accurate invoice. X-energy shall have the right to offset against invoices any amounts due from Company to X-energy.

(c) All Company invoices shall be paid in U.S. Dollars.

5. Confidentiality. In the event either party determines that it is necessary to provide confidential, proprietary, or trade secret information to the other party with respect to the Services performed under this Agreement, such disclosure will be made only after advance written notice, and only under the terms of a separate non-disclosure agreement.

6. Ownership of Work Product. Company agrees that all work product developed by her alone or in conjunction with others in connection with the performance of services pursuant to this Agreement is and shall be the sole property of Client, and Company shall retain no ownership, interest, or rights therein. Work product includes but is not limited to reports, graphics, memoranda, slogans, and taglines.

7. Contractor Relationship. Company's relationship with Client will be that of an independent contractor, and nothing in this Agreement is intended to, or should be construed to, create a partnership, agency, joint venture, or employment relationship. No part of Company's compensation will be subject to withholding by Client for the payment of any social security, federal, state, or any other employee payroll taxes.

8. Termination. Either party may terminate this agreement at any time by written notice to the other party. This agreement may be terminated by either party by giving (30) thirty days written notice to the other party. Termination under this paragraph shall be without prejudice to any sums therefore accrued, provided however, that X Energy LLC may retain any final payment otherwise due to Company pending Company's satisfactory completion of any work remaining under assigned TAO(s), or such other satisfactory completion as may be agreed to by X Energy LLC.

9. Suspension of Work. X Energy shall have the right to suspend the performance of the Work at any time by giving twenty-four (24) hours prior notice in writing of such action plus such reasonable time as may be required for the suspension of the Work so as to beneficially conserve what Work has been done or is actually in progress for future use. No prior notice in writing is required if suspension is necessary as a result of Contractor violating safety procedures. Suspension of the Work shall be made without prejudice to the claims of either party respect of any antecedent breach of the terms of this Contract. Contractor shall, during the period of suspension, minimize all costs associated with the suspension. Upon receipt of any notice of suspension, Contractor shall, unless the notice requires otherwise:

- (a) Immediately discontinue the performance of the Work to the extent specified in the notice;
- (b) Take no further action relative to subcontractors or suppliers with respect to suspended Work other than to the extent required in the notice;
- (c) Promptly make every reasonable effort to obtain suspension upon terms satisfactory to X-Energy of all subcontracts and purchase agreements to the extent they relate to portions of the Work suspended; and
- (d) Upon receipt of notice to resume the suspended Work, promptly as practicable resume the suspended Work to the extent required in the notice.

As compensation to Contractor for any suspension, Contractor shall be reimbursed for reasonable costs incurred as a result of the suspension, such as mobilization and demobilization of Contractor and its subcontractors and reasonable costs in bringing the Work to an orderly state of suspension, as well as cancellation costs and any expenses reasonably incurred, including escalation costs. Any suspension or Work stoppage due to Contractor's or Contractor's subcontractors' or agents' safety violations shall be at Contractor's expense. In addition, standby costs incurred by Contractor during the period of suspension (except for safety violations) incurred in keeping itself or its subcontractors committed to the Work in a standby status shall be paid by X Energy on a reimbursable basis.

10. Limitation of Liability. In no event shall X-energy be liable for any special, indirect, incidental or consequential damages (including, but not limited to, lost profits, lost business opportunities, loss of use or equipment down time, and loss of or corruption to data) arising out of or relating to this Agreement, regardless of the legal theory under which such damages are sought, and even if Company has been advised of the possibility of such damages or loss.

11. Indemnification. Company shall indemnify, defend and hold harmless X-energy and its affiliates, as well as X-energy's and its affiliates' members, managers, officers, directors, employees, agents, representatives from and against any and all claims, suits, causes of action, proceedings, liabilities, injuries to persons or property, cost and expenses (including reasonable attorneys' fees) arising out of or relating to any breach of this Agreement by, or violation of law or regulation, negligence, or willful misconduct of, Company, its owners, directors, officers, employees, agents, representatives, subcontractors and/or suppliers. Such damages include but are not limited to injury or death of persons, loss of or damage to property (including loss of use thereof), and economic loss, including lost profit or opportunity, pollution, and environmental impairment, and natural resource damages.

(b) X-energy shall promptly notify Company of any claim for which indemnification is sought under this Agreement.

12. Non-Waiver of Rights. The failure of either party to insist upon performance of any provision of this Agreement, or to exercise any right, remedy or option provided herein, shall neither be construed as a waiver of the right to assert any of the same or to rely on any such terms or conditions at any time thereafter, nor in any way affect the validity of this Agreement.

13. Severability. If any covenant, condition, term, or provision contained in this Agreement is held or finally determined to be invalid, illegal, or unenforceable in any respect, in whole or in part, such covenant, condition, term, or provision shall be severed from this Agreement, and the remaining covenants, conditions, terms and provisions contained herein shall continue in force and effect, and shall in no way be affected, prejudiced or disturbed thereby.

14. Assignment. Neither party may sell, assign, transfer, or otherwise convey any of its rights or delegate any of its duties under this Agreement without the prior written consent of the other party, which consent may not be unreasonably withheld. Notwithstanding the foregoing, X-energy may transfer or assign its rights hereunder to any successor in interest to all or substantially all of its assets

15. Applicable Law. This Agreement shall be governed by and construed under the laws of the State of Maryland.

16. Disputes. X-energy and the Company agree to enter into negotiations to resolve any dispute arising under or relating to this Agreement. Both parties agree to negotiate in good faith to attempt to reach a mutually agreeable settlement within a reasonable amount of time.

If negotiations are unsuccessful, either Party may initiate litigation in a state or federal court of competent jurisdiction within Montgomery County of the State of Maryland. By its signature below, each party submits to personal jurisdiction and venue in such courts.

Pending any decision, appeal or judgment referred to in this provision or the settlement of any dispute arising under this Agreement, Company shall proceed diligently with the performance of this Agreement.

17. Waiver or Modification. This Agreement may be modified, or part or parts hereof waived, only by an instrument in writing specifically referencing this Agreement and signed by an authorized representative of the party against whom enforcement of the purported modification or waiver is sought.

18. Conflicting Obligations. Company agrees to immediately inform X-energy in writing of any apparent conflicts between Company's work for X-energy and any obligations Company may have to preserve the confidentiality of another's proprietary information or materials. Otherwise, X-energy may conclude that no such conflict exists and Company agrees thereafter to make no such claim against X-energy. During the term hereof, Company will not engage in outside activities which create a conflict of interest with X-energy business activities. During the term of this Agreement and the six-month period thereafter, Company shall not solicit, hire or retain any X-energy employee.

19. Export Control. Company acknowledges that the performance of this Agreement is subject to compliance with applicable United States laws, regulations, and/or orders, including those that relate to the export of materials, equipment, software, or technology, such as the U.S. Department of Energy regulations found in 10 C.F.R. Part 810, the U.S. Nuclear Regulatory Commission regulations in 10 C.F.R. Part 110, the International Traffic in Arms Regulations ("ITAR") found in 22 C.F.R. Parts 120-130 controlled by the U.S. Department of State or the Export Administration Regulations found in 15 C.F.R. Part 730 et seq. ("EAR") controlled by the U.S. Department of Commerce, as may be amended (collectively, "Export Control Laws"). Company shall comply with all Export Control Laws. Company shall not export, re-export, transfer, or retransfer, directly or indirectly, any technology, data, services, or hardware, except as permitted by such Export Control Laws. Company further acknowledges that exports of technology and items subject to the Export Control laws may require prior written approval from the U.S. government and that exports or re-exports of any U.S. technology to any destination under U.S. sanction or embargo are forbidden.

EXHIBIT C

Approved Labor Rate

Period of Performance	
From: December 19, 2021	To: March 25, 2022

Skill/Person/Resource	Name	Hours	Hourly Rate	Total Funding
Consultant	Dave Wolt	120	\$ 291.60	\$ 34,992.00

Exhibit D

Statement of Work – Schedule Development
Task Assignment Orders (TAOs)

Task Order Number: 01

Task Monitor: Georgette Alexander-Morrison

Period of Performance: December 19, 2021 – March 25, 2022

Total Task Value Not to Exceed (Including Travel):

LABOR:	\$	34,992.00
TRAVEL:	\$	
TOTAL:	\$	34,992.00

Statement of Work:

Background: X-energy is pursuing the Phase 2 procurement for the Project Pele opportunity for Office of the Secretary of Defense, Strategic Capabilities Office (SCO). The Customer sent Request for Prototype Proposal (RPP) to X-energy with a proposal due date of March 11, 2022, 4 pm EDT. The RPP requires an electronic submittal which will be performed by X-energy contracts personnel. On January 13, the customer updated all RPP documents and answered questions.

The RFP documentation is labeled CUI (controlled unclassified information). The staff must be US Citizens to work on this activity. The RFP will be provided once the candidate is confirmed as a US Citizen.

Scope:

Provide proposal review support services to the X-energy Government R&D Division regarding in support of the ACME proposal. This includes, but is not limited to:

Review all RPP documentation and background documentation provided

Support periodic meetings with X-energy leadership personnel to define approaches and answers to RPP instructions, “building blocks” of the bid (WBS, Program Organization Chart, Roles and Authorities Matrix (RAM), Key Personnel identification, program schedule, win themes).

Participate in Pink Team Review, Red Team Review, and possibly Red 2 Team Review

Deliverables:

Monthly: NA

As Required – Review comment summaries and detailed proposal review comments for the ACME Red Review and ACME Red 2 Review. Recommendations on how to make this a winning proposal.

Travel

- One trip to Rockville Maryland to participate in the Red Team Review – if we request live meeting.



Professional Services Agreement

This Professional Services Agreement (“PSA” or “Agreement”), effective April 19, 2025, is made and entered into by and between **X Energy, LLC** (“X-energy” or “Client”), a Maryland limited liability company, having an office at 530 Gaither Road, Suite 800, Rockville, MD, 20850 and **Outpost Consulting Inc.** (“Consultant”), having an office at 752 Wendy Culbert Crescent, Newmarket, Ontario, Canada, L3X 0A3.

WHEREAS X-energy wishes to secure Consultant’s performance of consulting and other professional services as defined herein (“Services”);

WHEREAS, Consultant wishes to enter into an agreement with X-energy for the performance of the Services set forth herein;

NOW THEREFORE, in consideration of the mutual covenants contained in this Agreement and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

I. DESCRIPTION OF PROFESSIONAL SERVICES

Consultant shall provide Services to X-energy subject to the Terms and Conditions attached hereto as Exhibit A. Services are described in specific Purchase Order(s) and are generally described in the Statement of Work (“SOW”) set forth in Exhibit B.

II. PURCHASE ORDERS

Consultant will perform Services pursuant to individual Purchase Order(s) issued by an authorized member of the X-energy Procurement Department. The Consultant shall provide all resources necessary to deliver and/or perform the Services in the Purchase Order(s).

Consultant is authorized to provide up to \$30,000 of Services per month. Amounts exceeding \$30,000 will require prior written approval by X-energy. The total amount of Services invoiced shall not exceed the Total Value Not to Exceed listed in each Purchase Order. X-energy is not obligated to compensate Consultant beyond the Total Purchase Order Value Not to Exceed listed in each Purchase Order. The Total Purchase Order Value Not to Exceed listed in each Purchase Order may be increased only by a written instrument signed by an authorized Procurement Representative of X-energy.

III. CONTRACT VALUE AND FUNDING

The Contract Value and Funding limits of this PSA are the sum of all awarded Purchase Orders.

IV. CONSULTANT FEES AND PERIOD OF PERFORMANCE

Consultant’s fully loaded hourly fees for its principals are set forth below. All fees include direct costs and indirect costs, including without limitation, G&A and profit, and shall remain fixed for the term of this PSA. Consultant will provide X-energy the rates or fees for others not listed below who Consultant may retain to assist in the performance of the Services.

Principal Consultant	Hourly Rate
Ken Hartwick	USD \$700
Chris Ginther	USD \$500

The initial period of performance is twelve (12) months from the Effective Date.

V. EXCLUSIVITY

Neither Consultant nor any Principal of Consultant shall perform or contract for the provision of services, or serve in an advisory or governance capacity to any advanced or small modular nuclear reactor company or advanced nuclear fuels company while providing Services to X-energy under this Agreement. Upon termination of this Agreement, but subject to Consultant’s ongoing confidentiality obligations as set forth in Paragraph 5 of Exhibit A, Consultant’s exclusivity obligations shall also terminate.

VI. CONSULTANT AND X-ENERGY ADMINISTRATIVE CONTACTS

Christopher Ginther
Outpost Consulting Inc.
752 Wendy Culbert Crescent
Newmarket, Ontario
Canada L3X 0A3

Phone: [**]
E-mail: [**]

Attention: Steve Miller
X Energy, LLC (X-energy/XE)
530 Gaither Road
Suite 800
Rockville, MD 20850

Phone: [**]
E-mail: [**]

IN WITNESS WHEREOF, the parties have, through their authorized representatives, executed this Agreement, which consists of the Terms and Conditions and all Exhibits and attachments hereto, to be effective as of the date first set forth above.

Outpost Consulting, Inc.

/s/ Christopher Ginther
Christopher Ginther
Principal

Date: April 23, 2025 | 3:06 PM PDT

X Energy, LLC

/s/ Steven L. Miller
Steven L. Miller
Executive Vice President

Date: April 23, 2025 | 7:53 PM EDT

Exhibit A

TERMS AND CONDITIONS

1. Services.

(a) Consultant will perform the Services described in the Statement of Work ("SOW"), set forth in Exhibit B.

(b) Consultant agrees not to subcontract or assign any portion of the Services or this Agreement, or use any subcontractor, independent contractor or other third party (collectively, "Subcontractor") to perform the Services, without X-energy's prior written consent, which will be reasonably provided. If X-energy provides written consent for the Consultant to use a Subcontractor: (i) Consultant shall be responsible in all respects for compliance by the Subcontractor with all terms and conditions of this Agreement; and (ii) Consultant shall obtain Subcontractor's written consent to be bound by the confidentiality obligations herein prior to the commencement of performance.

2. Representations and Warranties.

Consultant hereby acknowledges, represents and warrants that:

- (a) it is legally authorized to do business in the country wherein the Services are rendered and will take, at its own cost, such action as, from time to time hereafter, may be necessary to remain so legally authorized;
- (b) it has the capability, expertise, and means required to perform the Services under the SOW;
- (c) it shall obtain, at its expense, all licenses, permits, insurance, and governmental approvals as required for the execution of its obligations under this Agreement;
- (d) it shall perform the Services under the SOW in accordance therewith and, using its full knowledge to the best of its ability, with the degree of skill and care ordinarily used by competent practitioners of the same professional discipline when performing similar services under similar circumstances, taking into consideration the contemporary state of the practice;
- (e) it shall at all times comply with any and all laws, ordinances, statutes, executive orders and regulations, federal, state, county and municipal, insofar as applicable to Consultant's performance of the Services under this Agreement;
- (f) it shall have no right or authority to act or make any promise, warranty, guarantee, or representation, incur any liability, commence legal proceedings, negotiate or execute any contract, hold itself out to have the right to accept any official or formal notices from anyone, or otherwise assume any obligation or responsibility, in the name of or on behalf of X-energy, unless specifically authorized in writing by an authorized officer of X-energy; and

(g) it shall consider this Agreement and Services performed pursuant thereto as confidential information in accordance with Paragraph 5.

3. Effective Date; Term.

This Agreement shall be effective as of the date first above written ("Effective Date") and shall continue in full force and effect for a period of 12 months, unless sooner terminated in accordance with Paragraph 10 hereof.

4. Invoicing and Payment.

Invoices shall be submitted once a month, by the 5th calendar day of the month, reporting the number of hours of work that Consultant has performed for X-energy through the end of the previous month. Each invoice will include:

- (a) A separate, distinct invoice number;
- (b) The current and cumulative charges for the billing period, with hours and dollars owed at the rates provided in this Agreement;
- (c) Copies of timesheets with descriptions of the Services performed;
- (d) Receipts for all other necessary and reasonably incurred costs to support performance of the Services; and
- (e) Consultant's signature, date of submittal and a statement affirming that the costs included are true correct.

All invoices shall be sent to accountspayablefx-energy.com by the 5th calendar day of the month subsequent to the month that the work is performed.

5. Confidentiality and Proprietary Information.

- (a) Confidential Information as used in this Agreement shall mean any and all information of X-energy, in any form, including but not limited to, all data, compilations, summaries, programs, devices, strategies, or methods concerning or related to:
 - i. X-energy's finances, financial condition, results of operations, employee relations, and any other data or information relating to internal affairs and policies of X-energy;
 - ii. X-energy's marketing and business plans, future plans, concepts, competitive strategies, pricing, margins, designs, models, apparatus, disclosed customer and supplier lists;
 - iii. the terms and conditions of X-energy's purchases, sales and offers regarding potential or actual projects contemplated or evaluated hereunder;
 - iv. the terms, conditions, and current status of X-energy's agreements and relationships with any customer, supplier, or business associate, affiliate or partner whether or not in writing;
 - v. X-energy's trade secrets as defined by state and federal law, and/or as defined by the jurisdictions, whether foreign or domestic, in which X-energy operates;
 - vi. X-energy's pricing structure, including its costs, margins and mark-ups;

- vii. any other information and knowledge with respect to all projects or plans of X-energy in any stage of development or evaluation by X-energy; and
 - viii. any communication between X-energy and its officers, directors, employees, consultants and attorneys.
- (b) Confidential Information does not include information that: (1) is or becomes part of the public domain other than as a result of disclosure by Consultant; (2) becomes available to Consultant on a non-confidential basis from a source other than X-energy, provided that source is not bound with respect to that information by a confidentiality agreement with X-energy or otherwise prohibited from transmitting that information by a contractual, legal or other obligation; (3) is compelled to be disclosed by a legal, governmental or public authority, or any information of a type not otherwise considered confidential by persons engaged in the same business or a business similar to that of X-energy; or (4) is not included in paragraph 5 (a), above.
- (c) The parties acknowledge and agree that in the course of the provision of the Services, Consultant shall have access to Confidential Information. Consultant agrees that, during the term of this Agreement and at any time thereafter, except as required by X-energy, Consultant will not knowingly use, publish, disclose, appropriate or communicate, directly or indirectly, any Confidential Information. Consultant acknowledges and agrees that all Confidential Information is valuable proprietary information of X-energy, and that it is solely due to Consultant's Services under this Agreement that Consultant has or will gain access to the Confidential Information.
- (d) Upon the expiration of the Term of the agreement provided in Paragraph 3 or sooner if requested/demanded by X-energy in writing pursuant to Paragraph 10, Consultant shall return to X-energy, or destroy and confirm such destruction, to X-energy, at X-energy's option, all records, documents, proposals, notes, lists, files and any and all other materials including, without limitations, computerized and/or electronic information, that refers, relates or otherwise pertains to X-energy, its parent and subsidiary corporations, their affiliates, and/or each of their respective officers, directors, shareholders, agents, employees, and successors or assigns, and any and all business dealings of said persons and entities (the "X-energy Documents"). In addition, upon the expiration of the Term of the agreement provided in Paragraph 3 or sooner if requested/demanded by X-energy in writing pursuant to Paragraph 10, Consultant shall return to X-energy all property and equipment issued by X-energy during the course of this relationship, including, but not limited to, computers, mobile telephones and other smart technology communication devices and related hardware (the "X-energy Property") by personally delivering the X-energy Property to X-energy's office.

- (e) The Confidentiality requirements of this Agreement shall expire twelve (12) months from the later of the date of Termination of this Agreement, and the date of return of, or confirmation of the destruction of, all Confidential Information to X-energy; provided that Consultant's obligations under paragraph 5 (c) not to disclose X-energy's Confidential Information shall survive the termination of this Agreement.

6. Ownership of Work Product and Data.

(a) Consultant agrees that all work product developed by Consultant alone or in conjunction with others in connection with the performance of services pursuant to this Agreement is and shall be the sole property of X-energy, and Consultant shall retain no ownership, interest, or rights therein except to the extent of any Consultant Background IP which may be embodied in the work product as further defined in paragraph 6 (b). Work product includes but is not limited to reports, graphics, memoranda, slogans, and taglines. X-energy shall have the full title and all rights in and to (including the sole right to obtain patents on) any inventions, ideas, discoveries, methods, processes, designs, drawings, calculations, data, information, reports, computer programs and concepts of any nature ("Data") whatsoever made or conceived by Consultant during the performance of the Services in this Agreement. Consultant shall keep confidential and shall not publish or otherwise disclose any such Data without X-energy's prior written consent or retain copies of such Data after the termination of this Agreement. Works of authorship created in performing the services hereunder shall be considered as specially ordered or commissioned "work for hire" and all copyrights for such works of authorship shall belong to X-energy. Consultant agrees to provide such Data to X-energy and to execute all documents and comply with any reasonable request of X-energy in connection with patents or patent applications which may be undertaken at X-energy's expense.

Notwithstanding the above, X-energy understands that special techniques in the arts and sciences, developed or accumulated by Consultant at its own time and expense, may be employed to benefit X-energy under this Agreement ("Background IP"), and agrees that such special techniques are proprietary to Consultant and shall not be disclosed to any third party during or subsequent to the term of this Agreement without Consultant's prior written consent; provided, however, that to the extent any such Background IP is embodied in work product, Consultant hereby grants to X-energy a perpetual, royalty-free, fully paid license right of use with respect to such Background IP such that X-energy shall not be restricted in any way from utilizing the work product for its intended use.

7. Independent Contractor.

(a) Consultant's relationship with Client will be that of an independent contractor, and nothing in this Agreement is intended to, or should be construed to, create a partnership, agency, joint venture, or employment relationship. Consultant is retained by X-energy only for the purposes and to the extent set forth in this Agreement for the performance of the Services. Consultant is not required to provide services exclusively to X-energy and Consultant is free to undertake other engagements with other business entities in accordance with the confidentiality and conflict of interest provisions herein. Consultant shall be solely responsible for the performance of the Services, and subject to the terms of this Agreement, shall have sole discretion and control to determine the method, details and means of performing the Services, subject to the specifications and limitations of X-energy. X-energy shall have no right to, and shall not, control the manner or determine the method of accomplishing the Services, but X-energy retains the right to control the overall objectives regarding the duties and/or work to be performed by Consultant pursuant hereto.

(b) Consultant hereby represents and warrants that Consultant is solely and exclusively responsible for paying all federal, state and/or local taxes and withholdings with respect to any fees Consultant receives as a result of the performance of the Services. In addition, Consultant represents and warrants that it will comply with any other applicable statutory or contractual obligations, including but not limited to, workers' compensation insurance, health insurance, and unemployment insurance as part of Consultant's status as an independent business. Consultant on behalf of its officers, directors, employees and agents if any, represents and warrants that it is not eligible, and will have no claim against X-energy, for employee benefits, including but not limited to vacation or holiday pay, sick leave, health insurance, retirement benefits, unemployment insurance benefits, separation payments or other employee benefits of any kind (collectively, Benefits). If any government agency or court determines that Consultant should be reclassified as an employee, Consultant hereby waives any right to X-energy Benefits and acknowledges and understands that such reclassification shall not entitle Consultant to any Benefits offered to X-energy's employees.

8. Export Control.

Consultant acknowledges that the performance of this Agreement is subject to compliance with applicable United States laws, regulations, and/or orders, including those that relate to the export of materials, equipment, software, or technology, such as the U.S. Department of Energy regulations found in 10 C.F.R. Part 810, the U.S. Nuclear Regulatory Commission regulations in 10 C.F.R. Part 110, the International Traffic in Arms Regulations ("ITAR") found in 22 C.F.R. Parts 120-130 controlled by the U.S. Department of State or the Export Administration Regulations found in 15 C.F.R. Part 730 et seq. ("EAR") controlled by the U.S. Department of Commerce, as may be amended (collectively, "Export Control Laws"). Consultant shall comply with all Export Control Laws. Consultant shall not export, re-export, transfer, or retransfer, directly or indirectly, any technology, data, services, or hardware, except as permitted by such Export Control Laws. Consultant further acknowledges that exports of technology and items subject to the Export Control laws may require prior written approval from the U.S. government and that exports or re-exports of any U.S. technology to any destination under U.S. sanction or embargo are forbidden. Compliance with the foregoing provisions shall be supported and/or provided by X-energy.

9. No Unlawful Payments.

Consultant is aware of and familiar with the provisions of the Foreign Corrupt Practices Act and analogous laws (e.g., UK Bribery Act) that are applicable to X-energy under its laws of incorporation, as well as any other applicable laws that otherwise subject X-energy, including without limitation any laws implementing the OECD Convention on Combating Bribery of Foreign Officials in International Business Transactions, as these laws may be amended or interpreted from time to time (the “Corrupt Payment Laws”) and their purposes.

Consultant hereby represents and warrants that it has complied, and undertakes that, in performing this Agreement, the Consultant shall comply with and do all things necessary to comply with the Corrupt Payment Laws that apply to this Agreement and the performance thereof.

10. Termination.

(a) This agreement may be terminated by either party by giving (60) sixty days written notice to the other party. Termination under this Paragraph shall be without prejudice to any sums therefore accrued, provided however, that X-energy may retain any final payment otherwise due to Consultant pending Consultant’s satisfactory completion of any work remaining under assigned PO(s), or such other satisfactory completion as may be agreed to by X-energy.

(b) X-energy may immediately terminate this Agreement and Consultant’s Services at any time if Consultant engages in misconduct or any fraudulent or dishonest act against X-energy or in connection with providing services to X-energy; Consultant violates any applicable law or regulation relating to dishonesty or respecting X-energy’s business, or that disqualifies Consultant from being affiliated with Consultant; Consultant habitually neglects his duties or provides substandard service; or Consultant otherwise violates any of the terms of this Agreement. If Consultant’s services are terminated for misconduct, fraudulent or dishonest acts, or violation of laws or regulations, any fees that have not been paid will be forfeited and not paid to Consultant. If any of the other events identified in this Paragraph occur, payments will end on the date Consultant’s services are terminated.

11. Suspension of Work.

X-energy shall have the right to suspend the performance of the work at any time by giving twenty-four (24) hours prior notice in writing of such action plus such reasonable time as may be required for the suspension of the work so as to beneficially conserve what work has been done or is actually in progress for future use. No prior notice in writing is required if suspension is necessary as a result of Consultant violating safety procedures. Suspension of the work shall be made without prejudice to the claims of either party respect of any antecedent breach of the terms of this Contract. Consultant shall, during the period of suspension, minimize all costs associated with the suspension. Upon receipt of any notice of suspension, Consultant shall, unless the notice requires otherwise:

- i. Immediately discontinue the performance of the work to the extent specified in the notice;

- ii. Take no further action relative to subcontractors or suppliers with respect to suspended work other than to the extent required in the notice;
- iii. Promptly make every reasonable effort to obtain suspension upon terms satisfactory to X-energy of all subcontracts and purchase agreements to the extent they relate to portions of the work suspended; and
- iv. Upon receipt of notice to resume the suspended work, promptly as practicable resume the suspended work to the extent required in the notice.

As compensation to Consultant for any suspension, Consultant shall be reimbursed for reasonable costs incurred as a result of the suspension, such as mobilization and demobilization of Consultant and its subcontractors and reasonable costs in bringing the work to an orderly state of suspension, as well as cancellation costs and any expenses reasonably incurred, including escalation costs. Any suspension or work stoppage due to Consultant's or Consultant's subcontractors' or agents' safety violations shall be at Consultant's expense. In addition, standby costs incurred by Consultant during the period of suspension (except for safety violations) incurred in keeping itself or its subcontractors committed to the work in a standby status shall be paid by X-energy on a reimbursable basis.

12. Limitation of Liability.

Other than damages due to breaches of confidentiality, in no event shall the Parties be liable for any special, indirect, incidental or consequential damages (including, but not limited to, lost profits, lost business opportunities, loss of use or equipment down time, and loss of or corruption to data) arising out of or relating to this Agreement, regardless of the legal theory under which such damages are sought.

13. Indemnification.

(a) Consultant shall indemnify, defend and hold harmless X-energy and its affiliates, as well as X-energy's and its affiliates' members, managers, officers, directors, employees, agents, representatives from and against any and all third party claims, suits, causes of action, proceedings, liabilities, injuries to persons or property, cost and expenses (including reasonable attorneys' fees) arising from Consultant's grossly negligent or worse conduct except to the extent any such liability, damage, loss, cost or expense is caused by X-energy's gross negligence or worse conduct. Such damages include but are not limited to injury or death of persons, loss of or damage to property (including loss of use thereof), and economic loss, including lost profit or opportunity, pollution, and environmental impairment, and natural resource damages.

(b) X-energy shall indemnify, defend and hold harmless Consultant and its affiliates, as well as Consultant's and its affiliates' members, managers, officers, directors, employees, agents, representatives from and against any and all third party claims, suits, causes of action, proceedings, liabilities, injuries to persons or property, cost and expenses (including reasonable attorneys' fees) arising from X-energy's grossly negligent or worse conduct except to the extent any such liability, damage, loss, cost or expense is caused by Consultant's gross negligence or worse conduct. Such damages include but are not limited to injury or death of persons, loss of or damage to property (including loss of use thereof), and economic loss, including lost profit or opportunity, pollution, and environmental impairment, and natural resource damages.

(c) Consultant agrees to indemnify, protect and hold X-energy harmless from any and all tax liabilities and responsibilities for payment of all federal, state and local taxes, including, but not limited to all payroll taxes, self-employment taxes, and for payment of any workers' compensation premiums or other contributions imposed or required under federal, state and local laws, with respect to Consultant.

(d) Each party will notify the other of any claim for which indemnification is sought under this Agreement.

14. Insurance.

Consultant shall maintain automobile bodily injury and property damage liability insurance covering automobiles, whether owned, non-owned, leased, or hired, with a combined single limit of not less than \$500,000.00. When required by X-energy, Consultant will furnish certificates of insurance as evidence of the above-required policies.

15. Non-Waiver of Rights.

The failure of either party to insist upon performance of any provision of this Agreement, or to exercise any right, remedy or option provided herein, shall neither be construed as a waiver of the right to assert any of the same or to rely on any such terms or conditions at any time thereafter, nor in any way affect the validity of this Agreement.

16. Severability.

If any covenant, condition, term, or provision contained in this Agreement is held or finally determined to be invalid, illegal, or unenforceable in any respect, in whole or in part, such covenant, condition, term, or provision shall be severed from this Agreement, and the remaining covenants, conditions, terms and provisions contained herein shall continue in force and effect, and shall in no way be affected, prejudiced or disturbed thereby.

17. Assignment.

Neither party may sell, assign, transfer, or otherwise convey any of its rights or delegate any of its duties under this Agreement without the prior written consent of the other party, which consent may not be unreasonably withheld. Notwithstanding the foregoing, X-energy may transfer or assign its rights hereunder to any successor in interest to all or substantially all of its assets.

18. Governing Law.

This Agreement and all matters relating to the meaning, validity or enforceability thereof and the performance of Services hereunder shall be governed by and construed under the laws of the State of Maryland.

19. Disputes.

X-energy and the Consultant agree to resolve any dispute arising under or relating to this Agreement via negotiation in good faith to attempt to reach a mutually agreeable resolution within a reasonable amount of time.

20. Modification.

This Agreement may be modified, or part or parts hereof waived, only by an instrument in writing specifically referencing this Agreement and signed by an authorized representative of the party against whom enforcement of the purported modification is sought.

21. Conflicting Obligations.

Notwithstanding that Consultant may be, during the term hereof, an employee, consultant, board member, etc. of another company, Consultant will not engage in outside activities that would create a direct conflict of interest with X-energy's business. During the term of this Agreement and the six-month period thereafter, Consultant shall not solicit, hire or retain any X-energy employee.

22. Entire Agreement.

This Agreement constitutes the entire agreement between the Parties with respect to the Services to be performed by Consultant under this Agreement.

23. Headings.

Headings used throughout this Agreement are for administrative convenience only and shall be disregarded for the purpose of construing and enforcing this Agreement.

24. Waiver of Breach or Violation Not Deemed Continuing.

The waiver by either party of a breach or violation of any provision of this Agreement shall not operate as, or be construed to be, a waiver of any subsequent breach or violation.

25. Notices.

Any notice required or permitted to be given by one party to the other pursuant to this Agreement shall be in writing and may be given by e-mail or other means of electronic transmission (all subject to receipt being acknowledged) or certified letter (postage prepaid) addressed to the individual identified in Section V of this Agreement for the party intended as the recipient.

26. Counterparts.

This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same Agreement. A signed copy of this Agreement delivered by facsimile, e-mail, or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

Exhibit B

STATEMENT OF WORK

- Project Long Mott ("PLM") and other Xe-100 projects:
 - Ken Hartwick to serve as XE's senior representative on the soon-to-be-established PLM oversight committee. This may involve serving as Committee Chairman.
 - Advise XE on PLM and other projects' contractual framework and structure (not legal advice, per se, but more best practices that have successfully been employed in other mega projects) with the goal of standardizing contractual framework.
 - Provide general project monitoring and advice to XE team, including advice on construction progress and trends.
 - Assist in cost and schedule validation of technology development and project execution.
 - Present periodic project reports to the XE Board of Directors, as requested by XE.
- XE DevCo support and strategic advice:
 - Advise senior XE leadership on DevCo organizational structure and effectiveness.
 - Advise XE DevCo organization in support of non-PLM project commercial negotiations, business development, and project management.
 - Support external facing meetings on behalf of XE for senior-level meetings with current and future external partners (e.g., strategic partners, project owners, institutional investors, government investors, debt finance investors, etc.).
- Canadian Market Support:
 - Strategically engage with senior government officials in Canada to drive policies favorable to deploying an Xe-100 Canadian fleet.
 - Strategically advise XE and engage with Canadian senior/executive-level customers/partners in support of XE Canadian business development.
 - Advise XE Canada team on overall market strategy for customer targeting, cost competitiveness, project development, project finance, and government engagement to deliver a fleet of Xe-100s in Canada.

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption "Experts" and to the use of our report dated March 20, 2026, with respect to the consolidated financial statements of X-Energy Reactor Company, LLC included in Amendment No. 1 to the Registration Statement (Form S-1) and related Prospectus of X-Energy, Inc. dated April 3, 2026.

/s/ Ernst & Young LLP

Tysons, Virginia

April 3, 2026

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption "Experts" and to the use of our report dated March 20, 2026 with respect to the financial statements of X-Energy, Inc. included in Amendment No. 1 to the Registration Statement (Form S-1) and related Prospectus of X-Energy, Inc dated April 3, 2026.

/s/ Ernst & Young LLP

Tysons, Virginia

April 3, 2026
