



X-energy Joins Project Prometheus for AI-Accelerated Advanced Nuclear Deployment

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- *AI-for-Nuclear Research Partnership with Idaho National Laboratory, NVIDIA and Amazon Web Services ("AWS")*
- *3-Year Initiative Awarded \$60 Million under U.S. Department of Energy's Genesis Mission*
- *Targets Long-Term Industry Schedule Acceleration and Cost Reduction*

WASHINGTON, July 22, 2026 (GLOBE NEWSWIRE) -- [X-Energy, Inc.](#) (Nasdaq: XE) ("X-energy" or "the Company") was today announced as a founding member of the Prometheus project, a historic research initiative led by [Idaho National Laboratory](#) ("INL"), [NVIDIA](#) (Nasdaq: NVDA), and [AWS](#) to accelerate advanced nuclear deployment through the use of artificial intelligence ("AI"). X-energy joins as a Tier 1 partner, committing financial support and the use of its proprietary [Xe-100 small modular reactor](#) ("SMR") and TRISO-X fuel designs to advance the [U.S. Department of Energy's Genesis Mission](#), and a new horizon for American innovation.

The Prometheus project aligns 32 of the United States' leading laboratories, universities, and private technology developers to [a national effort aimed at accelerating the application of AI for transformative scientific discovery](#). This three-year, first-of-a-kind initiative was today awarded \$60 million under the DOE's Genesis Mission, targeting long-term schedule acceleration and operational cost reduction for advanced nuclear technologies. The Company expects to directly leverage advancements to help accelerate commercial deployment across its 11 GW commercial pipeline.

X-energy joins the Prometheus project as a Tier 1 partner with board of directors representation, providing \$10 million in private capital, and the use of its proprietary HTGR design and fuel fabrication data. X-energy's Xe-100 and TRISO-X fuel will serve as a technical platform for a three-year research campaign, leveraging the Department's test reactors and supercomputing capabilities to integrate frontier-class AI models into reactor design, licensing, manufacturing, construction, and semi-autonomous operation workflows, as well as fuel fabrication.

"We stand at the edge of one of humanity's great technical evolutions, and its infrastructure build-out has already begun. We are proud to be part of the coalition driving it forward," said J. Clay Sell, the CEO of X-energy. "The future belongs to those willing to solve for what's next, and that is exactly what we do at X-energy."

Participation in the Prometheus project builds on the ongoing development of APEX, a proprietary multi-agentic platform currently deployed across X-energy's engineering, licensing, and operations teams. Agentic workflows developed internally have helped to accelerate routine decision-making and technical analysis, positioning the Company to rapidly absorb, implement, and scale advancements arising from Genesis research.

X-energy is currently advancing more than 11 GW of new nuclear capacity across the United States and United Kingdom with commercial Xe-100 projects underway with Dow, Amazon, and Centrica. X-energy and Amazon have the option to deploy more than 5 GW of new nuclear by 2039 to support grid reliability and AWS data center needs. AI-enabled advancements pursued through the Prometheus project aim to accelerate licensing, manufacturing, construction, and operation across a growing commercial project portfolio, furthering the Company's mission to provide clean, safe, reliable energy solutions to empower the unprecedented.

About X-energy

X-energy is a leading designer of advanced small modular nuclear reactors ("SMR") and fuel technology developed to establish a new standard in clean, safe, reliable energy. X-energy's intrinsically safe Xe-100 high-temperature gas-cooled reactor and TRISO-X particle fuel expand applications for nuclear technology, with commercial projects across grid, industrial, and AI. Together, X-energy's technology drives enhanced safety, lower cost, faster construction timelines, and scalable deployment when compared with other SMRs and conventional nuclear. For more information, visit [X-energy.com](#) or connect with us on X or LinkedIn.

Forward-Looking Statements

This press release contains forward-looking statements regarding our business, including statements related to AI development initiatives and capabilities, the potential for AI to make nuclear development, deployment and operations more efficient and our ability to use advancements from Genesis Mission across our pipeline. These forward-looking statements are only predictions and may differ materially from actual results due to a variety of factors, including but not limited to, risks and uncertainties associated with developing and deploying AI technologies, the rapidly evolving regulatory landscape, technological limitations, data quality and safety and cybersecurity risks. You should not rely on our forward-looking statements as predictions of future events. More information about potential risks and uncertainties that could affect our business and financial results is more fully detailed under the caption "Risk Factors" in our Form 10-Q filed with the Securities and Exchange Commission, which is available on our Investor Relations website at <https://investors.x-energy.com/> and on the SEC website at www.sec.gov. In addition, please note that any forward-looking statements contained herein are based on assumptions that we believe to be reasonable as of this date. We

undertake no obligation to update these statements as a result of new information or future events.

Contact

Robert McEntyre, Corporate Communications
media@x-energy.com
+1 240.673.6565

Patricia Gil, Investor Relations
+1 301.558.3040
investors@x-energy.com