X-energy, Alleima, Doosan Enerbility Execute First Order for Nuclear-Industrial Steam Generator Components

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- *Partnership with Alleima and Doosan Enerbility for long-lead components*
- *Secures safety-significant components essential for high-temperature industrial applications*

ROCKVILLE, Md., Nov. 04, 2026 (GLOBE NEWSWIRE) -- X-Energy, Inc. (Nasdaq: XE) (“X-energy” or the “Company”), a leading developer of advanced nuclear reactors and fuel technology, Alleima, a global manufacturer of advanced stainless steels and special alloys and solutions for industrial heating, and Doosan Enerbility Co., Ltd. (“Doosan”) announced the first procurement of steam generator tubing for the Company’s Xe-100 advanced small modular reactor (“SMR”). The order advances procurement of a safety-significant, long-lead component for the first deployment of the Xe-100, a proposed four-unit plant in partnership with Dow in Texas under the U.S. Department of Energy's Advanced Reactor Demonstration Program (“ARDP”).

Alleima will leverage its expertise in high-temperature alloys to manufacture specialized stainless steel tubing, which Doosan will bend into helical coils using its proprietary fabrication processes. These coils are a central component of the Xe-100 steam generator, safely removing heat to produce high-temperature steam of up to 565°C and allowing a single Xe-100 to deliver both electricity and high-temperature process heat for industrial applications. This follows the signing of a strategic framework by the three companies earlier this year as the Company scales its supply chain to meet its growing commercial pipeline.

“Behind every component in the Xe-100 is a team of experts who know what it takes to get it right, both at X-energy and across our growing supplier base," said Jesse Walker, Chief Supply Chain Officer at X-energy. "Alleima and Doosan are among the world’s leading producers of these components, and we look forward to continuing to learn from their expertise as we drive our technology to full commercial scale.”

“Moving from today's reactor technologies to the next generation of nuclear power requires trusted materials partners. We are proud to support Doosan Enerbility with advanced tubing solutions for X-energy's Xe-100 program," said Carl von Schantz, President of Tube Division, Alleima.

Alleima is among the world's largest suppliers of steam generator tubing, with an established track record across the nuclear, oil and gas, and aerospace industries for quality and performance in high-temperature applications. This supports X-energy's efforts to de-risk the supply chain for long-lead components across its commercial portfolio. Doosan brings extensive experience producing major components for nuclear facilities, having supplied 34 reactor vessels and 124 steam generators to nuclear facilities worldwide. Fabrication of helical coils follows a December 2025 agreement between X-energy and Doosan, reserving capacity for 16 sets of Xe-100 pressure vessels for the reactor, steam generator, and internal nuclear-grade steel components such as helical coils. Commercial production follows extensive collaboration between X-energy and Doosan, with technical work first beginning in 2021 to optimize Xe-100 components for commercial-scale production and quality.

The partnership among X-energy, Alleima, and Doosan is part of a growing, diversified coalition of experienced suppliers supporting Xe-100 deployment worldwide, and contributes to the development of an industrial supply chain capable of advancing fleet-scale deployment of advanced technologies. In addition to its first deployment with Dow under ARDP, X-energy is advancing more than 11 GW of new nuclear power with commercial projects underway in the United States with Amazon, in conjunction with Energy Northwest and AEP, as well as in the United Kingdom with Centrica. Together, this growing commercial portfolio advances the Company’s mission of building energy solutions that empower the unprecedented.

About X-energy
X-energy, Inc. is a leading developer of advanced small modular nuclear reactors and fuel technology designed to establish a new standard in clean, safe, reliable energy. X-energy's intrinsically safer Xe-100 high-temperature gas reactor and TRISO-X particle fuel expand applications for nuclear technology, with commercial projects underway with Dow, Amazon, and Centrica across grid, industrial, and AI applications. Together, X-energy's technology drives enhanced safety, lower cost, faster construction timelines, and scalable deployment when compared with other SMRs and conventional nuclear.

About Alleima
Alleima is a global manufacturer of high value-added products in advanced stainless steels and special alloys as well as solutions for industrial heating. Based on long-term customer partnerships and leading materials technology, we develop products for the most demanding applications and industries. Our offering includes products like seamless steel tubes for the energy, chemical and aerospace industries, precision strip steel for white goods compressors, air conditioners and knife applications, based on more than 900 active alloy recipes. It also includes ultra-fine wires for medical and micro-electronic devices, industrial electric heating technology and coated strip steel for fuel cell technology for cars, trucks, and hydrogen production. Our fully integrated value chain, from R&D to end-product, ensures industry-leading technology, quality, sustainability, and circularity. Alleima, with headquarters in Sandviken, Sweden, had approximately 6,800 employees and revenues of about 19 billion SEK in about 80 countries in 2025. Alleima is listed on Nasdaq Stockholm under the ticker ‘ALLEI’. Learn more at www.alleima.com

About Doosan Enerbility
Doosan Enerbility Co., Ltd. (“Doosan”) is a global leader in power generation and energy solutions, based in South Korea. Renowned as a world-class supplier of nuclear power plant equipment, Doosan has delivered 34 reactor vessels and 124 steam generators to countries worldwide. The company also plays a pivotal role in the manufacturing of small modular reactors (SMRs), while driving innovation in next-generation technologies. Through its extensive global network of partners, Doosan contributes to major energy infrastructure projects across the globe. Committed to shaping a sustainable future, Doosan’s mission is to provide reliable, safe, and innovative energy solutions for generations to come.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, which X-energy intends to be covered by the safe harbor provisions of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Words such as “assume,” “believe,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “will,” “seek,” the negative of these words, or similar terms may identify forward-looking statements, but their absence does not mean a statement is not forward-looking. These include, but are not limited to, statements regarding the expected procurement, manufacture, delivery and performance of steam generator tubing and helical coils for the Xe-100; the expected capabilities of the Xe-100 steam generator, including temperatures; X-energy's reserved manufacturing capacity; X-energy's efforts to scale and de-risk its supply chain for long-lead components; the status and timing of X-energy’s commercial projects and commercial pipeline, including with Dow; and X-energy’s vision and strategy.

You should not rely on these forward-looking statements as predictions of future events. Actual results may differ materially due to a number of factors, including, but not limited to: the failure of Alleima, Doosan or other suppliers to manufacture, fabricate or deliver components on schedule, within budget or in accordance with applicable requirements; the risk that reserved manufacturing capacity does not result in firm orders or is not available when needed; design changes that require additional component changes or regulatory review; the failure to obtain, or delays in obtaining, required licenses, permits and regulatory approvals; the risk that commercial projects do not proceed; site suitability and characterization risks; the decision of X-energy’s customers whether to proceed with construction; the ability of the parties to obtain project financing and achieve acceptable project economics; delays, cost increases or setbacks in the licensing, construction or deployment of X-energy’s projects; supply chain and supplier constraints, including labor shortages; changes in government policy, funding or support for advanced nuclear energy, including under the ARDP; public or stakeholder opposition; and first-of-a-kind risks and X-energy’s limited operating experience at intended scale, including latent design or operational issues. More information about potential risks is detailed under “Risk Factors” in X-energy’s Quarterly Report on Form 10-Q for the quarter ended June 30, 2026 filed with the Securities and Exchange Commission (the “SEC”), and in subsequent SEC filings, available on X-energy’s Investor Relations website at https://investors.x-energy.com/ and on the SEC website at www.sec.gov. Any forward-looking statements herein are based on assumptions believed reasonable as of, and speak only as of, the date of this press release. Except as required by law, X-energy undertakes no obligation to update these statements as a result of new information or future events or otherwise.

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