



## NRC Publishes 18-Month Review Schedule for Xe-100 Construction Permit Application

June 16, 2025

**ROCKVILLE, Md., June 16, 2025** – X-energy Reactor Company, LLC (“X-energy” or the “Company”) has received key updates from the U.S. Nuclear Regulatory Commission (“NRC” and the “Commission”) regarding the construction permit application for the initial deployment of the Xe-100 advanced reactor. The proposed project is being developed by The Dow Chemical Company’s wholly-owned subsidiary, Long Mott Energy LLC (“LME”). 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 Texas Gulf Coast project and will concurrently proceed with its environmental assessment.

The published review schedule marks the next step in demonstrating how the technology we will be deploying with Dow can be efficiently replicated to meet rising power demand. X-energy is proud to be a market leader in commercializing advanced nuclear, and the LME team looks forward to continuing to work closely with the NRC throughout this process to complete a robust and thorough review.

*[J. Clay Sell](#), CEO of X-energy*

Since 2018, X-energy has led and participated in extensive pre-application engagements with NRC staff on the Xe-100 design, TRISO-X fuel, and topical reports covering numerous aspects of the company’s technology. Working proactively with NRC staff, X-energy has illustrated how its substantial safety features contribute to and enhance the efficiency, clarity, predictability, and reliability of the regulatory process.

X-energy’s pioneering Xe-100 high-temperature, gas-cooled reactor and TRISO-X fuel are designed to be among the safest and most reliable clean energy technologies. Because of its ability to produce high-temperature steam and heat for industrial applications, the Xe-100 can uniquely address a broader range of uses and applications, powering processes like manufacturing, natural resource extraction, petroleum refining and hydrogen production.

Our objective is to set a new standard for deploying nuclear at scale, reducing risk and uncertainty for our commercial partners, and demonstrating a stable, well-defined path forward to strengthen and accelerate U.S. energy dominance.

*[J. Clay Sell](#), CEO of X-energy*

The Long Mott Energy project is being developed in partnership with U.S. Department of Energy’s Advanced Reactor Demonstration Program. The proposed plant at Dow’s UCC Seadrift, Texas, site is expected to be the first grid-scale advanced nuclear reactor project deployed to serve an industrial site in North America, providing the site with both power and high-temperature steam.

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### About X-Energy Reactor Company, LLC

X-Energy Reactor Company, LLC, is a leading developer of advanced small modular nuclear reactors and fuel technology for clean energy generation that is redefining the nuclear energy industry through its development of safer and more efficient advanced small modular nuclear reactors and proprietary fuel to deliver reliable, zero-carbon and affordable energy to people around the world. X-energy’s simplified, modular, and intrinsically safe SMR design expands applications and markets for deployment of nuclear technology and drives enhanced safety, lower cost and faster construction timelines when compared with other SMRs and conventional nuclear. For more information, visit [X-energy.com](https://www.x-energy.com) or connect with us on [Twitter](#) or [LinkedIn](#).