

X-energy around the globe

Leon Flexman,
Senior Director, UK Corporate Affairs, X-energy

Thursday 8th October, 2026

Our Company



Xe-100 Small Modular Reactor

- X-energy's flagship product is a **High-Temperature Gas-cooled Reactor (HTGR)** that is designed to produce both high efficiency electricity and industrial steam
- Four or more **80 MWe reactors (320 MWe total "4-packs")** are bundled to optimize economics and performance



TRISO-X Fuel Fabrication

- Our reactors use **tri-structural isotropic (TRISO)** coated particle fuel approved for use by the NRC
- TRISO-X developed a **proprietary process** with improved supply and quality control processes



Nasdaq listed since March 2026

- Over \$2.9b Raised from Investors
One of the highest amounts of capital raised of any advanced nuclear company
- \$2.2b in Federal Grants to-date
One of two companies selected for DOE's Advanced Reactor Demonstration Program (ARDP)

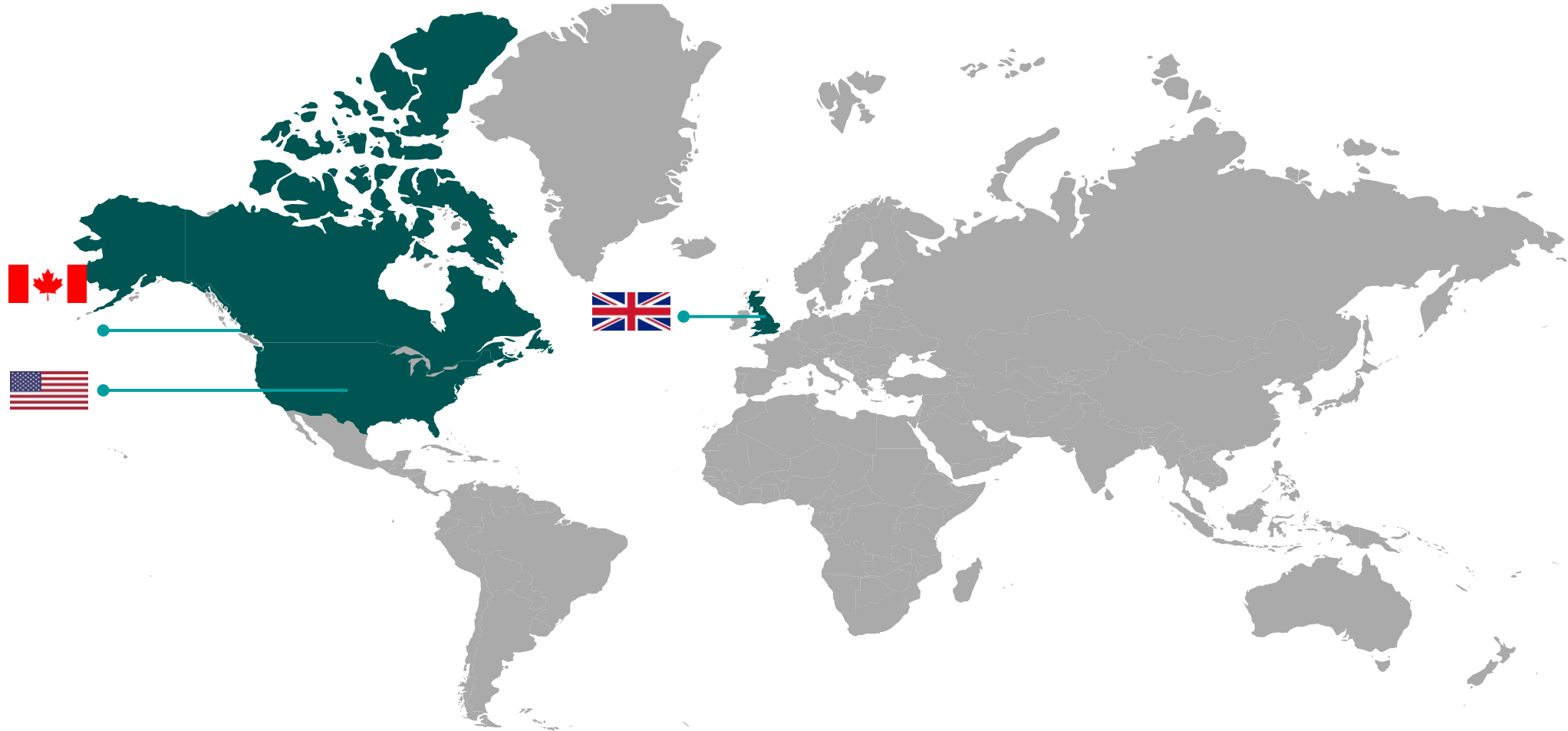
✕ Founded in 2009
17 years of investment and business development

✱ Rockville, MD Headquarters
Oak Ridge TN, TRISO-X
Manchester, X-energy UK
Toronto, X-energy Canada

⚡ 50+ Years of R&D
Our technology builds upon decades of R&D in high-temperature gas reactors

👤 >1,100 Employees
Leading Generation IV nuclear reactor development

Priority Markets: US, UK, Canada



Long Mott Generating Station: Partnership with Dow

On March 1, 2023, Dow and X-energy announced their entry into an agreement to build an Xe-100 Plant¹ under the ARDP



Seadrift, TX

Customer:



Location: Seadrift, TX

Project Type: Heat & Power to decarbonize ethylene plant

Project Size: 320 MW

Start Up: Early 2030s

*“The utilization of X-energy’s fourth generation nuclear technology will enable Dow to take a **major step in reducing our carbon emissions while delivering lower carbon footprint products** to our customers and society.”*

– Jim Fitterling,
Dow Chairman and CEO



Cascade Advanced Energy Facility: Partnership with Amazon

On October 16, 2024, Amazon and X-energy announced their partnership to build 5 GWe of clean, baseload power for data centers

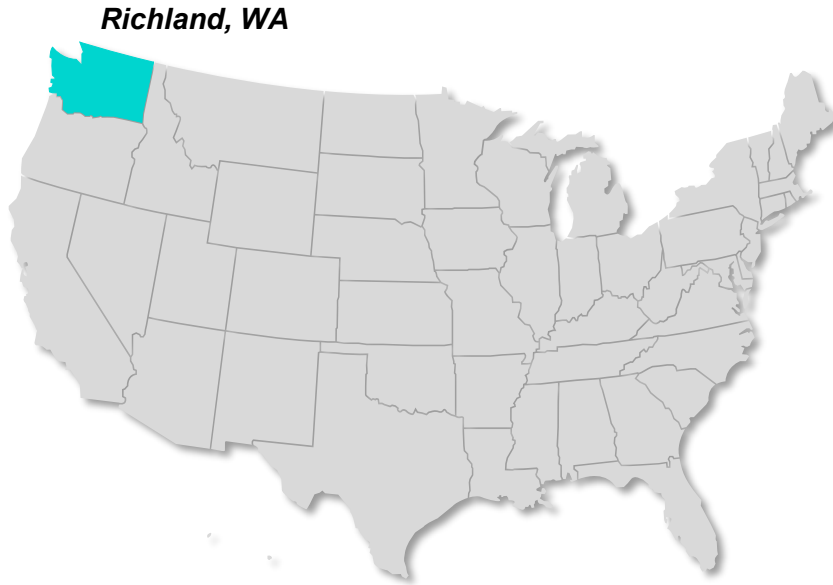
Customer: **amazon** **ENERGY NORTHWEST**

Location: Richland, WA

Project Type: Power (for data centres)

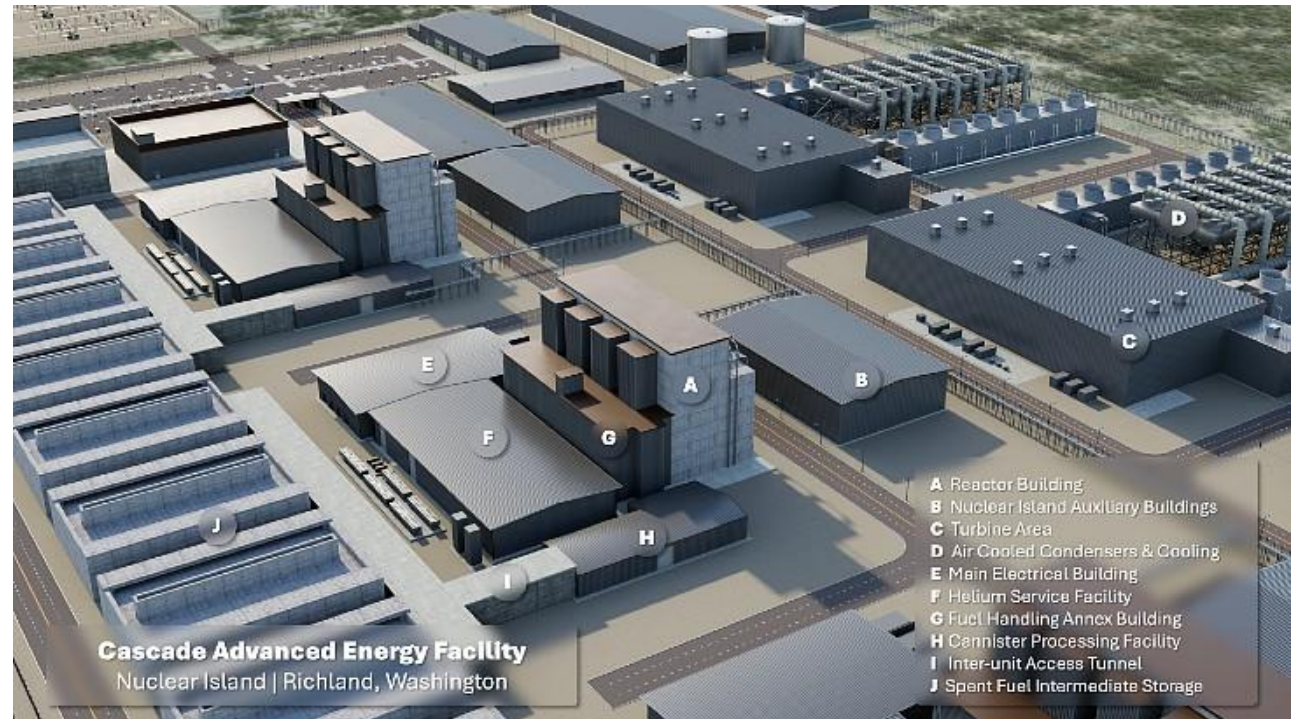
Project Size: up to 960 MW

Start Up: Early 2030s (shortly after Dow)



*"This collaboration between Amazon and X-energy is a significant step toward accelerating advanced nuclear technologies that can help us bring **new sources of carbon-free energy to the grid cost-effectively and safely**"*

- Kevin Miller,
Amazon's Former VP of Global Data Centers



Vertical Construction Complete on TX-1 (September 2026)



Hartlepool: Flagship for 6GW pipeline with Centrica in UK

On September 14, 2025, Centrica and X-energy Sign Joint Development Agreement to Deploy U.K.'s First Advanced Modular Reactors and Pursue 6 GWe of New Nuclear Capacity in the U.K.



"Our partnership with X-energy marks a bold step forward in delivering advanced nuclear technology that is **not only scalable and secure, but also vital to clean industry and powering homes.**"

– Chris O'Shea
Group Chief Executive of Centrica

Customer: **centrica**

Location: Hartlepool, UK

Project Type: Power*

Project Size: up to 960 MW

Start Up: Mid-2030s



- X-energy and Centrica announced **~6 GWe fleet deployment of Xe-100s** starting with first 12-pack targeted for Hartlepool in mid-2030s
- X-energy's application for a **UK Generic Design Assessment was accepted in September 2026**, with the assessment expected to conclude by end of 2029
- The Hartlepool deployment can result **up to 960 MW** of new capacity, enough clean power for 1.5 million homes

Canada: active customer engagement



“Working with X-energy on the Xe-100, we can help heavy industry reach climate change goals by using **clean, safe electricity and high temperature steam efficiently produced through evolutionary nuclear technology to power their production facilities**”

- Ken Hartwick, OPG President and CEO



- In discussions in Western Canada with customers both for grid electricity and private wire and steam offtake.
- Emissions Reduction Alberta backed study demonstrated feasibility of repurposing TransAlta thermal generation site in Alberta with Xe-100 SMR
- Framework agreement in place with OPG to pursue opportunities to deploy Xe-100 small modular reactors (SMRs) for industrial applications in Canada.
- Xe-100 completed Phase 1 and 2 of **CNSC’s Vendor Design Review** in 2024.

Further markets

Priority Nations:

- Where plant design has strategic attributes that fit market need.
- Where market has right balance of suppliers, investors, customers and developer capability
- Xe-100 and TRISO-X inherent safety case and non proliferation strengths also attractive to emergent nations/new entrants to nuclear
- Northern Europe, Middle East and East Asia all in scope
- Top 5 priority markets and watching brief nations.

Global supply chain partnerships:



Watch for more news in 2027!

Thank you