

CLEARPATH

ClearPath Applauds TRi Energy Partnership Announcement for Advanced Nuclear Reactor

Advanced Reactor Demonstration Program (ARDP) officially kicking off with X-energy

Washington, DC – Thursday, April 1, 2021 – ClearPath welcomed the announcement by [Energy Northwest, Grant County Public Utility District and X-energy, LLC](#) that they have established a mutual partnership, called the TRi Energy Partnership, to support the development and commercial demonstration of X-energy's advanced nuclear reactor, the Xe-100. In October 2020, X-energy and TerraPower's Natrium were selected for the U.S. Department of Energy's (DOE) Advanced Reactor Demonstration Program (ARDP) based on the feasibility that they can be licensed by the Nuclear Regulatory Commission, meet an aggressive demonstration timeline, and be cost-competitive.

“Advanced nuclear energy is the next frontier of clean energy innovation, and this moonshot goal of bringing this technology to market is made possible by the Advanced Reactor Demonstration Program,” said Rich Powell, Executive Director of ClearPath. “For the U.S. to remain competitive internationally, we need a product. By building this reactor, we're on our way to adding more clean energy to the grid and re-establishing American nuclear energy leadership. A true win-win.”

Last month, X-energy signed the DOE's ARDP Cooperative Agreement for a \$2.5 billion commercial scale advanced nuclear reactor with Energy Northwest. In total, DOE will invest approximately \$1.2 billion in X-energy's project over the seven-year period for this demonstration, and X-energy will invest at least that much to meet the 50:50 cost share requirements of the program.

X-energy's Xe-100 pebble-bed reactor is an 80 megawatt-electric, helium-cooled, high temperature gas reactor that uses TRi-structural ISOtropic (TRISO) particle fuel. It will also utilize high-assay, low-enriched uranium or HALEU. X-energy plans on building four reactor modules as part of the ARDP.

The three partners of the TRi Energy Partnership will site, build and operate the Xe-100 advanced nuclear power plant at an existing Energy Northwest site north of Richland, Washington, with the potential to generate up to 320 megawatts of reliable, always-on, carbon-free energy.

Under the ARDP's timeline, the project will take seven years to complete and will be online by 2027-2028.

Resources

- Learn more in our blog, "[It's Happening... US to Build Two New Advanced Nuclear Reactors](#)"
- Watch our video, "[TerraPower & X-energy to Demonstrate Advanced Reactor Technology](#)"
- Additional information on the [TRi Energy Partnership](#)
- Information on the Department of Energy's [Advanced Reactor Demonstration Program](#) and technology awards is available [here](#)

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ABOUT CLEARPATH

ClearPath (501(c)(3)) was established by businessman Jay Faison in 2014. ClearPath's mission is to develop and advance policies that accelerate breakthrough innovations that reduce emissions in the energy and industrial sectors. To advance that mission, we develop cutting-edge policy solutions on clean energy and industrial innovation. An entrepreneurial, strategic nonprofit, ClearPath (501(c)(3)) collaborates with public and private sector stakeholders on innovations in nuclear energy, carbon capture, hydropower, natural gas, geothermal, energy storage, and heavy industry to enable private-sector deployment of critical technologies. Learn more at clearpath.org. Follow us on Twitter: [@JayFaison1](#), [@powellrich](#), [@ClearPathAction](#)