

## 2009

Company Founded

## Rockville, MD

Headquarters

## 450+

Employees

*Including 40 PhDs and 38 Masters in Engineering / Science*

## \$1.2B

Funding secured through ARDP

## 2028

Xe-100 commercial operation - ARDP



### Reactor: Xe-100

Gen-IV High-Temperature Gas-cooled Reactors (HTGR) have advantages in sustainability, economics, reliability, safety, and versatility in application.

- 80 MWe, 200 MWth
- 4-pack at 320 MWe
- **565 °C (1049 °F) steam**
- Online refueling
- Helium cooled
- 60-year life



### Reactor: XENITH

To address the need for ground, sea and air transportable small power production. We've developed reactor concepts with potential civilian government, remote community and critical infrastructure applications.

- 5 MWe "Microreactor"
- Fits in cargo container
- Digital twin to assess operations
- 3+ year life



### Fuel: TRISO-X

Our reactors use tri-structural isotropic (TRISO) particle fuel, developed and improved over 60 years. We manufacture our own proprietary version (TRISO-X) to ensure supply and quality control.

- "TRISO particles are the most robust Nuclear Fuel on Earth."  
– U.S. Department of Energy
- The TRISO particles act as the containment vessel for fission products.



### Space Applications

NASA, DOE, and DOD are exploring our technology and fuel for nuclear thermal propulsion and fission power for the lunar surface.