

# Company Highlights



*BWXT is one of the world's most prolific nuclear technology innovation companies and the sole manufacturer of naval nuclear reactors for U.S. submarines and aircraft carriers.*



**6,600**  
highly skilled  
employees



**\$1.9 billion USD**  
in 2019 revenues



**12**  
major manufacturing  
facilities totaling 3.9  
million square feet



**60+**  
years manufacturing naval  
nuclear components  
and reactors



**300+**  
commercial nuclear  
steam generators  
manufactured



**1.5 million+**  
Canada Deuterium  
Uranium (CANDU) fuel  
bundles provided



**15**  
U.S. Department of Energy  
laboratories, environmental  
cleanup projects and NASA sites



**8,000+**  
fuel elements delivered to U.S.  
national laboratories, universities  
and international customers

# BWXT Advanced Nuclear Reactor (BANR)

DOE's Advanced Reactor Demonstration Program (ARDP) provides cost share for risk reduction of lower TRL/MRL technologies to improve BANR commercialization and cut baseline cost in half.

## Baseline advantages compared to current nuclear systems:

- Configurations for electricity, process heat, or both
- TRISO as accident tolerant and proliferation resistant fuel form
- Fuel form and passive cooling approach eliminates need for external power to perform safety functions and increases coping time during accident scenarios
- Modular, mobile, and factory constructed skids reduces construction time and costs
- Smaller emergency planning zone anticipated

## ARDP Risk Reduction enhancements that improve commercialization:

- UN TRISO enabling higher power and/or longer core life
- Higher core outlet temperature may enable direct Brayton Cycle or Combined Cycle to increase efficiency (from 33% to 50%+)
- Incorporation of advance manufacturing technologies that will make cores faster and less expensive to build
- Incorporate in-core sensors to enable semi-autonomous operation and minimize staffing

