



BWXT

**NUCLEAR
POWERED**

ADVANCED FUELS

POWERING TOMORROW

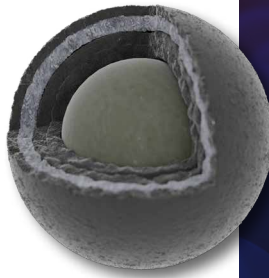
FULL-CYCLE EXPERTISE IN ADVANCED FUELS AND SPECIALTY MATERIALS

For nearly 70 years, BWXT has delivered nuclear fuel and specialty material solutions for customers across government and commercial markets. Our capabilities span multiple fuel forms and any enrichment level, and we manage the entire fuel cycle from feedstock to finished fuel. We operate two NRC Category-1 licensed facilities in the U.S. and two Class 1B facilities in Canada, which are supported by a highly skilled workforce and robust supply chain. This breadth, combined with proven agility and sustained investment in innovation, makes BWXT an industry-leading supplier of advanced fuels for the next generation of defense, commercial energy, research reactors and space systems.

TRISO FUEL

Tristructural Isotropic Fuel (TRISO) is widely regarded as one of the most advanced and robust nuclear fuels available, enabling the next generation of high temperature, passively safe reactors. BWXT is developing and producing TRISO fuel using production scale equipment, with a vertically integrated facility capable of handling the entire TRISO fuel cycle — from feedstock preparation to uranium recovery and purification.

BWXT has produced TRISO for over two decades for multiple government and commercial customers, demonstrating agility through varied specifications and fast delivery to meet mission critical deadlines. Ongoing capacity expansion positions BWXT to meet the rising demand for military microreactors, space reactors and emerging commercial advanced reactors.



TRISO: THE FUEL POWERING THE FUTURE OF ADVANCED REACTORS

- TRISO consists of uranium kernels coated with multiple layers of carbon and ceramic based materials, creating miniature containment systems for each particle.
- The Department of Energy calls TRISO “the most robust nuclear fuel on Earth” because it withstands very high temperatures and resists corrosion.
- Its inherent safety and performance make TRISO a key fuel for next-generation reactors.

HALEU & LEU/HEU DOWNBLENDED FUELS

With decades of experience downblending highly enriched uranium (HEU) to produce low-enriched uranium (LEU) and high assay low-enriched uranium (HALEU), BWXT is one of the only U.S. suppliers able to fabricate specialized fuel forms across the full enrichment spectrum.

Our NRC Category-1 licensed facilities support the production of uranium oxides, carbides, nitrides and alloys, allowing us to tailor fuel products to a customer’s reactor design. Our ability to downblend HEU mitigates the limited availability of HALEU and ensures a resilient, domestic supply chain for next generation reactors.



WITH ADVANCED FUELS

RESEARCH REACTOR FUELS

Research and test reactors play a critical role in advancing next generation nuclear technologies, making reliable fuel supply essential. BWXT remains the sole domestic provider of HEU and HALEU aluminum clad, plate type fuel assemblies for high performance research and test reactors in the United States. With nearly four decades of supply to national laboratories and universities, BWXT brings unmatched experience in fabricating precision, high performance research fuels.



CANDU FUEL

Across our Canadian operations, BWXT has manufactured over 1.2 million CANDU fuel bundles, supplying the Ontario Power Generation's Darlington and Pickering generating stations with highly reliable, clean energy. Our facilities, including pellet production at BWXT Toronto, produce multiple CANDU fuel types. These activities are backed by decades of design, manufacturing, delivery and maintenance expertise.



HIGH PURITY DEPLETED URANIUM (HPDU)

High Purity Depleted Uranium (HPDU) is not a reactor fuel; instead, it supports national programs that require tightly controlled material processing.

BWXT has produced HPDU-specification material for decades and uses chemical and reduction processes to convert legacy DOE owned materials to HPDU metal. All HPDU production meets federal standards and is managed under strict regulatory and safety requirements.



165 YEARS OF INNOVATION

1856

Stephen Wilcox patented the water tube boiler

1953

Designed and fabricated components for the world's first nuclear powered submarine, the USS Nautilus

1958

Began fabricating research and test reactor fuel for universities and national laboratories

1995

Awarded contract to downblend HEU (Highly Enriched Uranium) from Project Sapphire

2006

Began developing oxy-fuel technology for carbon capture at fossil-fueled power plants

2015

Delivered the 400th nuclear core to the US Navy

2017

Awarded NASA Nuclear Thermal Propulsion Reactor Design Contract

2019

Awarded first Columbia-class submarine contract

2022

DoD awarded BWXT contract to build Project PELE microreactor

2023

Designed and built the nuclear reactor engine for DARPA NASA DRACO space project

2025

Delivered 40,000 TRISO compacts to Idaho National Lab for PELE reactor

At BWX Technologies, Inc. (NYSE: BWXT), we are People Strong, Innovation Driven. A U.S.-based company with approximately 10,000 employees, BWXT is a Fortune 1000 and Defense News Top 100 manufacturing and engineering innovator that provides safe and effective nuclear solutions for global security, clean energy, nuclear medicine, space exploration and environmental restoration. BWXT owns and operates 17 manufacturing facilities globally, and its 14 strategic partnerships support the U.S. and Canadian governments at more than two dozen additional locations. For more information, visit www.bwxt.com. Follow us on LinkedIn, X, Facebook and Instagram.

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