BWRX-300 small modular reactor reaches regulatory milestone in the UK

WILMINGTON, North Carolina (December 11, 2025) – The GE Vernova Hitachi Nuclear Energy (GVH) BWRX-300 small modular reactor (SMR) has completed Step 2 of the Generic Design Assessment (GDA) process in the UK.

The BWRX-300 completed Step 1 of the GDA process in December 2024 and GVH has now received formal notification about completion of Step 2. The Office for Nuclear Regulation (ONR), the Environment Agency (EA) and Natural Resources Wales (NRW) utilize the GDA process to ensure that new reactor designs meet the highest standards for safety, security and environmental protection. The ONR and EA statements indicate that their Step 2 assessment has not identified any fundamental safety, security safeguard or environmental protection shortfalls with the design of the BWRX-300.

“Completing Step 2 of the GDA is a significant regulatory milestone,” said **Andy Champ, GVH UK Country Leader**. “This is the fastest that any technology provider has completed steps 1 and 2, truly demonstrating the value of our progress in construction in Canada and is another sign that the BWRX-300 continues to advance globally.”

As it works to deploy the BWRX-300 in Poland and Eastern Europe, Orlen Synthos Green Energy (OSGE) coinvested in the GDA for the BWRX-300 as part of the UK government’s Future Nuclear Enabling Fund project to benefit from regulatory lessons learned.

“Today we have taken another step towards supporting Britain with much needed affordable, clean and reliable energy,” said **Rafał Kasprow, CEO, OSGE**. “By completing GDA Step 2, the BWRX-300 continues prove it is the world’s most deployment ready SMR.”

Momentum around the BWRX-300 continues to build globally. Construction of the first BWRX-300 is underway at Ontario Power Generation's (OPG) Darlington site near Toronto. A total of four units are planned for the site. The U.S. Nuclear Regulatory Commission has accepted and is reviewing Tennessee Valley Authority's (TVA) application to construct the first BWRX-300 in the U.S. at the utility's Clinch River site in Oak Ridge, Tennessee. OPG, TVA, Duke Energy and Synthos Green Energy in Poland are investing in the standard design of the BWRX-300. These developments support GVH's progress and leadership in scaling and deploying SMRs commercially to customers around the globe.

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About GE Vernova Hitachi Nuclear Energy

GE Vernova's Nuclear energy business, through its global alliance with Hitachi, is a world-leading provider of nuclear fuel bundles, services, and advanced nuclear reactor designs. Technologies include boiling water reactors and small modular reactors, such as the BWRX-300, which is one of the simplest, yet most innovative boiling water reactor designs. GE Vernova's Nuclear fuel business, Global Nuclear Fuel (GNF), is a world-leading supplier of boiling water reactor fuel and fuel-related engineering services. GNF is a GE Vernova-led joint venture with Hitachi, Ltd. and operates primarily through Global Nuclear Fuel-Americas, LLC in Wilmington, N.C., and Global Nuclear Fuel-Japan Co., Ltd. in Kurihama, Japan. HITACHI is a trademark of Hitachi, Ltd. used under trademark license. GE is a trademark of General Electric Company used under trademark license.

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