

Hitachi-GE Nuclear Energy announces supply of key reactor components for OPG's Darlington New Nuclear Project

Tokyo, May 9, 2025 Hitachi-GE Nuclear Energy, Ltd. ("Hitachi-GE Nuclear Energy")^{*1}, a joint venture between Hitachi, Ltd. and GE Vernova, announces its role in supplying key reactor components for the first unit of Ontario Power Generation ("OPG")'s Darlington New Nuclear Project ("DNNP") under its nuclear alliance partner, GE Vernova Hitachi Nuclear Energy. The DNNP marks a significant milestone as it is the first Small Modular Reactor ("SMR") project in North America, and OPG has officially announced the commencement of construction for the BWRX-300 on May 8, 2025. The BWRX-300 is a state-of-the-art SMR developed collaboratively by GE Vernova Hitachi Nuclear Energy and Hitachi-GE Nuclear Energy, designed to achieve high economic efficiency while enhancing safety. Hitachi-GE Nuclear Energy has been actively involved in the design process of this innovative reactor.

^{*1} On June 1, 2025, the company will change its company name to Hitachi GE Vernova Nuclear Energy, Ltd.

In addition to its involvement in the design, Hitachi-GE Nuclear Energy will supply critical components for the first unit of DNNP, including Reactor Internals, Fine Motion Control Rod Drives ("FMCRD"), and Hydraulic Control Units ("HCU"). These components are essential for the reactor's functionality and safety, and Hitachi-GE Nuclear Energy has a proven track record of delivering these components to numerous ABWR/BWR reactors.

"We are honored to contribute to this groundbreaking project," said Masanao Moriwaki, SVP and General Manager, Global Business Development and Management Division, Hitachi-GE Nuclear Energy. "Our extensive experience and proven technology in BWR reactors will ensure the success and reliability of the Darlington New Nuclear Project. We look forward to continuing our collaboration with OPG and GE Vernova Hitachi Nuclear Energy to bring this innovative SMR to fruition."

For the first unit, Hitachi-GE Nuclear Energy will collaborate with experienced domestic supply chains in Japan to ensure the delivery of reliable equipment. For subsequent units, in addition to existing experienced suppliers, Hitachi-GE Nuclear Energy plans to leverage Canadian supply chains to maintain reliability while promoting localization and further economic efficiency.

Moving forward, Hitachi-GE Nuclear Energy will continue to contribute to the success of the DNNP by utilizing its extensive knowledge and experience in BWR technology and will leverage the experience gained from DNNP to grow its business by capturing the growing demand for SMR in partnership with GE Vernova Hitachi Nuclear Energy.

Related Link

News release published on May 8, 2025 by GE Vernova Hitachi Nuclear Energy "["GE Vernova Hitachi & Ontario Power Generation to build first small modular reactor in western world in Canada"](#)"

About Hitachi-GE Nuclear Energy, Ltd.

Hitachi-GE Nuclear Energy pursues nuclear energy facilities with higher reliability and safety, promoting research, development, design, manufacturing, construction, and maintenance under an integrated responsibility system. With delivery records of 23 nuclear reactors in Japan, including those under construction, Hitachi-GE Nuclear Energy supports customers by providing a wide range of solutions from new reactor construction to preventive maintenance and decommissioning. Furthermore, Hitachi-GE Nuclear Energy contributes to the decommissioning of the Fukushima Daiichi Nuclear Power Plant and promotes the development of innovative light water reactors, small modular reactors, fast reactors, fuel cycle technology, and solutions that enhance plant operations using digital technology. For more information on Hitachi, please visit the company's website at <https://www.hitachi-hgne.co.jp/en/>.

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