

Title: Bwrx 300 cost

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What is a BWRX-300 SMR?

The BWRX-300 is a 300 MWe water-cooled, natural circulation SMR with passive safety systems that leverages the design and licensing basis of GE Vernova Hitachi's 1500 MW (ie a traditional large-scale unit) ESBWR boiling water reactor. How much will the project cost? The total cost of the four-SMR project is CAD20.9 billion.

Does the BWRX-300 produce carbon?

The BWRX-300 produces no carbon during operation and has been designed to achieve construction and operating costs that are substantially lower than traditional nuclear power generation technologies. GEH has been selected by Ontario Power Generation (OPG) as the technology partner for the Darlington New Nuclear Project.

Who will buy a BWRX-300?

Other prospective buyers include the Tennessee Valley Authority (TVA), SaskPower and Great British Nuclear. More BWRX-300s are in early planning stages in Poland and the Czech Republic. Crucially, however, OPG is the first and only utility worldwide to bind itself contractually to build a BWRX-300.

How much does a BWRX-300 reactor cost?

So vendors designed ever-larger reactors. Reactors under construction today average about one gigawatt, roughly three times the BWRX-300's output. They can cost more than US\$10-billion, leaving only the largest government-backed utilities as potential purchasers.

the first BWRX-300 could cost more than five times GE-Hitachi's original target price. emerging consensus that SMRs are not economic "The nuclear people don't operate in a vacuum, ...

The modular plant, called the BWRX 300, was designed by American based G.E. Hitachi Nuclear Energy and will be able to provide 300 megawatts of electricity, which is enough to power ...

It focuses on low operating costs by using passive cooling, reducing expensive active safety systems. GE Hitachi BWRX-300 has the lowest projected cost at \$1.0-\$1.2B per unit.



## Bwrx 300 cost

The BWRX-300 small modular reactor has been designed to achieve construction and operating costs that are substantially lower than traditional nuclear power generation technologies.

The Government of Ontario has approved Ontario Power Generation's (OPG) plan to construct the first of four small modular reactors (SMRs) at the Darlington nuclear site in Clarington, ...

OPG's costs are several times greater than Wilmington, N.C.-based GE Hitachi Nuclear Energy originally promised. Early in the BWRX-300's development, GE Hitachi emphasized it was ...

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The 23-page report shows the price tag per kilowatt for the 300-megawatt GE Hitachi BWRX-300 boiling water reactor ballooning from an estimate of US\$2,883 in 2020 to a range of ...

Provincially owned Ontario Power Generation (OPG) plans to construct the first GE-Hitachi-supplied BWRX-300 SMR at an individual cost of C\$6.1 billion (US\$4.3 billion) -- with three ...

The Ontario government approved Ontario Power Generation's plan to spend \$7.7-billion to construct the first small modular reactor in a G7 country - a price far greater than independent ...

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