



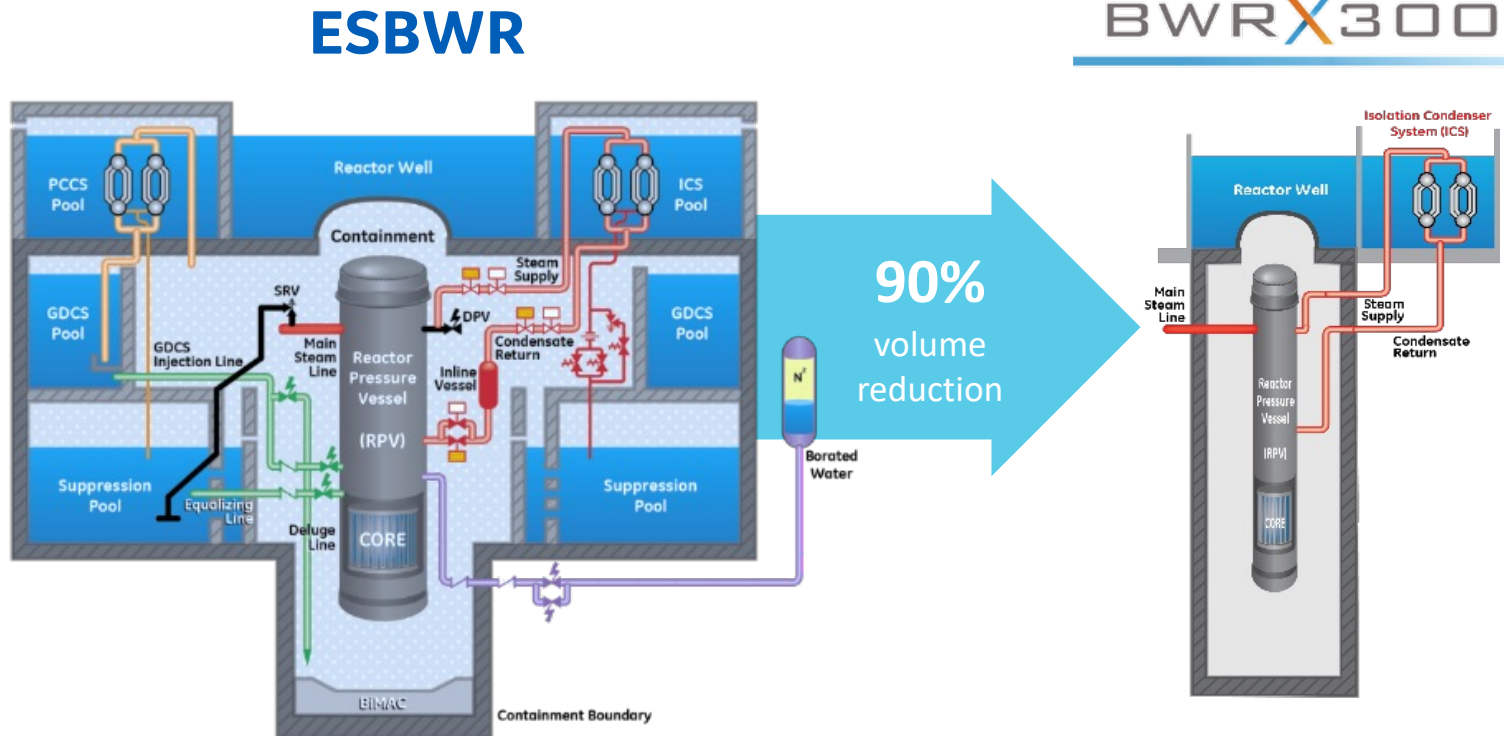
HITACHI

BWRX-300

Small Modular Reactor

GE Hitachi Nuclear Energy | Jon Ball

BWRX-300 small modular reactor

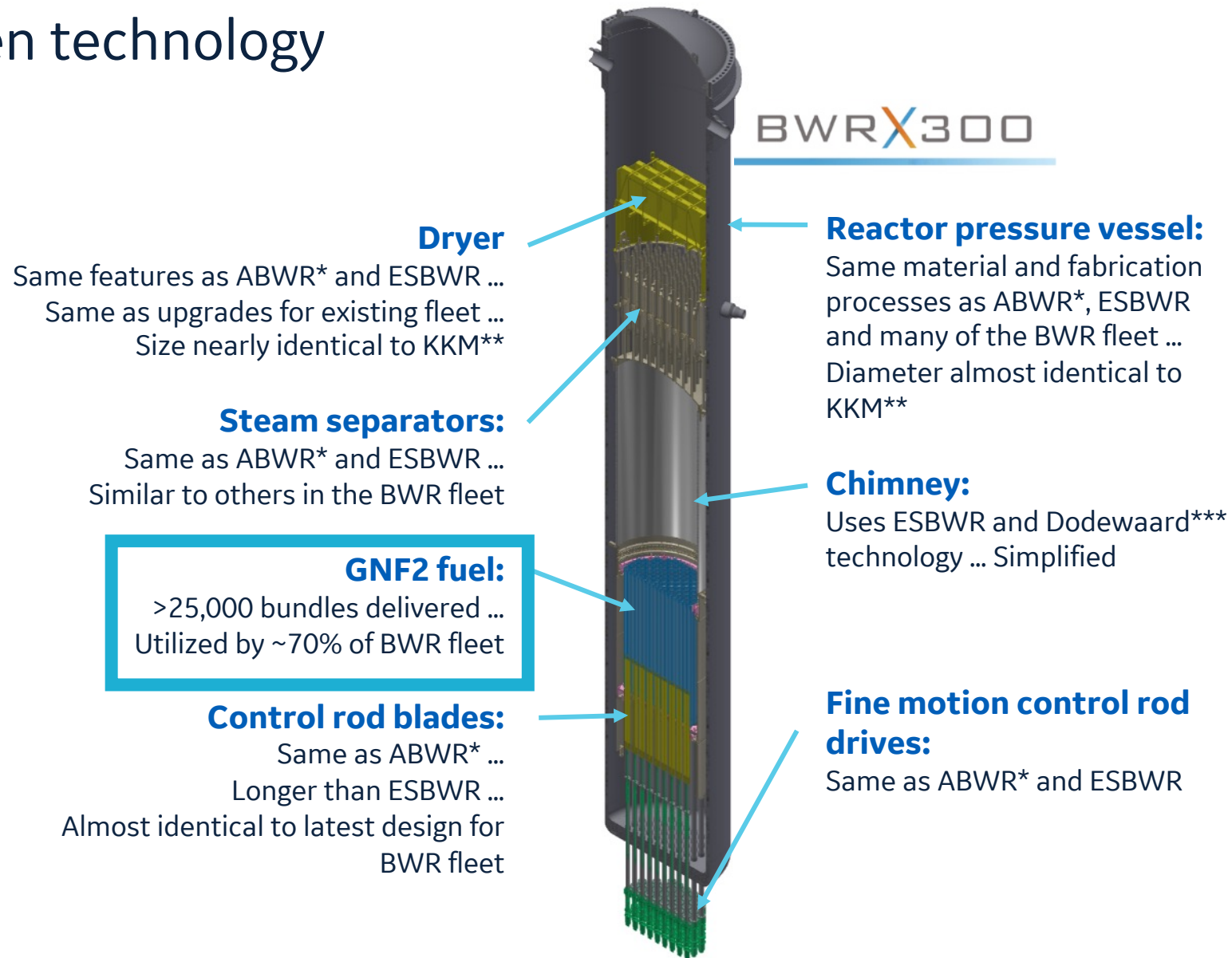


- 10th generation Boiling Water Reactor
- Scaled from prior licensed designs
- Patented innovation driving simplicity
- >50% less concrete/MW
- Significant capital cost reduction versus today's large reactors
- Leverages commercially available fuel
- Capable of integrating with renewables
- Ideal for electricity generation and industrial applications, including hydrogen production
- Initiated licensing in the U.S., Canada, and Poland
- Operational by 2028

Breakthrough innovation driving dramatic simplification and cost reduction

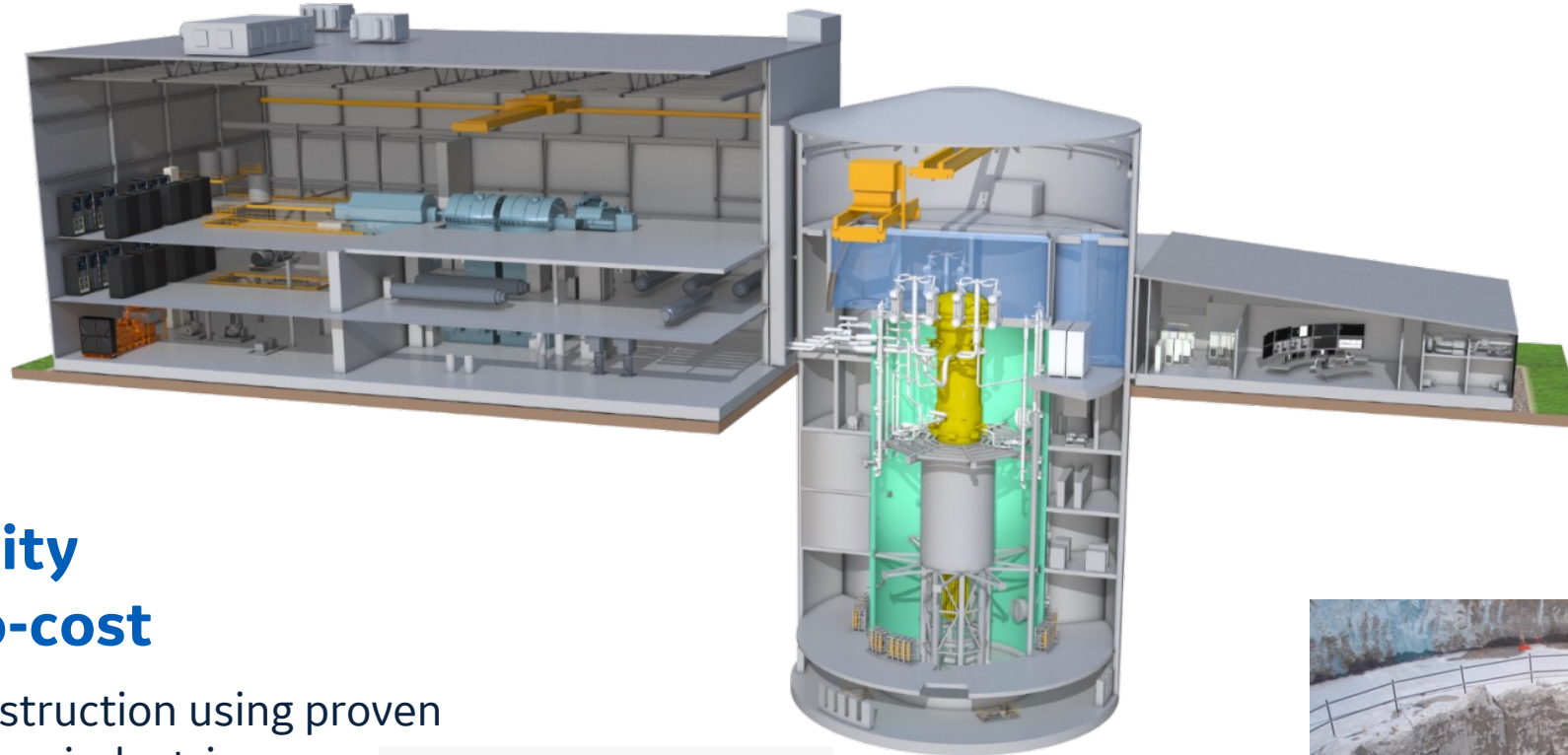
Utilizing proven technology

Proven components, prior testing, and operational history greatly accelerate deployment



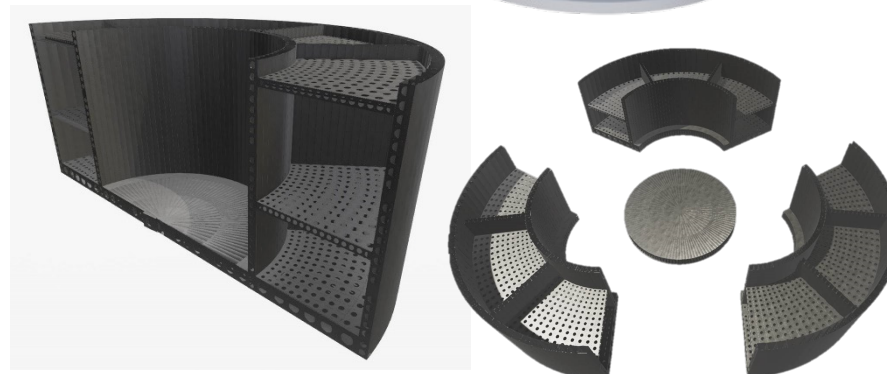
* ABWR fleet has combined 22+ years of operating experience | ** Kernkraftwerk Mühleberg (KKM): 355 MWe BWR/4 in operation since 1972 | *** Dodewaard: 58MWe natural circulation BWR, 1969 ~ 1997

Optimized for cost and ease of construction



Constructability and Design-to-cost

- Underground construction using proven methods from other industries
 - ✓ Vertical shaft sinking
 - ✓ SteelBricks™ technology
- Maximum use of catalogue items
- “Off the shelf” turbine/generator



Leads to small footprint and simple plant layout



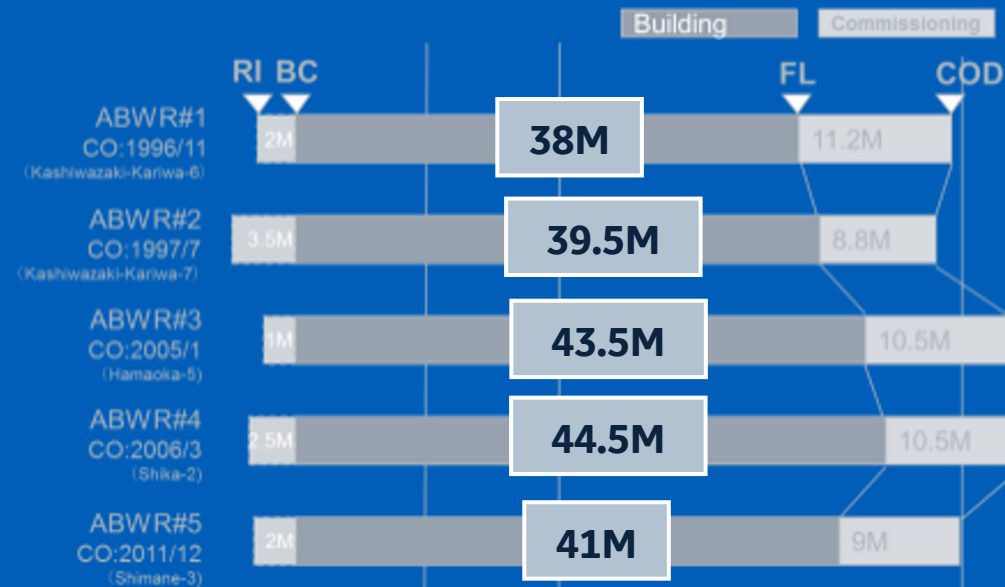
Power Block Dimensions: 140m x 70 m
Secure or Protected Area: 6.7 acres or 2.7 hectares
Owner's Area: 34 acres or 13.8 hectares
Emergency Planning Zone (EPZ): Site boundary (expected)

Building on ABWR experience

Efficient, repeatable model



**Kashiwazaki-Kariwa
6/7 ABWRs**



M - months

FIRST-OF-A-KIND GEN III PLANT BUILT ON 38-MONTH CONSTRUCTION SCHEDULE

Ontario Power Generation selects GEH's BWRX-300

ONTARIOPOWER
GENERATION



TORONTO | DECEMBER 2, 2021

GE Hitachi Nuclear Energy selected by Ontario Power Generation as technology partner for Darlington new nuclear project.

- ✓ **Submitted license-to-construct on 10/31/22 to Canadian regulator ... First in North America and Europe**
- ✓ **Early works site work has commenced**
- Deployment could be complete as early as 2028



TVA and OPG Partner on New Nuclear Technology Development



TVA authorizes new nuclear program to explore innovative technology.

GEH and TVA developing a construction permit application for BWRX-300 at the Clinch River Site.

CNSC and NRC Collaboration

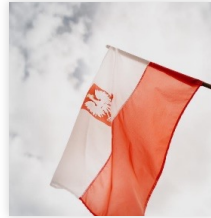


- Signed an MOU in 2017 and a joint memorandum of cooperation in 2019 aimed at enhancing technical reviews of SMRs
- Released Joint Report on GE Hitachi's Containment Evaluation Method of BWRX-300
- GEH will continue with Vendor Design Review process in Canada and pre-application activity in the U.S.

Significant global interest



synthos



POLAND | DECEMBER 2021

Polish companies Synthos Green Energy (SGE) and PKN Orlen have signed an investment agreement to establish a joint venture for the deployment of a small modular reactor (SMR) fleet in Poland.

SGE plans to deploy at least 10 BWRX-300 SMRs in Poland by early 2030s

SaskPower
Powering our future®



SASKATOON | JUNE 2022

SaskPower selects the GE Hitachi BWRX-300 small modular reactor technology for potential deployment in Saskatchewan

Multi-year assessment focused on several factors including safety, technology readiness and fuel type
Selection of same technology as OPG helps enable a pan-Canadian, fleet-based approach to SMRs

Kärnfull Next™



Sweden | March 2022

Kärnfull Next and GE Hitachi signed memorandum of understanding to collaborate on deployment of BWRX-300 in Sweden.

Kärnfull Next is the first project development company to focus on SMRs in Scandinavia

BWRX-300 SMR

Simple, cost competitive SMR design



Ideal solution to impact climate change and energy security in a meaningful timeframe



Ready for commercial deployment

