

Southern States Energy Board

August 30, 2022

Rich history of nuclear innovation and demonstrated experience deploying nuclear reactors



Proven success turning vision into commercial-scale reality, on time and on budget













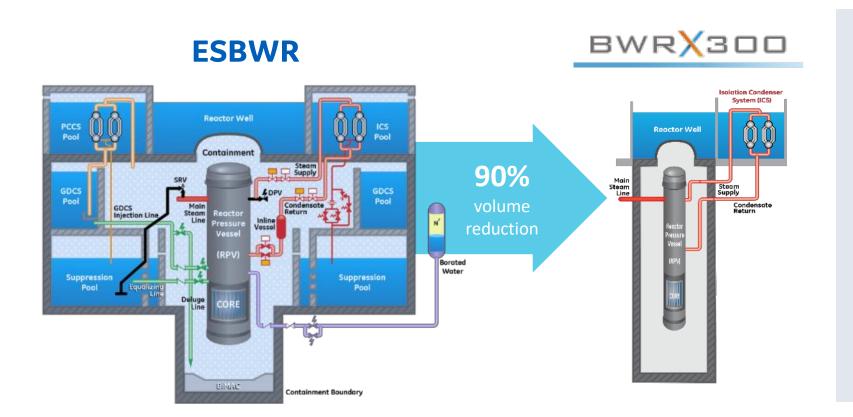
OVER 80 YEARS OF NUCLEAR EXPERIENCE AND INNOVATION



67 REACTORS LICENSED IN 10 COUNTRIES

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
t o d a y ' s l a r g e r e a c t o
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. and
Canada
Operational by 2028

Breakthrough innovation driving dramatic simplification and cost reduction

Optimized for cost and ease of construction





Constructability and Design-to-cost

Underground construction using proven methods from other industries

Utilizing Steel Bricks[™] for reactor building

Maximum use of catalogue items

"Off the shelf" turbin









TORONTO | DECEMBER 2, 2021

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

Deployment could be complete as early as 2028

Submitting license-to-construct in 2022 to Canadian regulator

Substantial economic opportunity for Ontario and Canada









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









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 the same technology as Ontario Power Generation helps enable a pan-Canadian, fleet-based approach to SMR deployment



What Role Can States Play?

Be a Knowledgeable Customer

Develop an Environment for More Skilled Workers

Develop and Implement Policies that support STEM education

Support Existing Supplier Base and Encourage New

Manufacturing and Fabrication Capacity

Enact Policies that Maintain a Level Playing Field

Potential Economic Impact: Jobs

Highly-skilled jobs in operations, services, manufacturing and construction

25% more jobs/MW than wind power*

1/3 higher pay than renewable sector*

Sustainable jobs -

year plant life

More jobs ripple into community

Excellent addition to tax base

Local construction

Reactor plant operation



construction thru 60

Supply chain localization



Local
equipment,
materials and
services

HITACHI

Do not miss the opportunity to lead on Nuclear it will be a vital part of our future energy supply and high-paying jobs.