

TVA: Leading America's Nuclear Future

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TVA is leading the nation in developing advanced nuclear technologies, like small modular reactors, that will play a critical role in our nation's energy and national security.

TVA has already committed \$350 million in developing SMRs and holds the nation's first early site permit for a SMR from the Nuclear Regulatory Commission for its Clinch River Nuclear Site.

TVA has built a global coalition to advance the development and address cost of first-of-a-kind SMR technology. With TVA's leadership, this industry coalition is pursuing a grant through the U.S. Department of Energy for development of SMR technology at Clinch River.

DOE funding will not only potentially accelerate deployment of the first SMR at Clinch River but will also help secure America's global nuclear leadership by paving the way to establish a domestic supply chain and highly skilled workforce for the GE Vernova Hitachi (GVH) Nuclear Energy BWRX-300 reactors and support future deployment across the United States and its allied nations around the world.



"Nuclear is a vital part of our energy security and our economic future. At Clinch River we're advancing nuclear and the foundations of the American nuclear supply chain to support America's future as a leader in AI and industrial technologies."

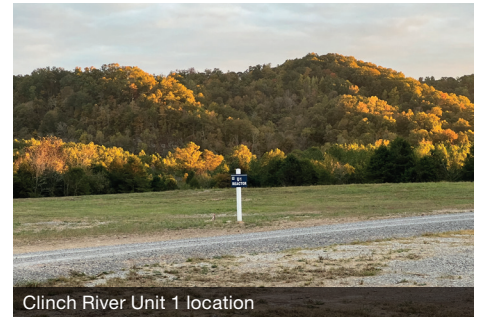
Don Moul,
TVA President and CEO

TVA's Nuclear Leadership Timeline

May 2016	Applied for Early Site Permit with U.S. Nuclear Regulatory Commission.
Dec. 2019	NRC issues TVA nation's first Early Site Permit for SMRs.
Feb. 2022	TVA Board of Directors approve \$200 million for launch of New Nuclear Program/Clinch River Project.
March 2023	TVA, Ontario Power Generation (OPG), Synthos and GE-Hitachi sign a technology collaboration agreement to invest in development of a standard design for the BWRX-300 SMR.
May 2023	New five lane bridge into Clinch River Nuclear site completed.
July 2023	Gov. Bill Lee (TN) names TVA COO Don Moul as a member of the Tennessee Nuclear Energy Advisory Council.
Aug. 2024	TVA Board authorizes an additional \$150 million for the Clinch River Project.
Jan. 2025	Announced Clinch River Integrated Project Delivery Partners GE Hitachi, Bechtel and Sargent & Lundy
Jan. 2025	TVA issues Environmental Impact Statement for BWRX-300 at Clinch River for public comment.
Apr. 2025	TVA applies for \$800 million from the U.S. Department of Energy with a strong industry coalition to advance Clinch River Project, establish a domestic supply chain, and support future deployment across the US.
May 2025	TVA Submits Construction Permit Application for Clinch River Unit 1 to the NRC

PROJECTED DATES

Aug. 2025	Begin next phase of project and work within the authorized budget*
Jan. 2026	Begin early site preparation*
Nov. 2026	Begin foundational work/reactor excavation*
Oct. 2028	Begin nuclear construction*
Dec. 2032	Commercial operation*



Clinch River Unit 1 location



Technology Collaboration Agreement



Bob Deacy, SVP Clinch River Project and TN Governor Bill Lee



Core boring for site ground analysis



Illustrative Rendering for SMR