U.S. Advanced Reactor Development: The Time for Demonstration is Now

Chris Levesque, President and CEO
TerraPower, LLC

Bold and Ambitious Clean Energy Goals

"[T]here is promise in the solutions — opportunities to… put the United States on a path to achieve net-zero emissions, economy-wide, by no later than 2050."

Executive Order on Tackling the Climate Crisis at Home and Abroad, January 27, 2021

TerraPower

Getting to Zero

Nuclear fission: “It’s the only carbon-free energy source that can reliably deliver power day and night, through every season, almost anywhere on earth, that has been proven to work on a large scale.”

Bill Gates in “How to Avoid a Climate Disaster: The Solutions We Have and the Breakthroughs We Need”

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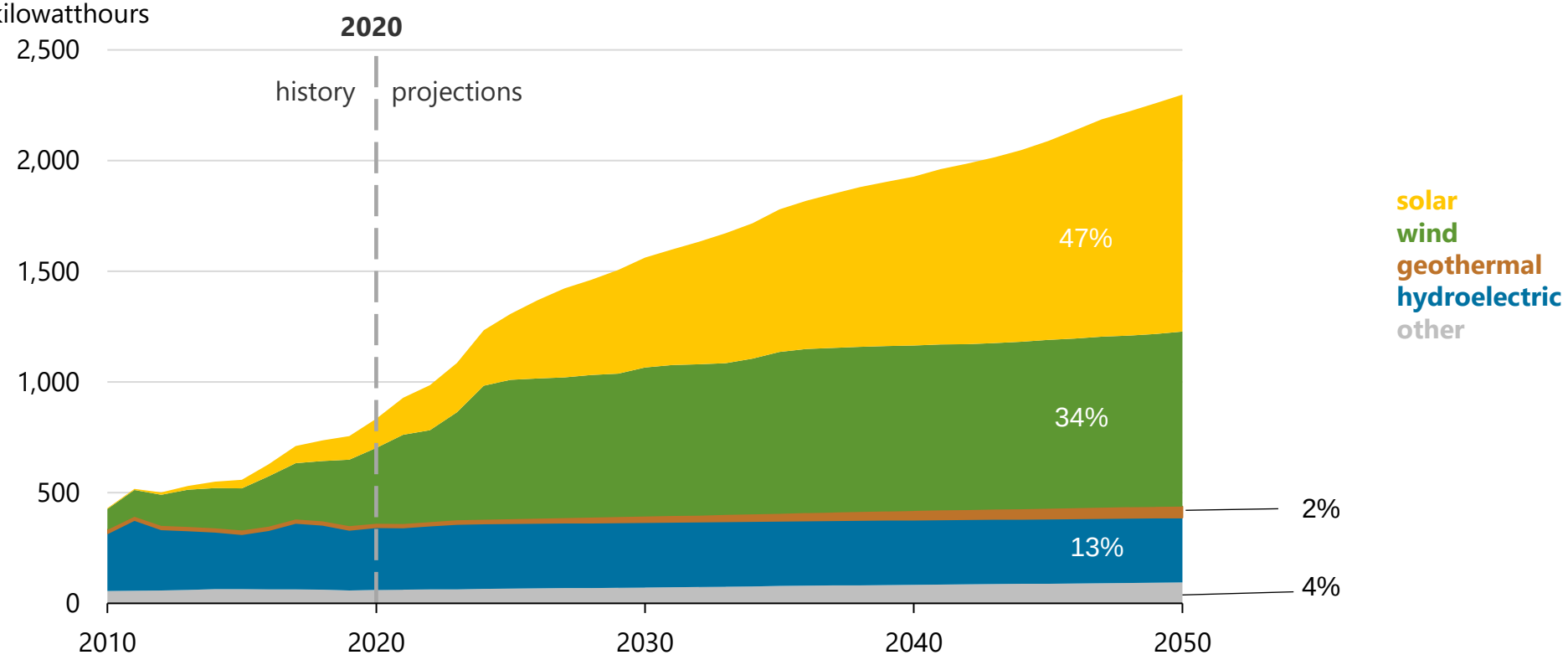
Need for Clean, Firm Generation and Energy Storage

U.S. renewable electricity generation, including end use

AEO2021 Reference case

billion kilowatthours



Source: U.S. Energy Information Administration, Annual Energy Outlook 2021 (AEO2021)

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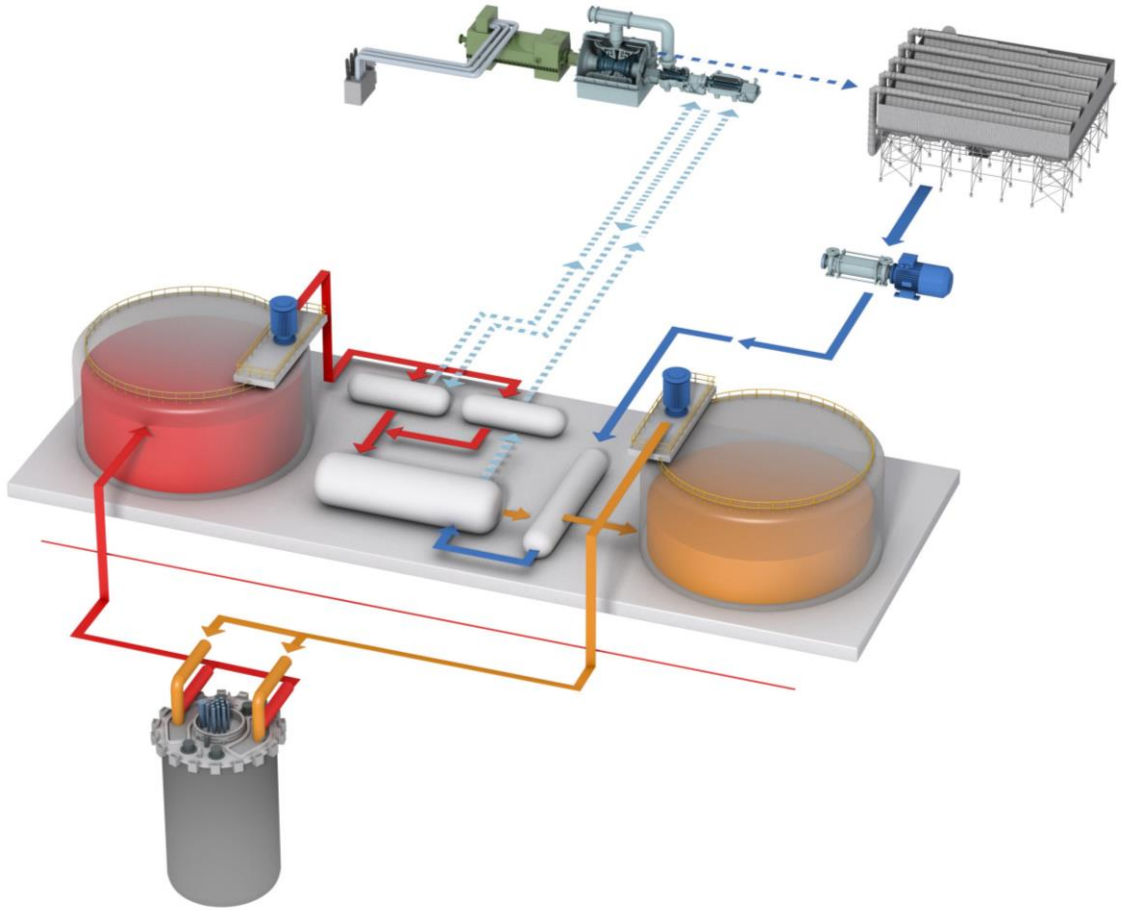
U.S. Commitment to Advanced Reactor Demonstration

- Renewing U.S. leadership in nuclear energy and climate
- Unlocking U.S. national labs' and nuclear technology companies' innovations
- Building on U.S. history of demonstration success

TerraPower

Natrium™ Technology: Flexible, Clean Energy

- Developed through close collaboration between TerraPower and GE Hitachi
- Builds on PRISM, TWR and concentrated solar-power technologies with a focus on cost competitiveness
- Integrates on and fortifies grids with high-renewables penetrations
- 345MWe reactor that can flex to 500MWe for 5.5 hours when needed



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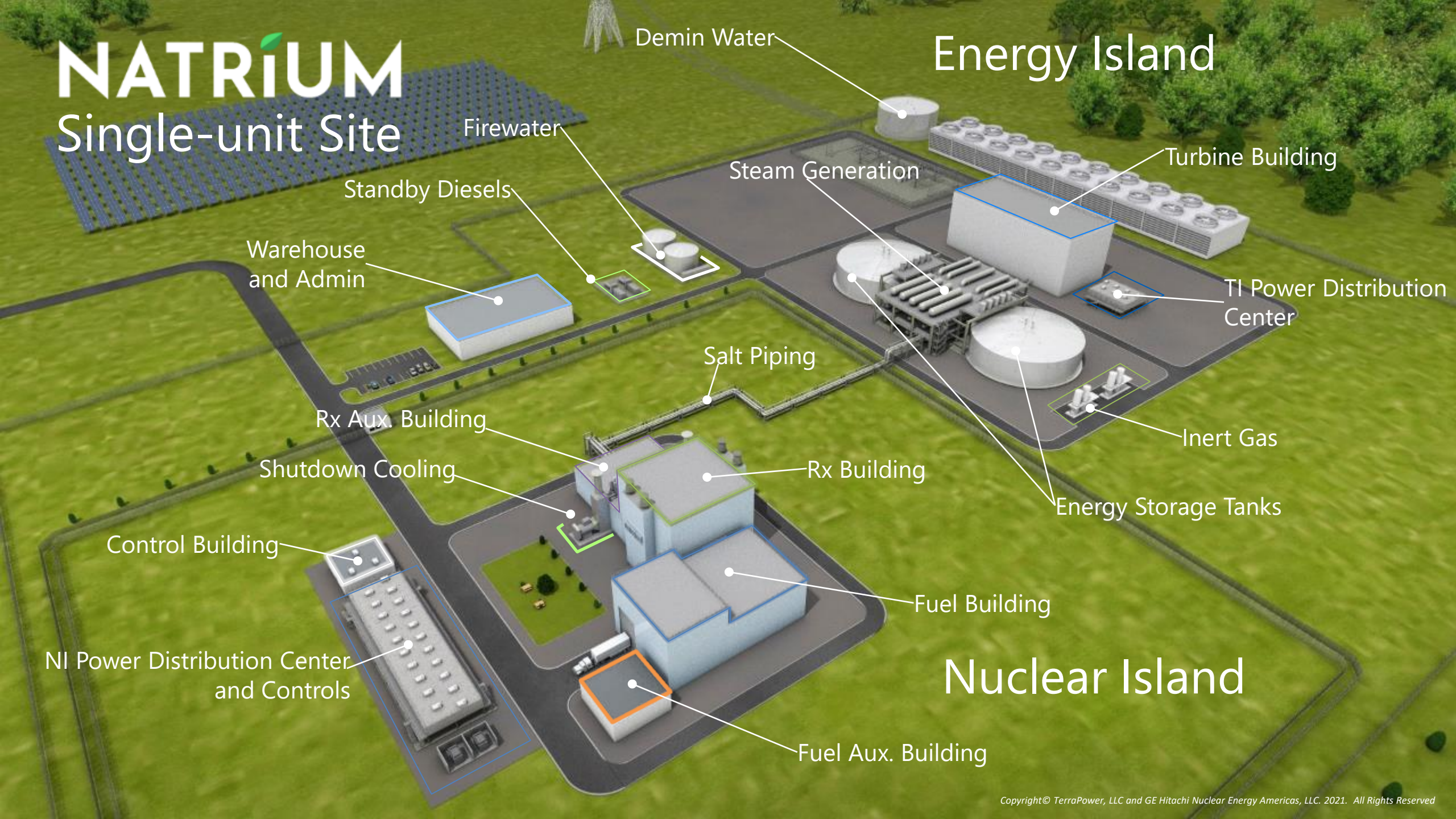

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