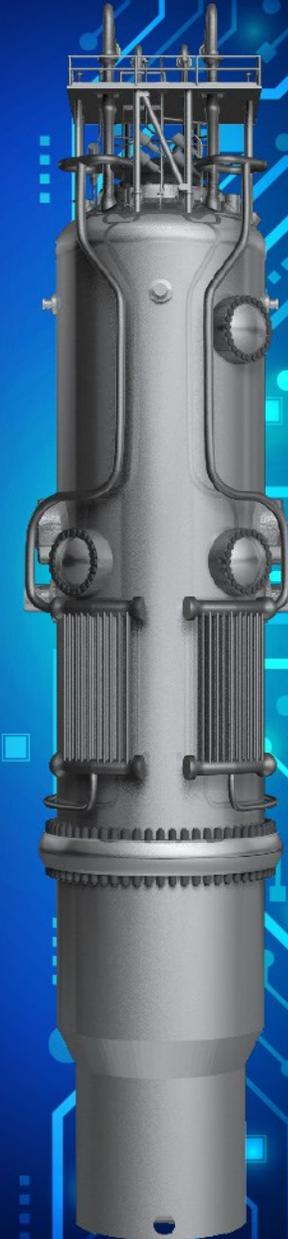


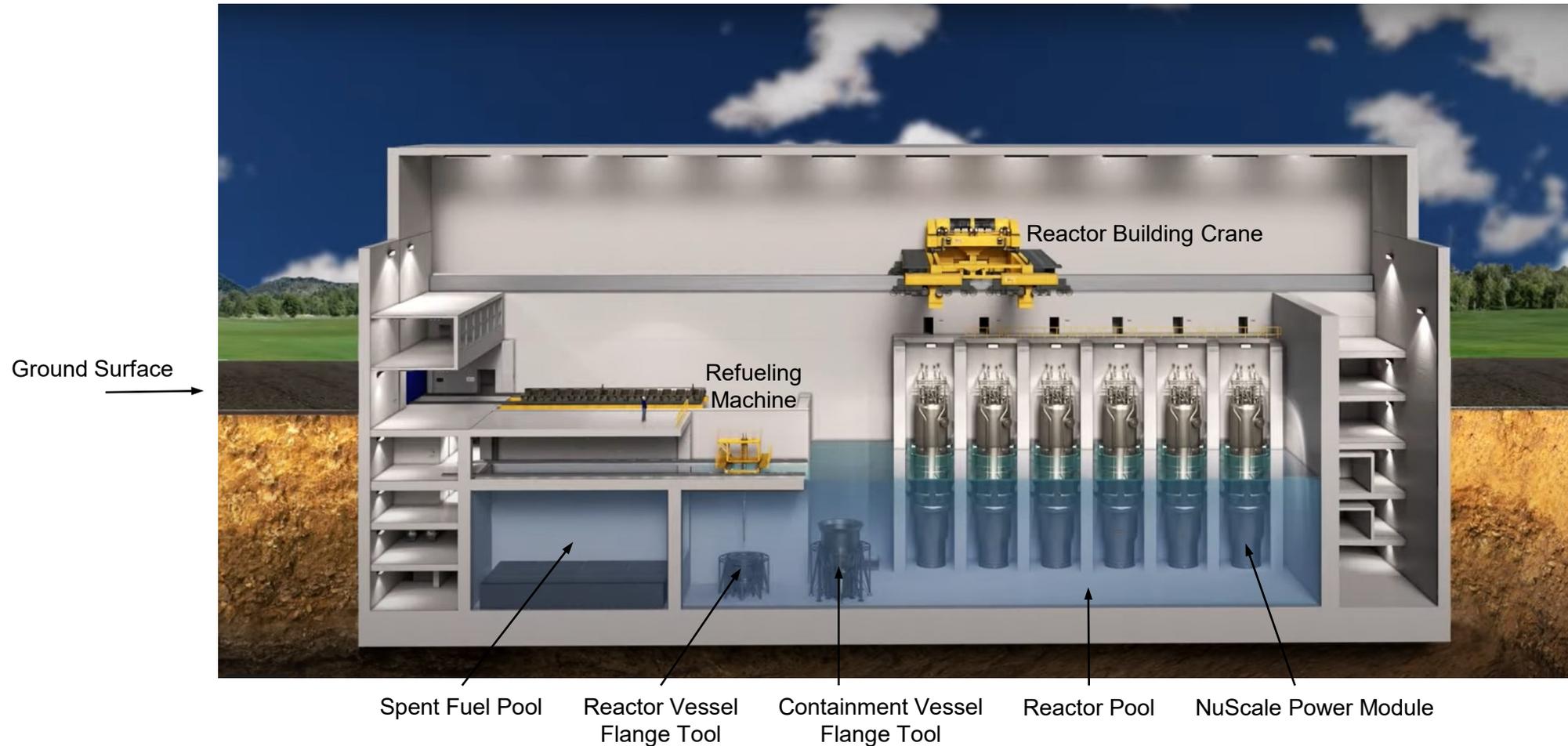
High Temperature Steam, A Commercial Reality

Luis DePavia
Innovation Manager

February, 2026

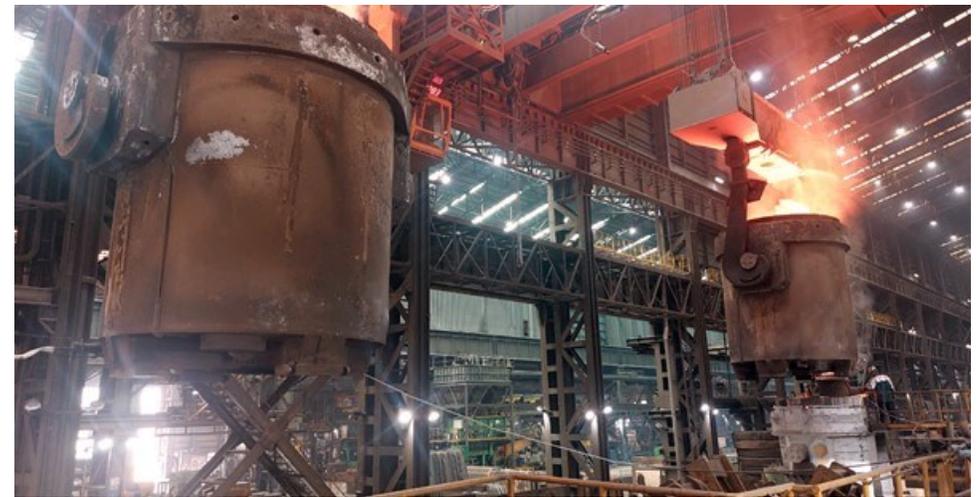


Reactor Building for 12 Module Plant (924 MWe, 3000 MWt)



Manufacturing Milestones

Supply Chain Partners Producing Long Lead Materials Associated with the Manufacturing of 12 Modules



Doosan

- Worked 10+ years with more than 23 suppliers to progress NuScale's design for manufacturing readiness
- Company continues to produce forgings and materials associated with the manufacturing of the first NuScale Power Modules



Romania

RoPower to deploy a SMR plant with 6 NuScale Power Modules™ at a former coal plant site in Doicești, Romania circa the end of the decade.

- Proceeding with Phase 2 FEED work led by Fluor
- E2 training facility deployed at U. Politehnica Bucharest



TVA

- TVA and ENTRA1 are planning to deploy 6 GWe of power using NuScale Power Modules.
- Six sites identified among TVA's seven-state operating region



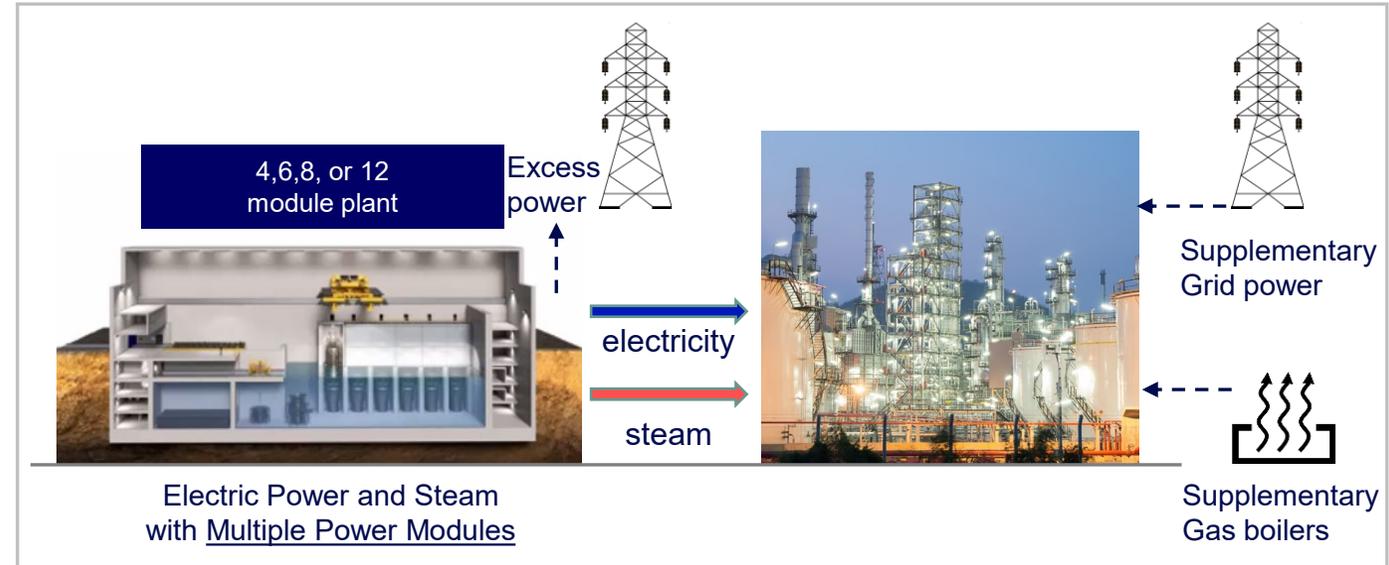
Oak Ridge Study Key Results for Combined Heat and Power

Technoeconomic analysis for a large Chemical facility using real conditions and historical data

- Supply **1.3 million kg/hr**, 400°C, 4.1 MPa and 73 MWe power
- Feasibility of an Integrated Energy System with “N” NuScale Power Modules combined with gas-fired boilers to maximize profitability and reduced CO₂

Results:

- It is feasible to fully meet the steam and power
- Excess power available to be exported to the grid
- Commercially available equipment
- Scalable architecture, maximum flexibility
 - 12-NPM Plant is the most profitable
 - 4-NPM combined w/boilers is an option
 - 8-NPM allows for N-2 redundancy
- Smooth transition, hybrid: NPM + Gas fired boilers
- 81% - 95% CO₂ emissions reduction



2025 Oak Ridge Report ORNL/TM-2025/3938

- Published: December 2025

- Office of Scientific and Technical Information ([OSTI](#)) DOE site

- Supersedes ORNL 2020 report

- Upated power, heat augmentation, availability, EPZ



High Temperature Steam Compressor Demonstration and Field Test Program

- NuScale and Elliott Ebara have established a collaborative program to demonstrate and field test a high temperature (>500 °C) steam compression system at commercial scale at a petrochemical plant.
- The compressor will be fabricated by Elliott Ebara and demonstrated at its test facilities in Jeannette, Pennsylvania.
- Subsequently, it is proposed that the system be transported and deployed at an industrial petrochemical site for field testing.
- NuScale and Elliott Ebara are seeking a petrochemical industry partner for this effort.



NuScale team visits EEB





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