Innovation and ingenuity for a new day of energy
Who is NuScale Power?

- NuScale Power was formed in 2007 for the sole purpose of completing the design and commercializing a small modular reactor (SMR) – the NuScale Power Module™.
- Initial concept had been in development and testing since the 2000 U.S. Department of Energy (DOE) MASLWR program.
- Fluor, global engineering and construction company, became lead investor in 2011.
- In 2013, NuScale won $226M in matching funds in a competitive U.S. DOE Funding Opportunity.
- >350 patents granted or pending in 20 countries.
- >800 people have worked on the project with 6 offices in U.S. and 1 office in London.
- Making substantial progress with a rigorous design review by the U.S. Nuclear Regulatory Commission (NRC).
- Phase 1 of NRC Review Completed ahead of schedule.
- Additional DOE cost-share awards of $47M in 2018.
- On track for first plant operation in 2026 in the U.S.

Core Technology: NuScale Power Module

- A NuScale Power Module™ (NPM) includes the reactor vessel, steam generators, pressurizer, and containment in an integral package – simple design that eliminates reactor coolant pumps, large bore piping and other systems and components found in large conventional reactors.
- Each module produces up to 60 MWe
  - small enough to be factory built for easy transport and installation
  - dedicated power conversion system for flexible, independent operation
  - incrementally added to match load growth
  - up to 12 modules for 720 MWe gross (684 MWe net) total output
A New Approach to Construction and Operation

Beyond Baseload: NuScale Diverse Energy Platform
NuScale design meets or exceeds EPRI Utility Requirements Document (URD), Rev. 13, load following and other ancillary service requirements.

**NuScale Power for Sustainable Business**

- Over 100 of the world’s most influential companies have committed to **100% renewable power** in the RE100 initiative
- NuScale Plants can help companies meet their clean energy goals through **Power Purchase Agreements** or by producing their own electricity and heat on-site – helping truly decarbonize industrial facilities and supply chains.
- Need technology-neutral state and corporate clean energy policies

When energy sources are evaluated over their **entire life cycle**, from mining of materials and fuel, to construction, and eventual D&D and waste storage – nuclear energy has a carbon footprint lower than solar PV and about the same as wind.
The Future of Energy is Here

NuFuel HTP2 Testing  One-third scale NIST-1 Test Facility  NuScale Control Room Simulator

Lenka Kollar
Director, Strategy & External Relations
lkollar@nuscalepower.com