Nonproprietary

NuScale Diverse Energy Platform



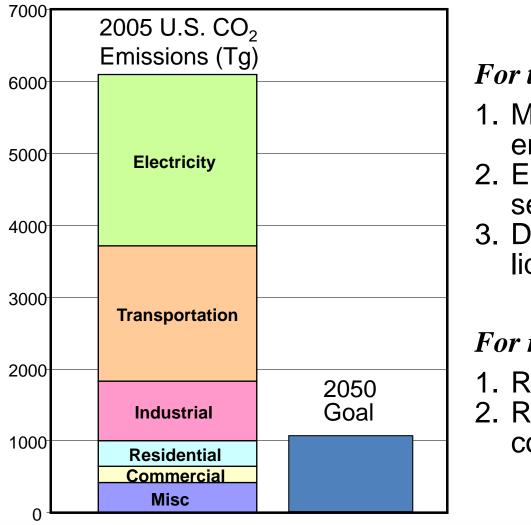
Dan Ingersoll Director, Research Collaborations

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The carbon emissions challenge



For the country:

- 1. Maximize use of <u>all</u> clean energy sources
- 2. Electrify the transportation sector
- 3. Develop clean processes for liquid fuels and petrochemicals

For nuclear energy:

- 1. Reach more utility customers
- 2. Reach more non-electric energy consumers



The NuScale solution

Scalable in small power increments

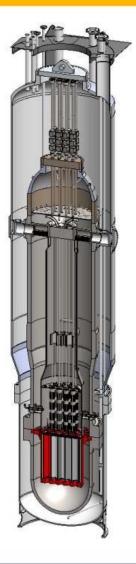
- Low initial commitment and cost
- Readily expandable as demand grows
- High reliability and continuous plant output

• Flexible for multi-product outputs

- Co-generation of individual modules
- Whole-module dedication to different products

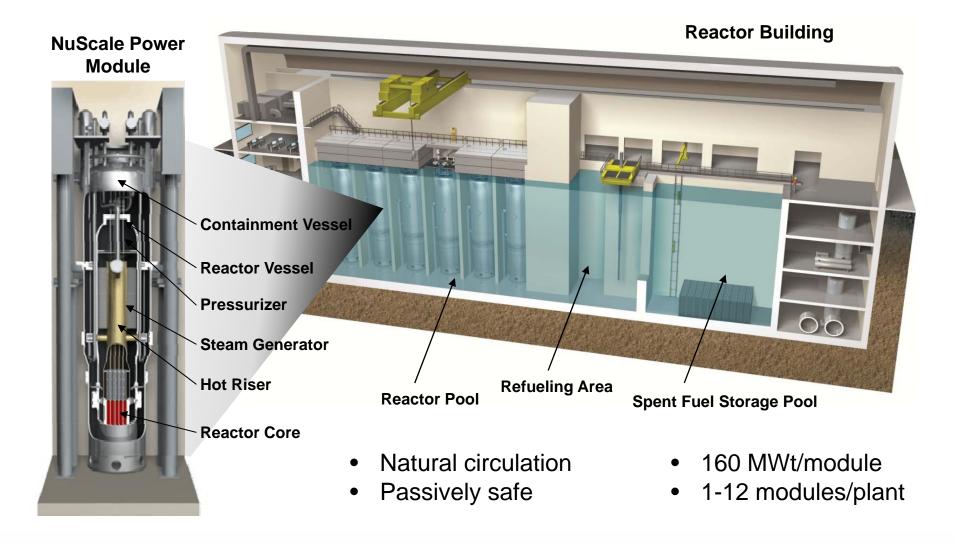
Suitable for diverse siting

- Smaller source term per module
- Lower likelihood of core damage
- Multiple features to reduce and delay radionuclide release





NuScale modular plant





Completed co-generation studies

Oil Refinery Study Reducing Carbon Emissions (Fluor and NuScale)

10-Module Plant coupled to a 250,000 barrels/d refinery

Integration with Wind Study Horse Butte Site (UAMPS, ENW and NuScale)

1-Module balancing output of UAMPS 58 MWe wind farm





Hydrogen Production Study High-Temp Steam Electrolysis (INL and NuScale)

6-Module Plant producing 200 tons/d hydrogen for ammonia plant

Desalination Study Supporting a 300,000 City (Aquatech and NuScale)

8-Module Plant producing 50 Mgal/d of clean water plus 350 MWe to the grid





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Dan Ingersoll dingersoll@nuscalepower.com

1100 NE Circle Boulevard, Suite 200 Corvallis , OR 97330 541.207.3931

http://www.nuscalepower.com





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