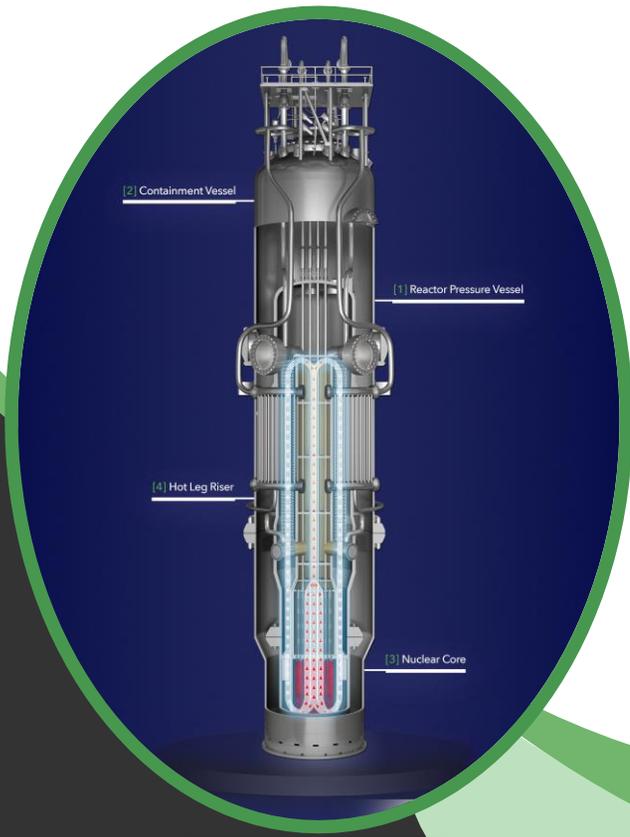


## WHY NUCLEAR?

Utah Associated Municipal Power Systems (UAMPS) has been evaluating the Carbon Free Power Project (CFPP) since 2012 as a long-term, dispatchable source of carbon-free electricity to replace its fossil fuel generation. The CFPP combined with renewable projects enables UAMPS to move toward a clean, reliable, carbon-free energy portfolio while bolstering resilience with a dependable, stable electric grid.

# CFPP

## CARBON FREE POWER PROJECT



## ABOUT THE PROJECT

The project calls for constructing a Small Modular Reactor (SMR) power plant on the Department of Energy's Idaho National Laboratory using the SMR technology being developed by NuScale Power. The preferred SMR plant will deploy six, 77 megawatt modules to generate 462 megawatts of carbon free electricity, and is expected to be operational by 2030.



## NRC LICENSING TIMELINE

**August 2020**

NPM Design Approval:  
Nuclear Regulatory issues “Final Safety  
Evaluation Report” (FSER)

**August 2021**

Anticipated date by which NuScale will  
receive full design certification

**2022**

Anticipated date for “Standard Design  
Application” (SDA) for 77 MWe module  
design

**2024**

Anticipated date for “Combined License  
Application” (COLA)



## NUSCALE POWER MODULE

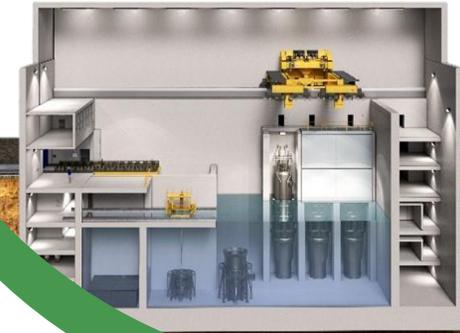
A NuScale Power Module (NPM) includes the reactor vessel, steam generators, pressurizer, and containment in an integral package – a simple design that eliminates reactor coolant pumps, large bore piping and other systems and components found in conventional reactors.

Each module produces up to 77 MWe

- Small enough to be factory built for easy transport and installation
- Dedicated power conversion system for flexible, independent operation

Modules are incrementally added to match load growth

- Up to 12 modules for 924 MWe gross output
- Various power plant solutions from 4 modules to 12 modules are available



## CFPP ATTRIBUTES

Modular deployment

Dispatchable capacity & energy source

- Ramp 20% to 110%
- Multi-shaft dispatch and flexibility

Reliable

- 95% capacity factor
- Stable fuel supply

Replaces retiring baseload resources

Long term stability

- Cost Competitive
- Up to 60 years per NuScale Power Module
- Over 100 years balance of plant

Walkaway safe

- No AC or DC power, human input, or additional water

Meets President Biden’s Clean  
Electricity Standard

- Zero carbon emitting

## ADVANCED SMR R&D APPROPRIATIONS AWARD HISTORY



## CFPP LOBBYING COALITION

To meet the energy demands of our member communities from across the country, we are interested in the UAMPS/NuScale small modular reactor Carbon Free Power Project. We recognize that the successful deployment of this project will provide the United States and our members with a SMR project and provide us with a way to realistically satisfy our nation's energy needs in a carbon constrained world. We share Congress' goal of realizing this project, and for that reason ask that the congressional appropriations for this project continue.

There is strong bipartisan and bicameral support for continued investment in the CFPP. The amounts that Congress has appropriated to the CFPP have increased over time (see Advanced SMR R&D Appropriations Award History). With President Biden and Congress supportive of technology employed by projects such as the CFPP, we anticipate that Congress will continue its commitment to supporting CFPP in the FY 2022 appropriations process.



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