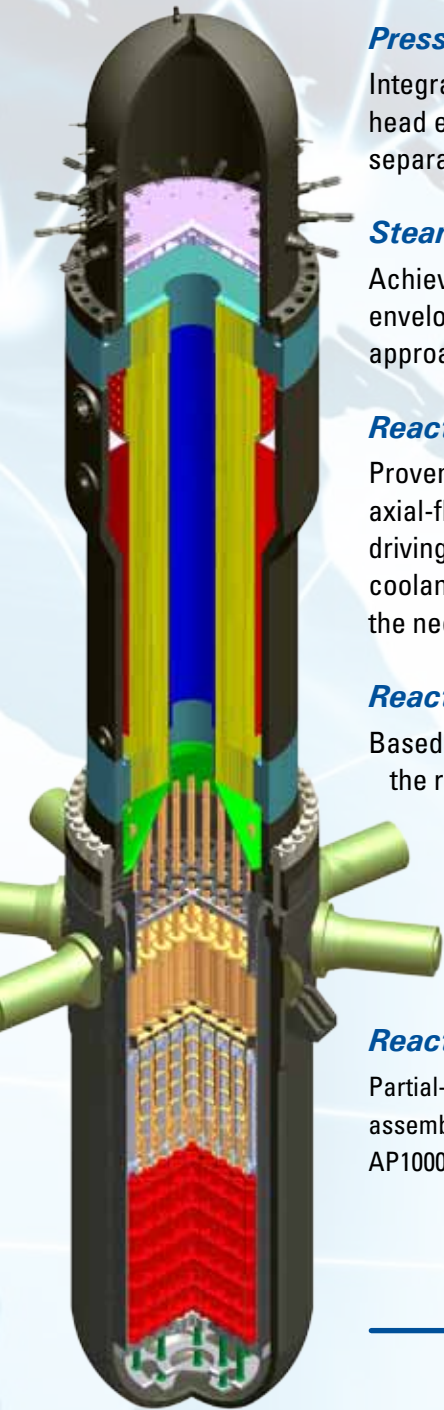


Westinghouse SMR



Pressurizer

Integration into reactor vessel head eliminates the need for a separate component

Steam Generator

Achieves a compact physical envelope with an innovative approach to steam separation

Reactor Coolant Pumps

Proven, horizontally-mounted axial-flow pumps provide the driving head for the reactor coolant system while eliminating the need for pump seal injection

Reactor Vessel Internals

Based on the AP1000® design, the reactor vessel internals are modified for the smaller core and to provide support for the internal control drive rod mechanisms

Reactor Core

Partial-height of the 17x17 fuel assembly design used in the AP1000® reactor



Specifications

Thermal Output	800 MWt
Electrical Output	> 225 MWe
Passive Safety Systems	No operator intervention required for 7 days
Core Design	17x17 Robust Fuel Assembly 8.0 ft / 2.4 m Active Length < 5% Enriched U235 89 Assemblies Soluble Boron and 37 Internal CRDMs 24 Month Refueling Interval
Reactor Vessel Size	Outer Diameter: 11.5 ft / 3.5 m Height: 81.0 ft / 24.7 m
Upper Vessel Package	280 Tons / 254000 kg
Containment Vessel Size	Outer Diameter: 32.0 ft / 9.8 m Height: 89.0 ft / 27.1 m Fully Modular Construction
Reactor Coolant Pumps	8 External, Horizontally-Mounted Pumps Sealless Configuration
Steam Generator	Recirculating, Once-Through, Straight-Tube
Pressurizer	Integral to Vessel
Instrumentation and Control	OVATION®-based Digital Control System



The Westinghouse Small Modular Reactor

Building on 125 Years of Innovation

www.westinghousenuclear.com/smr

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The Westinghouse Small Modular Reactor

Westinghouse, the pioneer and world leader in nuclear technology, is meeting the increasing challenges faced by today's global power industry with the introduction of its small modular reactor (SMR) design.

The Westinghouse SMR is a >225 MWe integral pressurized water reactor with all primary components located inside the reactor vessel.

Passive safety systems and proven components – realized in the industry-leading AP1000® plant design – are incorporated throughout to achieve the highest levels of safety and to reduce the number of components required. The Westinghouse SMR is fueled by an adaptation of our Westinghouse fuel design, the industry's most proven and widely-used fuel design. It also leverages the latest U.S. NRC-licensed safety and security features.

*Energizing Communities...
with Safe, Clean Innovation*

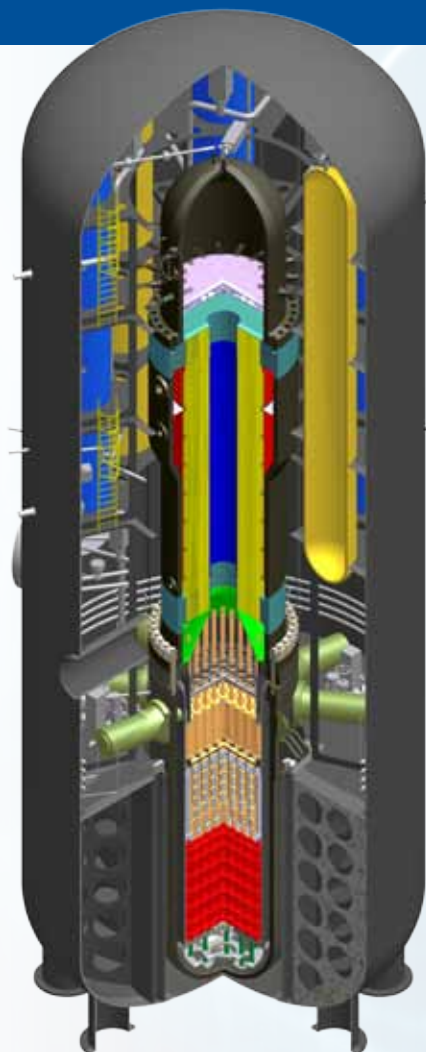
Technical Leadership and Certainty

- Nuclear is our only business...it's our **core** competency
- 15,000 dedicated nuclear personnel strong
- More than 6,000 reactor years of safe, commercial operations experience

Energizing Communities

- SMR development contributes to local, regional, and national technology development
- Accelerates economic development
- Stimulates job growth
- Supports workforce development
- Improves standards of living for current and future generations

Small-scale nuclear reactors offer alternatives for providing affordable, secure sources of emissions-free generation to the world's rapidly changing and diverse markets.



SAFE.

The most safety...

The NRC-licensed safety design featured in the industry-leading Westinghouse AP1000® plant extended to a 200 MWe class reactor

The most robust...

Westinghouse's passive safety systems already provide enhanced safety margins and resilience to extreme events

RELIABLE.

The most efficiency...

The Westinghouse SMR optimizes the intersection of equipment costs with the greatest energy output

CLEAN.

The most options...

In addition to the generation of electricity for grid transmission, the Westinghouse SMR offers other carbon-free energy options

- The heat produced from an SMR unit can be valuable in **district heating** applications
- The unit is well-sized for applications requiring large quantities of reliable power, such as **desalination** or energy-intensive applications like manufacturing and chemical plant operations
- The Westinghouse SMR offers **carbon-free flexibility** to meet the energy needs of tomorrow's world, today

INNOVATION.

The most certainty...

The rail-shippable scale allows for efficient factory fabrication and delivery that guarantees quality control levels unattainable with on-site construction

The most simplicity...

Simple, compact design gives operators the most function with innovative packaging of proven components

The most economical...

Simple, compact system configuration reduces operations and maintenance requirements and costs

The most rapid project deployment...

Standardized, modular approach provides for rapid project development and installation

Westinghouse...

the World's Pioneering Nuclear Energy Company