

About: Westinghouse AP1000® Reactor

The AP1000 reactor is the most advanced nuclear power plant design in the global market. It is a next-generation Pressurised Water Reactor (PWR) that builds on the proven success of the standard Westinghouse PWR design.

The plant features innovative passive safety systems that use natural forces – such as gravity, convection and natural circulation – to automatically shut down the reactor and maintain a safe condition in the highly unlikely event of an accident.

It is built using modular construction techniques, allowing tasks that were traditionally performed in sequence to be completed in parallel – an approach that is designed to save time and money while enhancing quality.

The AP1000 plant also is economical in its operation – with less concrete and steel and fewer components and systems, there is less to install, inspect and maintain. In addition, it promotes ease of operation with the most advanced instrumentation and control (I&C) systems in the industry.

The plant has attained an unsurpassed safety pedigree as a result of reviews by safety regulators in Europe, Asia and the Americas.

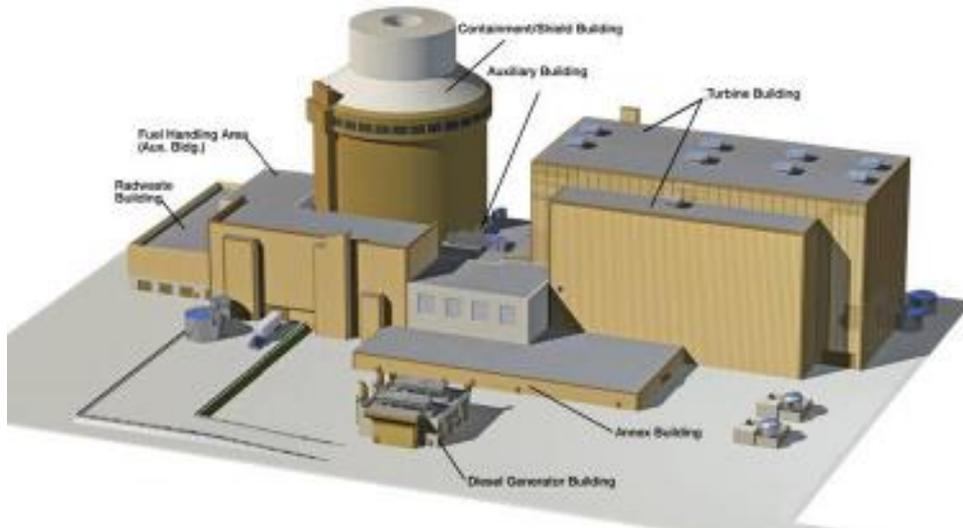
Each AP1000 reactor has an output of around 1150MW. When fully operational, the three AP1000 units at Moorside will have a gross capacity of up to 3.8GW, providing around seven percent of the UK's projected electricity requirements – enough electricity to power approximately 6 million homes.

AP1000 plant key features

- The safest, most advanced nuclear power plant available in the worldwide marketplace
- Based on standard Westinghouse PWR technology that has achieved more than 3,000 reactor years of highly successful operation
- An 1150 MW design that is ideal for providing baseload generating capacity
- Modular in design, promoting ready standardisation and high construction quality
- Economical to operate - less concrete and steel, and fewer components and systems, mean that there is less to install, inspect and maintain

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- Simplified to promote ease of operation - features the most advanced instrumentation and control (I&C) systems in the industry



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For more information visit <http://westinghousenuclear.com/New-Plants/AP1000-PWR>