

Pleasants Power Station

FirstEnergy
Generation



Pleasants Power Station is located in Willow Island, West Virginia, along the Ohio River.

Facts At A Glance

- Two 650 megawatt (MW) coal-fired units produce 1,300 MW of electricity.
- Unit 1 went online in 1979. Unit 2 went online in 1980.
- At full capacity, the plant's generating units can produce more than 31 million kilowatt-hours of electricity daily.
- The plant uses more than 3.4 million tons of coal annually.
- Pleasants Power Station employs approximately 190 people.
- The plant pays approximately \$5 million annually in property taxes.

Environmental Measures

The plant has invested nearly \$650 million on its environmental-control systems.

The station is equipped with massive scrubber modules located between the boilers and the 640-foot chimney. This system removes 98 percent of the sulfur-dioxide emissions. The scrubbers were installed when the plant was built, but were upgraded in 2007.

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Environmental Measures *(continued)*

The station is also equipped with Selective Catalytic Reduction (SCR) systems for removal of nitrogen oxides from the flue gases. The SCR transforms nitrogen oxides into nitrogen, which becomes part of the ambient air and water. These systems remove at least 90 percent of nitrogen oxide in the coal burned.

Two hyperbolic cooling towers reduce the temperature of approximately 277,000 gallons of water per minute. A plume of water vapor leaves the top of the tower while cooled water collects at the base where it is mixed with water pumped from the Ohio River to make up for evaporation.