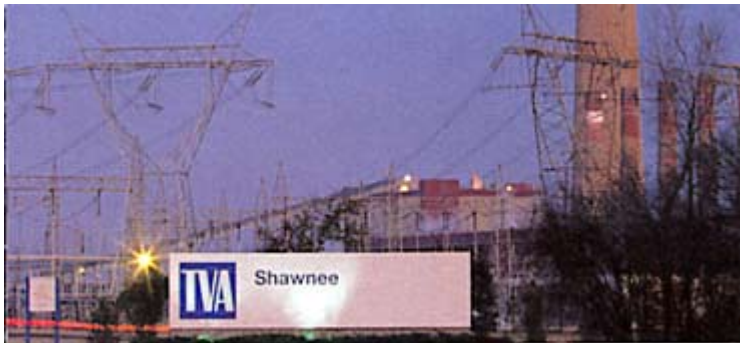




## Shawnee Fossil Plant



Shawnee Fossil Plant is located about 10 miles northwest of Paducah, Ky., on the Ohio River. On Nov. 30, 2006, Shawnee Unit 6 set a national record when it surpassed 1,017 days and three hours of operation. Unit 6 extended its national record to 1,093 days, 11 hours and 24 minutes when it went off line in February 2007.

### Balancing efficient power production with environmental protection

Electricity is produced at Shawnee's nine active coal-fired units by heating water in a boiler to produce steam.



[Click for enlarged view](#)

Under extremely high pressure, the steam flows into a turbine that spins a generator to make electricity. Shawnee generates about 8 billion kilowatt-hours of electricity a year, enough to supply 540,000 homes.

Shawnee Unit 10, which was converted to an atmospheric fluidized-bed boiler in the early 1980s, was idled by TVA in October 2010. TVA is evaluating the possible

### Toxics Release Inventory

TVA is required to report annually to the Environmental Protection Agency on the amounts of chemicals released by its fossil-fuel plants. [Check here for the latest data on Shawnee.](#)

### Emissions Data

TVA monitors other emissions at its fossil plants, including sulfur dioxide, nitrogen oxide, carbon dioxide, and mercury. [Check here for the latest data on Shawnee.](#)

### Shawnee: Facts & Figures

Shawnee has nine active coal-fired generating units with a summer net capability of 1,200 megawatts. One unit at Shawnee is idle. Net capability is a measure of how much power a plant can generate for a specified time period, minus the power used by the plant itself.

Construction at Shawnee began in 1951 and was completed in 1957.

The plant consumes some 10,000 tons of coal a day.

conversion of this unit to generating power from biomass, such as wood waste.

**Low-cost and cleaner energy**

Through 2011, TVA has spent about \$5.4 billion on emissions controls at its coal plants to help TVA generate power as cleanly as possible.

[View more information about emissions at Shawnee and the steps TVA is taking to control them.](#)

In support of [recent environmental agreements](#), Shawnee units 1 and four will be converted to renewable biomass, controlled by adding scrubbers and selective catalytic reduction systems, or retired by Dec. 31, 2017.