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Kingston Fossil Plant

TVA Region Map



Kingston Fossil Plant is located on Watts Bar Reservoir on the Tennessee River near Kingston, Tennessee. At the time it was finished in 1955, Kingston was the largest coal-burning power plant in the world, a distinction it held for more than a decade.

Balancing efficient power production with environmental protection

Electricity is produced at each of Kingston's nine coal-fired units by the process of heating water in a boiler to produce steam. Under extremely high pressure, the steam flows into a turbine that spins a generator to make electricity.



[Click for enlarged view](#)

Kingston generates about 10 billion kilowatt-hours of electricity a year, enough to power about 670,000 homes.

Through 2011, TVA has spent about \$5.4 billion on emissions controls at its fossil-fuel plants to help TVA produce power as cleanly as possible, consistent with efficiency. [View more information about emissions at Kingston and the steps TVA is taking to control them.](#)

Kingston Recovery

TVA is working diligently to clean up the land and water in the area affected by an ash spill at Kingston in December 2008. TVA is working closely with leaders and residents of Roane County to regain public trust, promote economic development, and make the area better than it was before the spill.

The first phase of recovery work has essentially been completed. The Emory River was reopened May 29, 2010, after TVA removed more than 3.5 million cubic yards of ash and sediment from the river and adjoining areas.

TVA is now consolidating spilled ash that did not enter the river and preparing to store it onsite in a dredge cell that is being rebuilt and reinforced to resist earthquakes. [Read more about the recovery effort here.](#)

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 Kingston.](#)

Emissions Data

TVA monitors other emissions at its fossil plants, including SO₂, NO_x, CO₂, and mercury. [Check here for the latest data on Kingston.](#)

Kingston: Facts & Figures

Kingston Fossil Plant has nine generating units with a summer net capability of 1,398 megawatts. 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 began in 1951 and was completed in 1955.

The plant consumes some 14,000 tons of coal a day when operating at full power.

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