

December 2009

# Kingston Fossil Plant Fact Sheet



- TVA's Kingston Fossil Plant is located on Watts Bar Reservoir on the Tennessee River near Kingston, Tennessee. Construction of the plant began in 1951 and completed in 1955 at a cost of \$200 million.
- Kingston was the largest coal-burning plant in the world at the time it was built, a distinction it held for more than a decade. The two tall stacks, built in the 1970s to help control emissions, are over 1,000 feet high.
- With its nine units, Kingston is one of the larger TVA fossil plants. It can generate 10 billion kilowatt-hours of electricity a year, enough to supply the needs of about 670,000 homes in the Tennessee Valley.
- The plant consumes approximately 14,000 tons of coal every day when operating at full power.
- When current emission control projects at Kingston are completed in 2010, TVA will have spent about three-quarters of a billion dollars on air quality modifications at the plant.
- To control nitrogen-oxide emissions that contribute to summertime ozone formation, TVA has installed selective catalytic reduction systems on all nine units at Kingston. These SCRs reduce ozone-season nitrogen-oxide emissions by 90 percent.
- Kingston is installing flue gas desulfurization systems, or scrubbers, to reduce sulfur-dioxide emissions. Four of the units now have scrubbers, and all nine units will have them by 2010, at a total cost of about \$600 million. Gypsum, the by-product from the scrubbers' operation, will be marketed for use by manufacturers of wallboard and other products.
- In December 2008, a dike failed at Kingston, releasing about 5.4 million cubic yards of coal ash onto nearby land and into the Emory River. TVA has removed more than two million cubic yards of the ash from the river to date, and the recovery work continues.
- Prompted by the ash spill, TVA is converting all ash and gypsum storage facilities at Kingston from a wet to a dry storage system. The dry ash system is expected to be operational by 2011.
- With more than 300 permanent employees, Kingston Fossil Plant is one of the largest employers in Roane County. The plant's annual payroll, including that of temporary workers, totals about \$33 million, an amount that makes a significant contribution to the local economy.
- Kingston employees are generous supporters of local organizations and causes. Through the Partners in Education program, they carry out many activities with Midway Elementary and Dyllis Elementary schools. Plant tours, a Lunch Buddy Program, food baskets during school breaks, Christmas gifts for needy children, career day and playground workdays are all part of the support provided to these schools.
- Kingston employees also make a contribution to other community efforts. In 2008 they donated more than \$26,000 to the Combined Federal Campaign, the federal government's version of United Way. They also participated in Days of Caring by donating their efforts to projects at local nonprofit agencies.