

# TVA in Alabama

## Energy Sales

- In fiscal year 2007, TVA sold a total of 18.5 billion kilowatt-hours of electricity to 17 municipal and eight cooperatively owned Alabama power companies.
- Some 461,000 households located in 16 north Alabama counties bought more than 7.7 billion kilowatt-hours of electricity from distributors of TVA power in fiscal year 2007.
- Over 90,000 commercial and industrial customers in Alabama purchased nearly 9.5 billion kilowatt-hours from distributors of TVA power. In addition, distributors in Alabama sold more than 194 million kilowatt-hours to outdoor-lighting customers.
- TVA provided 6.2 billion kilowatt-hours of electricity directly to 13 large industries and federally owned installations in Alabama.
- TVA's power revenues in Alabama were slightly more than \$1 billion in 2007 or about 13 percent of all TVA operating revenues.

## Service Area

- Distributors of TVA power serve the following counties in Alabama: Calhoun, Cherokee, Colbert, Cullman, DeKalb, Etowah, Franklin, Jackson, Jefferson, Lauderdale, Lawrence, Limestone, Madison, Marshall, Morgan, and Winston.
- The TVA service area in Alabama covers about 8,380 square miles.

## Power Generation and Transmission

- In Alabama, TVA operates three hydroelectric dams, two coal-fired generating plants, one nuclear-power plant, and one combustion-turbine site. The combined generation capacity is more than 6,700 megawatts. The hydroelectric dams are Guntersville, Wheeler, and Wilson. The coal-fired plants are Widows Creek and Colbert, and the combustion-turbine site also is at Colbert. The nuclear plant is Browns Ferry.
- In 2007, TVA began operation of its third unit at the Browns Ferry nuclear facility. The re-start of Unit 1 increases the facility's generating potential by 1,155 megawatts.
- TVA operates two solar facilities in Alabama, a 30-kilowatt site at the water-treatment facility in Florence and a 27-kilowatt facility at the Sci-Quest science museum in Huntsville.
- TVA owns and/or maintains 77 substations and switchyards and 2,364 circuit miles of transmission line in Alabama.

## **Land and Water Stewardship**

- Guntersville, Wheeler, Wilson, and Pickwick reservoirs, located in northern Alabama, have a combined surface area of about 200,000 acres and about 2,700 miles of shoreline.
- Bear Creek, Upper Bear Creek, Little Bear Creek, and Cedar Creek reservoirs in northwest Alabama have a combined surface area of 8,000 acres and about 250 miles of shoreline.
- TVA manages recreation, natural, and cultural resources on more than 90,000 acres of public land around these reservoirs and partners with local and regional stakeholders to improve water quality, shoreline conditions, and biodiversity.
- Alabama residents enjoy camping, fishing, boating, swimming, and other recreational opportunities provided by these reservoirs, as well as economic benefits resulting from reservoir-based tourism.

## **River Management**

- TVA maintains the structural, seismic, and hydrologic integrity of seven dams in Alabama, including three hydroelectric dams on the main channel of the Tennessee River and four non-power dams in the Bear Creek watershed.
- TVA manages six locks in Alabama (three main locks and three auxiliary locks), serving 60 Alabama ports and terminals. About 15 million tons of cargo move through these facilities annually.
- TVA dams and reservoirs in Alabama are operated in conjunction with others in the TVA system to store flood waters for controlled release. Operation of this system helps avert an average of \$230 million in flood damage per year.
- Thirty-six municipalities and 19 industries in Alabama withdraw water from the Tennessee River system. Water also is withdrawn for power-plant cooling and for irrigation.
- TVA schedules releases from Upper Bear Creek Dam in northwest Alabama to support whitewater sports on the Bear Creek Floatway.
- TVA began remediation on Bear Creek Dam in the summer of 2007. The project will eliminate seepage under the dam. The project will be completed in the summer of 2009.
- Fiscal year 2007 was the driest period in 118 years in the Valley. In fact, yearly rainfall amounts in the Valley have been below normal for the past four fiscal years, with the 2007 rainfall at 33 percent below normal. As a result, TVA's hydroelectric power generation has been significantly impacted. For fiscal year 2007, hydro generation was 31 percent below normal.

### **Other TVA Operations**

- TVA's Research & Technology Applications organization, headquartered in Muscle Shoals, provides science and technology to improve power-system performance and reduce the impact of TVA's operations on the environment.

### **Personnel**

- There are nearly 2,800 TVA employees based in Alabama.
- Alabama is home to more than 4,400 TVA retirees and their families.

### **Tax-Equivalent Payments**

- TVA paid \$112,110,711 in lieu of taxes to the state of Alabama in 2007 based on power sales and power-property values in the state.

### **Economic Development**

- Since 1995, TVA has invested nearly \$32.2 million in economic-development loans for new and expanding industries in Alabama. These loans have helped create some 10,440 new jobs and leveraged an additional investment of approximately \$1.9 billion from public and private sources.

### **TVA Suppliers**

- TVA purchased \$304.4 million worth of fuel, materials, and services from Alabama vendors in fiscal year 2007 — \$296.1 million in materials and services, and \$8.3 million in fossil fuel.