

## PowerSouth Energy Cooperative

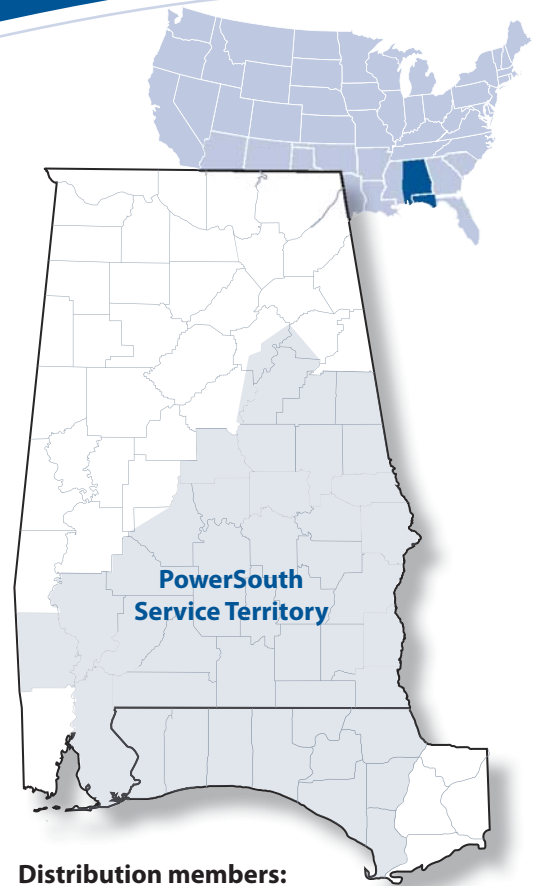
serves the wholesale energy needs of 16 electric cooperatives and 4 municipal electric systems in Alabama and northwest Florida. PowerSouth's service territory spans 39 Alabama and 10 Florida counties.

Owned and governed by those it serves, PowerSouth is dedicated to providing reliable and economical energy to meet the needs of nearly a million consumers.

Since 1941, PowerSouth has continued a tradition of reliability and service to its members, remaining a trusted energy partner for those it serves.

### Quick facts:

- PowerSouth is the 7th largest privately owned business in Alabama.
- PowerSouth employs more than 580 at nine sites in Alabama and Florida.
- PowerSouth has assets in excess of \$1.7 billion.
- With a combined generating capacity of more than 2,000 megawatts, PowerSouth utilizes a diverse generating mix of natural gas, coal and hydroelectricity.
- PowerSouth's expansive network of transmission assets includes more than 2,200 miles of line and nearly 300 substations.



### Distribution members:

Baldwin EMC, Summerdale, AL  
Central Alabama EC, Prattville, AL  
CHELCO, DeFuniak Springs, FL  
Clarke-Washington EMC, Jackson, AL  
Coosa Valley EC, Talladega, AL  
Covington EC, Andalusia, AL  
Dixie EC, Union Springs, AL  
Escambia River EC, Jay, FL  
Gulf Coast EC, Wewahitchka, FL  
Pea River EC, Ozark, AL  
Pioneer EC, Greenville, AL  
South Alabama EC, Troy, AL  
Southern Pine EC, Brewton, AL  
Tallapoosa River EC, LaFayette, AL  
West Florida EC, Graceville, FL  
Wiregrass EC, Hartford, AL  
The Utilities Board of the City of Andalusia, AL  
The City of Brundidge, AL  
Water Works & Electric Board of the City of Elba, AL  
Utilities Board of the City of Opp, AL

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## PowerSouth Board of Trustees

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PowerSouth is owned by its 20 distribution members, who govern and set policy through a 40-member board of trustees composed of two voting delegates from each distribution member.

Members of the board of trustees serve on seven standing committees.

- Executive
- Nominating
- Corporate Planning and Power Supply
- Marketing and Industrial Development
- Engineering and Operations
- Finance and Audit
- Member Relations and External Affairs

## PowerSouth Management Staff

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The president and chief executive officer and his staff carry out PowerSouth's day-to-day management. PowerSouth has six operating divisions: Power Delivery; Power Supply; Financial Services; Legal & Corporate Affairs; and External Affairs.

- Gary L. Smith**, President and Chief Executive Officer
- Larry Avery**, Vice President, Power Delivery
- Seth Hammett**, Vice President, Business Development
- Horace Horn**, Vice President, External Affairs
- Rick Kyle**, Director, Financial Operations
- Damon Morgan**, Vice President, Power Supply
- Ferrell Walton**, Vice President and Chief Financial Officer
- Beth Woodard**, Vice President, Legal & Corporate Affairs

## **CHARLES R. LOWMAN POWER PLANT**

Located on the Tombigbee River near Leroy, Ala., the Charles R. Lowman Power Plant's generating capacity equals 547 megawatts in the summer and 555 megawatts in the winter. Plant Lowman's unit 1 was built between 1965 and 1969, and commercial operation started in 1969. Construction on units 2 and 3 commenced in 1976, with commercial operation beginning in 1979 for unit 2 and in 1980 for unit 3.

Coal is the primary source of fuel used at Plant Lowman, with number 2 fuel oil used for start-up and flame stabilization. Coal is transported to the plant by rail and barge on the Tombigbee River.

The plant's three operating units are equipped with electrostatic precipitators, which preserve air quality by preventing particulate matter from entering the atmosphere. Units 2 and 3 are equipped with scrubbers, a high-technology system designed to remove sulfur dioxide from emissions. A \$300 million Air Quality Control (AQC) project completed in 2009 further reduced sulfur dioxide, nitrogen oxides and mercury, as required under the Environmental Protection Agency's Clean Air Interstate Rule and Clean Air Mercury Rule of 2005.

## **JAMES A. VANN JR. POWER PLANT**

The James A. Vann Jr. Power Plant is adjacent to PowerSouth's McWilliams Power Plant in Gantt, Ala. Construction on the plant, which serves as base load generation for PowerSouth and its distribution members, was completed in December 2001. It boasts a winter capacity of 578 megawatts and a summer capacity of 520 megawatts. Natural gas to fuel the plant is provided through a 61-mile, 20-inch pipeline from Flomaton, Ala., to the plant site.

The Vann Power Plant was designed to incorporate the most environmentally friendly equipment available to generate affordable electricity, and it is PowerSouth's cleanest and most efficient fossil-fired generating facility. The plant operates using a combined-cycle process of natural gas and steam generation.

## **MAURY A. MCWILLIAMS STEAM POWER PLANT**

The McWilliams Power Plant was the first generating plant built by PowerSouth and is a familiar landmark to travelers crossing the Conecuh River at Gantt on Highway 29, north of Andalusia, Ala.

Since the plant's first two units became operational in the mid-1950s and the third unit in 1959, the plant has proved to be a reliable source of power to PowerSouth's distribution members. The plant's original 43 megawatts of peaking capacity, combined with its reliability to generate energy during peak loads, has proven to be vital during weather extremes.

Having used the plant to its full life expectancy, PowerSouth repowered the plant during 1995 and 1996 to help meet future generation needs. Repowering included the installation of a natural gas-fired 107-megawatt combustion turbine-generator and a heat recovery system that recycles exhaust heat to create steam, which is used by the plant's three original generators to produce additional electricity. The repowered plant provides a 160-megawatt winter capacity and a 145-megawatt summer capacity.

## **MCINTOSH POWER PLANT**

PowerSouth's generating units at McIntosh, Ala., include the compressed air energy storage (CAES) unit and four natural gas-fired combustion turbines, for a combined capacity of 710. The McIntosh Power Plant is PowerSouth's highest-capacity generating station.

Designated McIntosh unit 1, the CAES unit was declared commercial May 31, 1991, and officially dedicated Sept. 27, 1991. It is the only plant of its kind in the United States, with the only other CAES plant in the world in Germany.

The CAES unit uses air, compressed and stored in a 19-million-cubic-foot underground cavern, in the generation process. During peak load periods, the stored air is released and mixed with natural gas in a combustion process to generate electricity. The plant uses off-peak electricity to pump air into the cavern and then uses the air in the generation process during peak periods.

The Units 2 and 3 were declared commercial in 1998, with a capacity of 240 megawatts. The Units 4 and 5 were declared commercial in 2010, with a capacity of 360 megawatts.

The natural-gas fired, simple-cycle units are classified as peaking units. The McIntosh Plant's turbines and generators offer simple-cycle technology with short start-up time, making them suitable for continuous, peaking and emergency operation.

## **POINT A AND GANTT HYDROELECTRIC POWER PLANTS**

The Point A and Gantt hydroelectric power plants, PowerSouth's first generating resources, combine for a generating capacity of 8 megawatts and demonstrate an ability to provide a reliable source of capacity. Today, the plants are operated and monitored using modern technology and can be operated from on-site control rooms or a centralized control room at nearby McWilliams Power Plant.

The Gantt Hydroelectric Plant is in the town of Gantt, Ala., at the site of a former grist mill on the Conecuh River, and the Point A Hydroelectric Plant is about five miles downstream near the town of River Falls, Ala. The plants operate only when river levels allow an adequate supply of water to turn turbines.

## **JAMES H. MILLER JR. ELECTRIC GENERATING PLANT**

In June 1992, PowerSouth purchased an 8.16-percent ownership interest in units 1 and 2 of Alabama Power Company's James H. Miller Jr. Electric Generating Plant near Birmingham, Ala. PowerSouth receives 114 megawatts of coal-fired generation from the plant.

At full capacity, the plant can generate about 2.69 billion watts of electricity — enough to serve the needs of about 885,000 homes. Unit 1 became operational in 1978, unit 2 in 1985, unit 3 in 1989 and unit 4 in 1991. Total generating capacity for the plant's four units is 2,664 megawatts.