



Plant Dahlberg

Combustion Turbine Plant



Plant Dahlberg is a natural gas-fueled, simple-cycle combustion turbine electric-generating plant located near Commerce, GA, in Jackson County. The plant is used to generate electricity for South – the fastest growing region in the country. Eight of the ten units went online in 2000, while the other two went online in 2001.

Location

Jackson County, GA

Current Capacity

810 megawatts

Ownership

Southern Power

Primary Fuel

Natural Gas

Plant Dahlberg is owned and operated by Southern Power, Southern Company's fast-growing competitive generation company. Southern Power — a subsidiary of Southern Company — acquires, builds, manages and owns generation assets that have been constructed for the wholesale market. Southern Power is the largest wholesale energy provider in the Southeast, meeting the electricity needs of municipalities, electric cooperatives and investor-owned utilities in one of the fastest growing regions of the country. Southern Power currently owns and operates more than 6,700 megawatts of generation assets in Alabama, Georgia, Florida, and North Carolina.

Atlanta-based Southern Company is the premier energy company serving the Southeast and a leading U.S. producer of electricity. With 4.3 million customers and more than 42,000 megawatts of generating capacity, Southern Company owns electric utilities in four states and a growing competitive generation company, as well as fiber optics and wireless communications.

Size

The plant consists of 10 combustion turbine units, with a combined capacity of 810 megawatts. The plant site has the potential to accommodate 16 units, with a total generating capacity of over 1,200 megawatts.

Technology

Simple-cycle technology is an efficient and environmentally-sensitive method of generating electricity. In a simple-cycle combustion turbine, an electric motor turns a turbine shaft causing air to flow through the inlet air filter. After the air is compressed, it is mixed with fuel in combustion chambers and is burned. The expanding burned fuel is directed through turbine blades, forcing them to turn. The turbine is directly coupled to the generator and jointly turns at 3,600 RPM. The combustion turbine produces electricity at 13,800 volts before being "stepped up" in a transformer to 230,000 volts for transmission.

Economic Impact

Plant Dahlberg produces millions of dollars in economic benefits for Jackson County. Nearby counties and the entire state also benefit by job availability and the economic development boost created by having immediate access to a reliable source of electric power.

Southern Power

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