

Plant Dahlberg

Location

Jackson County,
Georgia

Capacity

756 MW

Fuel Resource

Natural Gas

Ownership

Southern Power



Plant Dahlberg is a natural gas-fueled, simple-cycle combustion turbine electric-generating plant located near Commerce, Georgia, in Jackson County. The plant is used to generate electricity for South – the fastest growing region in the country. Eight of the 10 units went online in 2000, while the other two went online in 2001.

Size

The plant consists of 10 combustion turbine units, with a combined nameplate capacity of 756 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.

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