



Plant Harris

Combined-Cycle Plant

Plant Harris is a natural gas-fueled, combined-cycle electric-generating plant located in Autaugaville, AL. The plant is used to generate electricity for the South – the fastest growing region in the country. Two units went online in mid-2003.



Location

Autaugaville, AL

Current Capacity

1,254 megawatts

Ownership

Southern Power

Primary Fuel

Natural Gas

Plant Harris 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 two combined-cycle units at 627 megawatts each with a combined capacity of 1,254 megawatts. The plant site has the potential to accommodate up to four units.

Technology

Combined-cycle technology is one of the cleanest and most efficient methods of producing electricity. With this technology, the power plant's combustion turbines make electricity by burning natural gas. Waste heat from the turbines is captured and reused to drive a separate steam turbine that produces additional electricity. Combined-cycle power plants produce high power outputs at high efficiencies and with low emissions. For Harris 1, the combustion turbine produces electricity at 18,000 volts and the steam turbine produces electricity at 21,000 volts before being "stepped up" in a transformer to 230,000 volts for transmission. For Harris 2, the combustion turbine produces electricity at 18,000 volts and the steam turbine produces electricity at 21,000 volts before being "stepped up" in a transformer to 500,000 volts for transmission.

Economic Impact

Plant Harris provides millions of dollars in economic benefits to the city of Autaugaville, Autauga County and the state of Alabama. 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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