

Plant Addison

Location

Thomaston, Georgia

Capacity

668 MW

Fuel Resource

Natural Gas

Ownership

Southern Power



Plant Addison is a natural gas-fueled, simple-cycle combustion turbine electric-generating plant located near Thomaston, Georgia in Upson County. The plant is used to generate electricity for the South – the fastest growing region in the country. The four units went online in June 2000.

Size

The plant consists of four combustion turbine units at 167 megawatts each, with a combined nameplate capacity of 668 megawatts.

Technology

Simple-cycle technology is an efficient and environmentally-sensitive method of generating electricity. In a simple-cycle combustion turbine, air is drawn through the inlet filters and into the compressor. 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 Addison provides millions of dollars in economic benefits to the city of Thomaston, Upson County and the state of Georgia.

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