

# Plant Rowan

**Location**

Salisbury, North Carolina

**Capacity**

985 MW

**Fuel Resource**

Natural Gas

**Ownership**

Southern Power



Plant Rowan is a natural gas-fueled, simple-cycle combustion turbine electric generating and combined-cycle plant located in Salisbury, North Carolina. It is also capable of burning fuel oil as a backup. The plant is used to generate electricity for the South – the fastest growing region in the country. The plant was purchased by Southern Company from Progress Ventures in the summer of 2006. The combustion turbines went online in 2001, and the combined cycle in 2003.

**Size**

The plant consists of three combustion turbine units and a combined-cycle unit with a combined capacity of 985 megawatts. The plant site has expansion possibilities.

**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 18,000 volts before being “stepped up” in a transformer to 230,000 volts for transmission.

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. 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.

**Economic Impact**

Plant Rowan provides million of dollars of positive economic impact to the city of Salisbury, Rowan County and the surrounding, growing North Carolina market.

Southern Power, a subsidiary of Southern Company, is a leading U.S. wholesale energy provider meeting the electricity needs of municipalities, electric cooperatives, investor-owned utilities, and commercial and industrial customers. Southern Power and its subsidiaries, some of which are owned in part with various partners, own or operate 49 facilities operating or under construction in 12 states with more than 11,864 MW of generating capacity in Alabama, California, Delaware, Georgia, Kansas, Maine, Nevada, New Mexico, North Carolina, Oklahoma, Texas and Washington.

Southern Company (NYSE: SO) is a leading energy company serving 9 million customers through its subsidiaries. The company provides clean, safe, reliable and affordable energy through electric operating companies in three states, natural gas distribution companies in four states, a competitive generation company serving wholesale customers across America, a leading distributed energy infrastructure company, a fiber optics network and telecommunications services. Southern Company brands are known for excellent customer service, high reliability and affordable prices below the national average. For more than a century, we have been building the future of energy and developing the full portfolio of energy resources, including carbon-free nuclear, advanced carbon capture technologies, natural gas, renewables, energy efficiency and storage technology. Through an industry-leading commitment to innovation and a low-carbon future, Southern Company and its subsidiaries develop the customized energy solutions our customers and communities require to drive growth and prosperity. Our uncompromising values ensure we put the needs of those we serve at the center of everything we do and govern our business to the benefit of our world. Our corporate culture and hiring practices have been recognized nationally by the U.S. Department of Defense, G.I. Jobs magazine, DiversityInc, Black Enterprise, Forbes and the Women’s Choice Award. To learn more, visit [www.southerncompany.com](http://www.southerncompany.com).