

# Grant Plains Wind Facility

**Location**

Grant County,  
Oklahoma

**Capacity**

147 MW

**Fuel Resource**

Wind

**Ownership**

Southern Power



Southern Power announced the acquisition of the company's third project in Oklahoma – the approximately 147-megawatt (MW) Grant Plains Wind Farm in Grant County in August 2016.

Apex Clean Energy is managing the construction and will operate and maintain the facility upon completion. IEA Renewable Energy, a wholly owned subsidiary of Infrastructure and Energy Alternatives (IEA), is serving as the engineering, procurement and construction contractor. Construction began in 2016, and the plant achieved commercial operation in December 2016.

The project and associated renewable energy credits (RECs) are covered under separate, long-term contracts.

**Technology**

Grant Plains utilizes 64 wind turbines manufactured by Siemens Energy Inc.

Each turbine is mounted on top of an 80-meter-tall tower and has a 108-meter, three-blade rotor connected to a generator. The AC power from the generator is modulated at 60 hz by a converter. Multiple wind turbines are electrically connected in parallel to the main power transformer where the energy is converted from 34.5kV to 345kV for interconnection.

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 other energy customers. Southern Power and its subsidiaries, some of which are owned in part with various partners, own or operate 50 facilities operating or under development in 13 states with more than 11,920 MW of generating capacity in Alabama, California, Delaware, Georgia, Kansas, Maine, Nevada, New Mexico, North Carolina, Oklahoma, Texas, Washington and West Virginia.

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.

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