

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 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.