

Grant Wind Facility

Location

Grant County,
Oklahoma

Capacity

151 MW

Fuel Resource

Wind

Ownership

Southern Power



Southern Power announced an agreement in September 2015 to acquire the 151-megawatt (MW) Grant Wind Facility, which was completed in March 2016.

Apex Clean Energy is managing the construction of Grant Wind and manages operations and maintenance of the facility. Infrastructure and Energy Alternatives served as the engineering, procurement and construction contractor. Construction began August 2015, and the plant achieved commercial operation in March 2016.

The electricity and associated renewable energy credits (RECs) generated by the facility are sold under 20-year power purchase agreements with Western Farmers Electric Cooperative, East Texas Electric Cooperative and Northeast Texas Electric Cooperative. The companies have each contracted for approximately 50 MW and have the option to either keep or sell the RECs.

Technology

The project utilizes 66 wind turbines manufactured by Siemens Energy Inc. and is capable of generating enough electricity to help meet the energy needs of approximately 50,000 average U.S. homes.

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 to the appropriate interconnection voltage.

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