

Kay Wind Facility

Location

Kay County, Oklahoma

Fuel Resource

Wind

Capacity

299 MW

Ownership

Southern Power



Southern Power announced an agreement to acquire the 299-megawatt (MW) Kay Wind facility in early 2015. The facility entered into service December 2015.

The electricity and associated renewable energy credits (RECs) generated by the facility are being sold under 20-year power purchase agreements with Westar Energy, Inc. in Kansas and Grand River Dam Authority (GRDA) in Oklahoma. Westar Energy, Inc. has contracted for approximately 199 MW and GRDA has contracted for approximately 100 MW. Both companies will have the option to either keep or sell the RECs.

Technology

Located in Kay County, Oklahoma, the project utilizes 130 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 converted to the prescribed interconnection voltage.

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