

# Blackwell Wind Energy Center

Fact Sheet

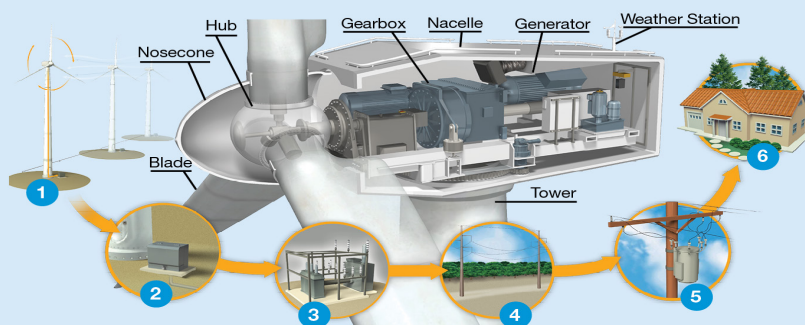


## About NextEra Energy Resources

- » A leading clean energy provider operating wind, natural gas, solar and nuclear power plants
- » A portfolio of power generating facilities across the United States and in Canada
- » The world's largest generator of wind and solar energy
- » A subsidiary of NextEra Energy, Inc., with headquarters in Juno Beach, Florida
- » Nearly all of the electricity we generate comes from clean or renewable sources
- » Visit us at [NextEraEnergyResources.com](http://NextEraEnergyResources.com)

## How a wind turbine works

- 1** A computer turns the nacelle and the rotor (which consists of three blades and a hub) to face into the wind. The turbine blades turn a generator to produce electricity. For safety purposes, the turbine shuts down automatically if the wind speed exceeds 55 miles per hour.
- 2** The electricity travels down the inside of the tower through electrical cables to a transformer at the base of the wind tower.
- 3** From the transformer, the electricity flows through an underground collection cable to an on-site substation.
- 4** From the substation, overhead electrical cables take the electricity to an off-site substation and into high-voltage transmission lines.
- 5** The electricity goes from the high-voltage transmission lines into local distribution lines.
- 6** The electricity is then distributed to homes, schools, businesses and other consumers.



## Overview

- » Generating capacity of 59.8 megawatts of wind energy, consisting of 26 2.3-megawatt Siemens turbines
- » Began commercial operation in 2012
- » Located in Kay County, Oklahoma
- » Built, owned and operated by a subsidiary of NextEra Energy Resources, LLC

## Benefits

- » Provides employment opportunities
- » Adds tax base to the county
- » Delivers payments to landowners
- » Creates no air or water pollution
- » Uses no water in power generation
- » Allows land to remain in agricultural use
- » Supports economy through purchases of regional goods and services