

Wind Power Partners '93 (Calif.)

Overview

- » Located in Riverside County, California
- » Owned and operated by a subsidiary of NextEra Energy Resources
- » 41.4-megawatt wind generation plants
- » 115 Kenetech 56-100 turbines that are capable of generating enough electricity to power more than 10,000 homes
- » Turbine height of 100 feet tall from the ground to the hub in the center of the blades
- » Began commercial operation in 1994. NextEra Energy Resources acquired the project in 2003

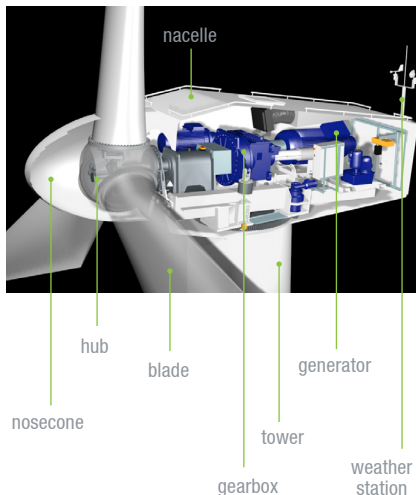


Benefits

- » Employs a staff of 12
- » Adds tax base to Riverside County
- » Provides economic stimulus of landowner lease payments
- » Creates no air or water pollution
- » Uses no water in the generation of electricity
- » Allows land to remain in agricultural use

About NextEra Energy Resources

- » A leading clean energy provider operating wind, natural gas, solar, hydroelectric and nuclear power plants across the nation
- » Approximately 18,000 megawatts of generating capacity in 26 states and Canada
- » The largest wind generator in the country with facilities in 17 states and Canada
- » A subsidiary of NextEra Energy, Inc., with headquarters in Juno Beach, Florida



How It Works

Wind turbines work on the same principle as a child's pinwheel. When you blow on a pinwheel, the blades of the pinwheel spin around—same with a wind turbine.

When the wind blows against the blades of the wind turbine, the blades slowly rotate. The blades are connected to a drive shaft inside the large box (called a nacelle) seen on the top of the tower. The drive shaft turns the generator, which makes the electricity. Each wind turbine operates independently of the others. Each is, essentially, an individual power plant.

The turbine has a weather station on the top that tells it the wind speed and wind direction. That information is sent to the turbine's computer, which moves the top of the turbine (the nacelle and blades) so that the blades are always facing into the wind. The nacelle can turn 360 degrees.

The electricity is carried in cables from the generator down the inside of the tower, then underground to the site's substation. That power then goes into the offsite transmission lines and is used by the local utility to serve its customers in the region.