



FACT SHEET

Sendero Wind Farm – at a glance

Size	78 megawatts (MW)
Location	Jim Hogg and Zapata counties, TX
Site Footprint	Approximately 20,000 acres
Turbine	General Electric 116-meter rotor, 2.0 MW wind turbine
Number of turbines	39
Turbine height	80 meters or 262 feet
Completion date	December 2015
Distance from Brownsville	Approximately 150 miles

Wind Energy Terms

Turbine – converts kinetic energy from the wind into electrical power

Rotor – includes three blades, a hub and a spinner, this device converts wind energy into a rotation.

Blade – these catch the wind and use it to rotate the shaft of a generator

Nacelle – box-like component that houses the generator, gearbox, drive train and brake assembly

Generator – device that uses energy to produce electricity

Gearbox – device that increases rotational speed to the point where electricity is able to be produced

Brake assembly – able to stop a wind turbine from rotating in the event of an emergency or when wind gusts are too strong

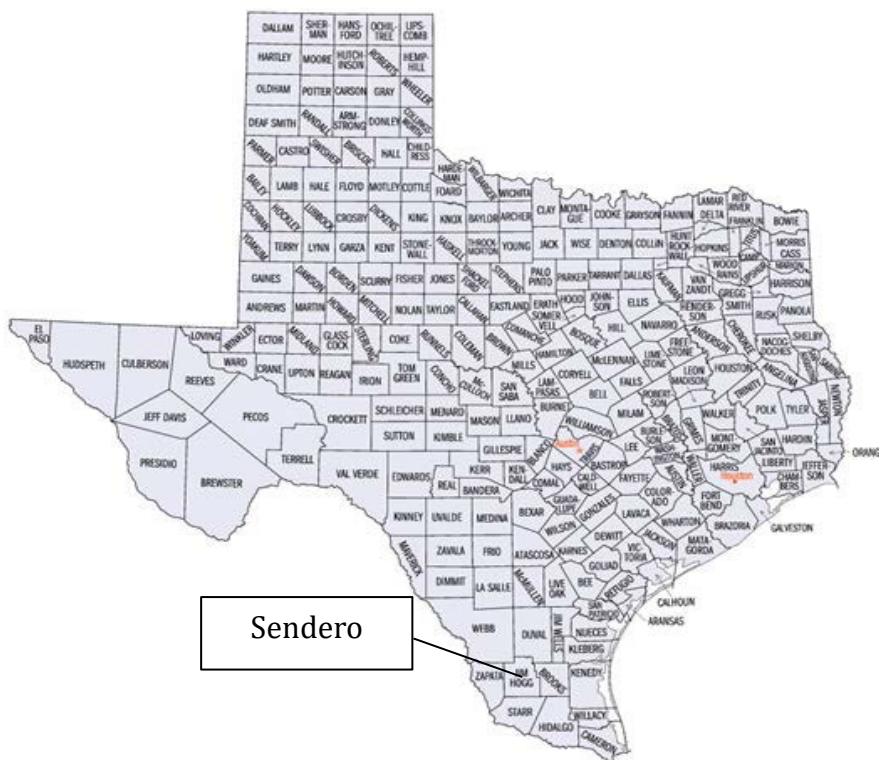
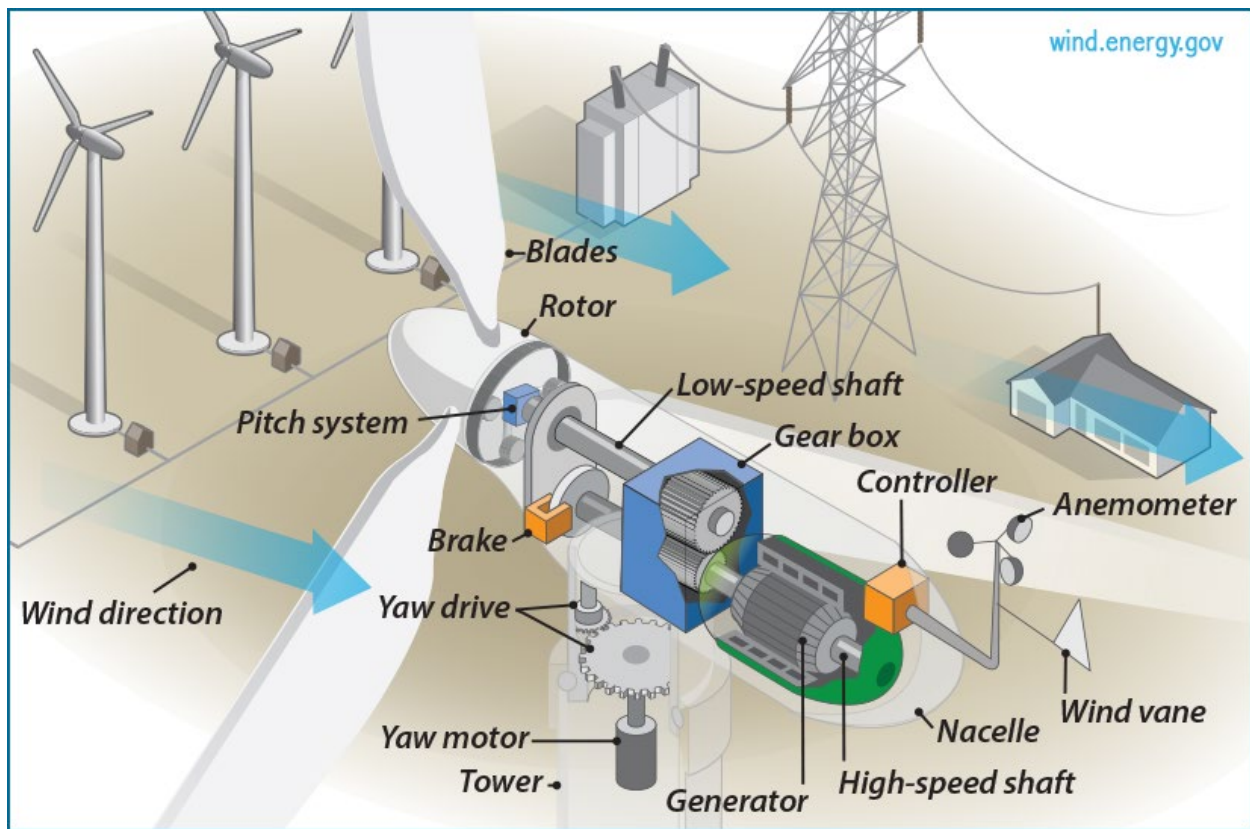
Yaw drive – device capable of orienting a wind turbine to keep it facing the direction of the wind

Anemometer – device that measures wind speed and transmits data to controller

Controller – starts and stops the wind turbine

Wind vane – measures wind direction and communicates with yaw drive to orient the turbine toward the wind

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