

wind

hub

turbine

blade

tower

nacelle

rotor

foundation

The central part of a rotor where the blades are inserted.

Air moving (sometimes with considerable force) from an area of high pressure to an area of low pressure. "trees bent under the fierce winds" "when there is no wind, row"

Most turbines have either two or three. Wind blows over them and causes them to "lift" and rotate.

A device for converting the flow of air into mechanical motion used to produce electricity.

It sits atop the tower and contains the gear box, low and high speed shafts, generator, and brake.

Made from tubular steel, concrete, or steel lattice, they raise the blades above the ground.

The base below the surface of the ground on which the tower rests.

A rotating part of an electrical or mechanical device. The blades and the hub together make up this assembly.

anemometer

substation

grid

cable

energy

transformer

megawatt

transmission line

An auxiliary power station where electrical current is converted and voltage is stepped up or down.

A gauge for recording the speed and direction of wind.

A bundle of wires that can carry electricity.

A network of power lines or pipelines used to move energy from its source to consumers.

An electrical device by which alternating current of one voltage is changed to another voltage.

Any source of usable power, such as fossil fuel, electricity, or solar radiation.

The means to transfer of electric current from a power plant to a destination that could be hundreds of miles away.

A unit of power equal to 1,000 kilowatts or 1 million watts.

renewable

generator

kilowatt

electricity

A resource such as solar energy or wood that is inexhaustible or can be replaced by new growth.

A machine that produces electricity by changing energy of motion into electrical energy.

A unit of power equal to 1000 watts.

The science dealing with electric charges and currents.