

WIND TURBINE COMPONENTS



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The Inside of a Wind Turbine. Wind turbines harness the power of the wind and use it to generate electricity. Simply stated, a wind turbine works the opposite of a fan. Instead of using electricity to make wind, like a fan, wind turbines use wind to make electricity. The energy in the wind turns two or three propeller-like blades around a rotor.

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Wind Turbine Components

Wind Turbine Components. Click on the parts of the open wind turbine to learn about the nacelle, rotor blades, hub, low speed shaft, gearbox, high speed shaft with its mechanical brake, electrical generator, yaw mechanism, electronic controller, hydraulics system, cooling unit, tower, anemometer and wind vane.

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Parts of a Wind Turbine Wind Turbine Parts HowStuffWorks

The simplest possible wind-energy turbine consists of three crucial parts: Rotor blades - The blades are basically the sails of the system; in their simplest form, they act as barriers to the wind (more modern blade designs go beyond the barrier method). When the wind forces the blades to move, it has transferred some of its energy to the rotor.

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Wind Turbine Components TheGreenAge

When air hits the wind turbine, the blades spin, converting the wind's kinetic energy into mechanical energy. This rotary motion then travels down the shaft and drives a generator where the electricity is produced. Typically most wind turbines are mounted in the horizontal plane (like the propeller of a plane),

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Commercial wind turbines now have ratings over 1 MW and machines for the land based and offshore applications have rated power outputs reaching 5 and even 7-10 MW of rated power for off-shore wind applications. Figure 1. Schematic of a wind turbine components. Larger sizes are mandated by two reasons.

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Parts of a Wind Turbine Horizon Energy Curriculum

Parts of a Wind Turbine. When the wind forces the blade to move, some of the wind energy is transferred to the rotor. 2) Shaft: When the rotor spins, the shaft also spins, and transfers the mechanical energy into rotational energy. 3) Generator: A generator uses the difference in electrical charge to produce a change in voltage.

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