

Title: Wind blows and generates electricity

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Explore the mechanics of modern wind turbines. Learn how anemometers, gearboxes, and electromagnetic induction work together to turn wind into a reliable source of renewable electricity.

Wind turbines harness the wind--a clean, free, and widely available renewable energy source--to generate electric power. This page offers a text version of the interactive animation: How a Wind ...

As the blades turn, the rotor spins a shaft connected to a generator. The generator then converts this mechanical energy into electrical energy. The stronger the wind blows, the faster the ...

Wind flows over the blades creating lift (similar to the effect on airplane wings), which causes the blades to turn. The blades are connected to a drive shaft that turns an electric generator, ...

To truly understand how wind turbines generate power--from the movement of their blades to the delivery of electricity into the grid--it is essential to explore every stage of the process, ...

Wind turbines work on a simple principle: instead of using electricity to make wind--like a fan--wind turbines use wind to make electricity. Wind turns the propeller-like blades of a turbine around a rotor, ...

How does wind produce energy? It's a fairly simple process: When the wind blows, the turbine's blades spin which captures energy. This energy is then sent through a gearbox to a generator, which ...

The wind blows across the rotor blades, creating kinetic energy that turns the blades around a rotor. This energy is then sent through a gearbox to a generator, which spins a generator to ...

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