

Animation about how wind generates electricity

How do wind turbines work?

Wind turbines harness the wind--a free and widely available renewable energy source--to generate electric power. The animation below is interactive. You can start and stop the turbine's movement, hover over parts to see their description, and use the icons in the lower right corner of the animation to switch views.

How much energy does wind produce a day?

Every 24 hours, wind generates enough kinetic energy to produce roughly 35 times more electricity than humanity uses each day. And unlike coal or oil, this resource is totally renewed each day. So how can we harness this incredible amount of energy, and is it possible to create a world powered entirely by wind?

Where did wind energy come from?

By the end of the 19th century, wind energy took on a whole new meaning as engineers in Scotland, Denmark, and the United States invented the first wind turbines that generated electricity. Many technological improvements have been made since, and now modern wind farms dot the landscapes of countries around the world.

What is a windmill & how does it work?

The windmill, which converts wind into rotational energy to mill grain or pump water, has been around since antiquity. It's even been claimed that Ancient Babylonians planned to harness wind as early as almost 4,000 years ago, as part of a scheme for one of Hammurabi's ambitious irrigation projects.

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The blades of a wind turbine are designed to catch the wind, converting wind energy into a low-pressure pocket of air when it passes. The Office of Energy Efficiency and Renewable ...

See how wind turbines generate clean electricity from the power of the wind. Highlighted are the various parts and mechanisms of a modern wind turbine.

New animation shows how a wind turbine turns wind energy into electricity using the aerodynamic force from the rotor blades.

How does the modern wind turbine generate electricity? This animation breaks down the parts of a turbine, and how they all work together to make green energy.

Explore how wind turbines convert wind into electricity, and the challenges of powering the world entirely with wind energy. -- Every 24 hours, wind generates enough kinetic energy to produce roughly 35 times more electricity than humanity uses each day. And unlike coal or oil, this resource is totally renewed each day.

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I'm excited to give you another look behind the scenes of one of my projects -- a 3D exploded animation of a wind turbine. This project was a fantastic journey of combining technical ...

See how wind turbines turn wind into electricity with this simple animation! Learn the basics of how these giant machines help power our world.

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