



# People can use wind to generate electricity





## Overview

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Wind power or wind energy is a form of renewable energy that harnesses the power of the wind to generate electricity. It involves using wind turbines to convert the turning motion of blades, pushed by moving air (kinetic energy) into electrical energy (electricity). Modern wind turbines are. Fossil fuels (such as coal, oil, and natural gas) are finite, nonrenewable natural resources, formed over millions of years from the remains of ancient plants, animals, and microorganisms that were subjected to enormous heat and pressure deep within the Earth's crust. Once built, these turbines create no climate-warming greenhouse gas emissions, making this a “carbon-free” energy source that can provide electricity. Wind turbines use blades to collect the wind's kinetic energy.



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### Wind power

Overview  
Impact on environment and landscape  
Wind energy resources  
Wind farms  
Wind power capacity and production  
Economics  
Small-scale wind power  
Politics

The environmental impact of electricity generation from wind power is minor when compared to that of fossil fuel power. Wind turbines have some of the lowest life-cycle greenhouse-gas emissions of energy sources: far less greenhouse gas is emitted than for the average unit of electricity, so wind power helps limit climate change. Use of engineered wood may allow carbon negative wind power. Wind power consumes n...

### Wind Energy

Wind energy, or wind power, is created using a wind turbine, a device that channels the power of the wind to generate electricity. The wind blows the blades of the turbine, which are ...



### [Wind energy facts, advantages, and disadvantages](#)

Humans have used windmills to capture the force of the wind as mechanical energy for more than 1,300 years. Unlike early windmills, however, modern wind turbines use generators and other components ...



### [Wind Power Facts and Information , ACP , ACP](#)



Wind energy (or wind power) refers to the process of creating electricity using the wind or air flows that occur naturally in the earth's atmosphere. Modern wind turbines capture kinetic energy from the wind ...



### Wind Power: What is Wind Energy?

Generating wind energy is all about kinetic energy, aka the energy of motion. Anything that moves--a person walking, a dog running, a book falling--has kinetic energy. A wind turbine takes

### Electricity generation from wind

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, ...



### Wind Energy

Wind energy is a form of carbon-free, renewable energy, which today makes electricity at a lower average cost than any other form of new-built energy.

### Wind power



Wind power is the use of wind energy to generate useful work. Historically, wind power was used by sails, windmills and windpumps, but today it is mostly used to generate electricity.



### [How Do We Use Wind Energy in Everyday Life?](#)

Wind energy harnesses wind to generate electricity and power everyday activities. It has evolved into a reliable energy source, offering extensive environmental and economic benefits. ...

### **Wind Energy , Department of Energy**

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### [Wind Power , Pros, Cons, Debate, Arguments, Alternative Energy](#)

Wind power plays a pivotal role in this debate. Wind power is a "form of energy conversion in which turbines convert the kinetic energy of wind into mechanical or electrical energy ...



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