

# Level 1 wind can also generate electricity



## Overview

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Wind turbines use wind to make electricity. The terms "wind energy" and "wind power" both describe the process by which the wind is used to generate mechanical power. Wind turbines use blades to collect the wind's kinetic energy. Wind flows over the blades creating lift (similar to the effect on airplane wings), which causes the blades to turn. power is a renewable resource because it will never be used up. There are two types of wind turbines:. Alternative energies include 1) renewable power sources (such as solar, tidal, wind, biofuel, hydroelectric, and geothermal) and 2) nonrenewable nuclear power (considered alternative but not renewable because it relies on uranium, a finite resource not easily replenished).

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### 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, ...

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### Energy 101: Wind

Wind turbines use wind to make electricity. Wind turns the propeller-like blades of a turbine around a rotor, which spins a generator, which creates electricity. The terms "wind energy" and "wind ...



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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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### How Wind Turbines Generate Power -- From Blade to Grid

Because power is proportional to the cube of wind speed, a small increase in wind velocity yields a much larger increase in power output. This is why turbines are designed with tall ...

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## Frequently Asked Questions about Wind Energy

A wind turbine works like a fan but in reverse: instead of using electricity to make wind like a fan, wind turbines use wind to make electricity. The wind turns the turbine's blades, which spin a shaft ...

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## From wind energy to electricity generation

The technology, dimensions and mass of wind turbines have evolved over the last decades in order to make the most of the kinetic energy of the wind and generate electricity in the ...



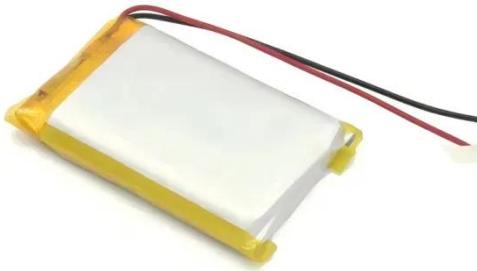
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## Wind Energy Factsheet

Customers can purchase renewable energy through unbundled renewable energy certificates (RECs), community choice aggregations (CCAs), and power

purchase agreements (PPAs).

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## What is Wind Power? , ND Studies Energy Level 1

Wind power is power created by changing the energy of the wind into a useful form of energy. Wind energy can be used to generate electricity. Early Use of Windmills: This photo from 1922 shows a ...



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