

# Introduce to children how wind generates electricity



## Overview

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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. Let's explore how it works, the benefits, and what needs to happen to make wind energy even more widespread! Wind energy works by capturing the power of the wind and turning it into electricity. At night, the winds are reversed because air cools more rapidly over land than it does over water. In the same way, the atmospheric winds that circle the earth are created because the land . Have you ever flown a kite and felt the wind tugging it higher into the sky?

That same power can be used to create electricity! Wind turbines are tall towers with blades that spin when the wind blows. It can be compared to other renewable sources like solar or hydro.

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### Putting Wind to Work

Wind energy is the movement of air, harnessed to produce electricity or power machinery. Wind energy has been used to pump water for centuries, and wind farms have powered

### Wind Energy Facts for Kids: Discover the Power of the Breeze!

Wind energy is a renewable power source that doesn't run out and generates electricity without emitting greenhouse gases. Wind turbines convert the kinetic energy of the wind into



### Environment for Kids: Wind Power

Wind power is energy, such as electricity, that is generated directly from the wind. It is considered a renewable energy source because there is always wind on the Earth and we aren't "using up" the

### Turning wind into energy: A kids' guide to wind power

Wind turbines are tall towers with blades that spin when the wind blows. Inside the turbine, the spinning blades turn a generator, which makes electricity. You can learn more about wind



### wind power



When wind causes the blades to spin, they turn the shaft. The turning shaft provides power to a machine called a generator, which produces electricity. A group of wind turbines, called a wind farm, can be

## What is Wind Energy?

Today, we harness this resource using wind turbines, which help us generate electricity. When their blades spin with the force of the wind, they turn a shaft connected to a generator that



## Wind Energy Magic: How Gentle Breeze Powers Our World

Join us on an adventure to discover how a simple gust of wind transforms into electricity that can turn on your lights, power your computer, and even charge your family's electric car!

## Wind Turbine Project for Kids

Discover how a wind turbine works, then build a simple wind turbine project with your students. This is a fantastic science fair project.



## My Green Planet

Learn how wind turbines work and explore the different types of wind energy, from small turbines to massive offshore wind farms. This site includes lots of cool facts about wind power and its impact on

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