

# What systems does a wind turbine have





## Overview

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How do wind turbines work?

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, which spins a generator, which creates electricity. To see how a wind turbine works, click on the image for a .

What is a wind turbine used for?

wind turbine, apparatus used to convert the kinetic energy of wind into electricity. Wind turbines come in several sizes, with small-scale models used for providing electricity to rural homes or cabins and community -scale models used for providing electricity to a small number of homes within a community.

What are the components of a wind turbine?

Small-scale turbines meet local needs like battery charging, remote device power, or home electricity Five main components make up a wind turbine's structure: foundation, tower, rotor (with blades and hub), nacelle, and generator. The nacelle sits on top of the tower and houses vital parts like the gearbox, shafts, generator, and brake.

What are the different types of wind turbines?

There are two primary types of wind turbines used in implementation of wind energy systems: horizontal-axis wind turbines (HAWTs) and vertical-axis wind turbines (VAWTs). HAWTs are the most commonly used type, and each turbine possesses two or three blades or a disk containing many blades (multibladed type) attached to each turbine.



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