



# Wind power generation animation

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What is the difference between upwind and downwind turbines?

Upwind turbines--like the one shown here--face into the wind while downwind turbines face away. Most utility-scale land-based wind turbines are upwind turbines. The wind vane measures wind direction and communicates with the yaw drive to orient the turbine properly with respect to the wind.

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.

How many blades does a wind turbine have?

Most turbines have three blades which are made mostly of fiberglass. Turbine blades vary in size, but a typical modern land-based wind turbine has blades of over 170 feet (52 meters). The largest turbine is GE's Haliade-X offshore wind turbine, with blades 351 feet long (107 meters) - about the same length as a football field.

Why do wind power plants use a step-up transformer?

A wind power plant will use a step-up transformer to increase the voltage (thus reducing the required current), which decreases the power losses that happen when transmitting large amounts of current over long distances with transmission lines.

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Web: <https://publishers-right.eu/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

