

# How big is a wind turbine

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How tall is a wind turbine?

That's taller than the Statue of Liberty! The average hub height for offshore wind turbines in the United States is projected to grow even taller--from 100 meters (330 feet) in 2016 to about 150 meters (500 feet), or about the height of the Washington Monument, in 2035. Illustration of increasing turbine heights and blades lengths over time.

What is the average rotor diameter of a wind turbine?

In 2023, the average rotor diameter of newly-installed wind turbines was over 133.8 meters (~438 feet)--longer than a football field, or about as tall as the Great Pyramid of Giza. Larger rotor diameters allow wind turbines to sweep more area, capture more wind, and produce more electricity.

How big is a wind turbine blade?

This blade at Wolfe Island Wind Farm in Canada is 49 meters long. Source: Wikimedia Wind turbine blade size plays a big role in the amount of energy a turbine can produce. Simply put, larger blades equal more power, which is why there's been a consistent trend toward bigger turbines in the wind energy industry.

How much power does a wind turbine generate a year?

As of 2020, hundreds of thousands of large turbines, in installations known as wind farms, were generating over 650 gigawatts of power, with 60 GW added each year. Wind turbines are an increasingly important source of intermittent renewable energy, and are used in many countries to lower energy costs and reduce reliance on fossil fuels.

The theoretical maximum size of a wind turbine is influenced by materials and design. With advancements, you could see turbines exceeding 300 meters in rotor diameter, considerably ...

With a capacity to generate 15 megawatts of power, the Vestas V236-15.0 MW is the largest and most powerful wind turbine as of 2025 to have been commercially deployed. It features ...

While traditional wind turbines were smaller, this era of technological advancements is presenting bigger and bigger turbines. These structures are very tall, some reaching over 280 meters ...

According to The United States Department of Energy, most modern land-based wind turbines have blades of



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over 170 feet (52 meters). This means that their total rotor diameter is longer ...

Tall wind turbines with large blades generate more electricity than short turbines with small blades. An 853 feet-tall tower with a blade span of 722 feet powers 12,000 homes, and a 100 feet tall turbine ...

The turbines you install in 2026 will probably be similar in size to turbines installed in 2036. The wind industry spent forty years proving that bigger is better.

The average size of onshore turbines being manufactured today is around 2.5-3 MW, with blades of about 50 meters length. Most modern land-based wind turbines have blades of over 170 ...

As of 2020, hundreds of thousands of large turbines, in installations known as wind farms, were generating over 650 gigawatts of power, with 60 GW added each year. [1] Wind turbines are an ...

In 2023, the average rotor diameter of newly-installed wind turbines was over 133.8 meters (~438 feet)--longer than a football field, or about as tall as the Great Pyramid of Giza. Larger ...

Industrial wind turbines are a lot bigger than ones you might see in a schoolyard or behind someone's house. The widely used GE 1.5-megawatt model, for example, consists of 116-ft blades atop a 212-ft ...

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