



How long is the wind-generating wing





Overview

Today, blades can be 351 feet, longer than the height of the Statue of Liberty, and produce 15,000 kW of power. Modern blades are made from carbon-fiber and can withstand more stress due to higher strength properties. Most new turbines have. Wind energy has undergone a massive transformation, represented by the colossal blades propelling turbines into the future of renewable power. This means that their total rotor diameter is longer than a football field. What's driving this growth?

Let's take a closer look.



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[How Long are Wind Turbine Blades? \(Answer Might Surprise You\)](#)

Wind turbine blades can vary considerably in shape and length, and there is no one "perfect" blade length. The blade length depends on the size of the wind turbine, wind speed in the ...

[How Wind Turbines Work . EARTH 104: Energy,](#)

Over the past decade, wind turbine blades have grown from being about the size of the wingspan of a jumbo jet to being about as long as an American football field.



[Wind Turbine Blade Size: How Big Are They and Why?](#)

According to The United States Department of Energy, most modern land-based wind turbines have blades of over 170 feet (52 meters). This means that their total rotor diameter is longer ...



How Long are Wind Turbine Blades?

Today, blades can be 351 feet, longer than the height of the Statue of Liberty, and produce 15,000 kW of power. Modern blades are made from carbon-fiber and can withstand more stress due ...



[How Long Are The Wings On A Wind Turbine?](#)

On average, wind turbine blades are 116 feet long, but most modern land-based wind turbines have blades of over 170 feet, making their total rotor diameter longer than a football field.



Wind Turbines: the Bigger, the Better

Since the early 2000s, wind turbines have grown in size--in both height and blade lengths--and generate more energy. What's driving this growth? Let's take a closer look.



[How Long are Wind Turbine Blades: The Quick Guide to Their ...](#)

Wind energy has undergone a massive transformation, represented by the colossal blades propelling turbines into the future of renewable power. From modest beginnings with blades a ...

How Long Is the Blade on a Wind Turbine?



Modern land-based wind turbines commonly use blades 70 to 85 meters (230 to 279 feet) long, balancing wind capture with logistical constraints. Offshore turbines, benefiting from more ...



[How Long Are Wind Turbine Blades? Sizes, Materials & Trends](#)

What is the practical maximum length for onshore wind turbine blades today? Most OEMs cap onshore blades around 85 m because of transport limits, though segmented solutions can ...

[What Are The Dimensions of a Wind Turbine?](#)

So far, the longest wind turbine blade on record is that of the Vestas-V236, which is 115.5 meters long. The Siemens Gamesa SG 14-222 DD is 108 meters (354.3 ft.) long.





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