

Wind turbine power generation comparison table



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Overview

This study addresses these gaps by comparing onshore and offshore wind turbines worldwide in terms of installed capacity, levelized cost of electricity (LCOE), total installed cost (TIC), capacity factor (CF), turbine capacity, hub height, and rotor diameter. Wind energy generation, measured in gigawatt-hours (GWh) versus cumulative installed wind energy capacity, measured in gigawatts (GW). Data source: Energy Institute - Statistical Review of World Energy (2025); IRENA (2025) - Learn. You can only add 8 wind turbines to the comparison. This article introduces the efficiency comparison of various wind turbines, including common vertical axis wind turbines (Savonius and Darrieus) and typical three-blade horizontal axis wind turbines. During peak wind conditions, some turbines reach efficiency levels of 50% or more, while lower wind speeds reduce performance to around 20%. For this reason, wind energy is a very popular topic, and there are many studies on this subject. Previous studies have often focused on onshore or offshore installations.

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[How Efficient Are Wind Turbines in 2025? Explained](#)

Discover how efficient wind turbines are in 2025 compared to solar and fossil fuels. Explore wind turbine capacity, energy output, and cost-effectiveness in this data-driven analysis.

[Compare power curves of wind turbines](#)

You can only add 8 wind turbines to the comparison.



[Comparison of "Rose, Aeroleaf, and Tulip" vertical axis wind turbines](#)

In this study, a vertical axis wind turbine with a shape resembling an innovative rose flower-like is developed, additively manufactured, and numerically evaluated and compared with the ...



[Comparative Analysis of Global Onshore and Offshore Wind Energy](#)

This study addresses these gaps by comparing onshore and offshore wind turbines worldwide in terms of installed capacity, levelized cost of electricity (LCOE), total installed cost (TIC), ...



[Wind energy generation vs. installed capacity, 2024](#)

Wind energy generation, measured in gigawatt-hours (GWh) versus cumulative installed wind energy capacity, measured in gigawatts (GW). Data includes energy from both onshore and offshore wind ...

[Wind Turbine Comparison Calculator](#)

Compare efficiency and power output based on manufacturer claimed data for different wind turbines. Compare manufacturer data to maximum theoretical values. Include effects of weather conditions, ...



[Wind Power by Country 2026](#)

Data and analysis covering each country's ability to generate electricity using the wind, such as via turbines or windmills. Also includes information on each country's actual yearly production of wind ...

[Comparison of the efficiency of various wind turbines - horizontal](#)

This article introduces the efficiency comparison of various wind turbines, including common vertical axis wind turbines (Savonius and Darrieus) and typical three-blade horizontal axis ...



51.2V 300AH

[Comparing Wind Turbine Models](#)

Discover top wind turbine models: Maximize daily energy generation. Our guide reviews efficiency, capacity, design for informed choices.



[Table 1 . The comparison between the types of wind ...](#)

Table 1 tabulates the comparison between the different types of the wind turbine.



[Wind Power by Country 2026](#)

Data and analysis covering each country's ability to generate ...

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