

How has the world's wind power sector changed in 2025?

The world's wind power sector recorded strong growth in the first half of 2025, with global installations rising by 64% compared to the same period of 2024. A total of 72,2 gigawatts (GW) of new capacity were added between January and June 2025, following 44,1 GW installed in the first half of the previous year.

What will the global wind power market look like in Q3 2025?

Wood Mackenzie's Global wind power market outlook update: Q3 2025 reveals the global wind power market will achieve unparalleled milestones over the next 10 years. The industry is poised to add its second terawatt of capacity by 2030 - accomplished in just seven years compared to the 23 years it took to reach the first terawatt in 2023.

Should wind power grow to 320 gigawatts by 2030?

But the authors warned that the wind industry must increase its annual growth to at least 320 gigawatts by 2030 in order to meet the COP28 pledge to triple the world's installed renewable energy generation capacity by 2030, as well as to meet the Paris Agreement's ambition of capping global warming to 1.5 degrees Celsius (2.7 Fahrenheit).

How did wind power grow in 2023?

In 2023 wind electricity generation increased by 216 TWh (up 10%), reaching more than 2330 TWh. This was the second highest growth among all renewable power technologies, behind solar PV.

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Wind power generation, 2025 Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources.

This chapter comprehensively discusses wind power generation, tracing its evolution from historical windmills to modern large-scale wind farms, and analyzing its technical principles, resource ...

In the US less wind power capacity has been added each year compared to the years preceding the signing of the influential 2022 Inflation Reduction Act and the EU has also experienced ...

The world installed 117 gigawatts of new wind power capacity in 2023, a 50% increase from the year before, making it the best year for new wind projects on record, according to a new ...

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Record Year for Windpower in 2023 Total capacity exceeds 1047 Gigawatt 116 Gigawatt added in 2023 equaling 12,5% growth China installed around 75 Gigawatt, two thirds of new capacity ...

The 2 TW milestone is expected to be achieved in just seven years Compared with the 2030 global outlook released alongside last year's Global Wind Report, GWEC Market Intelligence ...

In our latest Short-Term Energy Outlook, we forecast that wind and solar energy will lead growth in U.S. power generation for the next two years. As a result of new solar projects coming on ...

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