



# Wind power generation capacity forecast analysis

Excluding China, global cumulative wind capacity will reach 1 TW in 2031, with global capacity doubling from 2024 levels by 2034. Policy frameworks that once reliably drove wind sector ...

Offshore wind capacity expansion is expected to reach 140 GW over the forecast period, more than doubling the growth of the previous five-year period. The annual offshore wind market expands from ...

Global Wind Power Growth Accelerates in the First Half of 2025. The report can here be downloaded in pdf format.

This issue calls for critical attention when establishing power systems with a high share of renewable energy sources. The conclusions provide a basis for analyzing power supply risks and ...

In 2024, global wind capacity additions reached around 125 GW, and this momentum is expected to continue into 2025. The GWEC Global Wind Report 2025 reviews the industry's 2024 performance ...

The report provides data and analysis on the historic and forecasts of wind power capacity and generation, geo-political scenario, market size, and market drivers and challenges for twelve key ...

For the first time, the Report has conducted an annual forecast of global new energy generation capacity, noting that global wind power and photovoltaic generation capacity will increase ...

This scenario-based framework bridges wind prediction and power flow analysis, enabling efficient grid performance assessment under varying wind conditions, while offering ...

This research presents a detailed evaluation of global wind power generation, employing cutting-edge machine learning methods to forecast future trends and capacities through 2050.

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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