Wind power forecast and generation capacity

As the offshore wind industry accelerates towards its 2030 installed capacity targets, the transformation of steel into turbines, towers and foundations continues to drive global expansion.

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

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 ...

See the projected growth of the wind industry over the next 35 years. All units are in gigawatts (GW). Only states with total capacity over 0.1 GW are included per year. Find out more about the data by ...

New installations of generating capacity support the increase in our renewable generation forecast. Wind and solar developers often bring their projects on line at the end of the calendar year.

Wind industry installed a record 117 GW of new capacity globally in 2024, and GWEC forecasts almost 1TW of additional installations by 2030.

Solar, wind, and batteries are set to supply virtually all net new US generating capacity in 2026, according to the latest EIA data.

Globally, wind, solar, and hydropower generation capacities will show differentiated growth trends in 2026: the average utilizable hours for wind power will be approximately 2,310 hours, slightly ...

Wind power generation fluctuates because of continually changing wind speeds. Accurate forecasting models are required for successfully integrating such fluctuating generation into the grid and market.

The U.S. is expected to add more than 7 gigawatts (GW) of wind installations in 2025, a 36% increase over the previous year, and the five-year outlook remains unchanged quarter-over ...

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