Changes in wind power generation in recent years

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How has wind power changed over the last 10 years?
U.S. wind capacity has more than doubled over the last 10 years (from 2014 to 2023). Texas, Iowa, and Oklahoma led in wind generation in 2023. But many other states have seen major growth in wind power during the last 10 years.

How will US wind power 2025 impact FERC data?
U.S. Wind Power 2025 drives record capacity additions, with FERC data showing robust renewable energy growth, IRA incentives, onshore and offshore projects, utility-scale generation, grid integration, and manufacturing investment boosting clean electricity across key states.

What is the special issue 'recent development & future perspective of wind power generation'?
The Special Issue 'Recent Development and Future Perspective of Wind Power Generation' provides valuable articles, closing some research gaps. The author thanks the contributors of the Special Issue 'Recent Development and Future Perspective of Wind Power Generation'.

Why is wind power increasing in 2025?
Early 2025 has witnessed a notable increase in wind power's share of the U.S. electricity generation mix. This trend reflects the nation's ongoing commitment to expanding renewable energy sources, especially after renewables surpassed coal in 2022, supported by favorable policies and technological advancements.

U.S. electricity generation from wind turbines decreased for the first time since the mid-1990s in 2023 despite the addition of 6.2 gigawatts (GW) of new wind capacity last year.

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Shortages of parts, jumps in labour costs and drawn-out development timelines have slowed the pace of wind farm construction in the last couple of years.

This recent change in the climate cycle could last decades, positively impacting power generation at wind farms and continuing the trend of the 18% year-over-year increase in renewables in the first half.

Further, the paper briefly discusses certain future wind generation technologies, namely airborne, offshore, smart rotors, multi-rotors, and other small wind turbine technologies.

Percentage change in wind energy generation relative to the previous year. Data source: Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data. Figures ...

Will wind energy continue to grow? Experts expect continued transitions to wind power in the coming decades. In particular, offshore wind has the potential to play a big role in part because ...

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