

## European Solar and Energy Storage Solutions

# Has the wind power generation stopped



## Overview

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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. Data from our Power Plant Operations Report show that U.S. wind generation in 2023 totaled 425,235 gigawatthours (GWh), 2.1% less than the 434,297 GWh generated in 2022.

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Slower wind speeds from the naturally occurring El Niño weather phenomenon drove lower generation. Consultancy DNV, which advises on US wind projects, saw a 5 per cent decline in wind. Why did wind power fall last year?

Slower breezes weakened wind generation across the country last year, leading to the first decline in output in almost three decades. The wind is blowing slower these days in the US. Wind power fell last year for the first time since the 1990s, despite new installed capacity, the Energy Information Administration reported last week.

How has wind power changed over the last year?

U.S. wind capacity increased steadily over the last several years, more than tripling from 47.0 GW in 2010 to 147.5 GW at the end of 2023. Electricity generation from wind turbines also grew steadily, at a similar rate to capacity, until 2023.

How much wind power did the US generate in 2023?

The US saw the addition of 6.2 gigawatts (GW) of new wind capacity last year, but data from the US Energy Information Administration's " Power Plant Operations Report " show that US wind generation in 2023 totaled 425,235 gigawatt-hours (GWh) – 2.1% less than the 434,297 GWh generated in 2022.

What's going on with wind energy?

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Why is US wind power declining?

The capacity factor for the country's wind fleet — how much energy it's actually generating versus its maximum possible output — declined to an eight-year low of 33.5%. Most of that decline was driven by the central US, a region densely dotted with turbines.

Why did wind generation decline in 2023?

The 2023 decline in wind generation indicates that wind as a generation source is maturing after decades of rapid growth. Slower wind speeds than normal affected wind generation in 2023, especially during the first half of the year when wind generation dropped by 14% compared with the same period in 2022.

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### How Wind Power Works

The cost of utility-scale wind power has come down dramatically in the last two decades due to technological and design advancements in turbine production and installation. In the early 1980s, wind power cost about 30 cents per kWh. In ...

### (PDF) Impact of Wind Generation in determining Spinning and Stopped ...

Wind turbine generation has been gaining more relevance over the years with his growth in the energy mix. However, the increase of production of wind energy leads to an increase in the ...



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### Britons paying hundreds of millions to turn off wind turbines as

The cables that transfer the power from the north to the south can't safely deal with the amount of power the turbines generate on some days. The National Grid paid £215m ...

### Wind generation declined in 2023 for the first time ...

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. Data from our Power Plant Operations Report ...



## Global 'Stilling': Is Climate Change Slowing Down the ...

It was one of the least windy periods in the United Kingdom in the past 60 years, and the effects on power generation were dramatic. Wind farms produced 18 percent of the U.K.'s power in September of 2020, but in ...

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