

Wind power generation is slow



Overview

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). After decades of yearly increases, the amount of electricity generated by wind power in the United States saw a slight decline in 2023. 3 billion kWh generated in 2022. But, rising temperatures and their impact on atmospheric circulation are expected to reduce wind speed across Europe and North America. By mid-century, wind speeds could drop by 5%, with reductions reaching up to 15% by 2100.

Wind power generation is slow



US, India, Russia, Japan are building out wind power much too slowly

The world is falling well short of a promise signed at global climate talks last year to triple the amount of wind power, according to research by an energy think tank released Thursday.

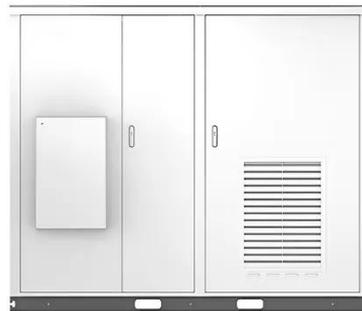
[Learn More](#)

Why US offshore wind power is struggling

America's first large-scale offshore wind farms began sending power to the Northeast in early 2024, but a wave of wind farm project cancellations and rising costs have left many people with

[Learn More](#)

Solar



Understanding the Weather Behind a Down Year for Wind Energy

Wind farm development, offshore and onshore, has been slowed by many factors, such as parts shortages and difficulty obtaining permits. Those obstacles are among the reasons that wind

[Learn More](#)

Wind speed decline: Climate Change

cuts wind power by 40%

Climate change is slowing wind speeds across Europe, particularly during the summer months. This trend, known as "stilling," is already affecting mid-latitude regions in the northern ...

[Learn More](#)



 LFP 48V 100Ah



Why Wind Energy Is in a State of Crisis

The nascent offshore industry isn't alone in its struggles. Onshore wind, which developers have built at scale since the early 2000s, had its worst year in 2023 in more than a ...

[Learn More](#)

Prolonged wind droughts in a warming climate threaten global wind power

Prolonged low wind speeds can lead to a strong reduction in wind power generation. Here, the authors show that such wind drought events become more frequent and extended under ...

[Learn More](#)



100KWH/215KWH

LIQUID/AIR COOLING

IP54/IP55

BATTERY 6000 CYCLES

Germany's stretch of weak wind output set to drag on into 2026

Europe's largest wind power producer - Germany - remains in the grips of a years-long bout of sub-par wind

electricity production due to below-average wind speeds at turbine level.

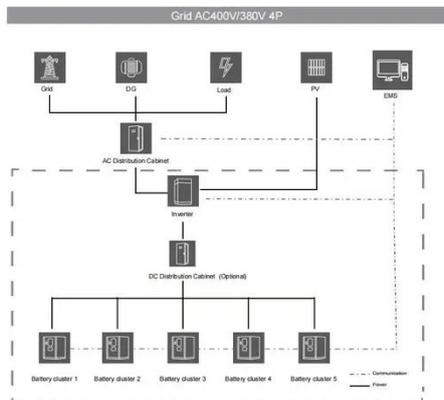
[Learn More](#)



Low-Energy Fridays: What does less wind mean for the power industry

After decades of yearly increases, the amount of electricity generated by wind power in the United States saw a slight decline in 2023. American wind generators produced 425.2 billion ...

[Learn More](#)



Wind Farms of the Future Will Be More Powerful and Quieter

Despite the fact that each individual larger, more powerful wind turbine may be louder at its base, there will be fewer turbines overall in each wind plant and they will be constructed further ...

[Learn More](#)

Wind generation declined in 2023 for the first time since the 1990s

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.

[Learn More](#)



Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://v4venison.co.za>

