



# Wind power generation waits for the wind to come





## Overview

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Wind energy projects face lengthy delays for grid connection. Hundreds of wind energy projects are having to wait years for permits to connect to the power grid in Europe - and the backlog is slowing the move to renewable energy, according to a new report by WindEurope. power generation for the next two years. As a result of new solar projects coming on line this year, we forecast that U. solar power generation will grow 75% from 163 billion kilowatthours. After a sluggish stretch, US wind is heading into a pivotal moment, with a near-term rebound colliding with rising power demand, tariffs, and stubborn permitting bottlenecks. However, the wind will continue to blow long after January 20, 2029, when the current occupant of the White House is scheduled to. According to the American Clean Power Association, despite a project pipeline of 40 GW across both on- and offshore, wind faced continued headwinds in 2024 as deployments slowed. The. Alternative energies include 1) renewable power sources (such as solar, tidal, wind, biofuel, hydroelectric, and geothermal) and 2) nonrenewable nuclear power (considered alternative but not renewable because it relies on uranium, a finite resource not easily replenished).



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### [Solar and Wind Power Has Grown Faster Than Electricity Demand ...](#)

Worldwide solar and wind power generation has outpaced electricity demand this year, and for the first time on record, renewable energies combined generated more power than coal, ...

### Why Did We Wait so Long for Wind Power? Part I

Since the early 2000s, wind power has been a substantial fraction of new electricity capacity in the US. In 2020 wind power was 42% of new electricity generation capacity, and in 2021 it ...



### The Coming Wind Droughts , RealClearEnergy

In an article published this week in the journal Nature Climate Change, the Beijing and Shenzhen-based researchers find that around 20% of the globe's wind turbines are located in areas ...

### [Wind farms waiting years to get on grid, and other ...](#)

Hundreds of wind energy projects are having to wait years for ...

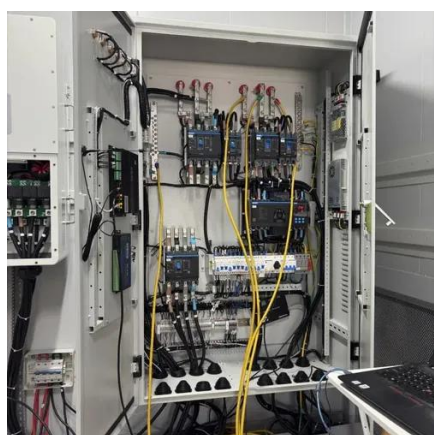


### [Wind Power , Pros, Cons, Debate, Arguments, Alternative Energy](#)

Wind power plays a pivotal role in this debate. Wind power is a "form of energy conversion in which turbines convert the kinetic energy of wind into mechanical or electrical energy ...

### [Solar and wind to lead growth of U.S. power generation for the next ...](#)

In 2023, the U.S. electric power sector produced 4,017 billion kilowatthours (kWh) of electric power. Renewable sources--wind, solar, hydro, biomass, and geothermal--accounted for ...



### [Advancing wind energy through better understanding of the](#)

Second, wakes, zones of slower, more turbulent wind downwind of turbines, reduce power generation by 10-40% and increase structural loads.

### [US wind growth picks up speed as power](#)



## demand surges

US wind installations are set to jump in 2025, but tariffs, permitting delays, and surging power demand could shape what comes next.



## Wind farms waiting years to get on grid, and other climate news

Hundreds of wind energy projects are having to wait years for permits to connect to the power grid in Europe - and the backlog is slowing the move to renewable energy, according to a new ...

## **Wait, The US Wind Industry Is Coming Back?**

The US wind industry is on life support for the time being, but some stakeholders have spotted opportunities to stay afloat.



## Is there a shortcut on the path to getting wind power online?

According to the American Clean Power Association, despite a project pipeline of 40 GW across both on- and offshore, wind faced continued headwinds in 2024 as deployments slowed. ...





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