

# **News report on wind power generation reaching new highs**





## Overview

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How much wind energy generating capacity was installed in 2023?

Source: GWEC A record amount of new wind energy generation capacity was installed worldwide during 2023, according to the Global Wind Energy Council (GWEC). Global wind energy generating capacity grew by 117 GW, posting a 50% increase from 2022. Cumulative global wind power capacity now totals 1,021 GW.

Will 2023 be the best year for new wind energy?

The global wind industry installed a record 117GW of new capacity in 2023, making it the best year ever for new wind energy, finds this year's Global Wind Report from the Global Wind Energy Council.

How many wind turbines are installed per year?

The Global Wind Energy Council (GWEC) report said capacity installation last year was 50% higher than the year before. Last year, new onshore wind accounted for 106 GW of the amount installed, while offshore wind accounted for 10.8 GW. GWEC expects 158 GW of new wind installations to be added per year until 2028.

Will wind power gain more ground in the electricity generation market?

There are several reasons to believe wind power will gain further ground in the electricity generation market in the coming years. Global wind generation capacity has been one of the fastest-growing forms of electricity production so far this century. It expanded around 20% per year from 2001 through 2021, according to Ember.

Should wind power grow to 320 gigawatts by 2030?

But the authors warned that the wind industry must increase its annual growth to at least 320 gigawatts by 2030 in order to meet the COP28 pledge to triple the world's installed renewable energy generation capacity by 2030,



as well as to meet the Paris Agreement's ambition of capping global warming to 1.5 degrees Celsius (2.7 Fahrenheit).

Will China's Wind power growth continue?

This was the fastest annual growth in the continent since 2020. China has been the main driver of this trend, and this looks set to continue, as the country has already installed 39,000 MW of new wind capacity so far this year, according to the Centre for Research and Clean Air (CREA), which is up 17% from 2023.



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### Global coal exports and power generation hit new ...

Worldwide electricity generation from coal hit record highs in 2023, while thermal coal exports surpassed 1 billion metric tons for the first time as coal's use in power systems continues to grow



### In 2021, China's offshore wind power new installed ...

The installed capacity of renewable energy power generation has historically exceeded 1 billion kilowatts, and the installed capacity of hydropower and wind power has exceeded 300 million kilowatts., The ...



### Next Generation Wind and Solar Power - Analysis

Next Generation Wind and Solar Power - Analysis and key findings. A report by the International Energy Agency. A Global Pathway to Keep the 1.5 °C Goal in Reach. 2023 Update. ...



### Record solar and wind power drive European electricity generation

Wind power also saw significant output, reaching 104.7TWh, the highest recorded for a third quarter and the second-highest on record overall, with Germany, Britain, ...



### Executive summary - Renewables 2023 - Analysis

In 2025, renewables surpass coal to become the largest source of electricity generation. Wind and solar PV each surpass nuclear electricity generation in 2025 and 2026 respectively. In 2028, ...

### Wind Power Market Size, Share, Trends, Growth ...

Wind Power Market Report Overview. The cumulative installed capacity of the wind power market was 1,024 gigawatts (GW) in 2023. The wind power market research report provides a clear overview and detailed insight ...



### [WWEA Annual Report 2023: Record Year for ...](#)

In this year's World Wind Energy Association Annual Report, we proudly present unprecedented achievements in wind energy installations across our planet. 2023 has been a record-breaking year, with a total global capacity ...





### Massive expansion of renewable power opens door to ...

The report shows that under existing policies and market conditions, global renewable power capacity is now expected to grow to 7 300 GW over the 2023-28 period covered by the forecast. Solar PV and wind ...



### New heights: the role of high-altitude wind turbines ...

MIT spin-off Altaeros Energies has created the BAT - the Buoyant Airborne Turbine, found within a helium-filled shell, and able to float 1,000 feet above ground. Ross Davies talks to co-founder and CEO, Ben ...

### What is wind power?

The 20th century marked the dawn of large-scale wind power generation. In 1980, New Hampshire became home to the first wind farm, featuring 20 turbines. Then, as we entered the 21st century, global wind ...



- High energy density and long cycle life
- Modular structure

No need to replace the battery  
 Shorter charging time  
 Meets #1 EV car

### China continues to lead the world in wind and solar, with twice as ...

China is cementing its position as the global leader in renewables development with 180 GW of utility-scale solar and 159 GW of wind power already under construction<sup>1</sup>. The ...



## WWEA Annual Report 2023: Record Year for Windpower

In this year's World Wind Energy Association Annual Report, we proudly present unprecedented achievements in wind energy installations across our planet. 2023 has been a ...

Sample Order  
UL/KC/CB/UN38.3/UL

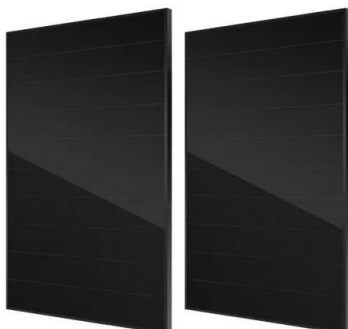


### CO2 Emissions in 2022 - Analysis

Electricity and heat sector emissions increased by 1.8% (or 261 Mt), reaching an all-time high of 14.6 Gt. Gas-to-coal switching in many regions was the main driver of this ...

### New UK wind energy and renewables generation records set in ...

The UK recorded a new wind energy generation record as 2022 drew to a close, with wind generating 20.918 GW of electricity in the half-hour period between 6 and 6.30pm on ...



### Overview and key findings - World Energy Investment ...

In 2015, the ratio of clean power to unabated fossil fuel power investments was roughly 2:1. In 2024, this ratio is set to reach 10:1. The rise in solar and wind deployment has driven wholesale prices down in some countries, occasionally ...



### **Nuclear energy production could reach record high in 2025 - IEA report**

Global nuclear power generation is set to reach a record high in 2025, growing by almost 3% annually on average through to 2026, according to a new report by the ...



### **Report: 2023 a record year for wind installations**

The world installed 117 gigawatts of new wind power capacity in 2023, a 50% increase from the year before, making it the best year for new wind projects on record, according to a new

### **Coal power's sharp rebound is taking it to a new record in 2021**

After falling in 2019 and 2020, global power generation from coal is expected to jump by 9% in 2021 to an all-time high of 10,350 terawatt-hours, according to the IEA's Coal ...



### **Wind and solar have risen to 'new highs' in the EU**

"Following two record years for renewables installations, in the first half of 2024 wind and solar have risen to new highs, overtaking for the first time ever fossil fuels in our ...



### Global coal exports and power generation hit new highs in 2023

Worldwide electricity generation from coal hit record highs in 2023, while thermal coal exports surpassed 1 billion metric tons for the first time as coal's use in power systems ...



### Clean sources of generation are set to cover all of the world's

Global electricity demand is expected to grow at a faster rate over the next three years as the clean energy transition gathers speed, with all the additional demand forecast to ...

### Wind power production reaches new historical highs with strong ...

Wind power production supplied 69% of the electricity consumption in Portugal on 17 October, thanks to the generation of 108 GWh of wind power, a new all-time high. The ...



### Global wind power set to grab record share of electricity market

Global wind-powered electricity generation could set a new record in 2024, as winter sets in throughout the northern hemisphere and wind speeds pick up across a majority ...



### EU's 2030 wind power target within reach - report

The EU's wind energy target for 2030 is within reach thanks to improvements in permitting and rebounds in investment, according to a new report from European wind ...



### China leads, as wind and solar reach record power generation in ...

China's CO2 emissions are also 3 times higher than the US, a new report found. By Subel Rai Bhandari for RFA 2023.04.12 -- Wind and solar reached a record 12% share of global ...

### New highs in global growth of wind energy capacity

During 2023, onshore wind energy capacity expansion attained a record high of 106 GW while offshore capacity growth of 10.8 GW translates into a second-best one-year ...



### Latest wind power news & analysis , Windpower Monthly

Enel to prioritise onshore wind and storage over solar By Heather O'Brian, 19 November 2024 Italian utility Enel intends to make onshore wind and dispatchable generation sources like ...



## 2023 was a record year for wind installations

The world installed 117 gigawatts of new wind power capacity in 2023, a 50% increase from the year before, making it the best year for new wind projects on record, ...



## Global Wind Report 2024

The report highlights increasing momentum on the growth of wind energy worldwide: Total installations of 117GW in 2023 represents a 50% year-on-year increase from 2022; 2023 was a year of continued global growth - 54 ...

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