

Proportion of wind power generation in 2025





Overview

Renewable capacity will meet 35% of global power generation by 2025, according to the International Energy Agency (IEA). Will renewable capacity meet 35% of global power generation by 2025?

Renewable capacity will meet 35% of global power generation by 2025, according to the International Energy Agency (IEA). The organization also says electricity demand is forecast to grow by 3% a year over the next three years compared to 2022, with a third of global consumption in China.

How much wind power will be generated in 2023-2030?

Aligning with the wind power generation level of about 7 400 TWh in 2030 envisaged by the Net Zero Scenario calls for average expansion of approximately 17% per year during 2023-2030.

How did wind power grow in 2022?

In 2022 wind electricity generation increased by a record 265 TWh (up 14%), reaching more than 2 100 TWh. This was the second highest growth among all renewable power technologies, behind solar PV.

What is the largest source of electricity generation in 2025?

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, renewable energy sources account for over 42% of global electricity generation, with the share of wind and solar PV doubling to 25%.

Which countries generate the most wind energy in 2022?

Wind remains the leading non-hydro renewable technology, generating over 2 100 TWh in 2022, more than all the others combined. China was responsible for almost 40% of wind generation growth in 2022, followed by the United States at 22%.



What percentage of EU electricity is generated by wind & solar?

For the first time, more than a quarter of EU electricity (27%) was provided by wind and solar in 2023, up from 23% in 2022. This drove renewable electricity to a record high of 44%, passing the 40% mark for the first year in the EU's history. Combined wind and solar generation increased by a record 90 TWh and installed capacity by 73 GW.



Proportion of wind power generation in 2025



Executive summary - Renewables 2022 - Analysis

Renewables become the largest source of global electricity generation by early 2025, surpassing coal. Their share of the power mix is forecast to increase by 10 percentage points over the ...

Solar and wind to lead growth of U.S. power generation for the ...

In contrast to growing generation from renewables, we forecast that coal power generation will decline 18% from 665 billion kWh in 2023 to 548 billion kWh in 2025. We ...



Executive summary - Electricity 2024 - Analysis

Even as some countries phase out nuclear power or retire plants early, nuclear generation is forecast to grow by close to 3% per year on average through 2026 as maintenance works are ...

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, ...



Energy Generation in Wales: 2022

Electricity generation from gas in Wales has increased by nearly 40% since 2020, compared to a 3% increase in renewable electricity generation. Approximately 27% of all Welsh electricity ...



Report: Renewables a major part in power generation by 2025 ...

An offshore wind farm is seen in Nantong, Jiangsu province, in May. [Photo by Xu Congjun/For China Daily] Renewable power generation capacity in China is expected to ...



POWER SHIFT: Staggering rise of renewables positions China to ...

3. Generation CEF forecasts: oChina's electricity demand will keep climbing to 11,672.9TWh in 2030, a 31% increase from 2023, and reach 15,855TWh by 2040, a 78% ...





Evolution of worldwide geothermal power 2020-2023

Only 32 countries in the world have geothermal power plants in operation, with a combined capacity of 16,318 MW installed in 198 geothermal fields with 673 individual power ...



[Electricity - Renewables 2023 - Analysis](#)

This worldwide acceleration in 2023 was driven mainly by year-on-year expansion in the People's Republic of China's (hereafter "China") booming market for solar PV (+116%) and wind ...

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, renewable energy sources account for ...



Electricity generation

Insights Source: National Grid ESO UK electricity generation in 2023 2023 was one of the greenest years on record for electricity generation with the share of renewables on the system continuing to grow. In 2023 more electricity came ...



Renewable energy will produce 35% of global ...

Renewable capacity will meet 35% of global power generation by 2025, according to the International Energy Agency (IEA). The organization also says electricity demand is forecast to grow by 3% a year over the next ...



Annual percentage change in solar and wind energy generation

"Data Page: Annual percentage change in solar and wind power consumption", part of the following publication: Hannah Ritchie, Pablo Rosado and Max Roser (2023) - ...

Renewable Energy

Renewable energy statistics 2024 provides datasets on power-generation capacity for 2014-2023, actual power generation for 2014-2022 and renewable energy balances for over 150 countries and areas for 2021-2022.



Wind power in the United Kingdom

The United Kingdom is the best location for wind power in Europe and one of the best in the world. [2] [3] The combination of long coastline, shallow water and strong winds make offshore ...





European Electricity Review 2024

Wind power saw record annual generation growth in 2023 of 55 TWh (+13%). This resulted in generation from wind surpassing gas for the first time. Electricity produced from wind was 475 TWh, equivalent to France's total ...



Forecast of clean energy generation in China based on new ...

The growth curve of wind power generation peaked in 2017 and 2021. Wind power generation grew fastest in 2013, 2016, 2017, and 2021, in other years, the growth rates ...



Annual percentage change in wind energy generation

Annual percentage change in wind power consumption. Figures are based on gross generation and do not account for cross-border electricity supply. Source. Energy Institute - Statistical Review of World Energy (2024) - ...



New understanding of power generation structure ...

How to promote the transformation of the power generation structure from a high proportion of thermal power to a high proportion of renewable energy power has always been ...



Britain's Electricity Explained: 2023 Review

Electricity from wind turbines has continued to grow in its contribution to the operation of the national network and accounted for 29.4% of electricity generation. On 10 ...

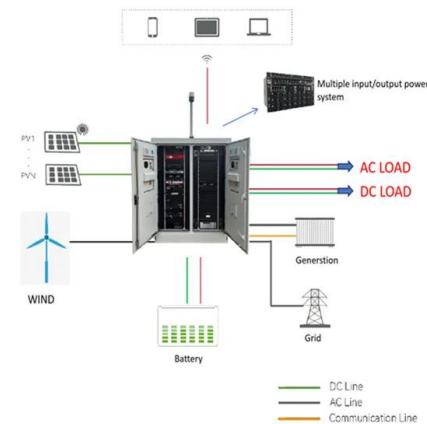


Renewable Energy

Installed wind capacity. The previous section looked at the energy output from wind farms across the world. Energy output is a function of power (installed capacity) multiplied by the time of ...

Wind energy in the UK

Electricity generation from wind power in the UK has increased by 715% from 2009 to 2020. Detailed analysis and forecasts through 2025 of the impact of COVID-19 on renewables in the ...



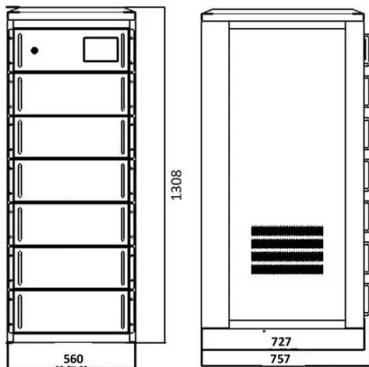
Annual percentage change in wind energy generation

Percentage change in wind energy generation relative to the previous year. Our World in Data. Browse by topic. Latest; Resources. June 2025. Date range. 1979-2023. Unit % Explore charts that include this data.



Wind energy in Europe: 2023 Statistics and the outlook ...

Overview. Europe installed 18.3 GW of new wind power capacity in 2023. The EU-27 installed 16.2 GW of this, a record amount but only half of what it should be building to meet its 2030 climate and energy targets. ...



Forecast of renewable energy penetration potential in the goal of

According to the "14th Five-Year Plan for Modern Energy System", non-fossil energy power generation will account for 39 % of total power generation by 2025. The ...

[Nuclear power generation in France](#)

Find here the data on electricity generation in France, presented either in aggregate or in detail by generation type: nuclear, conventional thermal, hydro, solar, wind and ...



Great Britain on track for periods of zero carbon electricity in 2025

In 2019 zero carbon sources outstripped fossil fuelled electricity generation for the first time ever and 1.30pm on 17 August of that year saw the highest share of zero carbon power ever seen ...



EIA projects that renewable generation will supply 44% of U.S

In our Annual Energy Outlook 2022 (AEO2022) Reference case, which reflects current laws and regulations, we project that the share of U.S. power generation from ...



China could exceed renewables generation target of 33% by 2025

It also revealed that the nationwide wind power utilization rate improved slightly by 0.4% year on year, while the solar power utilization rate remained unchanged. The ...

Overview of Wind Power in China: Status and Future

By this research, the results are shown as the following: (1) the North region has great wind energy with 2500-3000 giga watt (GW) and the offshore wind energy in the ...



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