

European Solar and Energy Storage Solutions

Wind power accounts for the total global electricity generation



Overview

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For the first time, wind and solar generated more than 10% of electricity globally in 2021, according to latest data.

Wind and solar generated over a tenth (10.3%) of global electricity for the first time in 2021, rising from 9.3% in 2020, and twice the share compared to 2015 when the Paris Climate Agreement was signed.

In 2028, renewable energy sources account for over 42% of global electricity generation, with the share of wind and solar PV doubling to 25%. IEA. Licence: CC BY 4.0

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

Wind and solar generated over a tenth (10.3%) of global electricity for the first time in 2021, rising from 9.3% in 2020, and twice the share compared to 2015 when the Paris Climate Agreement was signed (4.6%). Combined, clean electricity sources generated 38% of the world's electricity in 2021, more than coal (36%).

How much wind power does the world need?

The world's installed wind power capacity now meets around 10% of global electricity demand - another important milestone. More than ten countries now have a wind power share of more than 20%, led by Denmark, which generates an astonishing 56% of its electricity from wind.

What percentage of global electricity generation is renewable?

In 2028, renewable energy sources account for over 42% of global electricity

generation, with the share of wind and solar PV doubling to 25%. IEA. Licence: CC BY 4.0 China accounts for almost 60% of new renewable capacity expected to become operational globally by 2028.

How will solar PV & wind impact global electricity generation?

The share of solar PV and wind in global electricity generation is forecast to double to 25% in 2028 in our main case. This rapid expansion in the next five years will have implications for power systems worldwide.

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 electricity from wind?

Germany, the Netherlands, Portugal, the UK and Uruguay are among the countries that generate around a third or more of their electricity from wind. These countries demonstrate that the world as a whole can achieve a 40-50% share of wind power in total electricity generation, as outlined by the WWEA in a long-term scenario.

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Outlook for electricity - World Energy Outlook 2022

Electricity accounts for about 20% of the world's total final consumption of energy, but its share of energy services is higher due to its efficiency. Global electricity demand rises by 5 900 ...

Electricity - Renewables 2023 - Analysis

In 2028, renewable energy sources account for 42% of global electricity generation, with the wind and solar PV share making up 25%. In 2028, hydropower remains the largest renewable electricity source. Although this ...



Electricity explained Electricity generation, capacity, and sales in

Since 2013, total annual electricity generation from utility-scale nonhydropower renewable sources has been greater than from total annual hydropower. Wind energy's share ...

Executive summary - Electricity 2024 - Analysis

The strong growth in coal-fired power generation

in 2023 - especially in China and India amid reduced hydropower output - was responsible for the rise in the global electricity sector's CO ...



Electricity Mix

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 ...

WWEA Annual Report 2023: Record Year for ...

The increase in global wind power share to 10% of electricity generation marks a significant milestone towards our goal of a cleaner, more resilient energy system. Countries like Denmark, leading with 56% of its ...



Outlook for electricity - World Energy Outlook 2022

Even in the STEPS, unabated coal falls from 36% of generation in 2021 to 26% in 2030 and 12% in 2050, reflecting renewables growth, led by solar PV and wind. In the APS, pledges including net zero emissions targets in 83 countries and the ...

Electricity production by source

When will countries phase out coal power? Wind energy generation by region; Wind energy generation vs. installed capacity; Wind power generation; World crude oil price vs. oil consumption; Year-to-year change in primary energy ...

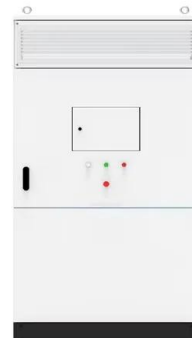


Global Electricity Review 2022

Wind and solar generated over a tenth (10.3%) of global electricity for the first time in 2021, rising from 9.3% in 2020, and twice the share compared to 2015 when the Paris Climate Agreement was signed (4.6%). ...

Global Electricity Review 2023

Electricity at its cleanest, as wind and solar generate 12% of global power. The carbon intensity of global electricity generation fell to a record low of 436 gCO₂/kWh in 2022, the cleanest-ever electricity. This was due to ...



Wind and solar reach a record 12% of global electricity in 2022

The growth in wind and solar generation in 2022 met an impressive 80% of the rise in global electricity demand. In spite of the global gas crisis and fears of a return to coal, it was that rise ...



Renewable Energy

Energy output is a function of power (installed capacity) multiplied by the time of generation. Energy generation is therefore a function of how much wind capacity is installed. This interactive chart shows installed wind capacity - including ...



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