

Wind power generation capacity breakthrough



Overview

With 1'346'866 Megawatt of installed capacity, the world has reached a new record in total installations after it had fallen short of expectations and forecasts for 2024. 9 Gt of CO₂, following an increase of 1. The global emissions intensity of electricity generation is on a contracting trend, with a record 3% reduction in 2024 compared to 1% in 2023. It presents current trends and implications for electricity sources and power sector emissions in the near. Global renewable power capacity is expected to double between now and 2030, increasing by 4 600 gigawatts (GW). u2028A total of 72,2 gigawatts (GW) of new capacity were added between January and June 2025, following 44,1 GW installed in the first half of. Europe now has 291 GW of wind power capacity, with 254 GW onshore and 37 GW offshore. The EU-27 has 236 GW of wind power capacity.



Article Content

Flexibility – Electricity 2026 – Analysis

They can support the integration of wind and solar power by responding quickly to provide system balancing and grid support services, contribute to security of

Wind Turbine Cost Guide 2025: Complete Pricing

The wind energy sector is experiencing unprecedented growth in 2025, with global wind capacity expected to reach new heights. Whether you're a

Wind Turbine Operation and Maintenance Service | Siemens Gamesa

With more than 40 years of experience in the wind power business, when you choose Siemens Gamesa, you're choosing established technology for maximum profitability and proven reliability.

Wind industry installs record capacity in 2024 despite

23 April, London | The Global Wind Energy Council's flagship Global Wind Report released today shows that 2024 was a record year for new capacity, with 117

Technology: Solar PV and wind – Global Energy Review 2026 –

Renewable capacity expansion in China continued to increase in 2025, reaching a new record with nearly 500 GW of additions, accounting for over 60% of global growth. Last year, China alone

Press releases | Hydro-Québec

Over \$5 billion to boost the involvement of Indigenous communities in major wind power projects May 20, 2026, General news Hydro-Québec – Issue of Medium Term Notes 3.60% Due

"The Spanish Electricity System in 2025": Electricity demand ...

The demand for electrical energy in Spain increased in 2025 and registered a 2.8% rise. Factoring in the calendar effect and temperatures, this increase was 1.6%. This year, nearly 10 new GW of installed

Record 165 GW of wind power capacity added in 2025, led by China ...

LONDON, April 20 (Reuters) - The global wind industry installed a record 165 gigawatts of new capacity last year, up 40% from 2024 and mostly driven by China, a report by the Global Wind...

Renewable Power Generation Costs in 2023

The new renewable capacity added since 2000 is estimated to have reduced electricity sector fuel costs in 2023 by at least USD 409 billion, showcasing the benefits renewable power can provide in terms

eeNews Power ...

ROHM has introduced its 5th-generation silicon carbide devices, aimed at cutting conduction losses in demanding

Wind power generation, 2025

Annual electricity generation from wind is measured in terawatt-hours (TWh) per year. This includes both onshore and offshore wind sources.

WWEA Half-year Report 2025: Global Wind Power Growth

The addition of over 72 GW of new capacity globally demonstrates the sector's resilience and the trust that governments, investors, and communities continue to place in wind power as a

Installed solar energy capacity

This data is based on the following sources The renewable power capacity data represents the maximum net generating capacity of power plants and other installations that use

Global Electricity Review 2026

Solar, wind, hydropower and other renewable sources together contributed more than a third of global electricity generation for the first time in the modern power system.

Energy Transition: Where Are We Headed in 2026?

First, China's transition to competitive renewable auctions and pricing reforms has driven down power costs and bolstered investor confidence, leading

Latest wind energy data for Europe: Autumn 2025 – WindEurope

This autumn update outlines the latest data for wind energy in Europe and our expectations for the rest of the decade. Europe now has 291 GW of wind power capacity, with 254

Power – Breakthrough Agenda Report 2025 – Analysis

Breakthrough Agenda Report 2025 - Analysis and key findings. A report by the International Energy Agency.

Wind Energy Capacity Surpasses 50% grid share Worldwide

In a historic milestone for the global energy transition, wind power capacity has surpassed 50% of grid share in multiple countries worldwide during 2024-2025. This achievement

UK Wind Energy Database (UKWED) | RenewableUK

Discover live statistics on onshore and offshore wind energy projects in the UK, powered by RenewableUK's EnergyPulse platform.

Politics

Bloomberg delivers business and markets news, data, analysis, and video to the world, featuring stories from Businessweek and Bloomberg News on everything pertaining to politics

US Renewables Surpass 50% of Electricity Generation

It happened because solar and wind capacity has been growing faster than official projections predicted for consecutive years while coal and gas generation has been declining steadily as aging ...

Electricity 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 renewable thermal.

Executive summary - Renewables 2025 - Analysis

In more than 80% of countries worldwide, renewable power capacity is set to grow faster between 2025 and 2030 than it did over the previous five-year period.

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