

Total installed solar and wind power capacity in kilowatts



Overview

12 -- China's newly installed solar and wind power capacity exceeded 430 million kilowatts in 2025, an increase of 22 percent year on year, hitting a record high, National Energy Administration (NEA) data showed on Thursday. This surge propelled the cumulative grid-connected capacity. The latest monthly data on wind and solar capacity, including total installed capacity, month-on-month and year-to-date additions across 25 countries and economies, covering around 93% of global solar capacity and 92% of global wind capacity. This includes solar photovoltaic and concentrated solar power. IRENA (2025) – processed by Our World in Data Measured in kilowatt-hours per person. Here, energy refers to primary energy using the substitution. At the end of 2024, global renewable power capacity amounted to 4 448 GW. Renewable hydropower¹ and wind energy accounted for most of the remainder, with total capacities of 1. In 2022, we installed 56 GW of wind and solar capacity in the EU, which represents a 16% increase from 2021 (353 GW).



Article Content

Electric Power Monthly

Includes hydropower, solar, wind, geothermal, biomass and ethanol. Uranium fuel, nuclear reactors, generation, spent fuel. Comprehensive data summaries, comparisons, analysis,

China's newly installed wind, solar power capacity up 22% in 2025

China's newly installed solar and wind power capacity exceeded 430 million kilowatts in 2025, an increase of 22 percent year-on-year, hitting a record high, National Energy Administration

Solar power in Germany – output, business & perspectives

Quick facts Number of solar arrays installed: 5 million (April 2025) Total capacity installed: 104 GWp (April 2025) Newly added capacity in 2024: ca.

Renewable Energy Statistics: Global Capacity and Growth

Comprehensive renewable energy statistics covering global solar, wind, hydro, and geothermal capacity, growth rates, investment data, and cost

Installed solar energy capacity

The renewable power capacity data represents the maximum net generating capacity of power plants and other installations that use renewable

Solar energy

The total installed capacity of solar PV reached 1 865 GW globally by the end of 2024, representing a remarkable increase from 710 GW at the end of 2020. Over 451 GW of new solar PV capacity was

China Adds Power 8x More Than the US in 2025, with

China's energy investment hit nearly \$500B in 2025 as power capacity surged to 3.9 TW, led by massive wind and solar expansion.

China's newly installed wind, solar power capacity up 22 pct in 2025

This surge propelled the cumulative grid-connected capacity of wind and solar power to 1.84 billion kilowatts, accounting for 47.3 percent of the country's total installed power capacity and

Renewable Energy Is Undergoing Major Technology Upgrades

Technological progress has reduced the costs of renewable energies such as solar, wind and green hydrogen, making them more economically viable and competitive. Attention has shifted

Installed solar energy capacity

Total solar (on- and off-grid) electricity installed capacity, measured in gigawatts. This includes solar photovoltaic and concentrated solar power.

Forecast for New Energy Power Generation in 2025:

The report highlights the accelerating demand for renewable energy sources, which is crucial for addressing climate change. Key insights include the

By 2025, all new electricity consumption in China will be met by green ...

It is expected that by 2026, the total installed capacity of wind and solar power in China will increase by about 300 million kilowatts, and the newly added grid connected installed capacity of

Construction cost data for electric generators installed in 2023

Average construction cost is based on the nameplate capacity weighted average cost per kilowatt of installed nameplate capacity. Total capacity is the sum of the nameplate capacity of

China's Non-Fossil Power Capacity Overtakes Coal in Historic Shift

China's total installed power generation capacity climbed 16.1% year-on-year to 3.89134 billion kilowatts in 2025. Solar power capacity exceeded 1.2 billion kilowatts, reaching 1.20173 billion kilowatts, up

Renewable Energy Capacity Statistics 2025

The renewable power capacity data shown in these tables represents the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce

Renewable Capacity Highlights 2025

Solar, in line with the previous year, accounted for the largest share of the global total, with a capacity of 1 865 GW. Renewable hydropower¹ and wind energy accounted for most of the remainder, with total

Monthly Wind and Solar Capacity Data

This dataset contains monthly capacity data for wind and solar, including both total installed capacity as well as month-on-month and year-to-date additions. It covers 25 countries

Electricity generation, capacity, and sales in the United States

Estimates of small-scale solar PV capacity and generation by state and sector are included in the Electric Power Monthly. As of the end of 2023, California had about 35% of total U.S.

Wind and Solar Capacity Data Explorer

About Ember's Wind and Solar Capacity Data Explorer allows users to visualise Ember's dataset on wind and solar capacity, including total installed capacity as well as month-on-month and

Executive summary - Renewables 2023 - Analysis

In 2023, an estimated 96% of newly installed, utility-scale solar PV and onshore wind capacity had lower generation costs than new coal and natural gas plants. In addition, three-quarters of new wind and

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

Technology: Solar PV and wind In 2025, global annual renewable capacity additions increased by 16%, reaching 800 GW despite challenges linked to supply chain strains, grid connection delays, financial

National Energy Administration: By the end of 2025, the total installed ...

Among them, the installed capacity for solar power generation was 1.2 billion kilowatts, an increase of 35.4%, and the installed capacity for wind power generation was 640 million kilowatts, an

China Nears Historic Power Shift as Solar Overtakes

China's total installed power capacity is forecast to reach about 4.3 terawatts by the end of 2026 as China expects 300 GW to come from primarily

Falling green energy costs to propel growth

By 2035, the total installed capacity of wind and solar power is to reach at least six times the 2020 level, striving toward an ambitious target of 3.6 billion kilowatts to meet the country's

Wind power in China

China has the largest installed capacity of any nation and continued rapid growth in new wind facilities. With its large land mass and long coastline, China has

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://tommiemeyer.co.za>

Email: sales@tommiemeyer.co.za

Phone: +49 176 8342 5619

Address: Kurfürstendamm 21, 10719 Berlin, Germany

This document is for informational purposes only. Specifications subject to change without notice.

