

# Solar power generation installed capacity distribution by region

How much solar power does China have in 2024?

NREL | 6 Sources: IEA, Snapshot of Global PV Markets: 2025, April 2025; IEA, Trends in Photovoltaic Applications: 2024, October 2024 In 2024, solar contributed 267 GWac (309-357 GWdc), or 64% of new generation capacity, in China, and cumulative solar capacity reached 852 GWac (1,000-1,048 GWdc), or 26% of total cumulative capacity.

How many gigawatts of solar power are there in China?

Only in that last year, installations increased by almost 40 percent. In 2024, cumulative solar PV capacity reached some 886 gigawatts in China alone. Investments in solar photovoltaic energy have grown during the last years and the technology stands out as the most heavily funded renewable energy source.

Which countries installed the most solar power in 2024?

Pakistan emerged as a key market with an estimated 17 GW, while Brazil installed 14.3 GW. 34 countries installed more than 1 GW of new capacity in 2024; 23 countries now exceed 10 GW in total installed capacity. Utility-scale PV led global installations, but distributed PV remained strong in key markets including Germany, Türkiye, and Brazil.

How many GWAC will solar power be in 2024?

At the end of 2024, cumulative PV capacity in the United States was approximately 175 GWac. EIA analysts project that, under laws and regulations that were in effect as of December 2024, cumulative utility-scale PV capacity will reach 305-655 GWac by 2035 and 480-996 GWac by 2050.

In 2024, it was estimated that solar photovoltaic (PV) systems with an output of around 1.16 terawatts were newly installed in Asia, making this the leading region in the world based on ...

Chinese Generation Capacity Additions by Source In 2024, solar contributed 267 GWac (309-357 GWdc), or 64% of new generation capacity, in China, and cumulative solar capacity ...

Share of new solar PV capacity forecast 2024-2029, by region Distribution of solar PV capacity additions worldwide in 2024, with a forecast until 2029, by region

Official statistics by year of solar electricity installed capacity (GW). The values are presented in tables and charts with calculations of changes and shares, and with extensive analytical functionality.

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and ...

Cumulative installed solar capacity, measured in gigawatts (GW).

Global Solar Power Tracker The Global Solar Power Tracker is composed of worldwide facility-level data on

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utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country ...

The European Union installed around 60 GW of solar PV capacity in 2024, similar to in 2023. This was more than double the annual capacity added in 2021, before the energy crisis ...

Distributed solar PV capacity growth by country/region, China, North America, Europe, Asia Pacific, Latin America, MENA, Sub-Saharan Africa, Eurasia, 2007-2024, main and accelerated

Curtailed is increasingly prevalent in high-penetration markets, underlining the need for grid flexibility, storage, and new business models. PV represented more than 75% of all new renewable generation ...

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