

# How big is the solar power generation capacity

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

Solar is the leading resource for permitted plants, accounting for more than 70% of the 78,039 MW of permitted generation capacity. Wind and natural gas account for another quarter of capacity in this ...

Globally, renewable power capacity is projected to increase almost 4 600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). Growth in utility-scale and distributed ...

Solar accounted for 58% of all new electricity-generating capacity added to the US grid through the third quarter of 2025, with more than 30 GW installed. Solar and storage, combined, ...

Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2.2 terawatts in 2024. Only in that last year, installations increased by almost 40 ...

Utility-scale solar capacity reached 128.6 GW in March 2025, growing from 96.9 GW in March 2024, while small-scale solar, projects of 1 MW or less, reached 55.7 GW in March 2025, ...

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

Talatan Solar Park (in Gonghe County, Qinghai, China) is the largest solar park in the world with a capacity of 16,000MW as of 2023 and a planning area of 609 km<sup>2</sup>, which is close to the land area of ...

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Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the ...

A new IEEE report shows solar dominated new generation in 2024, with 70% of added global capacity from PV and record installations in China and the United States.

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