

# Solar cell power generation capacity



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### Solar PV Energy Factsheet

Solar energy can be harnessed two primary ways: photovoltaics (PVs) are semiconductors that generate electricity directly from sunlight, while solar thermal technologies use sunlight to heat water for

### Solar Market Insight Report Q4 2025

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,



### America's Electricity Generation Capacity, 2025 Update

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

### Solar Energy: Global Capacity and Growth Trends

Solar energy is the fastest-growing electricity source globally. Explore installed capacity, cost trends, top countries, technology types, and future projections.





## [FERC: Renewables made up 88% of new US power generating capacity](#)

Solar accounted for more than 72% of US electrical generating capacity added in 2025, with another 16% from wind, according to belatedly released data from the Federal Energy Regulatory

## [Solar, battery storage to lead new U.S. generating capacity additions](#)

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility



## **Solar Power by Country 2026**

Data and analysis including a list of solar power in every country in the world, countries with the most solar power, and countries that generate the highest percentage of their electricity from solar power.

## **Solar power by country**

The worldwide growth of photovoltaics is extremely dynamic and varies strongly by country. In April 2022, the total global solar power capacity reached 1 TW, increasing to 2 TW in 2024. The top



## **Solar accounted for 70% of new global power capacity in 2024**

Approximately 70% of newly installed global electricity generating capacity for 2024 came from PV, with record installations in China (278

GW) and the U.S. (38 GW). Global PV installed

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