

# What is the solar power generation capacity

## DISTRIBUTED PV GENERATION + ESS



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### Renewable electricity - Renewables 2025 - Analysis

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 ...

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### Solar Capacity by State 2026

This report summarizes the latest statistics on solar power capacity by state and highlights the top U.S. states in solar power generation.



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### Installed solar energy capacity

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



## 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 ...



### Electricity generation from U.S. solar grows 28% year-over-year

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, ...

### 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 ...



### What is Generation Capacity?

Capacity is not the same as electricity generation. Power plants have a capacity to produce a certain amount of power during a given time, but if they are taken offline (i.e. for ...



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## 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.



## 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 ...

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## 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 hydropower<sup>1</sup> and wind energy accounted for most of the remainder, with total ...

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