

The number of solar power generation installed in the United States



Overview

As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovoltaic (utility and small scale) and concentrated solar power capacity combined. [3] This capacity is exceeded only by China and the European Union. 8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303. With over 54 GW of solar installed, enough energy to power over 15 million homes. 6% in 2027, when it reaches an annual total of 4,423 BkWh.

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[Solar power in the United States](#)

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt ...



US Solar Power Industry

According to the U.S. Department of Energy, the United States added 20,2 gigawatts (GW) of solar energy capacity in 2022, bringing its total installed capacity to 142.3 GW. This solar capacity is ...



[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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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, ...



[America's Electricity Generating Capacity](#)

Nearly 469,000 MW of new generation capacity is under development in the United States. Sixty-six percent of the capacity that is most likely to come online, permitted plants and plants that are under ...



[Solar providing more than 75% of nation's new power generation ...](#)

In the first nine months of 2025, more than three-quarters of the electrical generating capacity added in the United States was solar power, according to new data published by the ...



[U.S. solar power generation 2024, Statista](#)

In the United States, an exceptionally high number of solar-related jobs are based in California. With a boost from state legislation, California has long been a forerunner in solar



[Solar power generation drives electricity generation growth over the](#)

We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

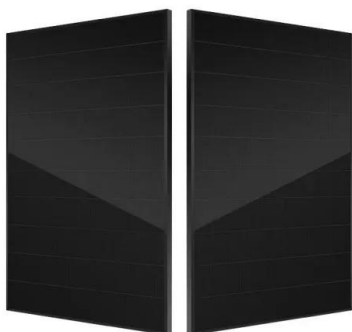


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Utility-scale solar capacity reached 128.6 GW in March 2025, growing from 96.9 GW in March 2024, while small-scale solar, projects of ...

[Solar State By State - SEIA](#)

With over 54 GW of solar installed, enough energy to power over 15 million homes. Texas has the fastest growing solar economy with the largest utility-scale solar and energy storage projects in the ...



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In addition, EIA estimates that at the end of 2023, the United States had 47,704 MW of small-scale solar PV generation capacity, and that about 74 billion kWh were generated by small ...

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