

Solar generator capacity in the United States

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 ...

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

Together, solar and battery storage account for 81% of the expected total capacity additions, with solar making up over 50% of the increase. Solar. In 2024, generators added a record ...

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, ...

468,582 MW of new generation capacity is under development in the United States, which is comparable to the total capacity under development for the last two years. This includes 143,247 MW ...

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther readingSolar 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-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovol...

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027. Almost 70 ...

Solar and Storage Lead New Capacity Additions Solar and storage have become the backbone of new electricity infrastructure in the U.S. Combined, these technologies have represented 85% of new ...

In 2024, 66% of all new electricity generation capacity in the U.S. came from solar. [3] The United States conducted much early research in photovoltaics and concentrated solar power.

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 ...

As the effects of supply chain challenges and trade restrictions ease, solar continues to outpace capacity additions from other generating resources. More than half of the new utility-scale ...

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