



Solar generator installed capacity in the United States

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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 ...

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther readingA 2012 report from the National Renewable Energy Laboratory (NREL) described technically available renewable energy resources for each state and estimated that urban utility-scale photovoltaics could supply 2,232 TWh/year, rural utility-scale PV 280,613 TWh/year, rooftop PV 818 TWh/year, and CSP 116,146 TWh/year, for a total of almost 400,000 TWh/year, 100 times the consumption of 3,856 TWh in 2011. For ...

An insolation map of the United States with installed PV capacity, 2019 A 2012 report from the National Renewable Energy Laboratory (NREL) described technically available renewable energy resources ...

Installed solar capacity in the U.S. now totals about 220 GW, enough to provide over 7% of the nation's electricity. This continues a decade-long trend of rapid growth in solar power.

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 ...

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information Administration's (EIA) latest release of its Electric ...

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 ...

In the last decade, solar has grown with an average annual rate of 26 percent, reaching a capacity of over 138 gigawatts in 2023. In that same year, solar energy accounted for 55 percent of...



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Solar has become the largest renewable source of installed power capacity in the United States, surpassing wind after 27 consecutive months as the leading source of new grid additions, ...

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

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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