

The latest government data discusses U.S. solar energy capacity, efficiency, and available homeowner tax credits as well as renewable energy trends.

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...

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. o In 2024, solar represented ...

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, ...

Solar's share of U.S. electricity generation has risen from less than 0.1% in 2010 to over 8% today. Solar has grown to play an increasing role in many states, now making up more than 20% of electricity ...

From approximately \$76 per watt in 1977 to less than \$1 per watt today, this decrease has led to a broader adoption of solar technology in both residential and commercial sectors.

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 ...

About this data Annual percentage change in solar power consumption Figures are based on gross generation and do not account for cross-border electricity supply.

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 ...

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.

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 ...

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