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Title: Current status of solar power generation in the United States

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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 latest Short-Term Energy Outlook (STEO), we expect that U.S. renewable capacity additions--especially solar--will continue to drive the growth of U.S. power generation over the next ...

In the USA, Texas and California use the most solar power. They are expected to account for almost half of the new utility-scale capacity additions in 2025. Other states that are ...

In September, 98% of new electric generating capacity in the United States came from solar, marking 25 consecutive months where solar led other energy sources.

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 deployment and electric vehicle (EV) sales broke records in 2023 and 2024. Renewables now dominate new power generation capacity, while new domestic clean energy ...

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 ...

Almost 70 gigawatts (GW) of new solar generating capacity projects are scheduled to come online in 2026 and 2027, which represents a 49% increase in U.S. solar operating capacity ...

Current status of solar power generation in the United States

The current fuel mix causes multiple environmental impacts, including climate change, acid rain, freshwater depletion, hazardous air pollution, and radioactive waste.

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Find up-to-date statistics and facts on the solar photovoltaic industry in the United States.

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