



# Solar thermal power generation in the United States

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Explore the latest solar market insights and policy updates in all 50 states and Washington, D.C. All market data is current through Q3 2025. California leads as the top solar state. With over 54 GW of ...

Concentrating solar power (CSP) projects in United States are listed below alphabetical by project name. You can browse a project profile by clicking on the project name. You can also access ...

In 2024, net solar power generation in the United States reached its highest point yet at 218.5 terawatt hours of solar thermal and photovoltaic (PV) ...

## Department of Energy

In 2022, the United States saw a significant rise in solar power generation, with 5730 utility-scale solar PV plants and 13 solar thermal plants producing 146 terawatt-hours (TWh) of ...

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information ...

The Solar Futures Study used the Regional Energy Deployment System (ReEDS) model, a capacity planning model for the electric power sector developed by NREL,<sup>5</sup> to make future projections of ...

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 ...

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



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photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovol...

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