

US solar thermal power generation is unfinished



Overview

One of the most ambitious solar projects in history is quietly heading for shutdown after just a decade of operation. The Ivanpah Solar Power Facility in California's Mojave Desert was once hailed as a symbol of America's clean energy future. 2 billion, utility-scale solar thermal plant that. Electricity generation by the U. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. Renewables now dominate new power generation capacity, while new domestic clean energy manufacturing facilities are popping up. In the topsy-turvy world of US energy policy, solar power has been pushed aside while other renewables — namely hydropower, biomass, and geothermal — have earned the support of President Donald Trump's “American Energy Dominance” program.

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[The Role of Concentrating Solar-Thermal Technologies in a](#)

The Solar Futures Study, initiated by the U.S. Department of Energy (DOE) Solar Energy Technologies Office and led by the National Renewable Energy Laboratory (NREL), envisions how, over the next ...

[A Decade of U.S. Solar Growth](#)

Solar power is the fastest-growing source of renewable energy in the U.S., due in part to rapidly declining costs coupled with financial incentives such as those in the Inflation Reduction



[United States \(US\) , Culture, Facts & Travel ,](#)

The United States is a country primarily located in North America. It consists of 50 states, a federal district, five major unincorporated territories, nine Minor Outlying Islands, and 326 Native ...

[Assessing the United States' Solar Power Play](#)

Solar can play a crucial role in meeting the United States' climate and energy goals. However, the United States needs clearer objectives for its solar industrial strategy for it to succeed.



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[Concentrating Solar-thermal Power Program Overview](#)

Accelerate solar deployment and associated job growth by opening new markets, reducing regulatory barriers, providing workforce training, and growing U.S. manufacturing.



[Solar power in the United States](#)

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther reading

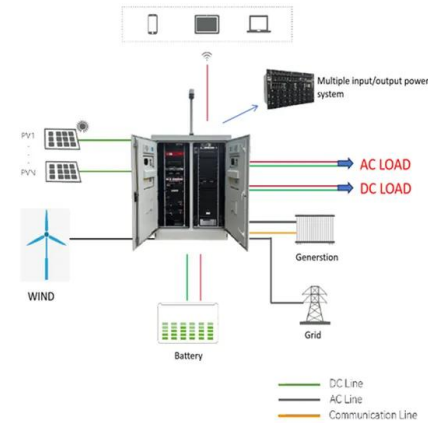
Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated



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

[Solar power in the United States](#)

The 280 MW Solana Generating Station is a solar power plant near Gila Bend, Arizona, about 70 miles (110 km) southwest of Phoenix, completed in 2013. When commissioned it was the largest parabolic ...



[The United States: Map and States](#)

The United States of America is composed of 50 states. The country has 48 contiguous states, which are located in the mainland and are connected to each other, and two non-contiguous states, Alaska ...

[The U.S. and its government](#)

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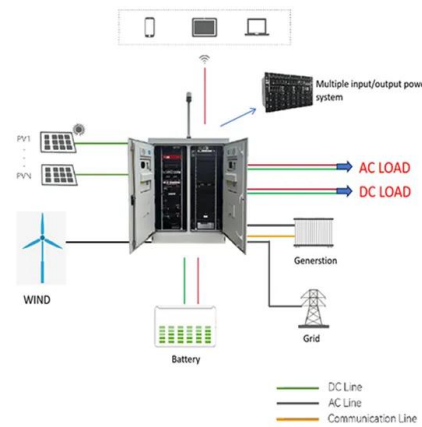
[United States , History, Map, Flag, & Population, Britannica](#)

Besides the 48 conterminous states that occupy the middle latitudes of the continent, the United States includes the state of Alaska, at the northwestern extreme of North America, and the ...



United States

The United States of America (USA), also known as the United States (U.S.) or America, is a country primarily located in North America. It is a federal republic of 50 states and a federal capital district, ...



[Growth of Renewable Energy in the US , World Resources Institute](#)

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 ...

[U.S. solar power generation 2024, Statista](#)

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) power.



[Solar power generation drives electricity generation growth over the](#)



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 ...

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[US Expects To Add 32 Gigawatts Of Solar Power In 12 Months](#)

In the topsy-turvy world of US energy policy, solar power has been pushed aside while other renewables -- namely hydropower, biomass, and geothermal -- have earned the support of ...

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[Why the US's biggest solar megaproject is shutting down after a decade](#)

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