

# How much solar power does the United States generate



## Overview

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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. EIA estimates that about 0. Natural gas is used in steam turbines and gas turbines to generate electricity. 8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale. Utility-scale solar generation grew to 232 TWh in the rolling 12 months through March 2025, according to the latest data from the Energy Information Administration. It accounted for 53% of new generating capacity in 2023, the first time in 80 years that a renewable energy resource was a majority of capacity additions.

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### U.S. Renewable Energy Factsheet

Over 7% of U.S. electricity comes from solar energy, nearly 8 times its share a decade ago. 34 Solar capacity has grown at an average of 28% annually over the last decade, reaching 248 GW ...

### Solar Capacity by State 2026

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



Standard 20ft containers



Standard 40ft containers

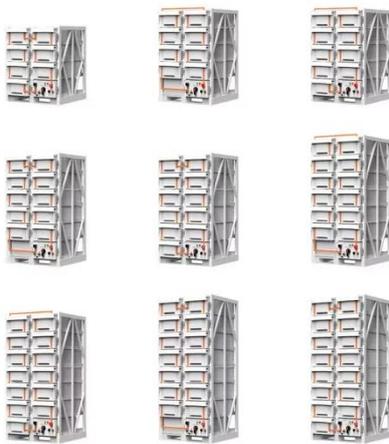


### The Real Solar Power of the USA: You Won't Believe How Much ...

In 2024, the USA reached an all-time high in solar power capacity, adding 50 GW and generating 303 TWh of electricity. This article breaks down the explosive growth of solar energy in ...

### Solar power in the United States

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.



### A Decade of U.S. Solar Growth

By the end of 2023, the U.S. had an estimated total capacity of 139 gigawatts (GW) from utility- and small-scale solar installations -- an increase of more than 26 GW or 23% from 2022.

### Solar energy on the rise in America

EIA forecasts that Texas and California will account for almost half of the new utility-scale solar capacity addition in 2025 and that five other states (Indiana, Arizona, Michigan, Florida, and ...



### Electricity in the U.S.

Solar photovoltaic and solar thermal power plants provided about 4% of total U.S. utility-scale electricity and accounted for 18% of utility-scale electricity generation from renewable



sources ...

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## Electricity generation from U.S. solar grows 28% year ...

In total, solar capacity in the United States grew 26% year-over-year to 184 GW.



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## How Much Energy Is Produced In America By Solar Power

Solar energy accounted for 5.6% of electricity generation in the U. S. in 2023, up from a 4.8% share a year earlier. California was the state with the largest percentage of its electricity generation covered ...

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## Solar power in the United States

Overview  
Concentrated solar power (CSP)  
Solar potential  
History  
Solar photovoltaic power  
Government support  
See also  
Further reading

One of the first applications of concentrated solar was the 6 horsepower (4.5 kW) solar powered motor made by H.E. Willsie and John Boyle in 1904. An early solar pioneer of the 19th and 20th century, Frank Shuman, built a demonstration plant that used solar power to pump water using an array of mirrors in a trough to generate steam. Located in Philadelphia, the solar water pump station wa...



### **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

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