

## European Solar Energy Storage

# What state use more solar energy



## Overview

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California came in as the best state for solar energy for good reason. The state has the largest solar energy usage, with over 28% of its energy deriving from solar. With 146 clear days, the Golden State is the fourth sunniest state in the nation, so it's no wonder that a whopping 38.2% of California homes are powered by.

Nevada ranks second on our list because the state has the most solar installations in the country, the most solar jobs and the most number of homes.

Utah is third on our list and third in the country for solar affordability—a solar installation costs nearly 12.7% of the median household income. The state has 125 days of clear skies and.

Hawaii ranks fifth for solar energy because it is the most affordable state for going solar, with the average solar installation taking up 12.40% of the.

Arizona is the best state for solar energy when it comes to the amount of sunlight homes can receive. The Copper State has nearly 200 days of clear weather per year and produces over 115.

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California is the best state overall for solar energy, while West Virginia is the worst. Many states fall somewhere in between for many different reasons, including cost, the number of solar jobs, the ratio of solar installations to household and more. If you're looking to install solar panels on.

California once again takes first place among the top states generating electricity from solar power this month. The Golden State produced 24.1% of the United States' total of 38,965 thousand megawatt-hours, according to

ChooseEnergy.com's August 2025 solar energy generation report. The report.

Nevada and California are among the states with the highest share of utility-scale solar generation as a percent of their overall electricity mix — 23 % and 19 %, respectively. California, however, leads the way in total solar (both utility- and small-scale) generation, producing over 68, 800 GWh.

It is still #1 in terms of total installed solar capacity, residential solar capacity, and non-residential distributed solar power capacity (small solar power systems not on homes). However, it is actually 2nd when it comes to utility-scale solar power. When you dig down to per capita capacity.

Nevada leads the way when weighing net solar PV generation by the state's population, with 32.5 thousand megawatt hours per 100K people. California has set a goal of achieving 100% clean energy by 2045. Since 2021, Florida, California and Texas have consistently ranked as the top states for solar.

But as the U.S. continues to embrace solar expansion, a few states stand out for their growth in solar interest. Massachusetts is leading all other states in the U.S. in the number of homeowners per capita requesting solar quotes in 2025, according to the latest EnergySage Marketplace data. So far. Which states generate the most solar energy?

California once again takes first place among the top states generating electricity from solar power this month. The Golden State produced 23.2% of the United States' total of 35,440 thousand megawatt-hours, according to ChooseEnergy.com's July 2025 solar energy generation report.

Which state has the most solar-powered homes?

The state with the most solar-powered homes: Nevada has 426 homes per 1000 households powered by solar. Most affordable state for solar energy: Hawaii solar installation costs account for 12.40% of the state's median household income. 1. California California came in as the best state for solar energy for good reason.

Which states are the best for solar?

California is one of the best states for solar in the USA right now, with a high adoption rate and a high solar interest. It has over 32,394 MW of installed solar capacity and can power more than 8.4 million homes with renewable energy. Texas is the second-best state for solar power.

Which state has the highest solar power capacity in 2023?

According to the U.S. Department of Energy, by the end of 2023, Texas is expected to become the state with the highest amount of annually installed solar power capacity from utility-scale facilities.

Which states have the highest solar rates?

CA and TX have the highest residential solar installation rates and the highest installed solar capacity overall. This is due to their high insolation, strong community support, and Renewable Portfolio Standard which mandates that they produce up to 60% of their energy from renewables by 2030.

What percentage of State Electricity is generated by solar energy?

In 2022, solar energy contributed 19% of the state's utility-scale electricity net generation. When adding small-scale generation, solar energy accounted for 27% of the state's total electricity generation. The solar industry employs more than 78,000 throughout the state.

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### These 5 states are all in on solar in 2025

Massachusetts is the top state for homeowners per capita requesting quotes for solar in the first quarter of this year--see what other states made the list.

### The Best And Worst States for Solar Energy

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### Solar Energy by State August 2025 , Choose Energy

California is the top state in this list, with about 54.2% of its electricity coming from solar generation, Nevada is second on the list with 41.5% of it's electricity coming from solar energy.

### U.S. Energy Information Administration

California stretches two-thirds of the way up the

U.S. West Coast. At its greatest distances, it is more than 1,040 miles long and 560 miles wide. 11 With such great distances to travel, transportation accounts for the largest share of the state's energy consumption. 12 Californians have more registered motor vehicles and travel more vehicle miles than residents ...



## US States That Produce the Most Solar Energy: ...

Solar is an important element to the US's long-term energy needs but not all areas are equal. Find out the top 15 solar-producing states.

## Renewable Energy Production by State (2025)

Solar energy production in the U.S. increased by 19.7%, the highest rate of any renewable energy category. Texas created the most renewable energy of any state, producing 36,270 thousand MWh in Q3 2023, ...



## What are the Best States for Solar Energy? [2025 ...

Find out which states are leading the way in solar electricity generation, and why they're doing so well while some other states fail to meet their potential.

## Which State Leads in Solar Energy Output in the U.S.?

California is ahead in using the sun for power, producing more than any other state. This past year, it made over 68,800 gigawatt-hours (GWh) of solar electricity.



## California Utilities Produce More Solar Energy Than ...

Solar farms are being shut off, losing more than twice as much potential power than in 2021. The surplus would be worse if utilities weren't paying other states to take some of the excess.

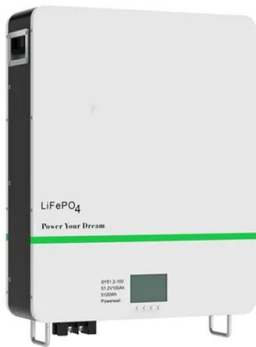
## Leading the Charge: The Top 5 Solar States of 2023

Texas was at the top of the solar leaderboard in 2023, installing more solar than any other state. Since 2021, Texas has installed over 15 GW of new solar capacity which is ...



## The Top 5 States in the USA for Solar Power

SEIA also notes that solar energy now provides approximately 30% of the Golden State's electricity! Texas is second in the nation in terms of total installed solar power capacity.



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## Chart: Which US states generate the most solar and wind energy?

Chart: Which US states generate the most solar and wind energy? A new report tracks how renewable energy is transforming the nation's electricity mix, state by state.

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## Top Solar Energy States in the US: An Overview and ...

Solar energy is becoming an increasingly important source of renewable energy in the United States, with many states adopting policies and incentives to promote the development and use of solar technology. While ...

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