

European Solar Energy Storage

Which states use solar energy the most



Overview

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 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 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 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.

How much solar power does California have?

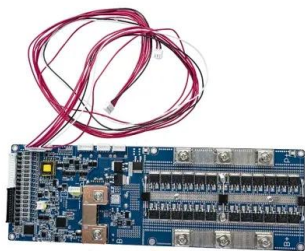
Solar power capacity is steadily expanding throughout the United States, as more than half of the states now boast 1 gigawatt (GW) or greater of installed solar. California has set an ambitious goal of achieving 100% clean energy by 2045. The state has been at the forefront of renewable energy generation and

solar power generation in particular.

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 use solar energy the most



[Solar State By State - SEIA](#)

Solar State By State Explore the latest solar market insights and policy updates in all 50 states and Washington, D.C. All market data is current through Q4 2024.

[U.S. energy facts explained](#)

Energy sources are measured in different physical unit: liquid fuels in barrels or gallons, natural gas in cubic feet, coal in short tons, and electricity in kilowatts and ...



Who's Leading in Renewable Energy by State?

Discover the top 10 states leading in renewable energy by generation, investment, and innovation. Learn about who's powering a sustainable future in 2025.

Renewable Energy Production by State (2025)

Western states produced the most renewable

energy on average in the third quarter of 2023. This region had four of the top 10 states with the highest renewable energy ...

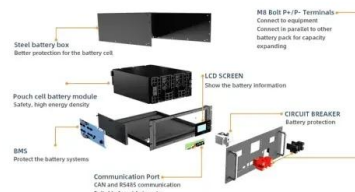


Chart: Which US states generate the most solar and ...

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.

Solar Energy by State August 2025 , Choose Energy

The following table ranks the best and worst states for solar energy production (shown in thousand megawatt-hours) in April and May, number 1 represents the best state for ...



10 States That Produce the Most Renewable Energy

Texas led all states in overall renewable energy production in the first quarter of 2022, according to data from the U.S. Energy Information Administration.

Most Friendly States for Solar Energy (2022 Report)

Keeping track of which states support solar energy can be difficult. To clear things up, we conducted a study on the most solar-friendly states.

INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



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

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Renewable Energy Production by State (2025)

U.S. renewable energy production increased by 4% from Q3 2022 to Q3 2023, growing to 199,576 thousand MWh. Solar energy production in the U.S. increased by 19.7%, the highest rate of any renewable energy ...



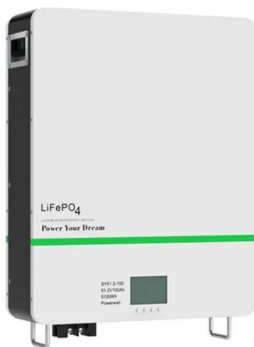
What are the Best States for Solar Energy? [2025 ...

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.



The Top 25 U.S. Corporations Using Solar Energy

Led by tech and retail giants, American companies are installing record levels of solar to power their operations and now account for 14% of all installed solar capacity in the United States, according to the Solar ...



Which U.S. states produce the most renewable energy?

The 7 states that generate the most renewable energy in America These states lead the way in renewable energy generation, using wind turbines, solar arrays, and more

What are the Best States for Solar Energy? [2025 Statistics]

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.



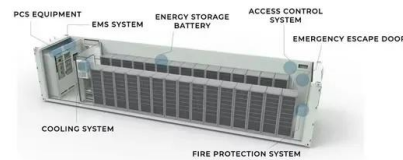


Renewable Energy Production by State (2025)

Western states produced the most renewable energy on average in the third quarter of 2023. This region had four of the top 10 states with the highest renewable energy production, including California in second place.

The Top 5 States in the USA for Solar Power

The Tarheel State is only 17th for residential solar power and 25th for non-residential distributed solar power, but it's 4th for utility-scale solar power, which goes a long way.



Solar generation was 3% of U.S. electricity in 2020, but we

...

Humans have been using solar energy for centuries and first produced solar-powered electricity in the United States in 1954. Currently, solar energy can generate electricity ...

The most (and least) solar friendly states in 2024

What makes a solar-friendly state? To find the most solar-friendly states, CNET ran each state through a scoring methodology considering eight categories. Each category ...



Chart: Which states rank highest for utility-scale solar?

Texas installed more solar capacity than any other state in 2023. But more solar panels do not necessarily make for a clean grid; natural gas and coal still account for 57 percent of Texas' electric supply. So which states get ...

What are the top 10 states for renewable energy?

This analysis includes a calculation of each state's wind, solar and geothermal energy production as a percentage of electricity sales and a map showing state-by-state progress over time. Here's a look at 2024's top 10 ...



The Top 5 States in the USA for Solar Power

In terms of per capita solar power capacity, Florida is 3rd when it comes to residential solar power capacity, 17th for non-residential distributed solar power capacity, and only 35th for

Leading the Charge: The Top 5 Solar States of 2023

State leaders must step up to encourage more solar and storage adoption in the near- and long-term if California is going to meet its 2030 clean energy goals. Everything is ...



The Top 5 States in the USA for Solar Power

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Where solar is found

Solar energy is sunshine Sunshine is radiant energy from the sun. The amount of solar radiation, or solar energy, the earth receives each day is many times greater than the ...



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.



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