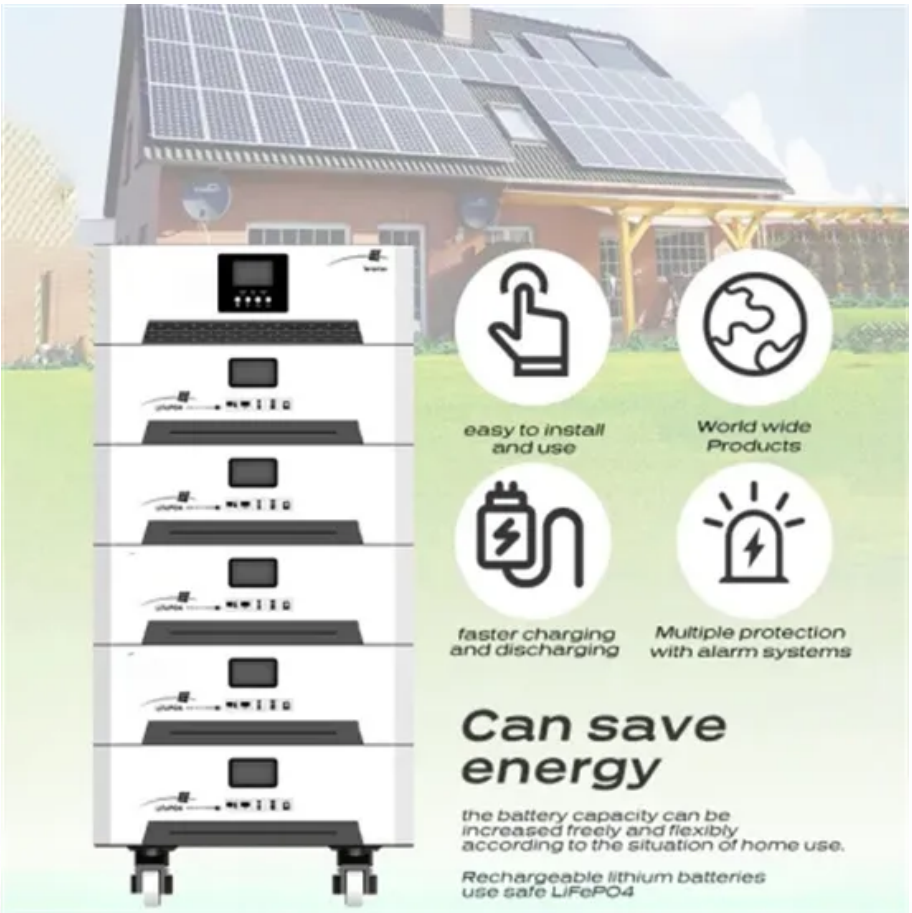
SOLARTECH

European Solar Energy Storage

What states use solar energy the most



Overview

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.

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.

Which state has the most solar jobs?

Nevada also has the most solar jobs, with 237.97 jobs per 100,000 residents. Nevada has the most solar-powered homes (426 homes per 1,000 households). Nevada ranks second for the most energy run by solar, at 26.17%. Nevada also has 158 clear days per year, the third highest of all states.

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.

What states use solar energy the most

The 11 Best and 6 Worst States for Solar

These rankings highlight the dynamic landscape of solar energy development across the United States, with each state implementing a combination of policies and ...

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 ...

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.

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

Find out which states are leading the way in solar

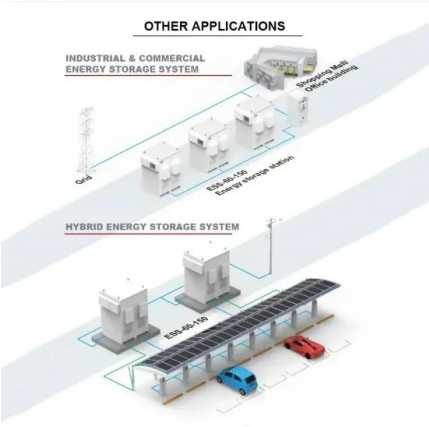
electricity generation, and why they're doing so well while some other states fail to meet their potential.

List of U.S. states by renewable electricity production

This is a list of U.S. states by total electricity generation, percent of generation that is renewable, total renewable generation, percent of total domestic renewable generation, [1] and carbon intensity in 2022.

States With the Most Solar Installations per Capita

Among the most popular green energy sources are solar, wind, and hydro energy. The amount of solar energy available makes it one of the most popular sources of renewable energy. Solar ...



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 ...

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What are the top 10 states for renewable energy?

Across the United States, renewable energy is on the rise. While states like Texas and California are often seen as the giants of renewable energy, many unexpected states are emerging as leaders in the race to 100% ...

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.

A Decade of Growth for U.S. Solar and Wind , Climate ...

Climate Central used the latest solar and wind energy data from the U.S. Energy Information Administration (EIA) to assess clean energy growth over the last 10 years (2015 to 2024) in all 50 states.

Best and worst states for solar industry growth , Choose Energy

As renewable energy grows in popularity - and associated prices, conversely, drop - states are competing to lead the charge to a new energy era.

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

Leading the Charge: The Top 5 Solar States of 2023

To celebrate this momentous year, SEIA is counting down the top five solar states of 2023 -- all of which are positioning themselves as national leaders in America's ...

The Top Solar States of 2024

The Top Solar States of 2024 Solar energy is surging in every corner of the country, helping lower utility bills and improve grid reliability in every state. A decade ago, only three states had more than 1 gigawatt (GW) of solar ...

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.

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.

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 ...

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.

The 11 Best and 6 Worst States for Solar

These rankings highlight the dynamic landscape of solar energy development across the United States, with each state implementing a combination of policies and incentives to drive solar adoption and contribute to ...

Top 10 U.S. States with the Highest Residential Solar Adoption

As the world shifts towards more sustainable energy sources, the United States has seen a significant increase in residential solar adoption. Homeowners across the country ...

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 ...

Where is Solar Power Used the Most in 2024?

The countries that use the most solar energy are not always the sunniest. China, The United States, Japan, India, and Germany top the list for 2024.

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.

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 ...

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