

What state produces the most solar power





Overview

Texas created the most renewable energy of any state, producing 36,270 thousand MWh in Q3 2023, a year-over-year increase of 22.2%. Fossil fuel production grew 1.4% to 790,144 thousand MWh of energy, nearly four times the amount produced by renewables. What Is Renewable Energy?

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In 2023, utility- and small-scale solar installations produced an estimated 238,121 gigawatt-hours (GWh) of electricity combined, a 16 percent increase over 2022. Meanwhile, utility-scale wind installations produced 425,235 GWh of electricity — a 2 % drop compared to 2022 due to lower wind.

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.

This article describes how the U.S. solar market is booming, and the top 10 solar states as of 2025, according to the Solar Energy Industries Association (SEIA). The use of solar energy is growing across the nation with a handful of states that have emerged as leaders and set the standard for a.

California has by far the greatest installed capacity of solar photovoltaic (PV)



power of any U.S. state. As of March 2025, the Golden State had a cumulative solar power capacity of over Log in or register to access precise data. gigawatts. Texas followed with a capacity of roughly Log in or.

California is the best state for solar energy due to its large usage and high solar interest. With over 28 of its energy coming from solar, California is the fourth sunniest state in the nation, and 38. 2 of its homes are powered by it. The Golden State has the greatest installed capacity of solar. Which state has the most solar energy?

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 PV installations.

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.

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.

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 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.



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[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 ...

[Who's Leading in Renewable Energy by State?](#)

As energy production by state continues to diversify, our wind power capacity can power 42 million households while our solar capacity can power 28 million. National clean energy progress is only possible thanks to ...



[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.

[Ranking the top 15 nations for solar energy capacity](#)

2) United States - 93.71 GW 1) China - 306.4 GW
The world will have to install 450GW of new solar capacity each year - most of it utility scale - for



the rest of this decade, with China and India to lead Asia to a roughly half ...



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[What are the Best States for Solar Energy? \[2025 ...](#)

Vermont, Idaho and Washington are the US states that have the greenest energy. The state of Vermont produces 99.6% of its energy from renewable sources, the state of Idaho 81.6 and Washington 80%. On the other ...



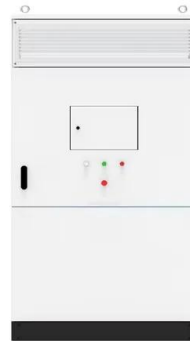
[The Top 5 Power-Generating Solar States \(And What ...](#)

What States Are Producing the Most Solar Power in the U.S.? If someone asked you to name the top five states generating the most solar energy in the US, you'd probably name those in the Southwest - the ones that get the ...



[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 ...



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