

# **What state generates the most solar power**





## Overview

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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 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.

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?

“Renewable energy is.

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In 2023, the United States generated approximately 4.18 trillion kilowatt-hours of total electricity at utility-scale power generation facilities, with renewable energy sources contributing roughly 21% of this total and solar power making



up 3.9%. Since 2010, solar power capacity in the United.

We've compiled a list of the states that generate the most renewable energy — using data from The Motley Fool, the U.S. government, and other sources. Continue reading to see which states made the list and how they source their energy. Florida is the second-largest producer of electricity after. 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 produces the most electricity?

Florida is the second-largest producer of electricity after Texas, most of which comes from natural gas. Still, the state generated enough renewable energy to make the list, with 23,341 gigawatt-hours (GWh) generated between May 2024 and April 2025, mostly from solar and biomass 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 states have the highest capacity of solar megawatts?

The following are the 10 states that have the highest capacity of solar megawatts installed: California tops the list with 29,218.17 megawatts being generated by their 1,210,035 solar installations. The state is far and away ahead of every other state in terms of megawatts installed, generating more megawatts than the next five states combined.



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.



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### [States With the Most Solar Installation by Population](#)

It's not surprising, as Hawaii is one of the leaders in solar power adoption. They also rank second for most megawatts installed per 100,000 people at 99.4 megawatts, making the state one of the leaders in solar generation.

### [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 ...



### **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 ...

### [The Top 5: States For Renewable Energy in India](#)

Renewable energy forms over 60 per cent of the state's total of 39 GW installed capacity. In addition to being the leader in installed solar generation capacity (over 8000 MW), the state is



also among the top five ...



### [States With the Most Solar Installation by Population](#)

States With the Most Solar Installations per Capita It's clear that our planet will have to move toward renewable sources of energy in the coming years. Fossil fuels are not sustainable and are harming our environment. Among the most ...

### [What State Generates The Most Solar Power?](#)

Which State Generates The Most Solar Power? California stands out as the leading U. S. state in solar photovoltaic (PV) power, boasting a cumulative solar power capacity surpassing 48 gigawatts as of June 2024.



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