

# The United States ranks first in solar power generation



## Overview

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California once again takes first place among the top states generating electricity from solar power this month. 4% of the United States' total of 24,519 thousand megawatt-hours, according to ChooseEnergy. 8 terawatt-hours (TWh) in the United States. With over 54 GW of solar installed, enough energy to power over 15 million homes. 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. Solar power generation has increased drastically over the past two decades, especially since 2011, when it hovered just below two terawatt. In 2022, generation from renewable sources—wind, solar, hydro, biomass, and geothermal—surpassed coal-fired generation in the electric power sector for the first time. Renewable generation surpassed nuclear generation for the first time in 2021 and continued to provide more electricity than nuclear.

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### Which State Generates The Most Solar Power?

Based on the latest EIA and SEIA data, the state that produces the most solar power is California, followed by Texas and Florida. 1. California -- The Solar Power Leader. California ...

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### Renewable generation surpassed coal and nuclear in the U.S. electric

In 2022, California ranked first in utility-scale solar generation, producing 26% of the country's utility-scale solar electricity. Texas was the second-largest producing state (16%), followed ...



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### Solar power in the United States

The United States conducted much early research in photovoltaics and concentrated solar power. It is among the top countries in the world in electricity generated by the sun and several of the world's ...

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## Solar providing more than 75% of nation's new power generation ...

In September, 98% of new electric generating capacity in the United States came from solar, marking 25 consecutive months where solar led other energy sources.

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## The Three States Driving America's Solar Boom

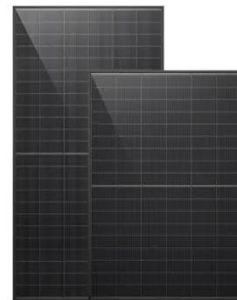
The top three solar-power-producing U.S. states are California, Texas, and Florida, followed by Arizona and North Carolina. California has an installed solar capacity of 51.9 GW, an ...

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## Solar Energy Generation by State Report February 2026

Since 2021, Florida, California and Texas have consistently ranked as the top states for solar PV installations. By 2040, solar power is anticipated to provide the biggest source of energy

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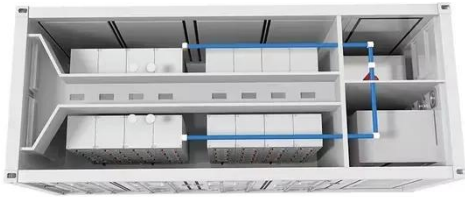


## Solar State By State - SEIA

With over 54 GW of solar installed, enough energy to power over 15 million homes. Texas has the fastest growing solar economy with the largest utility-

scale solar and energy storage projects  
in the ...

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## U.S. solar power generation 2024, Statista

In 2024, net solar power generation in the United States reached its highest point yet at 218.5 terawatt hours of solar thermal and photovoltaic (PV) power.

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## United States and solar power

According to Global Energy Monitor's Global Solar Power Tracker [3], which tracks utility scale solar projects of 20MW or larger, the United States is second in the world for operating solar capacity ...

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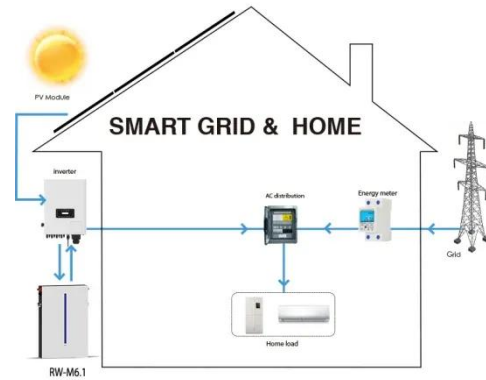
## Solar Energy Generation by State Report February 2026

California once again takes first place among the top states generating electricity from solar power this month.

The Golden State produced 21.4% of the United States' total of 24,519 thousand

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## Solar Capacity by State 2026

Since 2021, Florida, California and Texas have consistently ranked as the top states for solar PV installations. By 2040, solar power is anticipated to provide the biggest source of energy

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