

Domestic solar photovoltaic power generation ranking



Overview

In 2023, California's residential sector produced some 19.1 terawatts hours of solar photovoltaic power in 2023, ranking first among all U.S. states with 7 gigawatts direct current (GWdc) of capacity in Q3 2025, a 20% increase from Q3 2024, a 49% increase from Q2 2025, and the third largest quarter for deployment in the industry's history. Following a low second quarter, the industry is ramping up as the end of the year approaches. California once again takes first place among the top states generating electricity from solar power this month, accounting for 4% of the United States' total of 24,519 thousand megawatt-hours, according to ChooseEnergy. The report. A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U.S. solar capacity. The data can be further refined based on region, technology or year of interest. Source: Berkeley Lab, Utility-Scale Solar Data Update 2025 Copyright (c) 2025, The Regents of the University of California, through Lawrence Berkeley National Laboratory (subject to receipt of any required approvals from the U.S. Dept. of Energy).

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Solar Market Insight Report - SEIA

While our commercial and community solar outlooks have risen slightly due to enhanced project pipeline visibility, we've downgraded our residential outlook as tight module availability is ...

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Solar Market Insight Report Q4 2025

Despite the changing market and policy conditions that the solar industry has faced this year, solar will remain the dominant power source added to the grid in the next five years.

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Ranking of domestic solar power generation technologies

U.S. domestic PV deployment grew faster than ever. It represented more than half of new electricity generation capacity in 2023, with 32-40 GW dc of PV installed,

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Solar Energy Generation by

State Report February 2026

Data and analysis including a list of solar power in every country in ...

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Solar Power by Country 2026

Data and analysis including a list of solar power in every country in the world, countries with the most solar power, and countries that generate the highest percentage of their electricity from solar power.

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Capacity and Generation by State , Energy Markets

Data from 2007 through 2024. Source: Berkeley Lab, Utility-Scale Solar Data Update 2025

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Solar Capacity by State 2026

This report summarizes the latest statistics on solar power capacity by state and highlights the top U.S. states in solar power generation.



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U.S. residential solar PV generation by state 2023

Estimated net electricity generation from residential solar photovoltaics in the United States in 2023, by select state (in gigawatt hours)



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35 Latest Solar Power Statistics, Charts & Data [2026]

China has the highest cumulative solar energy capacity in the world. The IEA measures China's current capacity at 308.5 GW. The US is next with 123 GW of solar capacity. Japan has ...

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Solar Energy Generation by State Report February 2026

The following table ranks the best and worst states for solar energy production

(shown in thousand megawatt-hours) in October and November, number 1 represents the best state for solar ...

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Country Rankings

This dashboard ranks countries/areas to their renewable energy power capacity or electricity generation. The data can be further refined based on region, technology or year of interest.

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