

Solar capacity by state eia





Overview

Existing capacity by energy source, by producer, by state back to 2000 (annual data from the EIA-860) Planned generating capacity changes, by energy source, 2020-2024.

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State energy information, including overviews, rankings, data, and analyses. Maps by energy source and topic, includes forecast maps. International energy information, including overviews, rankings, data, and analyses. Regional energy information including dashboards, maps, data, and analyses.

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity changes. If those plans.

We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48.6 GW of capacity was installed, the largest.

U.S. States .

Explore the latest solar market insights and policy updates in all 50 states and Washington, D.C. All market data is current through Q4 2024. Please enable JavaScript in your browser to complete this form. The Solar Energy Industries Association (SEIA) is leading the transformation to a clean.

We expect small-scale solar capacity across all three sectors will grow from 44 gigawatts (GW) in June 2023 to 55 GW by the end of 2024. We expect small-scale solar systems to generate 83 billion kilowatthours of electricity in 2024. By comparison, we expect utility-scale solar capacity to grow. Which states will add more solar capacity in 2025?



Texas (11.6 GW) and California (2.9 GW) will account for almost half of the new utility-scale solar capacity addition in 2025. We expect five other states (Indiana, Arizona, Michigan, Florida, and New York) each to account for more than 1 GW of added solar capacity in 2025 and collectively account for 7.8 GW of planned solar capacity additions.

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.

What information does EIA collect?

Forms EIA uses to collect energy data including descriptions, links to survey instructions, and additional information. Subscribe to feeds for updates on EIA products including Today in Energy and What's New. Short, timely articles with graphics on energy, facts, issues, and trends.



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[Record U.S. small-scale solar capacity was added in ...](#)

Many of the states with the most small-scale solar capacity also have large populations. Accounting for population size provides insight into how prevalent small-scale solar capacity really is in a state. Although California has ...

[Solar and battery storage to make up 81% of new U.S.](#)

Solar. We expect a record addition of utility-scale solar in 2024 if the scheduled 36.4 GW are added to the grid. This growth would almost double last year's 18.4 GW increase, which was itself a record for annual utility-scale ...



12.8V 200Ah



[Solar capacity additions are changing the shape of ...](#)

The electricity mix of energy sources in Texas, managed by the Electric Reliability Council of Texas (ERCOT) electricity grid operator, changed noticeably in 2023. Although wind power remains the largest source of ...

[Solar and wind to lead growth of U.S. power ...](#)

In 2023, the U.S. electric power sector produced 4,017 billion kilowatthours (kWh) of electric power. Renewable sources--wind, solar, hydro, biomass, and geothermal--accounted for 22% of



generation, or 874 billion ...



Electricity generation, capacity, and sales in the United States

The U.S. Energy Information Administration (EIA) publishes data on two general types of electricity generation and electricity generation-capacity: Utility scale includes electricity ...



Electricity generation, capacity, and sales in the United States

In addition, EIA estimates that at the end of 2023, the United States had 47,704 MW of small-scale solar PV generation capacity, and that about 74 billion kWh were generated by small ...



Florida Profile

Florida is the second-largest producer of electricity in the nation, after Texas. 28 In 2024, natural gas fueled about three-fourths of Florida's total in-state net generation. Eight of the state's 10 largest power plants, ranked by ...





Texas likely to add record utility-scale solar capacity in ...

Texas, already the U.S. state with the most wind energy capacity, is catching up to California in utility-scale solar capacity. California currently has the most installed utility-scale solar capacity of any state. ...



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