



Solar power generation nationwide





Overview

Explore the latest solar market insights and policy updates in all 50 states and Washington, D. We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U. This amount represents an almost 30% increase from 2024 when 48. Texas has the fastest growing. Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. 8 terawatt-hours (TWh) in the United States. has rapidly grown, making solar a significant part of the power grid. Solar power electricity generation continues to grow nationwide, making up the majority of new electricity generation capacity in 2024.



Solar power generation nationwide



Solar and wind to lead growth of U.S. power generation for the next ...

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 ...

[America's Electricity Generating Capacity](#)

Solar continues to be the main fuel type for new additions, with over 30,000 MW of solar energy added in 2024, nearly double the amount added in 2023. This report also analyzes prospective generation ...



U.S. Renewable Energy Factsheet

In 2024, a new solar project was installed every 54 seconds, totaling 5,561,319 solar energy systems in the U.S. 12 Solar has added the most generating capacity to the grid for the last five years.

[Solar providing more than 75% of nation's new power generation ...](#)

In the first nine months of 2025, more than three-quarters of the electrical generating capacity added in the United States was solar power, according to new data published by the ...



Solar power in the United States

Overview Solar potential History Solar photovoltaic power Concentrated solar power (CSP) Government support See also Further reading

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States had 239 gigawatts (GW) of installed photovol...

A sizzling spring for U.S. solar , IEEFA

Solar generation records have fallen across the U.S. in the past month, and the most impressive feature of this record-breaking spring is that it has occurred nationwide, not just in the ...



[Solar Power to Dominate U.S. Generating Capacity . Gexa Energy](#)

In the past 10 to 15 years, solar energy capacity in the U.S. has rapidly grown, making solar a significant part of the power grid. Solar power electricity generation continues to grow ...



[Capacity and Generation by State , Energy Markets](#)

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



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 ...

Solar power in the United States

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[Solar, battery storage to lead new U.S. generating capacity additions](#)



In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...



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