

What is the share of solar power generation in the United States

What percentage of US electricity is generated by solar?

Last year, pv magazine USA correctly forecast that solar would reach 6.9% of total U.S. electricity generation based on the 35.3 GW of new capacity deployed in 2023. Wind and solar together supplied 17.2% of all U.S. electricity. Three states--Iowa, South Dakota, and Kansas--now generate more than 50% of their electricity from these two sources.

How did solar power grow in the US?

The US Energy Information Administration (EIA) says that utility-scale solar grew by 32%, while distributed solar increased by 15%, bringing their respective shares to nearly 5% and 2% of total electricity generation. Overall, US electricity generation rose by 3.1% year over year. From pv magazine USA

Which states generate the most electricity from solar?

California (32%), Nevada (31%), and Massachusetts (26%) led the way in 2024, each generating more than 25% of their electricity generation from solar. An additional eight states generated more than 10% of their electricity generation from solar in 2024. EIA monthly data for 2024 are not final.

Which states are generating the most solar electricity in 2024?

From 2014 to 2024, leading solar deployment states greatly increased solar electricity penetration. California (32%), Nevada (31%), and Massachusetts (26%) led the way in 2024, each generating more than 25% of their electricity generation from solar.

Solar panels in the Illinois prairies 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 ...

The U.S. produced more solar power in 2023 than ever before - part of a decade-long growth trend for renewable energy.

82% of U.S. energy comes from fossil fuels, 8.7% from nuclear, and 9.1% from renewable sources. In 2023, renewables surpassed coal in energy generation. 1 Wind and solar are the fastest ...

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We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

The United States" shift towards clean electricity continued in 2024, as wind and solar together rose to 17% of total electricity generation, surpassing coal, which dropped to an all-time low ...

About this data Share of electricity generated by solar power Measured as a percentage of total electricity

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produced in the country or region.

In 2024, 24 states and territories generated more than 5% of their electricity from solar, with California leading the way at 32.4%. The United States installed approximately 31.1 GWh (12.3 ...

Solar energy accounted for some 6.91 percent of electricity generation in the United States in 2024, up from a 5.62 percent share a year earlier.

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