

Share of solar power generation in the United States



Overview

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. The Energy Information Administration reports 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. Get notified via. David Feldman, National Renewable Energy Laboratory (NREL) Jarett Zuboy, NREL Krysta Dummit, Solar Energy Technologies Office Matthew Heine, NREL Shayna Grossman, Oak Ridge Institute for Science and Education (ORISE) Fellow Meenakshi Narayanaswami, NREL Photo from Stacie Peterson. Our annual report on electricity generation capacity in the United States breaks down the current and imminent generation of electricity by type of fuel, location, and ownership type. The report also looks at retirements, planned retirements, and cancellations since 2017.

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Spring 2025 Solar Industry Update

- Together, utility -scale solar and wind generation accounted for more power than coal generation. - Solar overtook hydropower to be the second -largest source of renewable energy ...

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A Decade of Growth for U.S. Solar and Wind , Climate Central

Led by Iowa, South Dakota, Kansas, and New Mexico, 30 states generated at least 10% of their in-state electricity from solar and wind combined in 2024. California, Texas, and Florida ...



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Solar energy penetration U.S. 2024, Statista

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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Solar power in the United States

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther 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...

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Solar power generation drives electricity generation growth over the

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 ...

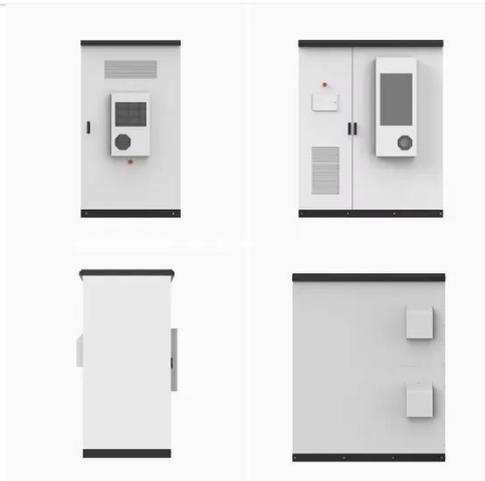
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U.S. Renewable Energy Factsheet

Over 7% of U.S. electricity comes from solar energy, nearly 8 times its share a decade ago. 34 Solar capacity has grown

at an average of 28% annually over the last decade, reaching 248 GW ...

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US Electricity 2025 - Special Report

Wind and solar combined produced a record 17% of US electricity in 2024, overtaking coal at 15% for the first time. The year-on-year increase in electricity demand - the fifth largest year ...

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Solar generation up 27%, accounting for 6.8% of all electricity

Overall, U.S. electricity generation rose by 3.1% year over year. Over the past 12 months, solar photovoltaic sources accounted for more than 6.8% of all electricity generated in the U.S., up ...

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Solar power in the United States

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America's Electricity Generating Capacity

Our annual report on electricity generation capacity in the United States breaks down the current and imminent generation of electricity by type of fuel, location, and ownership type. The report also looks ...

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Renewables generated 24.2% of US electricity in 2024 - EIA data

Solar remained the US's fastest-growing source of electricity in 2024. Utility-scale and "estimated" small-scale (e.g., rooftop) solar combined increased by 26.9% in 2024 compared to the ...

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