

Photovoltaic and wind power generation capacity



Overview

A review by the SUN DAY Campaign of data released by the Federal Energy Regulatory Commission (FERC) reveals that the combination of solar and wind accounted for 90% of new U.S. electrical generating capacity added in the first seven months of 2025. As a result of new solar projects coming on line this year, we forecast that U.S. In June, solar alone provided 82% of new capacity, making it the. 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. In 2024, the United States. Globally, renewable power capacity is projected to increase almost 4,600 GW between 2025 and 2030 - double the deployment of the previous five years (2019-2024). In our latest Short-Term Energy Outlook (STEO), we expect U.S. 6% in 2027, when it reaches an annual total of 4,423 BkWh.

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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 ...

[Global spatiotemporal optimization of photovoltaic and wind power to](#)

Here we present a strategy involving construction of 22,821 photovoltaic, onshore-wind, and offshore-wind plants in 192 countries worldwide to minimize the levelized cost of electricity.



[FERC: Solar + wind made up 91% of new US power ...](#)

Solar and wind accounted for 91% of new US electrical generating capacity added in H1 2025, according to data just released by FERC.

[US solar capacity overtakes wind - pv magazine International](#)

Solar has become the largest renewable source of installed power capacity in the United States, surpassing wind after 27 consecutive months as the leading source of new grid additions, ...

GRADE A BATTERY

LiFePO4 battery will not burn when overcharged, over discharged, overcurrent or short circuited and can withstand high temperatures without decomposition.



[Renewable Capacity Highlights 2025](#)

Renewable power capacity increased by 585 GW (+15.1%) in 2024. Over three-quarters of the capacity expansion was due to solar energy which witnessed an increase of 452 GW (+32.2%); this was ...

[A Decade of Growth in Solar and Wind Power: Trends Across the U.S.](#)

This report uses data from the EIA to analyze solar and wind capacity and generation over the past decade (2014 to 2023) in all 50 states and the District of Columbia.



[Renewable electricity - Renewables 2025 - Analysis](#)

For solar PV, wind and bioenergy for power, deployment has been revised downwards. Solar PV accounts for over 70% of the absolute reduction, mainly from utility-scale projects, while offshore ...

[America's Electricity Generating Capacity](#)

The largest fuel source for this capacity is natural gas (42.7%), followed by coal (15%). Wind, nuclear, solar, and hydro together account for more than one-third of capacity. Solar continues to be the main ...



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

As a result of new solar projects coming on line this year, we forecast that U.S. solar power generation will grow 75% from 163 billion kilowatt-hours (kWh) in 2023 to 286 billion kWh in ...

[Solar and wind make up 90% of new US electricity capacity so far this ...](#)

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