

# The proportion of solar power generation connected to the grid this year



## Overview

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Newly published data from the Federal Energy Regulatory Commission (FERC), reviewed by the SUN DAY Campaign, reveal that solar accounted for over 75% of US electrical generating capacity added in the first nine months of 2025. The three main dispatchable sources of electricity generation (natural gas, coal, and nuclear) accounted for 75% of total generation in 2025, but we expect the share of generation from these sources will fall to about 72% in 2027. power grid in 2024, per the 2025 Sustainable Energy in America Factbook. The 13th-annual report, released by the Business Council for Sustainable Energy and BloombergNEF, tracks policy and market trends in the American energy. • In 2024, between 554 GW dc and 602 GW dc of PV were added globally, bringing the cumulative installed capacity to 2. 2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. In April, solar provided 87% of new. Percentage change in solar energy generation relative to the previous year. Data source: Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data Figures are based on gross generation and do not account for cross-border electricity supply.

## The proportion of solar power generation connected to the grid this

### System Topology

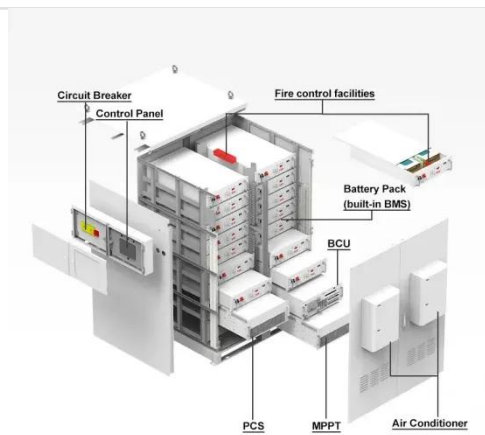


### Solar, battery storage to lead new U.S. generating capacity additions

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 ...

### Solar provided 87% of new US generating capacity in April

In April, solar provided 87% of new capacity, making it the twentieth consecutive month in which solar has taken the lead.



### Solar and storage accounted for 84% of new US power added in 2024

Solar and energy storage accounted for 84% of new electricity generation capacity added to the U.S. power grid last year, but the industry faces a challenging future with the new U.S .

## Renewables account for 99% of new electricity connected to U.S. grid ...

Year-to-date, solar accounted for 80.6% of all new generation placed into service. Solar has now been the largest source of new generating capacity for eight months straight: September ...



## Spring 2025 Solar Industry Update

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. - In 2024, solar represented ...

## FERC: Renewables made up 88% of new US power generating

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## Record-breaking rates of solar connected to the power ...



New interconnection applications have slowed, but an estimated 93 GW of solar and 139 GW of storage capacity sought grid connection in 2024.

## America's Electricity Generation Capacity, 2025 Update

In 2024, over 30,000 MW of solar capacity came online, which is a 30% increase in operating solar capacity. An additional 34,000 MW are under preparation, testing, or construction and projected to ...



## Annual percentage change in solar energy generation

Percentage change in solar energy generation relative to the previous year. Data source: Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data. Figures ...

## 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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