

Solar power generation capacity reached



Overview

Global renewable energy deployment reached an unprecedented milestone in 2024, with newly installed capacity surging to a record 582 gigawatts (GW), according to the latest data from the International Renewable Energy Agency (IRENA). Electricity generation by the U. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. The report also looks at retirements, planned retirements, and cancellations since 2017.

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[Installed solar energy capacity](#)

Depending on the data, this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as ...

[Solar power has provided more new generating capacity than any ...](#)

Solar has now been the largest source of new generating capacity added each month for two years straight: September 2023-August 2025. During that period, total utility-scale solar capacity ...



[Solar power generation drives electricity generation growth over the](#)

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027. Almost 70 ...



[Global Renewables Set Historic Record With 582 GW Capacity ...](#)

IRENA data reveals that global renewable energy capacity additions reached a historic 582 GW in 2024, with solar power leading at 452 GW and renewables dominating new power generation ...



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

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...



[REPORT: Solar Adds More New Capacity to the Grid in 2024 Than ...](#)

The United States installed a record-breaking 50 gigawatts (GW) of new solar capacity in 2024, the largest single year of new capacity added to the grid by any energy technology in over two ...



[FERC: Renewables made up 88% of new US power generating capacity ...](#)

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 ...



[Renewable Capacity Highlights 2025](#)

In 2024, renewable power capacity expansion increased compared to 2023 and remained well above the long-term trend. As in previous years, most of this expansion occurred in China and, to a lesser ...



[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 ...

[Electricity generation from U.S. solar grows 28% year-over-year](#)

Utility-scale solar capacity reached 128.6 GW in March 2025, growing from 96.9 GW in March 2024, while small-scale solar, projects of 1 MW or less, reached 55.7 GW in March 2025, ...



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