

# The United States dominates solar power plants

How much solar power will the US have in 2023?

An analysis of the US Energy Information Administration's (EIA) 2022 year-end electricity generation report shows that the United States is estimated to add 24.8GW of solar capacity in 2023. The United States has a solar generating pipeline of 101.6GW to be installed by 2030. The top 5 states with the largest pipeline include:

How much solar power does the United States have?

Installed solar capacity in the U.S. now totals about 220 GW, enough to provide over 7% of the nation's electricity. This continues a decade-long trend of rapid growth in solar power. Battery storage nearly doubled in 2024, with total installed capacity reaching almost 29 GW -- and projected to grow another 47% in 2025.

Which energy sources will grow in 2025 & 2026?

In contrast to solar and wind, generating capacity for most other energy sources will remain mostly unchanged in 2025 and 2026. Natural gas-fired capacity growth slowed in 2024, with only 1 GW of capacity added to the power mix, but natural gas remains the largest source of U.S. power generation.

How much solar power does the US have in 2022?

An analysis of the EIA's 2022 year-end electricity generation report shows that the US added 10.9GW of solar capacity in 2022, bringing the total capacity for solar power in the US to 72.1GW. Of the 72.1GW of operating solar capacity, 1.5GW is generation from solar thermal technology.

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 ...

Half of America's new power generation this year could come from solar photovoltaic installations, marking a shift in the nation's energy infrastructure. Solar electricity is poised to ...

The United States conducted much early research in photovoltaics and concentrated solar power. It is among the top countries in the world in electricity generated by the sun and several of the world's ...

A new report from the US Department of Energy's (DoE) Lawrence Berkeley National Laboratory shows a major expansion of solar-plus-storage facilities in the US power plant market.

The Energy Information Administration (EIA) reported that, in 2024, the United States added a record 30 gigawatts (GW) of utility-scale solar to the grid, accounting for 61% of new ...

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After several record-breaking years, the U.S. clean energy sector faces a critical moment. Solar deployment and electric vehicle (EV) sales broke records in 2023 and 2024. ...

Solar hit 10.7% of US power in April, a new record, as wind + solar beat coal and nuclear, and renewables came within 2% of natural gas.

Modern solar energy development in the United States dates back to 1954 when scientists at Bell Laboratories patented the first silicon solar cell. Since then, solar energy has ...

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