



Solar energy installed in North America

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Summary: The US solar industry installed 10.8 gigawatts direct current (GWdc) of capacity in Q1 2025, a 7% decline from Q1 2024 and a 43% decrease compared with Q4 2024 but still the fourth largest quarter on record.

How much solar power will the electric power sector add in 2025?

We expect U.S. utilities and independent power producers will add 26 gigawatts (GW) of solar capacity to the U.S. electric power sector in 2025 and 22 GW in 2026. Last year, the electric power sector added a record 37 GW of solar power capacity to the electric power sector, almost double 2023 solar capacity additions.

How much solar power does the US have in Q1 2025?

Solar accounted for 69% of all new electricity-generating capacity added to the US grid in Q1 2025. The US added 8.6 GW of solar module manufacturing capacity in Q1, bringing the total to 51 GW. However, growth in upstream manufacturing capacity remains slow or non-existent.

How did the US solar industry perform in Q1 2025?

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What is the future for solar energy in North America?

The future is bright for solar energy in North America. The adoption of utility-scale solar is rapidly increasing as technology improves and becomes cheaper. It is estimated that solar will account for 30% of electricity generation in the US by 2030.

Which state installed the most solar power in Q1 2025?

Texas installed the most solar capacity in the first quarter of 2025 (2.7 GWdc), 92% more than the second-ranked state, Florida. Utility-scale projects dominated installations in both states. In Q1 2025, the residential segment installed 1,106 MWdc of solar capacity, declining 13% year-over-year and 4% quarter-over-quarter.

How many GW of solar will be added in 2024?

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 capacity additions to the U.S. electric grid last year. EIA expected a similar amount of new utility-scale solar capacity to be added in 2025 and 2026.

Description North America Solar Energy Market Size and Outlook Report by Installed Capacity, by Demand, by Project Capacity (2019-2029) Insight Solar ...

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

Enel Green Power North America has started construction on five new renewable energy projects in the US, including three hybrid renewable + ...

To assess the state of the North American solar market and take stock of the movers and shakers in terms of solar asset ownership, Solarplaza ...

The US Energy Information Administration (EIA) says that utility-scale solar grew by 32%, while distributed solar increased by 15%, bringing ...

Despite being home to two of the world's largest economies, North America is lagging significantly behind Europe in solar energy adoption. ...

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 ...

Top 50 Operating Solar Portfolios: North America 2025 The US solar industry experienced an extraordinary year in 2024, building on the previous year's momentum. By Q3 ...

U.S. utility solar power developers based on cumulative installed capacity 2023 Cumulative capacity of leading utility solar developers in the ...

Current status and future prospects of renewable and sustainable energy in North America: Progress and challenges

Globally, solar PV and wind capacity have experienced rapid growth in recent years: solar PV saw an increase of 162 GW in 2022 (50% higher than in 2019), whereas global wind ...

U.S. Solar Energy Progress: Record Installations, Price Drops, and EV Growth. Insights on challenges and future steps towards a cleaner America.

The Solar Energy Industries Association (SEIA) forecasts that the U.S. will install a total of 450 GW of new solar capacity by 2035, enough to ...

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Total solar (on- and off-grid) electricity installed capacity, measured in gigawatts. This includes solar photovoltaic and concentrated solar power.

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