



Installed capacity of solar power generation projects





Overview

Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW installed. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48.6 GW of capacity was installed, the largest. Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U. The focus is on ground-mounted systems larger than 5M AC, including photovoltaic (PV) standalone and PV+battery hybrid projects (smaller projects are covered in Berkeley Lab's. 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 the first six months of 2025, the world added 380 GW of new solar capacity — 64% higher than during the same period in 2024, when 232 GW were installed. In 2024, it took until September for global solar capacity additions to. 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, according to the Federal Energy Regulatory Commission (FERC). Data source: IRENA (2025) – Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data. To cite data downloaded from this page.



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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, ...

The U.S. installed record-breaking 50 GW of new solar capacity in 2024

The United States installed a record-breaking 50 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 decades. ...



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

Renewable electricity Renewable electricity additions for 2025-2030 total 4 600 GW - equal to the combined installed power capacity of China, the European Union and Japan Globally, renewable ...

[FERC: solar dominates new generation capacity in US](#)

Solar has become the largest energy source of new capacity in the first five months in the US, while almost 90GW of new solar projects will have a "high probability" of being added to the



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

Solar. 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 ...



Installed solar energy capacity

Installed solar energy capacity Cumulative installed solar capacity, measured in gigawatts (GW).



[U.S. Utility-Scale Solar, 2025 Data Update](#)

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.



- ✓ TELECOM CABINET
- ✓ BRAND NEW ORIGINAL
- ✓ HIGH-EFFICIENCY

[Global solar installations surge 64% in](#)



first half of 2025

Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in ...



Solar Market Insight Report Q3 2025

Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW installed. Combined, solar and storage accounted for 82% ...



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