

Current status of solar power generation industry in the United States

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.

How much solar power did the US install in 2024?

EIA reported that the United States installed 36.2 GW of PV in 2024--up 34% y/y. SEIA reported that the United States installed 50.0 GWdc of PV in 2024--up 21% y/y. 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.

What is a quarterly solar industry update?

Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.

Is the solar energy industry slowing down?

Owing to reduced deployment costs and government policies aimed at decarbonizing the U.S. energy sector, the solar energy sector in the United States has seen significant growth in recent years. Various actors, from key businesses to state governments, are driving growth in an industry that shows no signs of slowing down.

2. Introduction The US solar industry installed 7.5 gigawatts-direct current (GWdc) of capacity in the second quarter of 2025, a 24% decline from Q2 2024 and a 28% decrease compared ...

Solar Cheat Sheet Current Solar Capacity: 266.2 GW Total Solar Jobs: 280,119 Value of Solar Market in 2024: \$71.3 billion Number of U.S. Solar Businesses: 10,000+ Total Solar Systems ...

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 ...

o The United States, despite being a leading PV market, is below the global average of other leading markets in terms of PV generation as a percentage of total country electricity ...

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 ...

US residential and utility-scale solar energy is booming. Learn the current and future trends and how solar compares to other renewable energy sources.

The United States Solar Energy Market worth 269.54 gigawatt in 2026 is growing at a CAGR of 10.96% to reach 453.37 gigawatt by 2031. First Solar Inc., NextEra Energy Inc., Hanwha Q ...

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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. ...

Find up-to-date statistics and facts on the solar photovoltaic industry in the United States.

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