



Q2 Solar power generation





Overview

Solar accounted for 69% of all new electricity generation capacity during this period, highlighting its dominance in the energy transition. While residential solar installations saw a 13% year-over-year decrease, the commercial sector grew by 4%, and community solar experienced a. 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. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. 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. Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry. supply and demand, module and system price, investment trends and business models, and. dc of PV were added globally, bringing the cumulative installed capacity to 2.2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y.



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[REPORT: U.S. Adds 8.6 GW of New Solar Module](#)

The report finds that the U.S. solar industry installed 10.8 GW of new electricity generating capacity in Q1, and solar and storage account for 82% of all new generating capacity ...

Solar Market Insight Report Q2 2025

While the first quarter typically sees slower residential installations, the segment continues to face numerous headwinds, including consumer hesitancy to go solar due to economic uncertainty, ...



The 50 States of Solar: States Delve into Distributed Generation

A total of 252 distributed solar policy actions were taken during Q2 2025, with the most actions taken in Colorado, Connecticut, Virginia, Minnesota, New York, and New Jersey.



[Executive summary - Renewables 2025 - Analysis](#)

Renewables' global growth, driven by solar PV, remains strong amid rising headwinds. Global renewable power capacity is expected to double between now and 2030, increasing by 4,600 gigawatts (GW). ...



US installs 7.5 GWdc of Solar Capacity in Q2 2025: Report

In Q2 2025, the utility-scale solar sector installed 5.7 GW dc of capacity, marking a 28% year-over-year decline. Solar installations in Q2 2025 slowed compared to previous quarters, ...



Solar power generation drives electricity generation growth over the

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 ...



Spring 2025 Solar Industry Update

- Together, utility -scale solar and wind generation accounted for more power than coal generation. - Solar overtook hydropower to be the second -largest source of renewable energy ...



Quarterly Solar Industry Update



Each quarter, NREL conducts a presentation of technical trends within the solar industry.



[U.S. Solar Market Shows Strong Growth in Q2 2025](#)

In the first quarter of 2025 alone, the country added 10.8 GWdc of new solar capacity, marking the fourth-highest quarter for installations in history. Solar accounted for 69% of all new electricity ...

US RENEWABLES TRACKER: 8.753 GW of clean energy capacity added in Q2

The US added 8.753 GW of wind, solar and battery storage capacity in the second quarter, with Arizona dominating additions, while Texas continues to lead the US in total clean power capacity.





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