

A-Core Container

Current supply and demand of solar panels



Overview

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Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry. Each presentation focuses on global and U.S. supply and demand, module and system price, investment trends and business models, and.

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. Solar accounted for 69% of all new electricity-generating capacity added to the US grid in.

NREL conducts analysis of solar industry supply chains, including domestic content, and provides quarterly updates on important developments in the industry. These analyses draw from data collected through a combination of third-party market reports, primary interviews, and publicly available data.

U.S. consumer demand for renewable energy continues to grow, with more solar panel capacity installed in 2024 than in 2023, which saw more than in 2022. But U.S. trade policy is in flux, and high tariffs have been imposed on imported solar panels, which may cause shortages. Originally published in.

A dependence on components from Asia, import tariff uncertainty and demand concerns have curbed plans for American solar factories. U.S. module factory capacity rose 11 GW in Q1 2024 as tax credits in the 2022 Inflation Reduction Act bore fruit, data from the Solar Energy Industries Association.

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