



Analysis of the current situation of domestic market of photovoltaic panels





Overview

In Q2 2025, the residential segment installed 1,064 MW dc of solar capacity, declining 9% year-over-year and 3% quarter-over-quarter. High interest rates, economic and policy uncertainty continue to be significant challenges for the segment. The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 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. The global solar PV panels market size was estimated at USD 170.13 billion by 2030, growing at a compound annual growth rate (CAGR) of 7%. By Grid Type, On Grid hold the largest market share of 84%.



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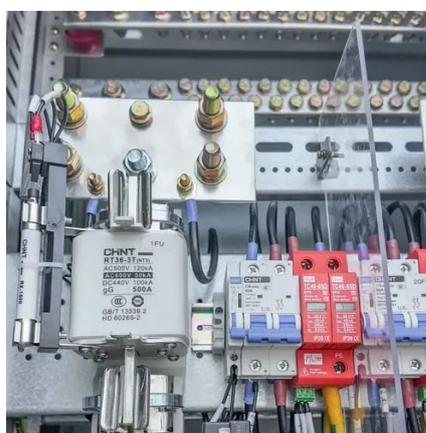


Solar Market Insight Report - SEIA

In Q3 2025, the residential segment installed 1,088 MWdc of solar capacity, declining 4% year-over-year and quarter-over-quarter. Despite an industry rush to bring projects online this year to ...

[Residential Solar PV Market Statistics, 2025-2034 Report](#)

The global residential solar PV market was valued at USD 94.2 billion in 2024 and is estimated to reach the value of USD 198.9 billion by 2034, growing at a CAGR of 7.9% from 2025 to 2034.



Spring 2025 Solar Industry Update

o At the end of 2024, global CSP capacity reached approximately 7 GW.

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[Solar PV Panels Market Size, Share & Trends Report, 2030](#)

The residential sector is gaining momentum in solar PV panel installations due to net metering schemes for grid-connected systems and the availability of energy storage systems for off-grid systems. To ...



[Solar PV Panels Market Size and Opportunities, 2025-2032](#)

The current trajectory of the Solar PV panels market reflects structural transformation driven by rapid deployment, supply-chain dynamics, and competitive pressures that transcend ...



[Quarterly Solar Industry Update , Department of Energy](#)

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



[Solar Photovoltaic \(PV\) Market , Global](#)



[Market Analysis Report](#)

Within the renewable energy market, solar PV holds about 40%, making it the largest single contributor ahead of wind, hydro, and biomass. In the power generation market, its share is ...



[Solar PV Panels Market Size and Opportunities, 2025 ...](#)

The current trajectory of the Solar PV panels market reflects ...

Solar Market Insight Report Q3 2025

The residential solar market has struggled over the past few years, primarily due to sustained high interest rates. Consumer demand took a further hit in Q2 due to tariff and economic ...



[The residential solar market: Down, not out , McKinsey](#)

In this article, we explain some of the key factors behind the industry's recent decline, offer three reasons why we believe the market's fundamentals are solid, and suggest what players can do ...



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