



# Solar panel supply and demand



## Overview

NLR conducts detailed supply chain analysis for specific photovoltaic module technologies. View these interactive charts. NLR 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. 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. supply and demand, module and system price, investment trends and business models, and. The US solar industry installed 11. Between 2025 and 2029, global solar photovoltaic capacity additions are projected to increase yearly and range from some 655 gigawatts in 2025 to 930. Even so, Goldman Sachs Research expects rapid growth in the sector, with global solar installations set to rise to 914 Gigawatts (Gw) in 2030, 57% above 2024 levels. Compared to other sources of power, “the rise in solar generation is the fastest in the history of electricity,” says Daan Struyven.



## Article Content

U.S. solar panel supply "sufficient" but two bottlenecks ...

Clean Energy Associates (CEA) issued a global PV cell and module supply report, noting that the United States' supply chain is "more than ...

Solar Supply Chain and Industry Analysis | Solar Market Research ...

NLR analysts use these data sources to track supply and demand swings in the market, the resilience of the global supply chain, and domestic content for tax incentives. NLR conducts ...

Spring 2025 Solar Industry Update

As the energy crisis fueled by Russia's invasion of Ukraine has subsided, demand for residential solar systems in the EU has declined and several residential solar incentive schemes ...

Executive summary – Solar PV Global Supply Chains

High commodity prices and supply chain bottlenecks led to an increase of around 20% in solar panel prices over the last year. These challenges have resulted in delays in solar panel deliveries across ...

Solar Market Insight Report Q4 2025

We downgraded our five-year residential solar base case outlook by 7% compared to last quarter, primarily due to module supply constraints. In the near term, we now expect a slight decline ...

Quarterly Solar Industry Update

Each presentation focuses on global and U.S. supply and demand, module and system price, investment trends and business models, and updates ...

The Outlook for Global Solar Energy Continues to Be ...

The solar industry can run into mismatches between demand and supply, as when excess energy fed into the grid causes wholesale power prices ...

World stuck in major solar panel "supply glut"; module prices plummet ...

The world's solar manufacturing capacity is set to remain at more than double annual installations in the coming years, with the dynamics of oversupply continuing to depress panel prices, ...

Global solar PV supply chain

Discover all statistics and data on Global solar PV supply chain now on statista !

US solar manufacturers lag skyrocketing market demand

Federal data shows that installations of solar panels in the U.S. are climbing much more quickly than U.S. production of those panels. The ...

## Contact Us

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