



Solar module production and export





Overview

NLR conducts detailed supply chain analysis for specific photovoltaic module technologies. These analyses include production locations, supply chain risk and costs, and material availability. See the Total 2023 U.S. PV Installations on Tableau. View these interactive charts on.

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India's solar module exports to the US are booming, driven by US restrictions on Chinese imports. Indian modules are cheaper, making them attractive. However, new US tariffs and investigations are creating concerns. India is also expanding its own solar production capacity to meet growing global.

Global solar PV manufacturing capacity has increasingly moved from Europe, Japan and the United States to China over the last decade. China has invested over USD 50 billion in new PV supply capacity – ten times more than Europe – and created more than 300 000 manufacturing jobs across the solar PV.

The adoption of solar energy is growing rapidly worldwide, with cumulative installations amounting to more than 2.2 terawatts as of the end of 2024. Between 2025 and 2029, global solar photovoltaic capacity additions are projected to increase yearly and range from some 655 gigawatts in 2025 to 930.

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.

India's solar modules captured 97% of its exports to US (2023-25), up 9x in '23 & 2x in '24, as 19-21% cheaper alternative to US-made amid China curbs. Share rose to 11% vs Vietnam's 36%; US added 50GW capacity. But 50% tariff hits Aug 2025 over dumping, Russia oil. India eyes 180GW module and.

As investment into variable renewable energy (VRE) continues to hit record highs



each new year, solar photovoltaics (PV) continues to experience explosive growth, totally reshaping global energy markets. This disruption is driven by the scale of China's strategic investment into solar PV technology.



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[US Solar Manufacturing: Complete 2025 Guide To ...](#)

Comprehensive guide to US solar manufacturing: capacity, major producers, supply chain analysis, and how to source American ...

[Executive summary - Solar PV Global Supply Chains](#)

Solar PV Global Supply Chains - Analysis and key findings. A report by the International Energy Agency.



[2024 Monthly Solar Photovoltaic Module Shipments Report](#)

Data source: U.S. Energy Information Administration, Form EIA-63B, Monthly Photovoltaic Module Shipments Report Note: Includes both domestic shipments and exports.



US Solar Manufacturing: Complete 2025 Guide To Domestic Production

Comprehensive guide to US solar manufacturing: capacity, major producers, supply chain analysis, and how to source American-made solar



equipment in 2025.



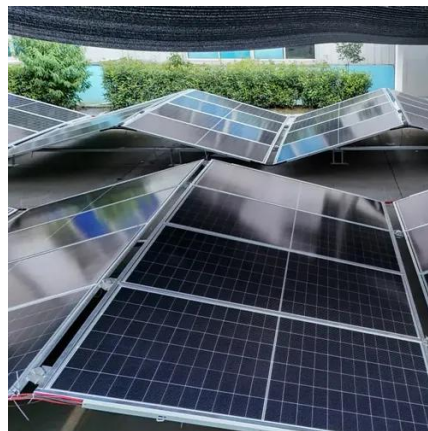
International Solar PV and BESS Manufacturing Trends

While domestic solar PV module manufacturing is rapidly expanding, hitting 80GW at the end of 2024, the country remains heavily reliant on Chinese solar wafers and cells, even as its ...



Global solar module manufacturing capacity to ...

Australian thinktank Climate Energy Finance (CEF) has forecast global solar module manufacturing capacity to reach 1.8TW by ...



India emerges as key solar supplier to US

India's solar module exports to the US are booming, driven by US restrictions on Chinese imports. Indian modules are cheaper, making them attractive. However, new US ...





[India Solar Exports to US Hit 97%: 50% Tariff Looms Amid Boom](#)

India's solar modules captured 97% of its exports to US (2023-25), up 9x in '23 & 2x in '24, as 19-21% cheaper alternative to US-made amid China curbs. Share rose to 11% vs ...



[Special Report on Solar PV Global Supply Chains](#)

This special report examines solar PV supply chains from raw materials all the way to the finished product, spanning the five main segments of the manufacturing process: polysilicon, ingots, ...

Global solar PV supply chain

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[Executive summary - Solar PV Global Supply ...](#)

Solar PV Global Supply Chains - Analysis and key findings. A report by the International Energy Agency.



Global solar module manufacturing capacity to reach 1.8TW in ...

Australian thinktank Climate Energy Finance (CEF) has forecast global solar module manufacturing capacity to reach 1.8TW by the end of the year. This would be triple the ...



Solar Supply Chain and Industry Analysis

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