

Analysis of the photovoltaic panel industry chain



Overview

NLR conducts detailed supply chain analysis for specific photovoltaic module technologies. These analyses draw from data collected through a combination of third-party market reports, primary interviews, and publicly available data . 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 value chain since 2011. Today, China's share in all the manufacturing stages of solar panels (such as polysilicon, ingots, wafers . Produced by the U. Department of Energy (DOE) Solar Energy Technologies Office (SETO) with support from the National Renewable Energy Laboratory (NREL) and released on February 24, 2022, this is one of a series of energy sector industrial reports directed through President Biden's Executive Order . As global energy demand increases, photovoltaic power generation has become the solution to the energy conundrum. 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 . In 2024, between 554 GWdc and 602 GWdc of PV were added globally, bringing the cumulative installed capacity to 2. The IEA reported Pakistan's rapid rise to .

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Solar Value Chain - Panel Supply Steps , Bernreuter Research

Although thin-film solar panels are produced under just one roof, China's solar industry has focused on the five-step value chain for classic solar cells made of crystalline silicon and then assembled into



[Evolution and vulnerability analysis of global photovoltaic industry](#)

This paper constructs the global photovoltaic industry chain trade network from 2000 to 2023 based on the complex network analysis method. The change of network vulnerability in multiple



Global solar PV supply chain

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Solar Market Insight Report - SEIA

US Solar Market Insight is a quarterly publication of Wood Mackenzie and the Solar Energy Industries Association (SEIA).



2025 US Solar Report

Subsidized mass production of Chinese solar panels drove down the global price and drove nearly all of the first generation of U.S. and

European solar panel makers out of business.

Solar Supply Chain and Industry Analysis

NLR conducts detailed supply chain analysis for specific photovoltaic module technologies. These analyses include production locations, supply chain risk and costs, and material



Spring 2025 Solar Industry Update

China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. The rest of the world was up 11% y/y. The IEA reported Pakistan's rapid rise to fourth place

Solar Photovoltaics Supply Chain Review Report

The Solar Photovoltaics Supply Chain Review, produced by the DOE Solar Energy Technologies Office with support from the National Renewable Energy Laboratory, will help the



[Visualizing global photovoltaic supply chains: Dynamics, clusters and](#)

To manage the photovoltaic supply chains and promote the sustainable development of photovoltaic industries, it is necessary to analyze the evolutionary characteristics and underlying

Executive summary - Solar PV Global Supply Chains -

Solar PV Global Supply Chains - Analysis and key

findings. A report by the International Energy Agency.



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