

# Where in China does the most photovoltaic panels come from



## Overview

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Most of the manufacturers of photovoltaic panels in China are located on the southeastern coast of the country. Its PV capacity crossed 1,000 gigawatts (one terawatt, 1 TW) in May 2025. [1] . IEA PVPS has released the latest National Survey Report of PV Power Applications in China 2024, prepared by Task 1 with data from the National Energy Administration (NEA) and the China Photovoltaic Industry Association (CPIA). The report provides a comprehensive overview of PV market development . The Chinese solar industry is at a pivotal point. Grid constraints, policy changes, and pricing adjustments have impacted home and business solar arrays, as Vincent Shaw reports, from Shanghai.

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### Solar power in China

Most of China's solar power is generated within its western provinces and is transferred to other regions of the country. In 2011, China owned the largest solar power plant in the world at the time, the

### Digging into China's solar capacity numbers

In China, most PV installations smaller than 6 MW fall into the NEA's definition of distributed PV, and it can include systems up to 50 MW depending on grid access conditions.



### State of global solar energy market: Overview, China's role,

China alone produces at least 80 % of the main components of PVs. Also, more than 30 % of the cumulative installed capacity is in China, the top exporter of manufactured solar PVs in the

### Solar energy in China

Rapid solar capacity expansion overwhelms the grid, PV manufacturers compete for market shares, and then large target markets slap import tariffs on Chinese PV products, taking off



### How China Became the World's Leader on Renewable Energy

To promote the adoption of distributed rooftop



## Executive summary - Solar PV Global Supply Chains

Today, China's share in all the manufacturing stages of solar panels (such as polysilicon, ingots, wafers, cells and modules) exceeds 80%. This is more than double China's share of global PV demand. In



## [National Survey Report of PV Power Applications in China 2024](#)

Technological innovation continued to strengthen China's position in the global PV industry. As of March 2025, China held efficiency records for nine solar cell types, the highest number ever recorded in



solar, the NEA launched the Whole County PV program, a national pilot scheme that aimed to install photovoltaics in roughly half of China's



## Solar panels manufacturers in China

Most of the manufacturers of photovoltaic panels in China are located on the southeastern coast of the country. Hundreds of them are based in Shanghai, as well as in Jiangsu, Zhejiang, Guangdong, and



## China's solar capacity installations grew rapidly in 2024

Some of the largest projects under development are in the Inner Mongolia region in northern China. The Kubuqi Desert in Inner Mongolia is the planned site of the largest collection of

## C: Solar Power

Photovoltaic (PV) technologies dominate China's solar industry, with roughly 99% of China's solar power capacity. Chinese PV manufacturing accounts for the vast majority of global PV production.



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