



# The export proportion of solar panel components





## Overview

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The U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy (DOE), prepared this report. By law, our data, analyses, and forecasts are independent of approval by any other officer or employee of the U.S. Government. The views in this.

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 addition, the country is home to the world's 10 top suppliers of solar PV manufacturing.

India's demand for solar cells sees exports of the product from China increase by over 70% in the first half of 2025, doubling to 40% of all solar products as solar panel exports. The latest monthly solar PV export data from the world's largest exporter, China, by country or region of.

The nation's manufacturing facilities—if operating at full capacity—could produce around 50 gigawatts (GW) of solar panels annually. With an estimated 40 GW of solar installations planned for 2024, the numbers suggest that American manufacturers should be able to meet demand without relying on.

The dominance of Chinese solar supply chains is not a new phenomenon. Back in 2012, the United States imposed anti-dumping and countervailing duties on crystalline silicon cells and modules produced in mainland China and Taiwan and imported into the US. These tariffs shifted the spotlight to.

In 2024, the EU imported solar panels to the value of €11.1 billion, liquid biofuels to the value of €2.9 billion and wind turbines worth €0.5 billion (see Figure 1). The EU import values of solar panels and liquid biofuels in 2024 were much higher than the corresponding EU export values which were. What are China's solar PV exports?



In 2021, the value of China's solar PV exports was over USD 30 billion, almost 7% of China's trade surplus over the last five years. In addition, Chinese investments in Malaysia and Viet Nam also made these countries major exporters of PV products, accounting for around 10% and 5% respectively of their trade surpluses since 2017.

What is the global solar PV supply chain worth?

In that last year, the global solar PV chain reached an industrial business value of some 104.7 billion U.S. dollars, with China dominating the market, and followed by the United States and Malaysia. Discover all statistics and data on Global solar PV supply chain now on [statista.com](https://www.statista.com)!

What is the EU export value of solar panels?

By contrast, the EU export value of wind turbines (€2.8 billion) was much higher than the corresponding value for imports. The EU import value of solar panels decreased by 43% between 2023 and 2024 (see Figure 2), due to a drop in prices, even though the quantity imported slightly increased by +2%.

How has global solar PV manufacturing capacity changed over the last decade?

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 value chain since 2011.



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## These are the countries the US imported solar panels from in 2024

So the best measure of how many solar panels the country is making is to look at silicon cell imports. Data shows that the United States imported 13.89 GW of silicon cells in ...



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The first six months of the year saw cell exports account for 22% of China's solar exports, a larger proportion of total exports than wafers (20%) for the first time ever.

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Exports of solar panels fell by 22% in value while rising by 24% in quantity. Exports of liquid biofuels showed a higher decrease in value compared with quantity (-19% vs -7%).

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