

Photovoltaic module exports in the first quarter of 2025

How many new PV systems were installed in 2024?

At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 GW. China installed up to 357.3 GW, accounting for almost 60% of new global capacity. Outside China, 244.6 GW were added, led by the European Union (62.6 GW), USA (47.1 GW), and India (31.9 GW).

What happened to photovoltaic capacity in 2024?

In 2024, global photovoltaic capacity rose to more than 2.2 TW, up from 1.6 TW in 2023, with over 600 GW of new PV systems commissioned. This marks another record year for PV deployment, despite continued overcapacity in manufacturing and falling module prices that placed pressure on the entire value chain.

How many solar panels were installed in 2024?

In 2024, global cumulative PV capacity reached over 2.2 TW, with China alone surpassing 1 TW. At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 GW. China installed up to 357.3 GW, accounting for almost 60% of new global capacity.

How are future photovoltaic modules priced?

Based on market scenarios, future prices for photovoltaic modules are estimated to follow the photovoltaic learning curve, where the price per module falls by roughly 20 percent with each duplication in the total number of modules produced.

Which countries installed the most solar power in 2024?

Pakistan emerged as a key market with an estimated 17 GW, while Brazil installed 14.3 GW. 34 countries installed more than 1 GW of new capacity in 2024; 23 countries now exceed 10 GW in total installed capacity. Utility-scale PV led global installations, but distributed PV remained strong in key markets including Germany, Türkiye, and Brazil.

How many GW of solar power are there in 2024?

PV supplied more than 10% of global electricity consumption for the first time, cementing its position as a central pillar of the global energy transition. In 2024, global cumulative PV capacity reached over 2.2 TW, with China alone surpassing 1 TW. At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 GW.

India's imposition of a 40% BCD on module imports in early 2022 triggered strong inventory draws in the first quarter of the year. Import volume was as high as 8.1 GW, accounting for 91% of its annual demand. In March, demand shrank rapidly as the BCD took effect. By the end of April, there were merely 800 MW of Chinese module imports.

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At least 554.1 GW but perhaps as much as 601.9 GW of PV systems have been commissioned in the world last year. Countries in the IEA PVPS programme in 2024 covered ...

International PV module prices, driven by Chinese averages, will likely rise from \$0.08/W to \$0.10/W today to \$0.11/W by the end of 2025 and potentially \$0.13/W by 2027, says Clean Energy ...

China installed 59.71 GW of new solar in the first quarter of 2025, with 20.24 GW in March alone. National power generation capacity reached 3.43 TW, with solar accounting for 950 GW of the total.

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The new EU solar energy strategy assumes installation of over 320 GW in solar photovoltaic power already by 2025 (which is twice the value of 2020) and almost 600 GW by 2030. Already in 2025, the sector of cell and PV module production in the EU would near achievement of a production capacity equivalent to 20 GW annually (5 GW at present).

India exported solar cells and modules worth \$463.8 million (~INR38.6 billion) in the second quarter (Q2) of calendar year (CY) 2023, a staggering year-over-year (YoY) increase of 1,669%, according to the Department of Commerce data.. However, on a quarter-over-quarter (QoQ) basis, exports fell 3.1% from \$478.8 million (~INR39.9 billion) in Q1 2023.

On a forward-looking basis, OPIS is assessing the cost of TOPCon modules at \$0.293/W in the second quarter of 2025, \$0.291/W in the third quarter and \$0.282/W at the end of the year and into 2026.

According to Tan Youru, an analyst at BloombergNEF, China exported 212 GW of solar cells and modules in the first 10 months of 2023, some 19 percent more than exports in the whole of 2022. While the value of solar product exports from China was flat in the third quarter, volumes rose month-on-month, thanks to lower module prices, he said.

As the first quarter (Q1) of 2025 draws to a close, Bloomberg has released its first list of Tier 1 global photovoltaic (PV) module manufacturers for the year. Influenced by various factors including the PV market conditions and ...

Overall, InfoLink expects limited growth, with the PV market likely staying weak and potentially continuing into the first quarter of next year. Market demand remains pessimistic. ... March 28, 2025 China's PV module exports reach 39 GW in Jan-Feb 2025, down 11% YoY . March 18, 2025 China to implement on-grid tariffs, ...

Photovoltaic module import shipments by country, 2024 Imports at the national level are published in Table 6.



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Country of origin is not published to protect individual company data. December 2024 . U.S. Energy Information Administration | 2024 Monthly Solar Photovoltaic Module Shipments Report 10 .

Looking to the second quarter of 2025, Enphase expects revenues between US\$340-380 million and net IRA benefits of US\$30-33 million based on shipping around one million microinverters manufactured ...

In the downstream photovoltaic sector, domestic installations in the first two months reached 39.47 GW, a year-on-year increase of 7.49%, while module exports were 36.6 GW, a ...

The company expects to ship 16-18GW of modules in the first quarter of 2025, in line with the 13GW and 20GW of modules shipped in the first quarters of 2023 and 2024, and to sell 85-100GW of ...

As Europe demand weakens in the third and fourth quarter, module prices may decline further slightly in the second half, as manufacturers seek orders. ... However, as Pakistan has imported a large volume of Chinese modules in the first half of this year, the cumulative import volume has exceeded 77% of last year's total imports as of July ...

China's solar PV module exports reached 236 GW in 2024, showing growth in all regions except Europe. In December alone, China exported 16.63 GW of modules, reflecting a ...

In Fiscal Year (FY) 2024, Indian PV manufacturers exported approximately US\$2 billion worth of PV modules. The export value of PV modules from India increased by more than 23 times in just two years between FY2022 and FY2024. Several factors have contributed to this rapid increase in PV exports from India FY 2022.

This was the best first quarter in industry history, led by delayed utility-scale solar projects coming online. Solar accounted for 54% of all new electricity-generating capacity added to the US grid in the first quarter of 2023. Florida was the top-ranked solar market in Q1 2023 as 1,460 MWdc of utility-scale solar were installed.

In terms of export volume for the first half of 2020, the Netherlands remained the number one destination for Chinese solar module exports, and imported more than 7GW in shipments over the period. During the second quarter, the major European transit hub took in approximately 4.4GW in solar modules, which is a 60% increase when compared to the ...

Chinese solar module exports saw a decrease in November 2024, with shipments totaling 15.2 GW, a 12% drop from October's 17.34 GW and a 14% decline compared to the 17.71 GW exported in November 2023.

The photovoltaic industry added about 444 gigawatts of new capacity in 2023, a 76% growth on 2022 build. Prices of solar modules are at record lows, and supply of components is plentiful. End-user markets are ...

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The total export value of wafers, cells and modules is estimated to be 28.14 billion dollars, representing a year-on-year decrease of 34.5%. India, Turkey and Cambodia represent the top three export markets for solar cells. Europe represents the largest solar module export market, although there has been a notable decline in market share.

The export value, which includes photovoltaic products such as silicon wafers, cells and modules, reached about \$43 billion during the first 10 months, the China Photovoltaic Industry Association said on Friday. The output value of China's photovoltaic manufacturing sector also touched a record 1.3 trillion yuan (\$182.6 billion), while newly ...

China's module exports may decline further in March and April, weakening overall overseas procurement momentum in the first half of 2025. This has caused a slight short-term ...

Exports satisfy a surge in demand from Europe. More than half of the solar modules exported from China in the first half of 2023 were destined for Europe (58%). The region has also seen the greatest absolute growth worldwide, with exports of solar panels from China to Europe up 47% year-on-year. 66 GW were shipped to Europe in the first half of 2023, up from ...

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