

# World Solar Photovoltaic Panel Production Capacity



## Overview

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Solar photovoltaics is one of the most cost-effective technologies for electricity generation and therefore its use is growing rapidly across the globe. Only in that last year. The global PV cumulative capacity grew to 1. 2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. • The IEA reported Pakistan's rapid rise to fourth place in annual global PV. Will new PV manufacturing policies in the United States, India and the European Union create global PV supply diversification?

Manufacturing capacity and production in 2027 is an expected value based on announced policies and projects. APAC = Asia-Pacific region excluding India and China.

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### Solar power by country

OverviewAsiaGlobal use figuresAfricaEuropeNorth AmericaOceaniaSouth America

Armenia due its geographical and climate properties is well-suited for the solar energy utilization. According to the Ministry of Energy Infrastructure and Natural Resources of Armenia the country is capable of producing 1850 kWh/m per year. For comparison European countries are capable of around 1000 kWh/m per year on average. Two main panel types utilized in Armenia are the photovoltaic and thermal solar panels. The ...

### [Spring 2025 Solar Industry Update](#)

Distributed generation made up nearly 63% of new solar PV capacity in 2024. o In 2024, Brazil increased tariffs on imported solar modules to 25% to shield their 5 GW of local manufacturing ...



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

Global capacity for manufacturing wafers and cells, which are key solar PV elements, and for assembling them into solar panels (also known as modules), exceeded demand by at least 100% at ...



### Solar power by country

The worldwide growth of photovoltaics is extremely dynamic and varies strongly by country. In April 2022, the total global solar power capacity reached 1 TW, increasing to 2 TW in 2024. The top ...



### [Global Market Outlook for Solar Power 2025-2029](#)

Global solar installations reached nearly 600 GW - an impressive 33% increase over the previous year - setting yet another record. Solar accounted for 81% of all new renewable energy ...



### [IEA: Global photovoltaic module production capacity will exceed ...](#)

According to the International Energy Agency (IEA), global solar panel production capacity will exceed 1.5TW by 2035. Its latest report, Energy Technology Outlook 2024, covers the solar, wind ...



### [Installed solar energy capacity](#)

At the link below you can find a detailed description of the structure of our data pipeline, including links to all the code used to prepare data across Our World in Data.



## Snapshot 2024

The global PV cumulative capacity grew to 1.6 TW in 2023, up from 1.2 TW in 2022, with from 407.3 GW to 446 GW [1] of new PV systems commissioned - and in the order of an estimated 150 GW of ...



## [Solar PV manufacturing capacity and production by ...](#)

Solar PV manufacturing capacity and production by country and region, 2021-2027 - Chart and data by the International Energy Agency.



## [Top 10 Countries Leading Solar Panel Production 2025](#)

In the latest consolidated data, global PV module production reached 726 GW and manufacturing capacity reached 1,405 GW/year, with 83% of capacity located in China.



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