

# World Solar Power Generation Installed Capacity

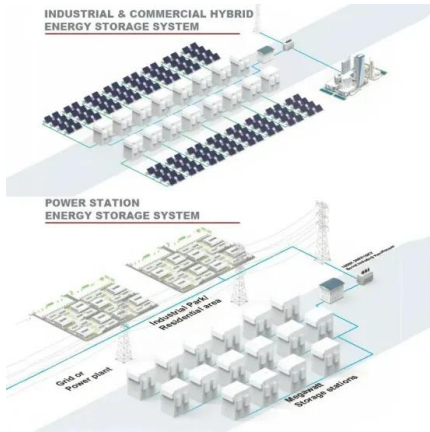


## Overview

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Executive Summary Global PV Deployment • In 2024, between 554 GW dc and 602 GW dc of PV were added globally, bringing the cumulative installed capacity to 2.2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. Data source: IRENA (2025) – Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data. To cite data downloaded from this page. Most operational CSP stations are located in Spain and the United States, while large solar farms using photovoltaics are being constructed in most geographic regions. The worldwide growth of photovoltaics is extremely dynamic and varies strongly by country. The rest of the world was up 11% y/y.

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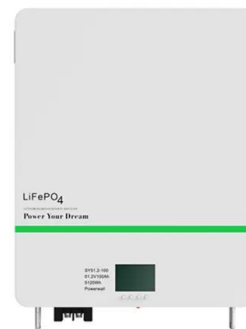
[Solar accounted for 70% of new global power capacity in 2024](#)

Approximately 70% of newly installed global electricity generating capacity for 2024 came from PV, with record installations in China (278 GW) and the U.S. (38 GW). Global PV installed

[Global Solar Installations Up 64 Percent So Far This Year](#)

Solar is the fastest-growing source of electricity worldwide, and the buildout continues to gain pace, year after year. In the first six months of 2025, countries installed 380 gigawatts of solar

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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 ...

[Solar energy status in the world: A](#)

[comprehensive review](#)

A comparison of the solar power status among countries and territories has been provided, considering their concentrated solar power and PV installed capacities for each continent.



[Global installed solar PV capacity by scenario, 2010-2030](#)

Global installed solar PV capacity by scenario, 2010-2030 - Chart and data by the International Energy Agency.

[Solar Power by Country 2026](#)

Data and analysis including a list of solar power in every country in the world, countries with the most solar power, and countries that generate the highest percentage of their electricity from solar power.



[Spring 2025 Solar Industry Update](#)

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. o In 2024, solar represented ...

## 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 ...

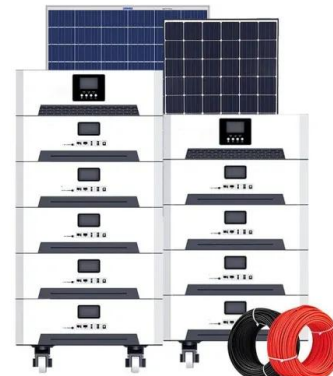


## [Installed solar energy capacity](#)

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.

## [Solar Power by Country 2026](#)

Data and analysis including a list of solar power in every country in ...



## [Global solar installations surge 64% in first half of 2025](#)

Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in ...



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