

World solar power installed capacity



Overview

Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2. Only in that last year, installations increased by almost 40 percent. 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. Many countries and territories have installed significant solar power capacity into their electrical grids to supplement or provide an alternative to conventional energy sources. In the first six months of 2025, the world added 380 GW of new solar capacity — 64% higher than during the same period in 2024, when 232 GW were installed. In 2024, it took until September for global solar capacity additions to. Solar power is clean, green, inexpensive, and renewable energy that is produced when sunlight strikes human-made solar cells and is subsequently converted into electricity.

World solar power installed capacity



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 ...

Solar power by country

Overview
Global use figures
Africa
Asia
Europe
North America
Oceania
South America

Many countries and territories have installed significant solar power capacity into their electrical grids to supplement or provide an alternative to conventional energy sources. Solar power plants use one of two technologies: o Photovoltaic (PV) systems use solar panels, either on rooftops or in ground-mounted solar farms, converting sunlight directly into electric power.



Installed solar energy capacity

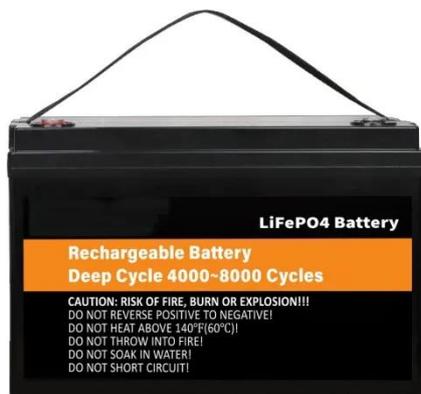
At the link below you can find a detailed description of the structure of our data pipeline, including links to all the code used to prepare data across Our World in

Data.



New report: World installed 600 GW of solar in 2024, could be

By the end of 2024, solar PV made up 46% of global renewable capacity, with 2.2 TW installed. By 2030, we expect global installed solar PV capacity to exceed 7 TW by 2030. This would ...



Renewable Capacity Highlights 2025

Solar, in line with the previous year, accounted for the largest share of the global total, with a capacity of 1 865 GW. Renewable hydropower¹ and wind energy accounted for most of the remainder, with total ...

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.



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 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 ...



Snapshot 2025

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 ...



Spring 2025 Solar Industry Update

- Wind and solar accounted for 83% of capacity installed in 2024; together, they have constituted the most capacity installed for 9 years running. - Annual coal and gas additions fell 10% ...



Contact Us

For catalog requests, pricing, or partnerships, please visit:
<https://www.scelto.co.za>

