

# Total installed solar power capacity



## Overview

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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 2024, when 232 GW were installed. 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. Solar power plants use one of two technologies: Photovoltaic (PV) systems use solar panels, either on rooftops or in. We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48. 81 GW ^Large Hydro includes 7175.

## Total installed solar power capacity

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### Installed solar energy capacity

Installed solar energy capacity  
Cumulative installed solar capacity, measured in gigawatts (GW).

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## 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 hydropower<sup>1</sup> and wind energy accounted for most of the remainder, with total ...

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## 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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## Solar Market Insight Report - SEIA

Solar accounted for 58% of all new electricity-generating capacity added to the US grid through the third quarter of 2025, with more than 30 GW installed. Solar and storage, combined, ...

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### What Is Installed Solar Capacity and Why Does It Matter?

Installed solar capacity quantifies the maximum electrical power that all solar photovoltaic (PV) and concentrated solar power (CSP) systems combined can generate at any given moment. ...

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### Solar, battery storage to lead new U.S. generating capacity additions

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...

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### 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,

ESS



increasing to 2 TW in 2024. The top ...

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**EIA: 99%+ of new US capacity in 2026 will be solar, wind + storage**

Solar, wind, and batteries are set to supply virtually all net new US generating capacity in 2026, according to the latest EIA data.

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**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.

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## Physical Achievements , MINISTRY OF NEW AND RENEWABLE ...

Solar Power\* (Cumulative) : 135.81 GW.

^Large Hydro includes 7175.6 MW Pumped Storage. # Excluding Nuclear Capacity of 100 MW, which is under outage for very long time, and ...

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