

World Solar Power Generation Scale



Overview

In April 2022, the total global solar power capacity reached 1 TW, increasing to 2 TW in 2024. The following table lists these data for each country: Total generation from solar in terawatt-hours. 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. Help us do this work by making a donation. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity . The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated distributed (

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Solar power generation, 2025

Electricity generation from solar, measured in terawatt-hours.



Global Solar Power Tracker

The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated distributed (<1



Global Solar Atlas

The Global Solar Atlas provides a summary of solar power potential and solar resources globally.



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.



Global Market Outlook for Solar Power 2025-2029

Regarding global power generation, solar nearly doubled its share over the past 3 years, growing by 1.3 percentage points only last year to a 7% share in the world's electricity mix.

Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes



Global solar energy outlook

In the coming decade, solar PV is expected to continue being the largest contributor to global renewable energy installations, reaching a cumulative capacity of more than seven terawatts by

[World adds a record-breaking 814 GW of solar and wind in 2025](#)

The tool provides an interactive way of tracking monthly wind and solar capacity deployment across 25 countries accounting for 93% of global solar and 92% of global wind capacity.



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.

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



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