

Regions with the largest solar power generation



Overview

As of 2023, China has the largest solar energy capacity in the world at 609,921 megawatts (MW), contributing approximately 3% to the country's total electricity production. It is followed by the United States at 139,205 MW and Japan at 89,077 MW. Note: CIS (Commonwealth of Independent States) is an organization of ten post-Soviet republics in Eurasia following break-up of the Soviet Union. [org/renewable-energy](https://www.renewable-energy.org/renewable-energy) | CC BY Figures are based on gross generation and do not account for cross-border electricity supply.

Concentrated solar power (CSP, also known as "concentrated solar thermal") plants use solar thermal energy to make steam, that is thereafter converted. California leads as the top solar state. 2 GW. Values displayed in megawatts (MW), a unit of measurement equivalent to 1 million watts (or 1,000 kilowatts).

Regions with the largest solar power generation



Which U.S. Region Has the Most Solar Energy Potential?

Regions with more daily sunlight are particularly favorable for solar power systems, leading to increased energy production. In the United States, states like Arizona and California ...

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



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Global solar power production by region 2024, Statista

Asia was by far the region with the largest production of solar energy worldwide in 2024.

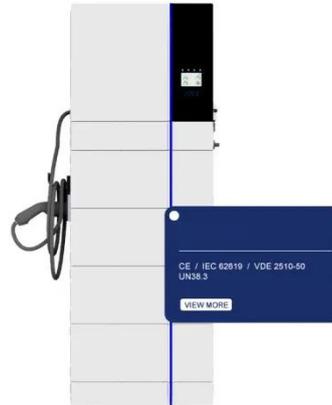
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Top 5 Regions for Solar

Installations

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2MW / 5MWh
Customizable

Solar power by country

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

European deployment of photovoltaics has increased considerably since the year 2010. Cumulative solar PV capacity in the European Union reached over 300 GW in 2024, with industry projections anticipating total capacity more than doubling by 2030, which would take solar power's share in EU electricity generation (9.2% in 2023) over 20%. Outside of the EU, similar growth in solar power is taking place in the United Kingdo...

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Solar State By State - SEIA

California leads as the top solar state. With over 54 GW of solar installed, enough energy to power over 15 million homes. Texas has the fastest growing solar economy with the largest utility-scale solar and ...

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Solar energy generation by region

About this data Electricity generation from solar power Figures are based on gross generation and do not account for cross-border electricity supply.

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Solar Power by Country 2026

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

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Solar Capacity by State 2026

This report summarizes the latest statistics on solar power capacity by state and highlights the top U.S. states in solar power generation.

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Solar Energy Generation by State Report February 2026

The following table ranks the best and worst states for solar energy production (shown in thousand megawatt-hours) in October and November, number 1 represents the best state for solar ...

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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.

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Global Solar Atlas

Global Photovoltaic Power Potential by Country The World Bank has published the study Global Photovoltaic Power Potential by Country, which provides an

aggregated and harmonized view on ...

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