

World Solar Power Generation Countries



Overview

Quick Answer: Which Are the Top Solar Power Countries in 2025?

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. 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. Concentrated solar power (CSP, also known as "concentrated solar thermal") plants use solar thermal energy to make steam, that is thereafter converted. Ember (2026); Energy Institute - Statistical Review of World Energy (2025) - with major processing by Our World in Data This dataset contains yearly electricity generation, capacity, emissions, imports and demand data for European countries. The data can be further refined based on region, technology or year of interest. Emerging leaders include Brazil, Australia, and Spain, each advancing solar rapidly through innovative. Solar energy capacity is growing rapidly, driving the global transition to renewable energy.

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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.

Solar power by country

Overview
Asia
Global use
figures
Africa
Europe
North America
Oceania
South 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 Photovoltaic Power Potential by Country](#)

Global map showing practical solar energy potential after excluding for physical, environmental and other factors. The potential for clean, carbon-free electricity generation from solar photovoltaic (PV) ...

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

[comprehensive review](#)

The present review study, through a detailed and systematic literature survey, summarizes the world solar energy status along with the published solar energy potential assessment articles for ...



**FLEXIBLE SETTING OF
MULTIPLE WORKING MODES**



[Top 10 countries producing the most solar power in 2025](#)

China remains the undisputed leader, producing nearly 400 billion kWh of solar energy in 2025. It holds more than one-third of the world's solar capacity, expanding by 45 per cent over the ...

[Solar power generation, 2025](#)

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this ...



[Which countries use the most solar energy? \[Top 13. ...\]](#)

Our rundown of the countries around the world using the most solar energy, from Mexico to China



[Top Solar Power Countries in 2025: Leading the Global Renewable](#)

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. Emerging leaders include Brazil, Australia, and Spain, ...



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 ...

Country Rankings

This dashboard ranks countries/areas to their renewable energy power capacity or electricity generation. The data can be further refined based on region, technology or year of interest.



[Ranked: The 15 Countries With the Most Solar Power Installed](#)

Solar energy capacity is growing rapidly, driving the global transition to renewable energy. This graphic visualizes the top 15 countries by cumulative megawatts of installed ...



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