

Solar power generation base ranking



Overview

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U. electricity generation capacity in 2023, with 22 states generating more than 5% of their electricity from solar, led by California at 28. The following table lists these data for each country: Total generation from solar in terawatt-hours. 1985 2024 1990 1995 2000 2005 2010 2015 0 TWh 5,000 TWh 10,000 TWh 15,000 TWh 20,000 TWh 25,000 TWh 30,000 TWh Data source: Ember (2026); Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data Note: "Other renewables" include geothermal, wave, and tidal. In 2025, solar power is the cornerstone. This ranking tracks the share of electricity generated from renewable sources (hydro, wind, solar, bioenergy and other renewables) as a percentage of a country's total electricity generation. It is widely cited — and widely misunderstood — because many readers silently substitute a different idea:.

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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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Electricity production by source, World

Solar (photovoltaic) panels cumulative capacity
Solar and wind power generation
Solar energy generation by region
Solar energy generation vs. capacity
Solar photovoltaic module prices vs. ...



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Global Solar Atlas

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

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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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Ranked: The 15 Countries With the Most Solar ...

See which countries have installed the most solar power, and which ones have the fastest annual growth rates over the last decade.

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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.

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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, ...

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Top 100 Countries by Share of Renewable Energy in Power Generation

This ranking tracks the share of electricity generated from renewable sources (hydro, wind, solar, bioenergy and other renewables) as a percentage of a country's total electricity generation.



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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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Solar power by country

OverviewAsiaGlobal use
figuresAfricaEuropeNorth
AmericaOceaniaSouth 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



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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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