

Countries with the highest share of 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. A report from the National Renewable Energy Laboratory found that solar power accounted for 54% of new U. Solar energy is typically harnessed using either. Concentrated solar power (CSP, also known as "concentrated solar thermal") plants use solar thermal energy to make steam, that is thereafter converted into electricity by a turbine. It is widely cited — and widely misunderstood — because many readers silently substitute a different idea: 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. Emerging leaders include Brazil, Australia, and Spain, each advancing solar rapidly through innovative policies and investment.

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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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11 countries leading the charge on renewable energy

Here are the top eleven countries using renewables--wind, electricity, geothermals--to lead the way to a low-carbon, zero emissions future.



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Chart: Which countries get the most power from solar and wind?

Wind and solar are on the rise worldwide -- here are the 10 countries that rely on the clean-energy sources most for their electricity. All of these countries used wind and solar to produce ...

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Share of electricity production from solar, 2025

About this data Share of electricity generated by solar power Measured as a percentage of total electricity produced in the country or region.

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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

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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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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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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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 50 Countries That Use the Most Solar Power as a Percentage of ...

The leader in solar energy is China, at 306,973 MW total solar capacity, but that's due to its colossal size; solar power accounts for only around 3.5% of total energy consumption. A more comprehensive ...

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