

Global ranking of solar power generation in various countries



Overview

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. According to the International Energy Agency Snapshot 2024, China alone accounted for over 60% of new global photovoltaic capacity in 2023, with the top 10 countries collectively representing a significant majority of the market. In the graphic, each solar panel shows the total megawatts of solar energy installations installed as of 2023 for each country and the average annual. 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: The average for 2023 based on 185 countries was 4. The highest value was in Luxembourg: 32. The indicator is available from 1980 to 2023. Below is a chart for all countries where data are available.

Global ranking of solar power generation in various countries



Chart: Which 10 countries generated the most solar... , Canary Media

Chart: Which 10 countries generated the most solar power in 2023? China was the top solar power producer last year, but it's not the only nation that saw a big leap in solar production.

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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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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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Installed solar energy capacity

Total renewable capacity (on-grid and off-grid) Hydropower Renewable hydropower (including mixed plants) Pumped storage (note that this is included in total hydropower capacity, but ...

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Ranked: The 15 Countries With the Most Solar Power Installed

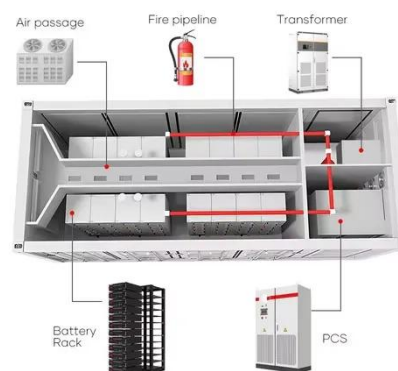
Solar energy capacity is growing rapidly, driving the global transition to renewable energy. This graphic visualizes the top 15 countries by cumulative megawatts of installed ...

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Solar 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.

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Solar electricity generation, percent by country, around the world

The average for 2023 based on 185 countries was 4.92 percent. The highest value was in Luxembourg: 32.39 percent and the lowest value was in Bermuda: 0

percent. The indicator is available from 1980 ...

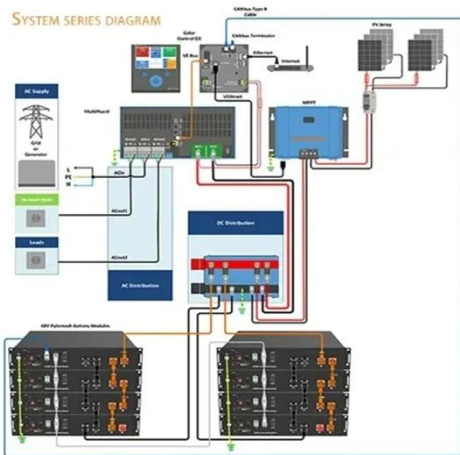
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Top Solar Power Countries in 2025: Leading the Global Renewable

Explore the top solar power countries in 2025, including China, the U.S., India, Japan, and Germany, plus emerging leaders like Brazil and Australia, driving the global shift to sustainable ...

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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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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

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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