World ranking of solar power generation technology

Overview

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. By the end of 2023, photovoltaic solar arrays provided an estimated 6. 5% to 7% of the world's electricity, marking a continued rise in its contribution to global energy generation. According to the 2022 edition of the annual report published by SolarPower Europe, “global solar capacity doubled in 3. Many countries and territories have installed significant solar power capacity into their electrical grids to supplement or provide an alternative to conventional energy sources. 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. Though, looking through the Snapshot of Global PV Markets report from the International Energy Agency's Photovoltaic Power Systems Program (IEA PVPS), a few other charts stood out to me at least as much as the ones showing China's dominance — and China's not even close to the top of those.

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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 installers of 2024 ...

The Best Solar Power Countries in the World Will Shock You

In terms of cumulatively installed solar power capacity in 2024, the best solar PV market in the world was the Netherlands, with Australia and Germany getting silver and bronze.

The Top 5 Solar Countries in the World (2025)

Let's look at the top 5 solar countries in the world (2025), based on installed capacity and global impact. Huanghe Hydropower Hainan Solar Park, China. China dominates the global solar market with ...

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.

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 photovoltaic (PV) and ...

World ranking of solar power generation technologies

SMA Solar Technology. Market cap: $2.53 bn. SMA Solar Technology is a German company that specialises in the development and production of solar inverters and monitoring systems for solar power plants.

Top 5 Countries Leading in Solar Power Adoption

Discover the top 5 countries leading in solar power adoption in 2025, ranked by capacity, growth, and innovation. See who's powering a clean energy future!

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.

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, each advancing ...

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 235 ...

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 and thermal solar panels. The

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