



Solar power generation capacity ranking

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How much solar power will the world produce in 2025?

In 2025, solar power is the cornerstone of the global energy transition, with photovoltaic (PV) systems generating over 2,000 terawatt-hours (TWh) in 2024, or 6.9% of global electricity, per Ember's Global Electricity Review 2025. Doubling from 1 TW in 2022 to 2 TW in 2024, solar capacity is skyrocketing, led by the top solar power countries.

How much solar power does China have in 2024?

China's cumulative solar photovoltaic capacity reached 885.68 gigawatts at the end of 2024. In the last few years, solar power has become an increasingly important energy source around the world.

Which countries produce the most solar power?

Three of the top countries in terms of total capacity - Germany, Spain, and the UK - were also among the world leaders in percentage of domestic generation from wind and solar at 42.9%, 43.3%, and 35.5%, respectively.

What are the top solar power countries in 2025?

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 energy with innovative projects and policies.

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 ...

Discover the world's largest solar farms in 2025. Complete rankings, capacity data, locations, and analysis of mega solar projects transforming global energy.

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The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated ...

Global renewable energy deployment continued its robust growth in 2024, with solar and wind capacity



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increasing by a near-record 23% to almost 3 TW. Solar and wind continue to ...

Cumulative installed solar capacity, measured in gigawatts (GW).

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. [Home](#)> [Data](#)> [View](#) ...

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 ...

Solar electricity capacity, million kilowatts, 2022: The average for 2022 based on 189 countries was 5.64 million kilowatts. The highest value was in China: 393.03 million kilowatts and the lowest value was ...

Solar PV capacity by country Solar PV capacity by country (MW). Share of total electricity consumption On this webpage, you can find the rating of top solar photovoltaic generating countries, get to know ...

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