

Share of solar power generation in developed countries



Overview

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this document. 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. It is widely cited — and widely misunderstood — because many readers silently substitute a different idea: Solar photovoltaics is one of the most cost-effective technologies for electricity generation and therefore its use is growing rapidly across the globe.

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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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What percent of the world uses solar energy? 2026

As of 2023, solar energy was the world's third-largest renewable energy technology, behind wind and hydropower -- nearly 5.5% of global electricity generation came from solar energy ...

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Share of electricity production from



solar

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this ...

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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 ...

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Solar power by country

Overview
North America
Global use figures
Africa
Asia
Europe
Oceania
South America

Sarnia Photovoltaic Power Plant near Sarnia, Ontario, was in September 2010 the world's largest photovoltaic plant with an installed capacity of 80 MWp, until surpassed by a plant in China. The Sarnia plant covers 950 acres (380 ha) and contains about 10.3 million sq feet / 966,000 square metres (96.6 ha), which is about 1.3 million thin film panels. The expected annual energy yield is about 1...



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Solar Energy Statistics By Country, Costs And Economics

China leads the world in solar power production, with 307.9 gigawatts, followed by the United States (95.9 GW), Japan (74.2 GW), Germany (58.5 GW), and India (49.7 GW).

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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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How Much Renewable Energy Countries Use

Using available data collected by Bloomberg, we can watch the shift to zero-emission power--wind, solar, hydro, geothermal and nuclear--as it happens in the U.S., Germany, Brazil and ...

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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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