

Share of countries with solar power generation



Overview

The top five countries are China, United States, India, Japan, and Germany, based on solar power generation and installed capacity. According to a 2024 report by the World Bank, off-grid solar has the potential to bring electricity to nearly 400 million people worldwide for the first time by 2030. Nearly every country in the world has the right combination of geographic conditions, weather, and sunlight to generate all the. 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: Photovoltaic (PV) systems use solar panels, either on rooftops or in. 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. You can find more about Ember's methodology in this. This publication presents renewable energy statistics for the last decade (2015-2024). The International Renewable Energy Agency (IRENA) produces comprehensive, reliable datasets on renewable energy capacity and use worldwide. Renewable energy statistics 2025 provides datasets on 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. In 2025, solar power is the cornerstone.

Share of countries with solar power generation



Share of electricity production from solar, 2025

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 ...

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, ...



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.



Solar power by country

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

European deployment of photovoltaics has increased considerably since the year 2010. Cumulative solar PV capacity in the European Union reached over 300 GW in 2024, with industry projections anticipating total capacity more than doubling by 2030, which would take solar power's share in EU electricity generation (9.2% in 2023) over 20%. Outside of the EU, similar growth in solar power is taking place in the United Kingdom...



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.

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 ...

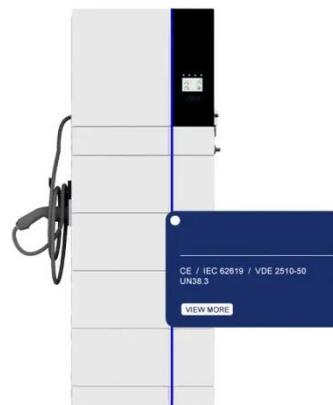


Share of solar in electricity mix by country 2024, Statista

In 2024, Hungary was the leading country in solar energy penetration, with solar power accounting for almost. Log in or register to access precise data. percent of the country's electricity

Which countries use the most solar energy? [Top 13, ...

Our rundown of the countries around the world using the most solar energy, from Mexico to China



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 ...



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.



Renewable energy statistics 2025

Newsletter The International Renewable Energy Agency (IRENA) produces comprehensive, reliable datasets on renewable energy capacity and use worldwide. Renewable energy statistics 2025 ...

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