

The status of solar photovoltaic power generation in my country



Overview

The report is based on data provided by the World Bank through the Global Solar Atlas, a free, web-based tool providing the latest data on solar resource potential globally. 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. Global map showing practical solar energy potential after excluding for physical, environmental and other factors The potential for clean, carbon-free electricity generation from solar photovoltaic (PV) sources in most countries dwarfs their current electricity demand. You can find more about Ember's methodology in this. of PV were added globally, bringing the cumulative installed capacity to 2. The rest of the world was up 11% y/y. The utility-scale data covers all operating solar farm phases with capacities. The majority of new solar power capacity is being deployed in emerging markets (non- OECD countries).

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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.

[Solar energy status in the world: A comprehensive review](#)

It examines the current state of solar power and related academic solar energy research in different countries, aiming to provide valuable guidance for researchers, designers, and policymakers ...



[Solar Energy Statistics By Country, Costs And Economics](#)

Solar Energy Statistics: The shift to renewable energy is growing worldwide, and the solar photovoltaic (PV) industry is expanding at a fast pace. This growth is backed by strong data,

Global Solar Atlas

Calculate energy production for selected sites. The Global Solar Atlas provides a summary of solar power potential and solar resources globally.



[Global solar energy outlook](#)

In the last few years, solar energy has been the main driver for renewable energy growth worldwide. In 2024, solar photovoltaic capacity additions surpassed 600 gigawatts, accounting for ...



[Solar Photovoltaic Power Potential by Country](#)

Global map showing practical solar energy potential after excluding for physical, environmental and other factors. The potential for clean, carbon-free electricity generation from solar photovoltaic (PV) ...



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 power generation, 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 ...



[Spring 2025 Solar Industry Update](#)

o In 2024, between 554 GW. dc. and 602 GW. dc. of PV were added globally, bringing the cumulative installed capacity to 2.2 TW. dc. o China continued to dominate the global market, ...



[Global Solar Power Tracker](#)

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 distributed (<1 ...



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