

World solar power generation ratio



Overview

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. Photovoltaic (PV) systems use solar panels, either on rooftops or in ground-mounted solar farms, converting sunlight directly into electric power. Concentrated solar power (CSP, also known as "concentrated solar thermal") plants use solar thermal energy to make steam, that is thereafter converted. 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. 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. Global solar installations reached nearly 600 GW - an impressive 33% increase over the previous year - setting yet another record. What's new?

Welcome to the Global Solar Atlas. Start exploring solar potential by clicking on the map.

World solar power generation ratio



Solar power generation, 2025

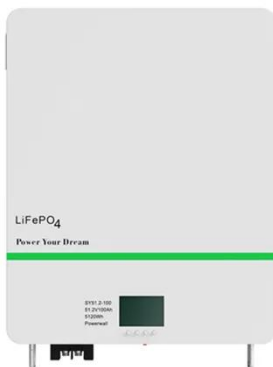
Electricity generation from solar, measured in terawatt-hours.

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Solar power by country

Photovoltaic systems account for the great majority of solar capacity installed in the world. CSP represents a minor share of solar power capacity, and is present in significant quantities only in a few ...

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What percent of the world uses solar energy? 2026

In 2022, 4.6% of the world's electricity generation came from solar energy, an increase from the previous year. China consumed the largest share of the world's solar energy at 32.3%, with ...

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Global Solar Atlas

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...

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Global Market Outlook for Solar Power 2025-2029

Solar accounted for 81% of all new renewable energy capacity added worldwide. While remaining a modest contributor to overall electricity generation for now, solar's share rose to 7% in ...

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Renewable energy statistics 2025

Renewable energy statistics 2025 provides datasets on power-generation capacity for 2015-2024, actual power generation for 2015-2023 and renewable energy balances for over 150 countries and areas for ...

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Electricity production by source, World

Where in the world do people emit the most CO2? Which countries get the most electricity from low-carbon sources? Why

did renewables become so cheap so fast? How have things changed? When ...

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Global solar generation up 31% year-on-year

Solar PV accounted for 17.6% of the world's electricity generation in the first nine months of 2025. Image: American Public Power Association, Unsplash.

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Solar power by country

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

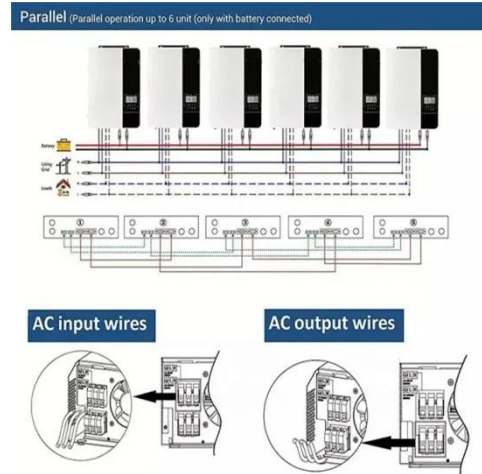
Many countries and territories have installed significant solar power capacity into their electrical grids to supplement or provide an alternative to conventional energy sources. Solar power plants use one of two technologies: o Photovoltaic (PV) systems use solar panels, either on rooftops or in ground-mounted solar farms, converting sunlight directly into electric power.

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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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