

The current status of solar power generation in the world



Overview

In 2024, global solar output rose by 28% (+469 TWh) compared to 2023, more than any other source. China remains the global leader of this surge. 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. In the first six months of 2025, the world added 380 GW of new solar capacity — 64% higher than during the same period in 2024, when 232 GW were installed. The year 2024 was a true landmark year for solar power. Global solar installations reached nearly 600 GW - an impressive 33% increase over the previous year - setting yet another record. Solar accounted for 81% of all new renewable energy capacity added worldwide. 6% of the world's electricity generation in the first nine months of 2025. Image: American Public Power Association, Unsplash. In 2024, solar photovoltaic capacity additions surpassed 600 gigawatts, accounting for over 80 percent of the total renewable power installed during that year.

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Solar Power by Country 2026

Data and analysis including a list of solar power in every ...

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 ...



APPLICATION SCENARIOS



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 energy is going to power

the world much sooner than you think

Is solar power going to take over the world? The past few years have seen a frankly astounding acceleration in the rate of its deployment, with total generation capacity doubling between

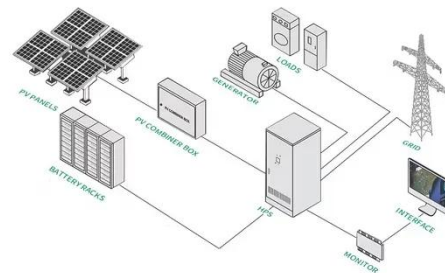


Global solar installations surge 64% in first half of 2025

With deployment surging across key markets and China's rapid scale-up pushing global installations to new highs, 2025 is on track to become another historic year for solar power. The ...

Global Solar Installations Up 64 Percent So Far This Year

Even as the U.S. guts support for renewable power, the world is still pushing ahead on the shift to solar energy, with installations up 64 percent in the first half of this year. Solar is the fastest ...



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 ...

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 ...



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.

Global solar generation up 31% year-on-year

The world generated 2,109.76TWh of electricity from solar PV in the first nine months of the year, more than the total

solar generation reported in 2024. This is according to the Q3 Global



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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