



Solar energy meets global electricity generation



Overview

Clean power surpassed 40% of global electricity generation in 2024, driven by record growth in renewables, especially solar. Compared to other sources of power, “the rise in solar generation is the fastest in the history of electricity,” says Daan Struyven. Due to supportive policies and favourable economics, the world's renewable power capacity is expected to surge over the rest of this decade, with global additions on course to roughly equal the current power capacity of China, the European Union, India and the United States combined, according to a. India saw record solar and wind power generation growth that outpaced the growth in demand in the first half of this year, according to a report by the global energy think-tank Ember. 8 April 2025
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Article Content

Global Electricity Mid-Year Insights 2025

This report analyses changes in global electricity generation from January to June 2025 compared with the same period last year to measure the progress of the global clean energy transition.

Solar accounted for 70% of new global power capacity in 2024

A new IEEE report shows solar dominated new generation in 2024, with 70% of added global capacity from PV and record installations in China and the United States.

Globally interconnected solar-wind system addresses ...

A globally interconnected solar-wind power system can meet future electricity demand while lowering costs, enhancing resilience, and supporting a ...

Renewables become biggest source of electricity ...

Worldwide solar and wind power generation has outpaced electricity demand this year, and for the first time on record, renewable energies combined ...

Global renewable energy generation surpasses coal for ...

The world's wind and solar farms have generated more electricity than coal plants for the first time this year, marking a turning point for the global ...

The Outlook for Global Solar Energy Continues to Be ...

Policymakers in some of the world's largest economies are reducing support for solar power generation. Even so, Goldman Sachs Research expects ...

Massive global growth of renewables to 2030 is set to match entire ...

In terms of technologies, solar PV alone is forecast to account for a massive 80% of the growth in global renewable capacity between now and 2030 - the result of the construction of new ...

Global Electricity Review 2025 Electricity

Clean power surpassed 40% of global electricity generation in 2024, driven by record growth in renewables, especially solar. Heatwaves contributed to high growth in electricity demand which ...

Global solar power grows 31% as renewable energies ...

Worldwide solar and wind power generation has outpaced electricity demand this year, and for the first time on record, renewable energies combined generated ...

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 ...

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