

Solar photovoltaic power generation growth



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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.

Global Market Outlook for Solar Power 2025-2029

Solar experienced the fastest growth among all power generation technologies in terms of electricity output, three times as much as wind power, which was ranked second.



Global solar generation up 31% year-on-year

The world generated 2,109.76TWh of electricity from solar in the first nine months of the year, a 31% increase over the same period in 2025.

Solar Market Insight Report Q4 2025

Photovoltaic (PV) solar accounted for 58% of all new electricity-generating capacity additions through the third quarter of 2025, remaining the dominant form of new electricity-generating



The Outlook for Global Solar Energy Continues to Be Bright

Policymakers in some of the world's largest economies are reducing support for solar power

generation. Even so, Goldman Sachs Research expects rapid growth in the sector, with global

Spring 2025 Solar Industry Update

EIA projects that PV's growth in 2023 (27 GWac) and 2024 (36 GWac) will continue in 2025 (39 GWac) and remain at similar levels in 2026 (36 GWac). In 2024, 24 states and territories



Growth of photovoltaics

From 2016 to 2022, PV has seen an annual capacity and production growth rate of around 26%, doubling approximately every three years.

Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes



Solar PV

Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2.2 terawatts in 2024. Only in that last year, installations increased by almost 40

[Solar PV Significantly Grew Globally in 2024. Bolstered by Cheaper](#)

In 2024, the growth in electricity generation from solar PV alone surpassed that of all other renewable energy (RE) technologies combined.



This is despite a substantial rebound in

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