

Annual power generation and installed capacity of solar panels





Overview

How much solar capacity did the world add in 2025?

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. In 2024, it took until September for global solar capacity additions to surpass 350 GW, while in 2025, the milestone was reached in June.

What is renewable power generation capacity?

Renewable power generation capacity is measured as the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity. For most countries and technologies, the data reflects the capacity installed and connected at the end of the calendar year.

How many solar panels were installed in 2024?

In 2024, global cumulative PV capacity reached over 2.2 TW, with China alone surpassing 1 TW. At least 554 GW of new PV systems were commissioned in 2024, possibly reaching 601.9 GW. China installed up to 357.3 GW, accounting for almost 60% of new global capacity.

Are global solar installations on track for another record year?

Global solar installations are on track for another record year. 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.



Annual power generation and installed capacity of solar panels

Renewable capacity statistics 2025

Renewable power generation capacity is measured as the maximum net generating capacity of power plants and other installations that use renewable energy sources to produce electricity.

...

Installed solar energy capacity

Jul 18, 2025 · Total solar (on- and off-grid) electricity installed capacity, measured in gigawatts. This includes solar photovoltaic and concentrated solar power.

Global Market Outlook for Solar Power 2025-2029

May 6, 2025 · 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 ...

The annual global PV installed capacity in ...

Jan 24, 2025 · The highlight of PV power generation in 2024, as shown in Table 1, is that the annual global PV installed capacity is expected to ...

China's solar capacity installations grew rapidly in 2024

Apr 22, 2025 · Note: NEA considers utility-scale solar to include projects of at least six megawatts of installed alternating current capacity. Utility-scale solar power capacity in China reached ...

Global installed solar PV capacity by scenario, ...

6 days ago · Global installed solar PV capacity by scenario, 2010-2030 - Chart and data by the International Energy Agency.

Snapshot 2025

34 countries installed more than 1 GW of new capacity in 2024; 23 countries now exceed 10 GW in total installed capacity. Utility-scale PV led global installations, but distributed PV remained ...

Global installed solar PV capacity by scenario, 2010-2030

6 days ago · Global installed solar PV capacity by scenario, 2010-2030 - Chart and data by the International Energy Agency.

The annual global PV installed capacity in 2024 is expected ...

Jan 24, 2025 · The highlight of PV power generation in 2024, as shown in Table 1, is that the annual global PV installed capacity is expected to reach the 500 GW level. Since reaching a ...

Global solar installations surge 64% in first half of 2025



Sep 2, 2025 · World installed 380 GW of new solar capacity in first six months of 2025 Global solar installations are on track for another record year. In the first six months of 2025, the world ...

Solar electricity installed capacity , 2023

Official statistics by year of solar electricity installed capacity (GW). The values are presented in tables and charts with calculations of changes and shares, and with extensive analytical ...

Contact Us

For technical specifications, project proposals, or partnership inquiries, please visit:

<https://www.walmerceltic.co.za>

Scan QR Code for More Information



<https://www.walmerceltic.co.za>