



Global solar pv installed capacity 2024

American Solar Deployment Grows at Record Pace Solar has seen massive growth since 2010. There are now 262 gigawatts direct-current of solar capacity installed nationwide, enough to power 45

Record renewables growth led by solar helped push clean power past 40% of global electricity in 2024, but heatwave-related demand spikes led to a small increase in fossil generation.

India installed around 37.8 GW of solar capacity in 2025, according to JKM Research. This comprised about 28.6 GW of new utility-scale solar, a 54.6% increase from 2024, and 7.9 GW of

In 2024, between 554 GWdc and 602 GWdc of PV were added globally, bringing the cumulative installed capacity to 2.2 TWdc. China continued to dominate the global market,

According to the report, global installed photovoltaic capacity rose to between 553 gigawatts and 601 gigawatts by the end of 2024 - a new record.

Global PV installed capacity at the end of 2024 exceeded 2 TW, with China alone accounting for 1 TW installed. Increases in all generating sources can be expected, the authors say,

To understand the drive for solar, it's essential to look at the country's overall energy landscape. Bangladesh's total installed power generation capacity, including captive sources, stands

Global cumulative installed solar PV capacity amounted to approximately 2.2 terawatts in 2024, up from less than 2.6 gigawatts in 2003.

India installed around 37.8 GW of solar capacity in CY2025. This comprised about 28.6 GW of new utility-scale solar, a 54.6% increase from 2024, and 7.9 GW of rooftop solar, up 72% year

Global Solar PV Capacity Reaches 1,865 GW In 2024 As India Emerges As Key Growth Engine--IRENA Report In 2024, global solar photovoltaic capacity surged to 1,865 GW, increasing

According to the Global Solar Council's Africa Market Outlook for Solar PV 2026-2029, Africa installed approximately 4.5 gigawatts of new solar photovoltaic capacity in 2025. This

The global capacity of utility-scale batteries increased more than 12-fold between 2020 and 2024 to 124 GW, while average battery costs fell 58% over the period, according to the

In addition to dominating the PV module production market, China is also the global leader in installed PV



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capacity. What's more, most of the leading solar

Installed solar energy capacity Installed wind energy capacity Investment in renewable energy, by technology
Kaya identity: drivers of CO2 emissions

Developers are forecast to add a record 43.4GW of new utility-scale solar PV capacity to the US power system in 2026, according to the EIA.

Read More: Solar PV Power and Solar Products Handbook Global Solar Market 2026: Strong Structurally
Strong Demand Global cumulative solar PV capacity surpassed 2.2 terawatts in

By the end of 2024, solar PV made up 46% of global renewable capacity, with 2.2 TW installed. By 2030, we expect global installed solar PV capacity to exceed 7 TW by 2030. This would

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Global renewable capacity is expected to increase over 5 520 GW during 2024-2030, 2.6 times more than deployment of the last six years (2017-2023). Utility

Global cumulative solar photovoltaic (PV) capacity rose to more than 2.2 terawatts (TW) by the end of 2024, up from 1.6 TW in 2023, with over 600

The global solar power sector continues to expand as countries accelerate renewable energy deployment and scale up installed capacity across residential, commercial, and utility-scale

According to a November 2024 article by the Brazilian Photovoltaic Solar Energy Association titled "Solar hits 50 GW milestone in Brazil", the country installed 13 gigawatts of new

The Global Rooftop Solar PV Market is projected to experience substantial growth, rising from USD 108.15 Billion in 2025 to USD 272.06 Billion by 2031, achieving a CAGR of 16.62%. This

There were around 15 MW of new solar microgenerators installed in Latvia in 2025, compared to 37 MW in 2024, 67 MW in 2023 and 79 MW in 2022.

Some figures are preliminary. Renewable energy power plants" installed capacity Philippines 2012-2024
Installed capacity of renewable energy power plants Philippines 2024, by



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China has emerged as the dominant force in the solar market, contributing nearly 650 gigawatts of solar PV capacity in 2023, surpassing the

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