

Global status of photovoltaic solar power generation

What is the future of photovoltaics?

Dual-use applications such as agriphotovoltaics, floating PV and infrastructure-integrated PV are becoming increasingly important. The International Energy Agency's (IEA) Photovoltaic Power Systems (PVPS) programme has published its Trends Report for 2024. One key finding is that 2024 was another record year for photovoltaics.

Will solar PV capacity exceed forecasts by 2030?

Cumulative solar PV capacity is expected to exceed most energy analysts' forecasts by 2030. If the solar market trajectory continues as projected, total global solar installations are set to triple over the next five years, surpassing 6 TW by 2029 in the Medium Scenario.

Which country has the most photovoltaic installations in 2024?

With an estimated 357 gigawatts of newly added photovoltaic capacity, China continues to dominate the global PV market, as in previous years. This means that China will account for around 60 per cent of all new installations in 2024. The USA ranks third with 47 gigawatts.

How much power is generated by solar PV in 2023?

Power generation from solar PV increased by a record 320 TWh in 2023, up by 25% on 2022. Solar PV accounted for 5.4% of total global electricity generation, and it remains the third largest renewable electricity technology behind hydropower and wind.

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 ...

A global inventory of utility-scale solar photovoltaic generating units, produced by combining remote sensing imagery with machine learning, has identified 68,661 facilities -- an ...

The Global Solar Atlas provides a summary of solar power potential and solar resources globally. It is provided by the World Bank Group as a free service to governments, developers and ...

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 ...

The utilization of renewable energy as a future energy resource is drawing significant attention worldwide. The contribution of solar energy (including concentrating solar power (CSP) and ...

The IEA PVPS Trends in Photovoltaic Applications 2025 report provides comprehensive data and analysis on global PV deployment, technology, and market evolution from 1992 to 2024.

The efficiency of photovoltaic modules continues to improve, with n-type technologies now accounting for 70

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per cent of global production. n-type technologies are the next generation of ...

Global solar PV power production forecast 2030, by country Forecast solar photovoltaic electricity generation worldwide in 2030, by select country (in terawatt hours)

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 ...

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