

Statistics of solar power generation equipment capacity



Overview

Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2. Only in that last year, installations increased by almost 40 percent. 2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. • The IEA reported Pakistan's rapid rise to fourth place in annual global PV. We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. Data source: IRENA (2025) - Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data.

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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 ...

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Installed solar energy capacity

Depending on the data, this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as ...



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Solar Market Insight Report 2024 Year in Review

The US solar industry installed nearly 50 (49.99) GWdc of capacity in 2024, a remarkable 21% increase from 2023. The industry continued breaking records and experiencing unprecedented growth, ...

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Spring 2025 Solar Industry Update

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. o In 2024, solar represented ...

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U.S. Utility-Scale Solar, 2025 Data Update

Lawrence Berkeley National Laboratory compiled and synthesized empirical data on the U.S. utility-scale solar sector.

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Renewable Capacity Statistics 2025: Solar Power Leads ...

IRENA published renewable power generation capacity statistics for the 2024 and for the past decade. The world's renewable power capacity reached 4,448 GW by the end of 2024.

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Solar Industry Research Data - SEIA

There are now 262 gigawatts direct-current of solar capacity installed nationwide, enough to power 45 million homes. In the last decade, solar deployments have experienced an

average annual growth ...

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Solar, battery storage to lead new U.S. generating capacity additions

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...

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Renewable energy statistics 2025

Newsletter The International Renewable Energy Agency (IRENA) produces comprehensive, reliable datasets on renewable energy capacity and use worldwide. Renewable energy statistics 2025 ...

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