



The latest solar power station power generation



Overview

The rapid expansion of solar capacity in recent years has made it the fastest growing source of new electricity generation. In 2024, global solar output rose by 28% (+469 TWh) compared to 2023, more than any other source. China remains the global leader of this surge. What follows are the top 10 solar power plants that are actually operational and verifiably producing power as of 2025. No speculative or half-built megaprojects and planned expansions. Most are individual photovoltaic power stations, but some are groups of co-located plants owned by different independent power producers and with separate transformer. We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U. This amount represents an almost 30% increase from 2024 when 48.6 GW of capacity was installed, the largest. IEA PVPS has released its latest Trends in Photovoltaic Applications 2025 report, revealing that the world's cumulative installed PV capacity surpassed 2 260 GW by the end of 2024, marking a 29% year-on-year increase.



Article Content

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.

World's 10 biggest solar power projects transforming ...

Discover the world's biggest operational solar farms and the mega projects set to reshape tomorrow's renewable energy landscape.

World's Largest Solar Farms 2025: Complete Guide To Mega Projects

Discover the world's largest solar farms in 2025. Complete rankings, capacity data, locations, and analysis of mega solar projects transforming global energy.

China Solar PV News Snippets

A 150 MW/300 MWh grid-forming shared energy storage power station in Yongde County, Lincang City, Yunnan Province, was recently put into operation. The project is said to be the ...

Trends in PV Applications 2025

Dual-use applications such as agrivoltaics, floating PV, and infrastructure-integrated PV are becoming increasingly relevant, helping balance land use, food ...

Major Solar Projects List

The Major Solar Projects List is a database of all ground-mounted solar projects, 1 MW and above, that are either operating, under construction or under development. The list is for ...

List of photovoltaic power stations

The size of photovoltaic power stations has increased progressively ...

America's Electricity Generation Capacity, 2025 Update

In 2024, over 30,000 MW of solar capacity came online, which is a 30% increase in operating solar capacity. An additional 34,000 MW are under preparation, testing, or construction and projected to ...

Global solar installations surge 64% in first half of 2025

The rapid expansion of solar capacity in recent years has made it the fastest growing source of new electricity generation. In 2024, global solar output rose by 28% (+469 TWh) compared ...

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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