

Global installed capacity of solar power and energy storage



Overview

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency. 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. To cite data downloaded from this page. GW = gigawatts; PV = photovoltaics; STEPS = Stated Policies Scenario; NZE = Net Zero Emissions by 2050 Scenario. Other storage includes compressed air energy storage, flywheel and thermal storage. Hydrogen electrolyzers are not included. While remaining a modest contributor to overall electricity generation for now, solar's share rose to 7% in 2024 - nearly doubling in just three years. Annual deployments are also set to scale in Germany, the UK, Australia, Canada, Saudi Arabia and Sub-Saharan Africa, driven.



Article Content

Global Energy Storage Boom: Three Things to Know

Global energy storage additions are on track to set another record in 2025 with the two largest markets – China and US – overcoming adverse policy shifts and tariff turmoil.

Renewable Capacity Highlights 2025

26 March 2025 Renewable power capacity by energy source 4% 25% 42% At the end of 2024, global renewable power capacity amounted to 4 448 GW. Solar, in line with the previous year, accounted ...

Global Market Outlook for Solar Power 2025-2029

Across all regions, developing a skilled workforce and setting ambitious solar and storage targets are essential tasks. In these times of political uncertainty, low-cost solar power could turn into ...

Global installed energy storage capacity by scenario, ...

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

Global Risks Report 2025 | World Economic Forum

The Global Risks Report 2025 analyses global risks to support decision-makers in balancing current crises and longer-term priorities.

Global Cybersecurity Outlook 2025 | World Economic Forum

The Global Cybersecurity Outlook 2025 highlights key trends shaping economies and societies in 2025, along with insights into emerging threats and solutions.

Global Risks Report 2023 | World Economic Forum

The World Economic Forum's Global Risks Report 2023 explores some of the most severe risks we may face over the next decade that include energy supply and food crisis, rising ...

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 ...

These are the biggest global risks we face in 2024 and beyond

The World Economic Forum's Global Risks Report 2024 says the biggest short-term risk stems from misinformation and disinformation. In the longer term, climate-related threats dominate ...

Snapshot 2025

Curtailment is increasingly prevalent in high-penetration markets, underlining the need for grid flexibility, storage, and new business models. PV represented more than 75% of all new renewable generation ...

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 ...

In charts: 7 global shifts defining 2025 so far | World Economic Forum

2025 has been marked by significant global shifts, including increased geopolitical instability, the accelerating impact of AI and a changing labour market.

Global energy storage installed capacity by 2025

To triple global renewable energy capacity by 2030 while maintaining electricity security, energy storage needs to increase six-times. To facilitate the rapid uptake of new solar PV and wind, global energy ...

How supply chains need to adapt to a shifting global landscape

Global supply chains face rising geopolitical fragmentation and economic divergence, driving four plausible outlooks, from multilateral cooperation to full degradation.

ASEAN is turning global tensions into regional opportunities

In a time of fragmentation, ASEAN stands out as a rare economic bright spot because it's leveraging global uncertainty into a strategic advantage.

World Economic Forum Annual Meeting 2026

World leaders from government, business, civil society and academia will convene in Davos to engage in forward-looking discussions to address global issues and set priorities. The call ...

Why we need innovative funding models for global health

Global health gains are at risk. New funding models, regional systems and delivery innovation are vital to build resilient, equitable healthcare worldwide.

Solar energy status in the world: A comprehensive review

A comparison of the solar power status among countries and territories has been provided, considering their concentrated solar power and PV installed capacities for each continent.

The global economy enters a new era | World Economic Forum

The global economic system under which most countries have operated for the last 80 years is being reset, ushering the world into a new era. Existing rules are challenged while new ones ...

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