



Global development of solar power generation enterprises



Overview

The solar power generation industry is experiencing unprecedented global growth, driven by a confluence of environmental, technological, economic, and political factors. This is roughly the equivalent of adding China, the European Union and Japan's power generation capacity combined to the global energy mix. Solar PV accounts for almost 80% of the global. 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 solar installations set to rise to 914 Gigawatts (Gw) in 2030, 57% above 2024 levels. Global solar installations reached nearly 600 GW – an impressive 33% increase over the previous year – setting yet another record. China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y.



Article Content

A global inventory of photovoltaic solar energy generating units

Here we provide a global inventory of commercial-, industrial- and utility-scale PV installations (that is, PV generating stations in excess of 10 kilowatts nameplate capacity) by using a...

Global Solar Power Tracker

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 ...

Spring 2025 Solar Industry Update

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, ...

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 ...

Executive summary – Renewables 2025 – Analysis

Solar PV accounts for almost 80% of the global increase, followed by wind, hydropower, bioenergy and geothermal. In more than 80% of countries ...

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.

Solar energy status in the world: A comprehensive review

The present review study, through a detailed and systematic literature survey, summarizes the world solar energy status along with the published solar energy potential assessment articles for ...

Trends in PV Applications 2025

The IEA PVPS Trends in Photovoltaic Applications 2025 report provides comprehensive data and analysis on global PV deployment, technology, and ...

Key Drivers Behind the Rapid Growth of the Solar Power Generation ...

The solar power generation industry is experiencing unprecedented global growth, driven by a confluence of environmental, technological, economic, and political factors.

The Outlook for Global Solar Energy Continues to Be ...

Policymakers in some of the world's largest economies are reducing support for solar power generation. Even so, Goldman Sachs Research expects ...

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