

World Solar Photovoltaic Panel Production Capacity



Overview

Solar photovoltaics is one of the most cost-effective technologies for electricity generation and therefore its use is growing rapidly across the globe. Cumulative installed solar capacity, measured in gigawatts (GW). This includes solar photovoltaic and concentrated solar power. 2 terawatts as of the end of 2024. Between 2025 and 2029, global solar photovoltaic capacity additions are projected to increase yearly and range from some 655 gigawatts in 2025 to 930. The latest report from the International Energy Agency's (IEA) Photovoltaic Power Systems Programme (PVPS) highlights that 2024 was another record year for solar installations but large overcapacities of solar cell, module and wafer manufacturing continued. The global solar market set yearly. Will new PV manufacturing policies in the United States, India and the European Union create global PV supply diversification?

Manufacturing capacity and production in 2027 is an expected value based on announced policies and projects. APAC = Asia-Pacific region excluding India and China.



Article Content

Solar PV

In 2024, cumulative solar PV capacity reached some 886 gigawatts in China alone. Investments in solar photovoltaic energy have grown during the last years and the technology stands

Solar photovoltaic panel prices

Solar photovoltaic module prices refer to the cost of the solar panel itself, and do not include installation or other system components. Prices are

Tier 1 Solar Panel Manufacturers List - Q1 2026

Tier 1 list of solar panel manufacturers Q1 2026 according to BloombergNEF. Discover which brands lead the photovoltaic market.

Solar Panels Solutions and PV Modules | JinkoSolar EU

Explore the wide range of solar panel solutions from one of the largest and most innovative solar module and energy storage manufacturer around the world.

Executive summary - Solar PV Global Supply Chains

Global capacity for manufacturing wafers and cells, which are key solar PV elements, and for assembling them into solar panels (also known as modules),

Global solar PV supply chain

Discover all statistics and data on Global solar PV supply chain now on statista !

Solar Power by Country 2026

Solar Power by Country According to the International Energy Agency Snapshot 2024, China alone accounted for over 60% of new global photovoltaic capacity in

Solar PV Global Supply Chains - Analysis

This special report examines solar PV supply chains from raw materials all the way to the finished product, spanning the five main segments of the

Elon Musk Says SpaceX, Tesla Eye 100 GW/Year US Solar

Space Exploration Technologies Corp (SpaceX) and Tesla teams are separately working on building 100 GW/year of solar PV manufacturing capacity in the US within the next 3 years,

Thirty-five countries now operate GW-scale annual PV markets

Global production of solar modules reached 728 GW in 2024. This represents an 18.5% increase on 2023, which equates to a significant slowdown when compared to the 61.7% year-on

Solar PV manufacturing capacity and production by country and

Solar PV manufacturing capacity and production by country and region, 2021-2027 - Chart and data by the International Energy Agency.

Global installed photovoltaic capacity exceeds 2,260 gigawatts in 2024

According to the report, global installed photovoltaic capacity rose to between 553 gigawatts and 601 gigawatts by the end of 2024 - a new record. Compared to 2023, this represents

Solar power in Germany - output, business & perspectives

Newly added capacity in 2024: ca. 17 GWp Projected expansion: 215 GWp (2030)
Output: 74 TWh (2024) Share in gross power production: 15 %

Trends in PV Applications 2025

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%

Photovoltaics Report

With increasing generation capacity from solar and wind, the flexible integration of volatile electricity into the grid becomes more important. Grid expansion, load management, smart grids, bidirectional

Snapshot 2026

IEA PVPS Task 1 has published the Snapshot of Global PV Markets 2026 report. Based on official data from national authorities and industry experts estimations, the report provides a preliminary overview

Silver Demand Forecast to Expand Across Key Technology Sectors

Solar Photovoltaics As countries worldwide commit to renewable energy transitions and solar installations expand, solar photovoltaic technology is among the most significant and fastest

Solar panel manufacturers in the United States

U.S. solar panel manufacturers This is a current grouping of solar manufacturers in the United States that produce solar panels and their

Solar Panel Statistics, Facts, and Trends of 2026

Discover the latest global solar panel statistics, facts, and trends of 2024. Stay informed about the rise of solar power worldwide.

Silver in 2026 and Beyond: Rising Prices, Solar

Silver prices surge in 2026 as solar manufacturers cut usage, investment demand rebounds, and supply deficits persist.

Renewable Power Generation Costs in 2023

The levelised cost of electricity produced from most forms of renewable power continued to fall year-on-year in 2023, with solar PV leading the cost reductions, followed by offshore wind.

Australian Photovoltaic Institute

The Solar Analytics PV production data is sourced from several thousand sites across Australia from system owners who have installed Solar Analytics monitoring to ensure system health

Growth of photovoltaics

IEA-PVPS published in 2014 historical data for the worldwide utilization of solar PV module production capacity that showed a slow return to normalization in manufacture in the years leading up to 2014.

Solar energy in China

Global cumulative solar PV capacity 2024, by select country Global solar PV capacity installations 2024 Renewable power production share in China 2000-2024, by source

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