



Official report on solar panel photovoltaic power generation



Overview

For the 29th consecutive year, the IEA-PVPS Trends report is now available. In 2024, between 554 GWdc and 602 GWdc of PV were added globally, bringing the cumulative installed capacity to 2. The rest of the world was up 11% y/y. The IEA reported Pakistan's rapid rise to. Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry. Each presentation focuses on global and U. supply and demand, module and system price, investment trends and business models, and. More than one-third of U. solar power capacity is small-scale solar—a share that has been declining in recent years because utility-scale solar has been growing faster. This document provides the most comprehensive global overview of the development of the Photovoltaics sector, covering policies, drivers, technologies, statistics and industry analysis. 7 gigawatts direct current (GWdc) of capacity in Q3 2025, a 20% increase from Q3 2024, a 49% increase from Q2 2025, and the third largest quarter for deployment in the industry's history.



Article Content

Photovoltaics Report

The information provided in this Photovoltaics Report is very concise by its nature . Its principal purpose is to provide a rough overview about the current solar PV market, the technologies and the ...

Solar Market Insight Report Q4 2025

Photovoltaic (PV) solar accounted for 58% of all new electricity-generating capacity additions through the third quarter of 2025, remaining the dominant form of new electricity-generating ...

Photovoltaic Geographical Information System (PVGIS)

PVGIS is a free web application that allows the user to get data on solar radiation and photovoltaic system energy production, in most parts of the world.

Short-Term Energy Outlook

We forecast small-scale solar PV capacity using historical monthly data of small-scale capacity reported in our Monthly Electric Power Industry ...

Quarterly Solar Industry Update

Each presentation focuses on global and U.S. supply and demand, module and system price, investment trends and business models, and updates ...

Solar PV Energy Factsheet

Solar energy can be harnessed two primary ways: photovoltaics (PVs) are semiconductors that generate electricity directly from sunlight, while solar ...

Spring 2025 Solar Industry Update

EIA projects that PV's growth in 2023 (27 GWac) and 2024 (36 GWac) will continue in 2025 (39 GWac) and remain at similar levels in 2026 (36 GWac). In 2024, 24 states and territories ...

Solar energy status in the world: A comprehensive review

It examines the current state of solar power and related academic solar energy research in different countries, aiming to provide valuable guidance for researchers, designers, and policymakers ...

Renewable energy statistics 2025

Data was obtained from various sources, including an IRENA questionnaire, official national statistics, industry association reports, consultant reports and news articles.

Trends in PV Applications 2024

For the 29th consecutive year, the IEA-PVPS Trends report is now available. This document provides the most comprehensive global overview of the development ...

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