

Solar Power Generation Industry Development Report



Overview

The IEA PVPS Trends in Photovoltaic Applications 2025 report provides comprehensive data and analysis on global PV deployment, technology, and market evolution from 1992 to 2024. Shayna Grossman, Oak Ridge Institute for Science and Education (ORISE) Fellow Meenakshi Narayanaswami, NREL Photo from Stacie Peterson, contestant in the U. Department of Energy's 2024 Hit Me With Your Sun Shot photo competition NREL | 2 Agenda 1 Global Solar Deployment 2 U. PV. The US solar industry installed 11.7 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. Following a low second quarter, the industry is ramping up as the end of. Electricity generation by the U. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U. 6% in 2027, when it reaches an annual total of 4,423 BkWh. supply and demand, module and system price, investment trends and business models, and. Global solar installations reached nearly 600 GW - an impressive 33% increase over the previous year - setting yet another record. Solar accounted for 81% of all new renewable energy capacity added worldwide.

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Global Market Outlook for Solar Power 2025-2029

There is no doubt that solar power has become the driving force of the global energy transition. Looking ahead, however, there remain challenges that must be addressed for solar to ...

Solar power generation drives electricity generation growth over the

Solar power generation drives electricity generation growth over the next two years



Quarterly Solar Industry Update

Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.

Solar Market Insight Report Q4

2025

Despite the changing market and policy conditions that the solar industry has faced this year, solar will remain the dominant power source added to the grid in the next five years.



Solar Market Insight Report - SEIA

US Solar Market Insight is a quarterly publication of Wood Mackenzie and the Solar Energy Industries Association (SEIA).

Trends in PV Applications 2025

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2026 Renewable Energy Industry Outlook , Deloitte Insights

Beyond utility-scale wind and solar, phaseouts are reshaping other

ESS



technologies. The residential solar 25D credit sunsets after 2025, pushing installers toward leasing, power purchase agreements ...

The Outlook for Global Solar Energy Continues to Be Bright

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 ...



Spring 2025 Solar Industry Update

o At the end of 2024, solar was the second-largest source of U.S. generation capacity, though still a growing percentage of the U.S. electric generation mix. o In 2024, solar represented ...

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
worldwide, renewable power capacity is
set to grow faster ...



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