

Backlog of photovoltaic panels



Overview

In the third quarter of 2025, solar projects representing about 20% of planned capacity reported a delay, a decrease from 25% in the same period in 2024, based on data compiled from multiple Preliminary Monthly Electric Generator Inventory reports. In an effort to address the growing backlog of clean energy projects waiting to be connected to the grid, the Department of Energy (DOE) has released a new roadmap outlining potential solutions. Solar power is the fastest-growing source of new. Photovoltaics is a fast growing market: The Compound Annual Growth Rate (CAGR) of PV installations was about 27% between 2014 to 2024. Moreover, NLR conducts analysis of solar industry supply chains, including domestic content, and provides quarterly updates on important developments in the industry. For the 28th consecutive month, solar led every other energy source in new US generating capacity — a streak that began in September 2023 and ran unbroken through December 2025, according to FERC. The US solar industry installed 43.2 gigawatts direct current (GWdc) of capacity in 2025, a 14% decrease from 2024. Revised tax credit timelines and safe harbor dynamics reduced the imperative to interconnect by.



Article Content

Backlog of photovoltaic panels

Backlog of photovoltaic panels In an effort to address the growing backlog of clean energy projects waiting to be connected to the grid, the Department of Energy (DOE) has released a new roadmap

Fewer U.S. solar projects are reporting delays in their expected online ...

In the third quarter of 2025, solar projects representing about 20% of planned capacity reported a delay, a decrease from 25% in the same period in 2024, based on data compiled from

Advancements in photovoltaic technology: A comprehensive review of ...

Emerging photovoltaic applications are expanding the scope and functionality of solar energy systems beyond conventional installations. Agrivoltaic systems, which integrate solar panels

U.S. renewables developers face daunting grid

Despite any uncertainty caused by the change in U.S. administrations, funding and tax credits for renewable energy projects under the

Photovoltaics Report

The intention of the »Photovoltaics Report« is to provide up-to-date information on the PV market and on efficiencies of solar cells, modules and systems. Moreover, data on inverters, energy payback time

IEA's 2026 Energy Investment Outlook: Clean Energy Spending Hits

Global clean energy investment is on track to set a new record in 2026, with spending on solar, wind, grids, and storage now surpassing fossil fuel investment. Solar photovoltaic investment

Solar Market Insight Report – SEIA

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

Solar Market Insight Report Q2 2025

Overall, photovoltaic (PV) solar accounted for 69% of all new electricity-generating capacity additions in the first quarter of 2025, remaining the

Investigation of Degradation of Solar Photovoltaics: A Review of

The degradation of solar photovoltaic (PV) modules is caused by a number of factors that have an impact on their effectiveness, performance, and lifetime. One of the reasons contributing to

Solar PV Global Supply Chains – Analysis

Solar PV is a crucial pillar of clean energy transitions worldwide, underpinning efforts to reach international energy and climate goals. Over the

Solar Market Insight Report 2025 Year in Review – SEIA

Photovoltaic (PV) solar accounted for 54% of all new electricity-generating capacity additions in 2025. Despite a turbulent 2025, solar remains

End-of-Life Management for Solar Photovoltaics

This includes everything from solar panel design and materials usage at the beginning of the lifecycle to maintenance and repair and, finally, decommissioning and recycling at the end of life. SETO's

From efficiency to eternity: A holistic review of photovoltaic panel ...

As solar photovoltaics' share of the world's energy sources grows, proper studies are needed to anticipate a return on investment and choose the optimum PV technology for different

Global Market Outlook for Solar Power 2025-2029

The year 2024 was a true landmark year for solar power. Global solar installations reached nearly 600 GW – an impressive 33% increase over the previous year – setting yet another

Toward traceable global systems for end-of-life photovoltaic waste

The rapid growth of the photovoltaic (PV) industry has made it an important force in driving the global energy transition and carbon neutrality goals.

A comprehensive review on solar photovoltaics ...

These panels are produced by a layer of PV cells set in an aluminum frame and protected by tempered glass. They transform sunlight into electricity, but only on the front side. Bifacial solar

Solar Supply Chain and Industry Analysis | Solar Market Research

NLR conducts detailed supply chain analysis for specific photovoltaic module technologies. These analyses include production locations, supply chain risk and costs, and material

Grid connection backlog grows by 30% in 2023, dominated by

With grid interconnection reforms underway across the country, a Berkeley Lab-led study shows nearly 2,600 gigawatts of energy and storage capacity in transmission grid interconnection

by International Energy Agency Photovoltaic Power Systems

The IEA Photovoltaic Power Systems Programme (IEA PVPS) is one of the TCP's within the IEA and was established in 1993. The mission of the programme is to “enhance the international collaborative

How much is the recycling price of backlog solar panels?

1. Understanding the Recycling Price of Backlog Solar Panels: The recycling price varies significantly based on several factors, including location,

Next-generation reverse logistics networks of photovoltaic recycling ...

We identify the main bottlenecks and hurdles including, among others, the lack of supportive regulations and absence of structured, optimized recycling infrastructure.

U.S. electric power sector reported fewer delays for new solar capacity ...

The U.S. electric power sector reported fewer delays to install new utility-scale solar photovoltaic (PV) projects in 2023 than in 2022. In 2023, solar developers pushed back the

Advancements and Challenges in Photovoltaic Cell Recycling: A

This review examines the complex landscape of photovoltaic (PV) module recycling and outlines the challenges hindering widespread adoption and efficiency. Technological complexities

A review of solar photovoltaic technologies: developments, challenges ...

This review paper provides a comprehensive analysis of solar photovoltaics, covering key aspects such as the historical development of PV technology, different photovoltaic cell types,

US Solar Energy Boom Hits 28 Months Running: Gas Turbine

US solar energy growth defied federal policy cuts for a record 28 months through 2025, as AI data center electricity demand and a gas turbine manufacturing crisis with delivery dates pushed

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