

**PIENAAR ENERGY (PTY) LTD**

# **Global Trends in Photovoltaic Energy Storage in 2025**



**2MW / 5MWh  
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## Overview

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BNEF forecasts that global energy storage additions will reach 92 GW or 247 GWh in 2025, excluding pumped hydro. This marks a 23 percent increase in gigawatts over 2024, reflecting robust growth across established and emerging markets. 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% year-on-year increase. According to the report, 2024 was another record year for solar PV, with between. The IEA-PVPS 2025 Snapshot of Global PV Markets reveals a pivotal moment for solar power: global PV capacity surpassed 2. 2 TW, with more than 600 GW installed in 2024 alone. Several major trends are shaping the solar industry, driven by technological advancements, policy support, and growing environmental awareness.

## Global Trends in Photovoltaic Energy Storage in 2025



### 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 ...

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### Snapshot of photovoltaics - March 2025

After the 2022 price spike for solar photovoltaic hardware and battery storage, prices in both markets continued to decrease in 2024. Levelised costs of electricity for non-tracking solar photovoltaic ...



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### Solar and Storage: A Year of Transformations, Global Projects, and

Explore the key trends shaping the future of solar and energy storage in 2025. As the new year begins, the global solar and energy storage sectors face a pivotal moment defined by

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## Major solar energy trends in 2025

In 2025, solar energy continues to evolve as a key player in the global transition toward sustainable and renewable energy sources. Several major trends are shaping the solar industry, ...

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## Trends in PV Applications 2025

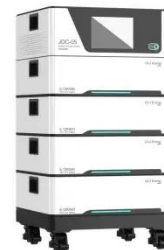
The IEA PVPS Trends in Photovoltaic Applications 2025 report provides comprehensive data and analysis on global PV deployment, technology, and market evolution from 1992 to 2024.

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## BNEF forecasts record 2025 for global energy storage

The global market for energy storage is set to reach unprecedented levels next year, with utility-scale projects leading the charge, according to BNEF. BNEF forecasts that global energy ...

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## Spring 2025 Solar Industry Update

o In January 2025, the 300 MW/1,200 MWh Moss Landing energy storage facility in California caught fire, which



lasted a week. - Residents close to the site reported feeling ill afterward, ...

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## Energy storage: 5 trends to watch in 2025 , Wood Mackenzie

The scene is set for significant energy storage installation growth and technological advancements in 2025. Outlook and analysis of emerging markets, cost and supply chain risk, ...

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## 2025: A landmark year for solar energy - pv magazine ...

The report is part of IEA-PVPS Task 1, which focuses on the technical, economic, and social aspects of PV power systems.

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## Solar Energy & Home Storage Trends 2025-2030

Explore the latest trends in solar energy and home storage systems for

2025-2030. Discover benefits of energy storage, inverter advancements, and emerging technologies shaping the future of renewable ...

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