

**PIENAAR ENERGY (PTY) LTD**

# **Solar power generation development report**



## Overview

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Solar continues to be the main fuel type for new additions, with over 30,000 MW of solar energy added in 2024, nearly double the amount added in 2023. This report also analyzes prospective generation capacity in four categories — under construction, permitted. 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. The. of PV were added globally, bringing the cumulative installed capacity to 2. The rest of the world was up 11% y/y. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity. Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.

## Solar power generation development report



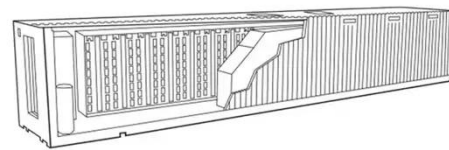
### Trends in PV Applications 2025

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.

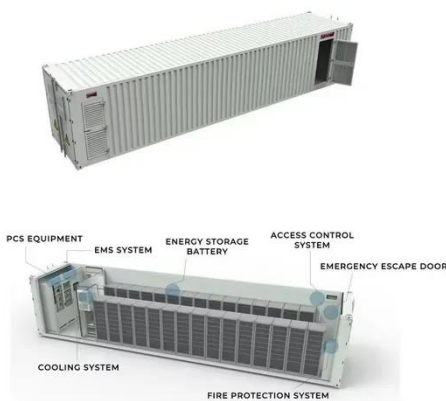
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### Spring 2025 Solar Industry Update

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 ...



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### Renewable electricity - Renewables 2025 - Analysis

Renewables 2025 - Analysis and key findings. A report by the International Energy Agency.

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## Solar Market Insight Report Q4 2025

As new development opportunities for traditional community solar continue to decline, community solar developers report increased interest in exploring community-scale solar and storage ...

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## Solar energy status in the world: A comprehensive review

The present review study, through a detailed and systematic literature survey, summarizes the world solar energy status along with the published solar energy potential assessment articles for ...

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## U.S. developers report half of new electric generating capacity will

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the ...

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## Solar power generation drives electricity generation growth over the



We expect the combined share of generation from solar power and wind power to rise from about 18% in 2025 to about 21% in 2027. In our STEO forecast, utility-scale solar is the fastest ...

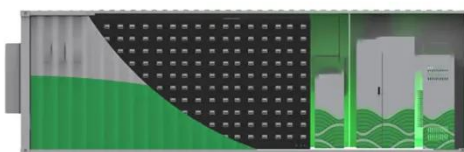
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## Quarterly Solar Industry Update

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

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## Solar Market Insight Report - SEIA

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

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## America's Electricity Generating Capacity

Solar continues to be the main fuel type for new additions, with over 30,000 MW of solar energy added in 2024, nearly

double the amount added in 2023. This report also analyzes prospective generation ...

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