

## PIENAAR ENERGY (PTY) LTD

# Solar power generation equipment capacity



## Overview

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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 second half of the year, according to our latest survey of electric generating capacity changes. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity. The 2024 ATB presents capacity factor estimates that encompass a range associated with advanced, moderate, and conservative technology innovation scenarios across the United States. Future year projections are derived from bottom-up benchmarking of PV CAPEX and bottom-up engineering analysis of O&M. Cumulative installed solar capacity, measured in gigawatts (GW). We represent public power before the federal government to protect the interests of the more than 55 million people that public power utilities.

## Solar power generation equipment capacity

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

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### Capacity and Generation by State , Energy ...

Data from 2007 through 2024. Source: Berkeley Lab, Utility-Scale Solar Data Update 2025

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### Utility-Scale PV , Electricity , 2024 , ATB , NLR

Utility-Scale PV Units using capacity above represent kWAC. 2024 ATB data for utility-scale solar photovoltaics (PV) are shown above, with a base year of 2022. The Base Year estimates rely on ...

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## Solar Market Insight Report - SEIA

Solar accounted for 58% of all new electricity-generating capacity added to the US grid through the third quarter of 2025, with more than 30 GW installed. Solar and storage, combined, ...

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## Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...

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## Installed solar energy capacity

Depending on the data, this can include standardizing country names and world region definitions, converting units, calculating derived indicators such as per capita measures, as well as ...

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## Solar & Battery Storage to Lead New U.S. Generating Capacity ...

In 2024, generators added a record 30



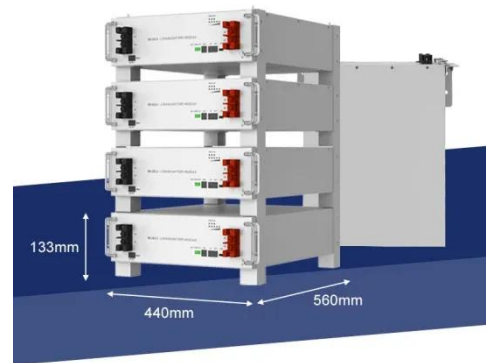
GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with ...

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## FERC: Renewables made up 88% of new US power generating ...

Renewables accounted for 88% of all new generating capacity to the end of November, while natural gas added just 11.8%, reports FERC.

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## A global inventory of photovoltaic solar energy generating units

Here we provide a global inventory of commercial-, industrial- and utility-scale PV installations (that is, PV generating stations in excess of 10 kilowatts nameplate capacity) by using a

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## America's Electricity Generation Capacity, 2025 Update

Solar is the leading resource for permitted plants, accounting for more than 70% of the 78,039 MW of permitted generation capacity. Wind and natural gas account for another quarter of capacity in this ...

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