

# 2025 New Solar Power Generation



IP65/IP55 OUTDOOR CABINET

OUTDOOR MODULE CABINET

OUTDOOR 5G BASE STATION CABINET

WATERPROOF



## Overview

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According to the US Energy Information Administration (EIA), developers plan to add 64 gigawatts (GW) of new utility-scale capacity in 2025, surpassing the previous record of 58 GW set in 2002. At the heart of this expansion is solar power, supported by rapidly growing battery. Electricity generation by the U.S. electric power sector totaled about 4,260 billion kilowatthours (BkWh) in 2025. In our latest Short-Term Energy Outlook (STEO), we expect U.S. electricity generation to grow 6% in 2027, when it reaches an annual total of 4,423 BkWh. Globally, renewable power capacity is projected to increase almost 4,600 GW between 2025 and 2030 – double the deployment of the previous five years (2019-2024). Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity. In the first six months of 2025, the world added 380 GW of new solar capacity — 64% higher than during the same period in 2024, when 232 GW were installed.

## 2025 New Solar Power Generation

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### Global solar installations surge 64% in first half of 2025

Global solar installations are on track for another record year. In the first six months of 2025, the world added 380 GW of new solar capacity -- 64% higher than during the same period in ...

### US added 2 GW of solar in September, putting 2025 ...

Solar accounted for 75% of the 28 GW of new generation installed in 2025 so far, followed by wind at 13% and gas at 11%.



**INTEGRATED DESIGN**  
EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



### 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 ...

## Solar and wind are covering all new power demand in ...

Solar and wind growth met all new power demand in 2025, pushing fossil generation to stall for the first time since the pandemic.



## Record-breaking year ahead for US power generation with

Solar power is expected to provide more than half of the new electricity capacity added in 2025. Developers have already installed 12 GW in the first half of the year, with another 21 GW ...

## More Than 50% of New U.S. Electric Generating Capacity Will Come ...

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 ...



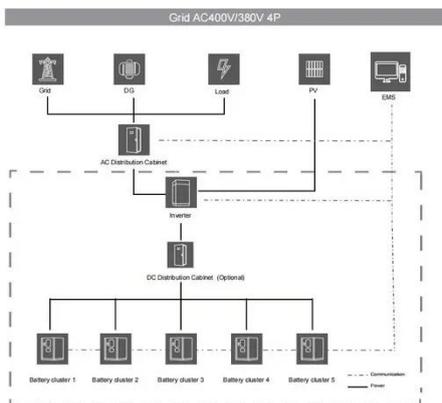
## Renewable electricity - Renewables 2025 - Analysis

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 ...



## Solar power generation drives electricity generation growth over the

In our STEO forecast, utility-scale solar is the fastest-growing source of electricity generation in the United States, increasing from 290 BkWh in 2025 to 424 BkWh by 2027.



## The Future of Solar Energy in 2025 and Beyond

The global solar energy market has witnessed unprecedented growth, with cumulative solar capacity projected to exceed 4,000 GW by 2025. The International Energy Agency anticipates that solar ...

## Solar panels and batteries lead US power generation in ...

Solar panels and batteries lead the US power generation in 2025. Explore their impact and join the renewable energy revolution today!



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