

## PEES Power Systems

# Solar power generation scale forecast



## Overview

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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. Electricity generation by the U. 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. Policymakers in some of the world's largest economies are reducing support for solar power generation. Even so, Goldman Sachs Research expects rapid growth in the sector, with global solar installations set to rise to 914 Gigawatts (Gw) in 2030, 57% above 2024 levels. Compared to other sources of. In our most realistic scenario, we anticipate a 10% increase in installations to 655 GW in 2025, with annual growth rates remaining in the low double digits between 2027-2029, reaching 930 GW by the end of this outlook period. EIA's latest monthly "Electric Power Monthly" report (with data through Novem), once again. • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. • At the end of 2024, global CSP.

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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 ...

### IEA forecasts over 4,000GW of global photovoltaic (PV ...

Recently, the International Energy Agency (IEA) predicted that global photovoltaic solar power capacity additions will exceed 4,000 GW by 2030.

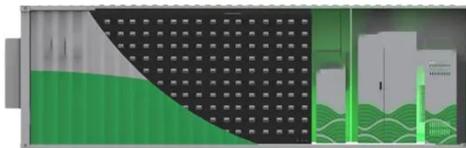


### EIA: 99%+ of new US capacity in 2026 will be solar, wind

Solar, wind, and batteries are set to supply virtually all net new US generating capacity in 2026, according to the latest EIA data.

## Spring 2025 Solar Industry Update

- Together, utility -scale solar and wind generation accounted for more power than coal generation. - Solar overtook hydropower to be the second -largest source of renewable energy ...



## Final 2025 Photovoltaic (PV) Forecast

The PV forecast is a projection of distributed PV resources to be used in ISO-NE System Planning studies, consistent with its role to ensure prudent planning assumptions for the bulk power system

## The Outlook for Global Solar Energy Continues to Be Bright

Policymakers in some of the world's largest economies are reducing support for solar power generation. Even so, Goldman Sachs Research expects rapid growth in the sector, with global ...



## Utility-Scale Solar in 2025: Key Trends, Technology & Industry Forecast



Explore the top trends and projections for utility-scale solar in 2025. From smart tech to battery storage and global investment, here's what's shaping the future of large-scale solar power.

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## Solar Photovoltaic Market Size, 2025-2034 Trends Report

The solar photovoltaic market size crossed USD 323.5 billion in 2025 and is expected to grow at a CAGR of 8.1% from 2026 to 2035, driven by integration of solar PV across agriculture and business ...



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## 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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**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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