

Solar power generation development forecast



Overview

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. Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity. Solar experienced the fastest growth among all power generation technologies in terms of electricity output, three times as much as wind power, which was ranked second. The new tax law, commonly referred to as the One Big Beautiful Bill Act, rolled back many clean energy tax credits and imposed new restrictions, pressuring early-stage wind and solar pipelines. This growth is driven by increasing demand from industrial, commercial, and technology-enabled applications.

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Global solar PV generation forecast 2030, Statista

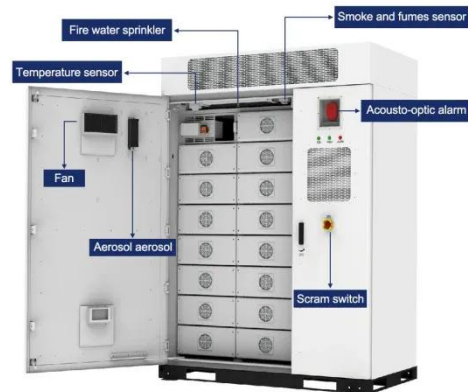
This figure is expected to grow in the upcoming years, reaching over six petawatt hours of solar production by 2030.

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Executive summary - Renewables 2025 - Analysis

Renewables' global growth, driven by solar PV, remains strong amid rising headwinds. Global renewable power capacity is expected to double between now and 2030, increasing by 4 600 gigawatts (GW). ...

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Renewable electricity - Renewables 2025 - Analysis

For solar PV, wind and bioenergy for power, deployment has been revised downwards. Solar PV accounts for over 70% of the absolute reduction, mainly from utility-scale projects, while offshore ...

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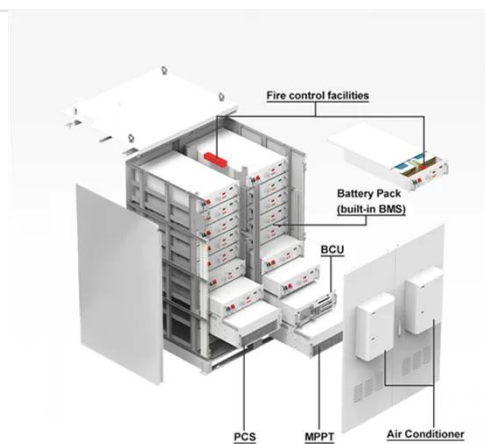


Solar power generation drives electricity generation growth over the

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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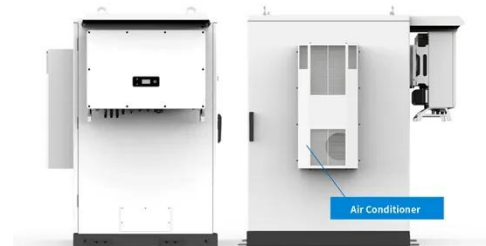
The Future of Solar Energy: Solar Energy Trends 2025

Explore the future of solar in 2025--key trends, new tech, and policies driving global clean energy growth.

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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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2026 Renewable Energy Industry Outlook , Deloitte Insights

Beyond utility-scale wind and solar, phaseouts are reshaping other technologies. The residential solar 25D



credit sunsets after 2025, pushing installers toward leasing, power purchase agreements ...

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Solar Power Generation Systems Market Outlook Underscores

The Solar Power Generation Systems Market refers to the global industry focused on the development, production, and adoption of Solar Power Generation Systems solutions across various ...

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Solar and wind to lead growth of U.S. power generation for the next ...

As a result of new solar projects coming on line this year, we forecast that U.S. solar power generation will grow 75% from 163 billion kilowatthours (kWh) in 2023 to 286 billion kWh in 2025.

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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 ...

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