



Prospects for small-scale solar power generation





Overview

We expect small-scale solar capacity across all three sectors will grow from 44 gigawatts (GW) in June 2023 to 55 GW by the end of 2024. • At the end of 2024, global CSP capacity reached approximately 7 GW ac, with virtually all installed CSP capacity (three projects, totaling 250 MW ac) located in China. 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. Compared to other sources of. The U. As of September 2025, deployment numbers are soaring to new highs, yet industry players also face challenges like policy uncertainty, financing hurdles, and supply. The small-scale power generation market is a dynamic and rapidly evolving sector within the energy industry.



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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 ...

[Small-Scale Power Generation market - Size, Share, Trends, Analysis](#)

Innovations such as bifacial solar panels, perovskite solar cells, and building-integrated photovoltaics (BIPV) have expanded the range of options for small-scale power generation.



[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 ...



[Adaptation of solar energy in the Global South: Prospects, challenges](#)

Solar energy, as a sustainable and abundant resource, holds great potential to address these challenges. Despite its immense potential, the Global South encounters hurdles related to ...



[U.S. Solar Market Trends 2025 - Record Growth & Risks](#)

In this analysis, we examine the latest trends in installations, costs, and market dynamics, providing solar businesses, developers, and investors with a comprehensive picture of ...



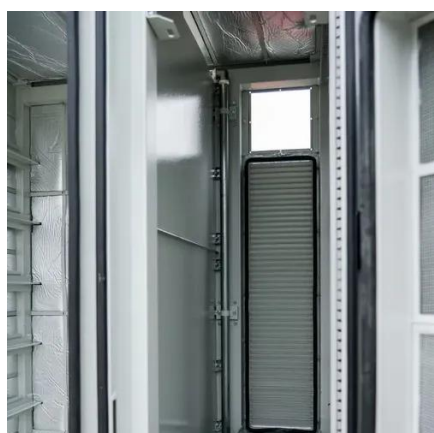
[Small-scale solar could be one of energy's big solutions. What's](#)

Solar panels can be produced in such quantity and at such low cost that it is now the cheapest form of power generation. They could solve not just renewable energy's greatest ...



[Small-scale solar has key benefits, and one critical weakness, over](#)

Looking to go solar? While small-scale solar delivers the best results with the least life-cycle impact, a mixed approach offers the best long-term path towards an all-electric future.



Short-Term Energy Outlook



We recently revised our method for short-term forecasts for small-scale solar capacity to account for different growth rates and policies in key states. Several states and utilities offer ...

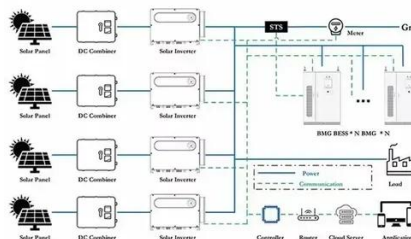


[The Outlook for Global Solar Energy Continues to Be Bright](#)

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 ...

[2026 Renewable Energy Industry Outlook](#), [Deloitte Insights](#)

2025 has been a challenging year for renewables. 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, ...





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