

New photovoltaic solar power generation



Overview

Almost 70 gigawatts (GW) of new solar generating capacity projects are scheduled to come online in 2026 and 2027, which represents a 49% increase in U.S. These advances are making solar technology more powerful, affordable, and versatile, accelerating the adoption of solar energy technology across residential, commercial, and industrial. In our latest Short-Term Energy Outlook (STEO), we expect U.S. electricity generation will grow by 1.6% in 2027, when it reaches an annual total of 4,423 BkWh. The three main dispatchable sources of electricity generation (natural gas, coal, and nuclear) accounted for 75% of U.S. electricity generation in 2024. 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). Beyond Silicon, Caelux, First Solar, Hanwha Q Cells, Oxford PV, Swift Solar, Tandem PV 3 to 5 years. In November 2023, a buzzy solar technology broke yet another world record, adding 1.2 GW of PV were added globally, bringing the cumulative installed capacity to 2.2 TW and pushing non-fossil power sources past thermal generation for the first time. China's National Energy Administration (NEA) released its 2025 power sector statistics on Jan. 17, 2025.

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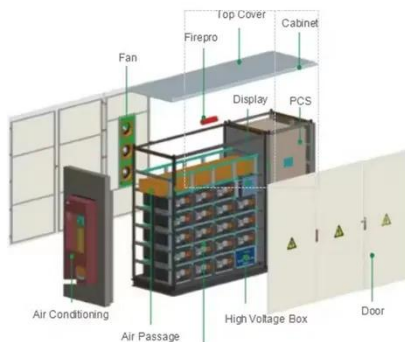


Spring 2025 Solar Industry Update

Distributed generation made up nearly 63% of new solar PV capacity in 2024. In 2024, Brazil increased tariffs on imported solar modules to 25% to shield their 5 GW of local manufacturing ...

Solar Technology Innovations 2025: Complete Guide to Latest Solar ...

Discover the latest solar technology innovations 2025: perovskite cells, bifacial panels, advanced storage. Complete guide with free PVGIS calculator.



Super-efficient solar cells: 10 Breakthrough ...

Solar cells that combine traditional silicon with cutting-edge perovskites could push the efficiency of solar panels to new heights.

Innovations in Solar Technology: What's New in 2025

In this article, we will explore the key innovations in solar technology expected to dominate in 2025 and beyond, providing a comprehensive overview of the technologies, trends, and opportunities that will ...



The best new solar panel technology [Top 9 in 2025]

We explore the nine most exciting developments in the solar industry in 2025, from indoor solar panels to 'two-for-one' fission.

A review of solar photovoltaic technologies: developments, challenges

This review examines the evolution, current advancements, and future prospects of PV systems, highlighting the development of various photovoltaic cell technologies, including crystalline ...



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. Almost 70 ...

7 New Solar Panel Technology Trends for 2026

Explore the latest solar panel technology, new solar panel technology, and solar energy technology trends improving efficiency.



China adds 315 GW of solar in 2025 - pv magazine International

China installed a record 315 GW (AC) of new solar capacity in 2025, lifting cumulative installed PV capacity to 1.2 TW and pushing non-fossil power sources past thermal generation for the ...

Renewable electricity - Renewables 2025 - Analysis

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 ...



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