

A-Core Container

Solar panel power generation growth



Overview

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In our latest Short-Term Energy Outlook (STEO), we expect that U.S. renewable capacity additions—especially solar—will continue to drive the growth of U.S. power generation over the next two years. We expect U.S. utilities and independent power producers will add 26 gigawatts (GW) of solar capacity.

Utility-scale solar generation grew to 232 TWh in the rolling 12 months through March 2025, according to the latest data from the Energy Information Administration. Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy.

The US solar industry installed 7.5 gigawatts direct current (GW dc) of capacity in Q2 2025, a 24% decline from Q2 2024 and a 28% decrease since Q1 2025. Solar accounted for 56% of all new electricity-generating capacity added to the US grid in the first half of 2025, with a total of 18 GW.

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 the past three months, the International Energy Agency, the International Renewable Energy Agency, and BloombergNEF published preliminary data for the power sector in 2024. These data hammer the same powerful message: solar photovoltaic (PV) has become the new cornerstone of the global power.

Solar energy now provides 7% of global electricity, doubling in two years and outpacing coal generation for the first time. Plummeting costs, down 90% since 2010, have made solar economically dominant, spreading rapidly across both rich and poor nations. Next-generation technologies like.

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