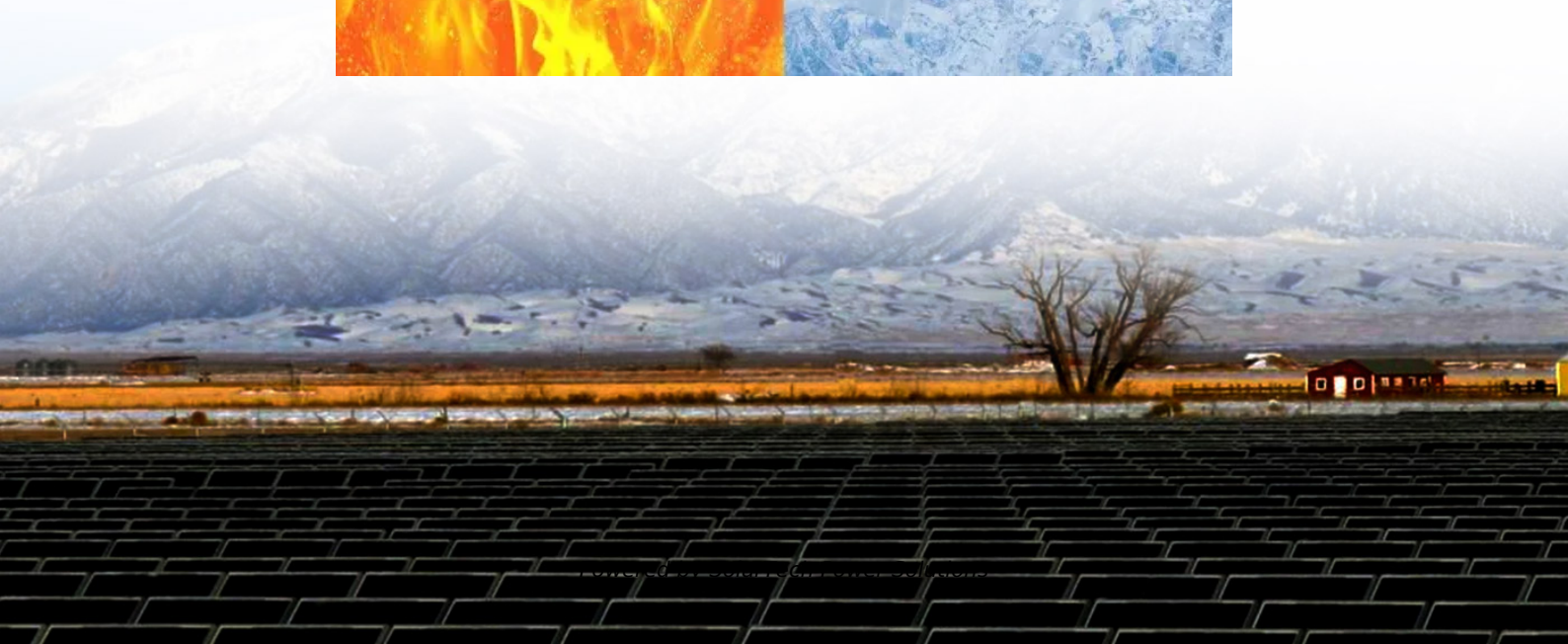


## SolarTech Power Solutions

# Solar panel power generation increased



## Overview

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Key highlights include solar generation increasing by nearly 26% year-over-year; a 1% increase in electricity consumption in July 2024 over July 2023; and a 4.5% rise in electricity generation from January to July 2024 compared to the same period in 2023.

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Solar and wind together accounted for 88% of new US electrical generating capacity added in the first eight months of 2025, according to data just released by the Federal Energy Regulatory Commission (FERC) which was reviewed by the SUN DAY Campaign. In August, solar energy alone provided.

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.

In 2024, the U.S. power grid's electricity generation increased by over 109 TWh through the end of July, marking a 4.5% growth. This surge was led by a 52 TWh increase in methane generation, while solar power contributed an additional 36 TWh. The U.S. Department of Energy's Energy Information.

Ember's analysis of the latest data on monthly capacity installations shows that the world is on track to reach 593 GW of solar installations by the end of this year. This would once again surpass most industry forecasts, and comes after 2023 showed record growth in solar installations of 86%.

The year 2024 was a true landmark year for solar power. Global solar installations reached nearly 600 GW – an impressive 33% increase over the previous year – setting yet another record. Solar accounted for 81% of all new renewable energy capacity added worldwide. While remaining a modest.

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.

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