

# Current status of solar tower power generation



## Overview

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In the third quarter of 2025, solar projects representing about 20% of planned capacity reported a delay, a decrease from 25% in the same period in 2024, based on data compiled from multiple Preliminary Monthly Electric Generator Inventory reports. Note: Capacity values represent the amount of generating capacity at utility-scale power plants (greater than 1 megawatt). Other renewables include geothermal, waste biomass, wood biomass, and pumped storage hydropower. In our latest Short-Term Energy Outlook (STEO), we expect that U. 2 TW dc • China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y. • The IEA reported Pakistan's rapid rise to fourth place in annual global PV. The Global Solar Power Tracker is composed of worldwide facility-level data on utility-scale (1 MW+) solar photovoltaic (PV) and solar thermal facilities, as well as country-aggregated distributed (<1 MW) solar PV data. The utility-scale data covers all operating solar farm phases with capacities. Key updates from the Fall 2024 Quarterly Solar Industry Update The International Renewable Energy Agency (IRENA) reports that, between 2010 and 2023, the global weighted average levelized cost of energy of concentrating solar power (CSP) fell from \$0. 39/kilowatt-hours (kWh) to under \$0.

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### [Quarterly Solar Industry Update](#)

Each quarter, the National Renewable Energy Laboratory conducts the Quarterly Solar Industry Update, a presentation of technical trends within the solar industry.

### [New solar plants expected to support most U.S. electric generation](#)

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 ...



### [Global Solar Power Tracker](#)

The utility-scale data covers all operating solar farm phases with capacities of 1 megawatt (MW) or more and all announced, pre-construction, construction, and shelved projects with capacities greater than ...



### [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 ...



[Global Market Outlook for Solar Power 2025-2029](#)

In our most realistic scenario, we anticipate a 10% increase in installations to 655 GW in 2025, with annual growth rates remaining in the low double digits between 2027-2029, reaching 930 ...



[Solar energy status in the world: A comprehensive review](#)

It examines the current state of solar power and related academic solar energy research in different countries, aiming to provide valuable guidance for researchers, designers, and policymakers ...



[Fewer U.S. solar projects are reporting delays in their expected online](#)

Delays in solar project schedules tend to be relatively short in duration, and reports of delays are more common than cancellations: less than 1% of planned solar capacity is entirely ...



[Growth of Renewable Energy in the US , World Resources Institute](#)

Solar deployment and electric vehicle (EV) sales broke records in 2023 and 2024. Renewables now dominate new power generation capacity, while new domestic clean energy ...



[US solar installations jump 49% in third quarter, report says](#)

The report said solar accounted for 58% of all new electricity-generating capacity added to the U.S. grid through the third quarter, with more than 30 GW installed.



[Global solar energy outlook](#)

In the last few years, solar energy has been the main driver for renewable energy growth worldwide. In 2024, solar photovoltaic capacity additions surpassed 600 gigawatts, accounting for ...



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