



# What is the current level of solar power generation





## Overview

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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. In our latest Short-Term Energy Outlook (STEO), we expect U. electricity generation will grow by 1. In absolute terms, solar growth reached 475 TWh, which is comparable to annual power consumption in France or Germany. According to the International Energy Agency (IEA), the share of solar power is up from 5%. Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the second half of the year, according to our latest survey of electric generating capacity changes.



## What is the current level of solar power generation



### Solar generation reaches new high

According to the International Energy Agency (IEA), the share of solar power is up from 5% to 7%. The IEA expects global PV module generation to increase by 1,800 TWh per year ...

### [35 Latest Solar Power Statistics, Charts & Data \[2026\]](#)

In this article, with the help of charts and key statistical data, we reveal the latest solar power statistics that demonstrate how the industry has grown so far, and the outlook and potential for ...



### [Annual percentage change in solar energy generation](#)

Percentage change in solar energy generation relative to the previous year. Data source: Energy Institute - Statistical Review of World Energy (2025) - Learn more about this data. Figures ...



### Electricity generation from U.S. solar grows 28% year-over-year

Solar continues to dominate new electricity generation capacity added to the grid in the United States, according to the Energy Information Administration's (EIA) latest release of its Electric ...

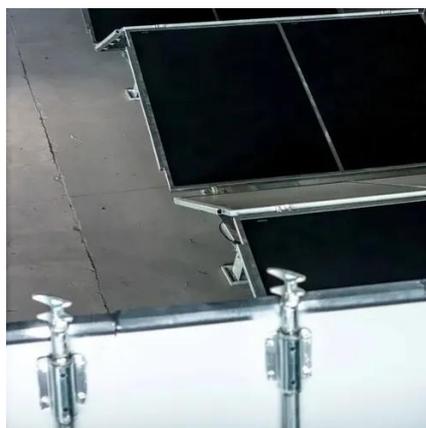


## Solar power generation drives electricity generation growth over the

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. solar operating capacity ...

### [35 Latest Solar Power Statistics, Charts & Data \[2026\]](#)

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 ...



### [90+ Solar Energy Statistics: The Green Gold Rush \(2025\)](#)

These statistics showcase the current capabilities of solar technology, from panel efficiency rates and lifespan to emerging innovations in hybrid systems and energy storage, ...



## Global renewable capacity is set to



## grow strongly, driven by solar PV

Solar PV will account for around 80% of the global increase in renewable power capacity over the next five years - driven by low costs and faster permitting timeframes - followed by wind, ...



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

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 ...

## [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 ...



## U.S. developers report half of new electric generating capacity will

Developers added 12 gigawatts (GW) of new utility-scale solar electric generating capacity in the United States during the first half of 2025, and they plan to add another 21 GW in the ...



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