

# Amount of artificial solar power generation



## Overview

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Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219. power grid in 2025 in our latest Preliminary Monthly Electric Generator Inventory report. This amount represents an almost 30% increase from 2024 when 48. 6 GW of capacity was installed, the largest. The American Public Power Association is the voice of not-for-profit, community-owned utilities that power approximately 2,000 towns and cities nationwide. We represent public power before the federal government to protect the interests of the more than 55 million people that public power utilities. Solar photovoltaics is one of the most cost-effective technologies for electricity generation and therefore its use is growing rapidly across the globe. Global solar photovoltaic capacity has grown from around 40 gigawatts in 2010 to approximately 2. 8 terawatt-hours (TWh) in the United States. You can find more about Ember's methodology in this.

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### Solar, battery storage to lead new U.S. generating capacity additions

In 2024, generators added a record 30 GW of utility-scale solar to the U.S. grid, accounting for 61% of capacity additions last year. We expect this trend will continue in 2025, with 32.5 GW of new utility ...

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### REPORT: Solar Adds More New Capacity to the Grid in 2024 Than ...

According to the U.S. Solar Market Insight 2024 Year in Review report released today by the Solar Energy Industries Association (SEIA) and Wood Mackenzie, solar and storage account for ...

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### Solar power generation, 2025

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. You can find more about Ember's methodology in this ...

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### 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 ...

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## How Much Solar Energy Does the World Generate?

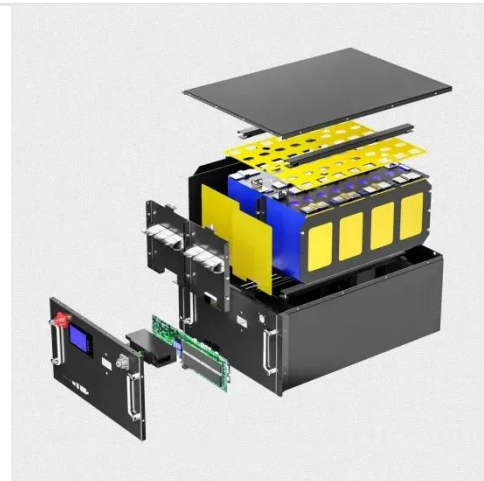
With the rapid increase in capacity and daily production, solar power is now a central component of the global energy mix. The 2,075 GWh of daily production in 2024 underscores solar's growing role in ...

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## Solar power in the United States

OverviewSolar potentialHistorySolar photovoltaic powerConcentrated solar power (CSP)Government supportSee alsoFurther reading

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2024, utility-scale solar power generated 219.8 terawatt-hours (TWh) in the United States. Total solar generation that year, including estimated small-scale photovoltaic generation, was 303.8 TWh. As of the end of 2024, the United States



had 239 gigawatts (GW) of installed photovol...

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### America's Electricity Generation Capacity, 2025 Update

Solar is the leading resource for permitted plants, accounting for more than 70% of the 78,039 MW of permitted generation capacity. Wind and natural gas account for another quarter of capacity in this ...

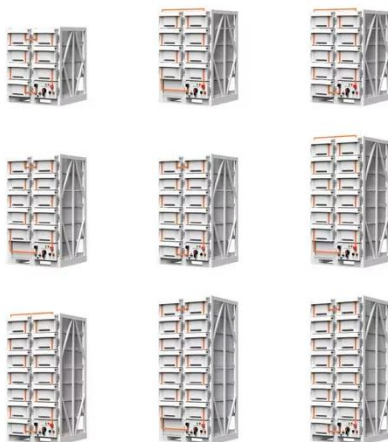
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### Renewable electricity - Renewables 2025 - Analysis

Growth in utility-scale and distributed solar PV more than doubles, representing nearly 80% of worldwide renewable electricity capacity expansion. Low module costs, relatively efficient permitting processes ...



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### Solar power in the United States

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### Electricity generation from U.S.

## **solar grows 28% year-over-year**

Electricity generation from solar continues to grow alongside capacity additions. For the rolling 12 months ending March 2025, solar facilities, including utility-scale and small-scale projects, ...

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