

# Record of using solar power generation

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## INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



## Overview

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The world just added a record amount of wind and solar in 2025, and it's not even close. New data from global energy think tank Ember shows that 814 gigawatts (GW) of new solar and wind capacity came online last year, up 17% from 2024's 696 GW. Energy Information Administration (EIA) reveals that despite Donald Trump's signing the Republican Congress' anti-renewables legislation in early July, solar-generated electricity ballooned by over 30% during the month while wind . Our World in Data is free and accessible for everyone. Help us do this work by making a donation. Our charts, articles, and data are licensed under CC BY, unless stated otherwise. Records have also fallen in utility service territories outside these organized markets, notably in Florida. These power production records (all of which are current through April 17) are the direct result of . The U.

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### [Solar generation broke new records the same month the OBBBA was](#)

Solar electrical generation set new records in July and the first seven months of 2025: EIA's latest monthly " Electric Power Monthly " report (with data through July 31, 2025), once again

### 2023's record solar surge explained in six charts

Global solar power capacity surged in 2023, accelerating the clean power revolution. Using six charts, we explain the solar surge of 2023.



### Today in Energy

Biofuels, wind, and solar production each set records in 2024, contributing to record total renewable energy production in the United States.

### Solar power in the United States

Solar power includes solar farms as well as local distributed generation, mostly on rooftops and increasingly from community solar arrays. In 2025, utility-scale solar power generated 295.7 terawatt



### The world added a record 814 GW of wind + solar



The world added a record 814 GW of wind and solar in 2025, cutting gas demand and boosting energy security worldwide.

## Solar power generation, 2025

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## Global Solar Power Tracker

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

## New Solar Energy Generation Records Set Across the US

According to the Energy Information Administration (EIA), the U.S. added 31 gigawatts (GW) of solar generation capacity in 2024 alone, raising the total to 121.2 GW. An additional 3 GW



## A Decade of Growth for U.S. Solar and Wind , Climate Central

The U.S. generated a record 756,621 gigawatt-hours (GWh) of electricity from solar and wind in 2024 - enough to power the equivalent of more than 70 million average American homes.

## **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



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