



# Global photovoltaic energy storage data





## Overview

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Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency. GW = gigawatts; PV = photovoltaics; STEPS = Stated Policies Scenario; NZE = Net Zero Emissions by 2050 Scenario. Other storage includes compressed air energy storage, flywheel and thermal storage. Hydrogen electrolyzers are not included. The utility-scale data covers all operating solar farm phases with capacities. Cumulative installed solar capacity, measured in gigawatts (GW). Data source: IRENA (2025) - Learn more about this data processed This is the citation of the original data obtained from the source, prior to any processing or adaptation by Our World in Data. The amount of electricity generated by nonhydro renewables (wind, solar, geothermal, and biomass) reached another record high and.



## Global photovoltaic energy storage data



### Global energy storage

Find the latest statistics and facts on energy storage.

### Installed solar energy capacity

At the link below you can find a detailed description of the structure of our data pipeline, including links to all the code used to prepare data across Our World in Data.



### [Global Progress Toward Renewable Electricity: Tracking the Role ...](#)

Generation from nonhydro renewable energy sources (solar, wind, geothermal, and biomass) reached a new milestone, exceeding generation from hydropower and contributing ~16% of global electricity, ...

### 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 ...



### [Global installed energy storage capacity by scenario, ...](#)

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

## Snapshot 2025

Curtailement is increasingly prevalent in high-penetration markets, underlining the need for grid flexibility, storage, and new business models. PV represented more than 75% of all new renewable generation ...



### [Global photovoltaic solar panel dataset from 2019 to 2022](#)

Solar photovoltaic (PV) power generation, known for its affordability and environmental benefits, is a key component of the global energy supply. However, the lack of comprehensive, timely,



## Global Solar Atlas



It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data and carry out a simple electricity output calculation for ...



## Global Energy Storage Market Outlook

30 GW Energy storage target by 2025 at a federal level. Multiple provincial targets will likely exceed this.

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

The present review study, through a detailed and systematic literature survey, summarizes the world solar energy status along with the published solar energy potential assessment articles for ...





## Contact Us

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