

Global photovoltaic energy storage data



Overview

The DOE Global Energy Storage Database provides research-grade information on grid-connected energy storage projects and relevant state and federal policies. All data can be exported to Excel or JSON format. With renewable sources expected to account for the largest share of electricity generation worldwide in the coming decades, energy storage will play a significant role in maintaining the balance between . GW = gigawatts; PV = photovoltaics; STEPS = Stated Policies Scenario; NZE = Net Zero Emissions by 2050 Scenario. Hydrogen electrolyzers are not included. Select sites, draw rectangles or polygons by clicking the respective map controls. We . Global Energy Monitor (GEM) data from the 2026 release of the Global Wind and Solar Power trackers show that the combined global installed capacity of wind and solar has reached 3,222 gigawatts alternating current (GWac). Geospatial data describing . Source: S&P Global Commodity Insights. Multiple provincial targets will likely exceed this.

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Global energy storage

Find the latest statistics and facts on energy storage.



GitHub

Inside, you'll see a central table listing each grid's available photovoltaic (PV) datasets. Each grid has its own Markdown file containing detailed information on data sources, data types, and access/usage



[A global inventory of photovoltaic solar energy generating units](#)

Here we provide a global inventory of commercial-, industrial- and utility-scale PV installations (that is, PV generating stations in excess of 10 kilowatts nameplate capacity) by using a

DOE Global Energy Storage Database

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[Global installed energy storage capacity by scenario, 2023 and 2030](#)



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

Energy Storage Signals Shift to Renewable Grids

In response to the uptake of energy storage, GEM has begun tracking the presence of storage associated with wind and solar power plants when data are readily available. At present,



Snapshot 2025

Curtailment 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 Energy Storage Market Outlook

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



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

Solar Supply Chain and Industry Analysis

NLR analysts use these data sources to track supply and demand swings in the market, the resilience of the global supply chain, and domestic content for tax incentives.



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