

**KREATYWNY ENERGY POLSKA**

# **Global battery energy storage installed capacity**



## Overview

---

Strong growth occurred for utility-scale battery projects, behind-the-meter batteries, mini-grids and solar home systems for electricity access, adding a total of 42 GW of battery storage capacity globally. Battery storage in the power sector was the fastest growing energy technology in 2023 that was commercially available, with deployment more than doubling year-on-year. To support the global transition to clean electricity, funding for. Global installed energy storage is on a steep rise and is expected to increase ninefold by 2040, to over 4 TW, driven by battery energy storage systems (BESS), which saw record growth in 2024, according to a report by Rystad Energy. In 2024, the market grew by 52%, compared to 25% growth in the EV battery market. Annual deployments are also set to scale in Germany, the UK, Australia, Canada, Saudi Arabia and Sub-Saharan Africa, driven. GW = gigawatts; PV = photovoltaics; STEPS = Stated Policies Scenario; NZE = Net Zero Emissions by 2050 Scenario. Hydrogen electrolyzers are not included. Global installed energy storage capacity by scenario, 2023.

## Global battery energy storage installed capacity

---



### Global Energy Storage Boom: Three Things to Know

Energy storage installations globally will keep gaining momentum over the next decade as other markets pick up pace. BloombergNEF expects cumulative energy storage capacity in 2035 ...

### Worldwide battery storage installations up 54% in first half of 2025

Deployed global capacity for the first half of 2025 culminates to 86.7 GWh of battery energy storage system (BESS) capacity, representing a year-on-year increase of 54%.



### Executive summary - Batteries and Secure Energy Transitions - ...

Strong growth occurred for utility-scale battery projects, behind-the-meter batteries, mini-grids and solar home systems for electricity access, adding a total of 42 GW of battery storage capacity globally.

### New global battery energy storage

## systems capacity doubles in 2023,

...

The IEA forecasts a rapid increase in the global deployment of battery storage, supported by falling costs and increasing government support. Under a Stated Policies Scenario, total global ...



## Nearly 14GWh of grid-scale BESS installed globally in ...

A total of 5.2GW/13.8GWh of grid-scale BESS capacity came online in January 2025, of which over two thirds was in China.

## Global energy storage

Find the latest statistics and facts on energy storage.



## 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.



## Top 20 Countries by Battery Storage Capacity

This graphic highlights the top 20 battery storage capacity markets by current and planned grid capacity in gigawatt hour (GWh).



## Global battery storage capacity expands by record 200 GWh in 2024

Global installed energy storage is on a steep rise and is expected to increase ninefold by 2040, to over 4 TW, driven by battery energy storage systems (BESS), which saw record growth in ...



## Global energy storage market: review and outlook

The global energy storage market added 175.4 GWh of installed capacity in 2024, with the three major regional markets--China, the Americas, and

Europe--continuing to account for over ...



---

## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://www.kreatywny-dom.pl>

