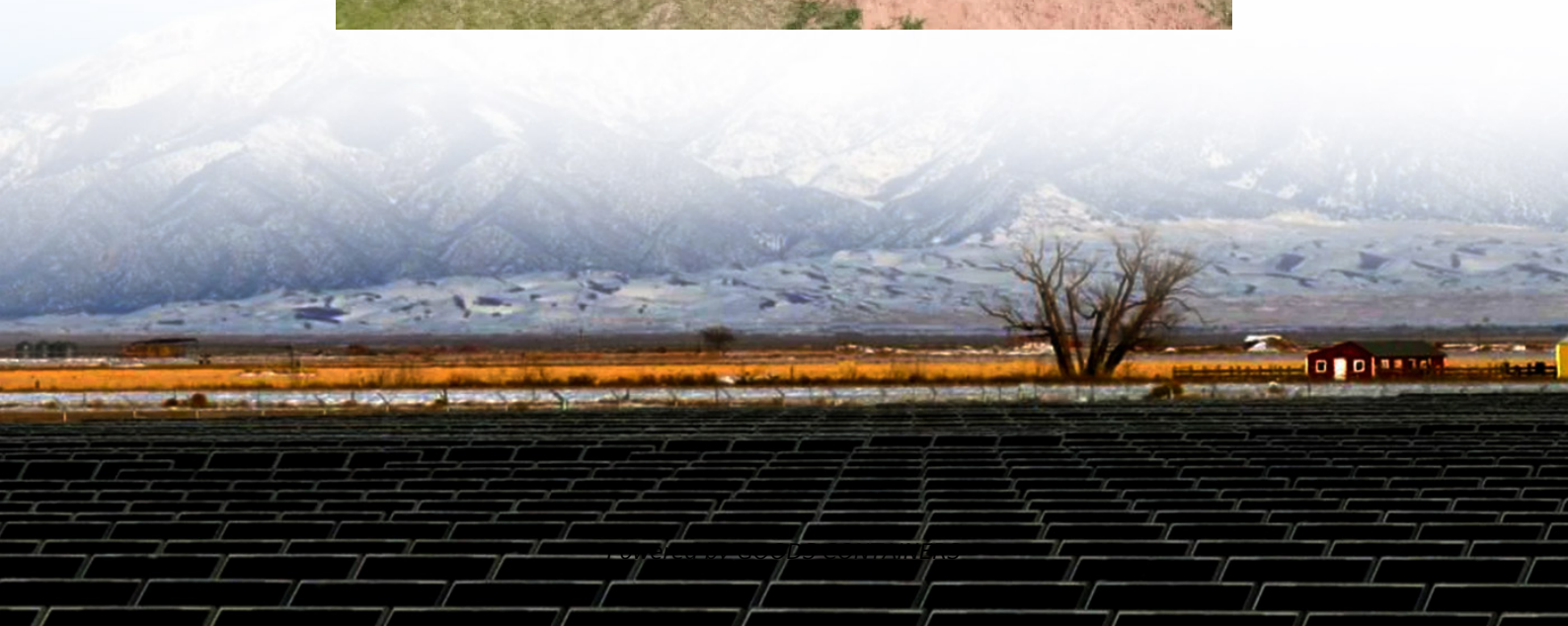


# Global battery storage capacity





## Overview

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How many GW of battery storage capacity are there in the world?

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.

Will global battery storage capacity increase six-fold by 2030?

The global battery storage capacity must increase six-fold by 2030 - this is the main message of the International Energy Agency's (IEA) Special Report, Batteries and Secure Energy Transitions, published in April.

How big is battery storage in Europe?

(Source: IEA) In the European Union, total installed battery storage capacity rises from nearly 5 GW today to 14 GW in 2030 and almost 120 GW in 2050 in the STEPS, which achieves the agreed objectives, including reaching 32% of renewable energy by 2030, and fulfills all the National Energy and Climate Plans and major policies as of late 2022.

Which country has the largest battery storage capacity in the world?

Last year, a record 200 GWh of new BESS projects came online globally, bringing the world's total operational battery storage capacity to 375 GWh. China maintained its leading position, with over 100 GWh of new capacity, followed by the United States, which added 35 GWh. Germany, Australia, and the United Kingdom were among the top five.



## Global battery storage capacity

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### [IEA: Six-fold increase in battery storage](#)

...

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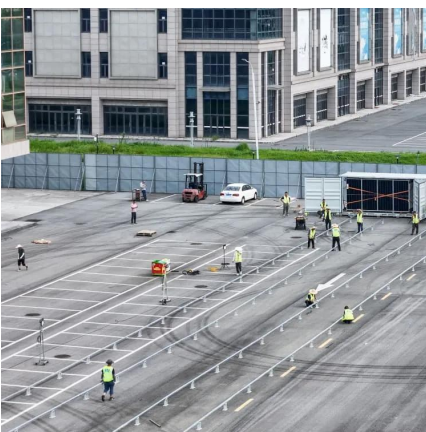
### [IEA: Six-fold increase in battery storage capacity by 2030](#)

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### [Charted: Battery Capacity by Country \(2024-2030\)](#)

Charted: Battery Capacity by Country (2024-2030) This was originally posted on our Voronoi app. Download the app for free on iOS or Android and discover incredible data ...



### [Global Energy Storage to Hit 94 GW in 2025, Says BNEF](#)

The global energy storage sector is on track for another record year in 2025 as utility-scale



projects expand into new regions. BloombergNEF (BNEF) forecasts that ...

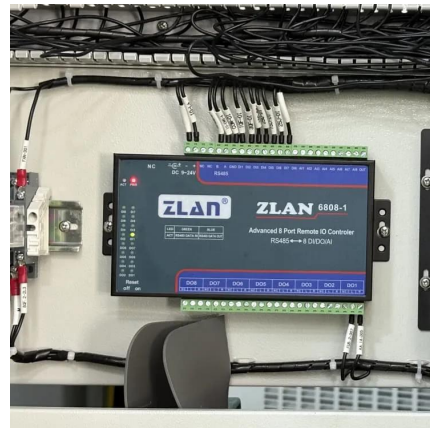


### [Worldwide battery storage installations up ...](#)

The data shows that over half of June's installations were concentrated in China, maintaining the country's dominance in the global energy storage market. Deployed global capacity for the first half of 2025 ...

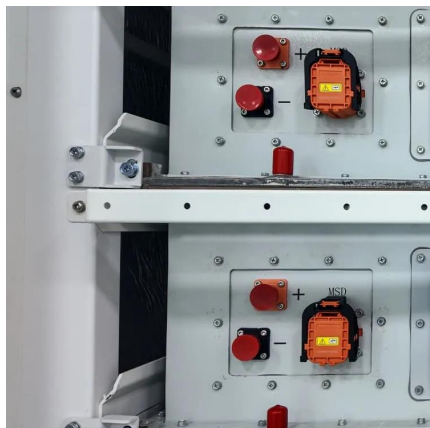
### [Worldwide battery storage installations up 54% in first half ...](#)

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### [Executive summary - Batteries and Secure Energy Transitions ...](#)

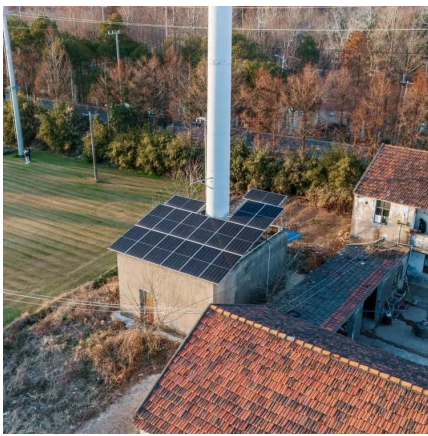
Battery storage in the power sector was the fastest growing energy technology in 2023 that was commercially available, with deployment more than doubling year-on-year. ...





## [Executive summary - Batteries and Secure ...](#)

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. Strong growth occurred for utility-scale ...



## [Worldwide battery storage installations up 54% in first half ...](#)

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%.

## [Global battery storage capacity expands by record 200 GWh ...](#)

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 ...



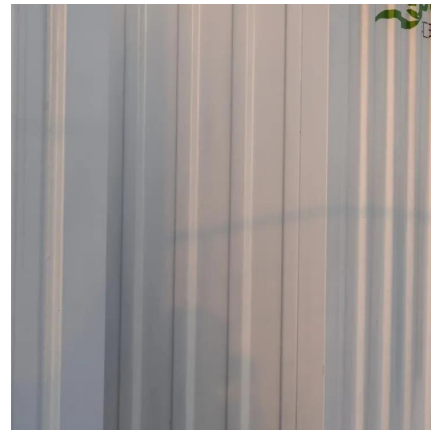
## [Projected Global Demand for Energy Storage , SpringerLink](#)

This chapter describes recent projections for the development of global and European demand for battery storage out to 2050 and analyzes the underlying drivers, ...



### [Worldwide battery storage installations up ...](#)

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%.



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