

**JH Solar**

# **European orders for energy storage demand next year**



## Overview

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MUNICH, Germany (Wednesday 7th May 2025): New analysis reveals another year of record installations for European\* battery storage, despite slower year-on-year growth, according to the latest European Market Outlook for Battery Storage. 15% growth. Battery storage forecast. Drivers for battery.

Energy storage is a crucial technology to provide the necessary flexibility, stability, and reliability for the energy system of the future. System flexibility is particularly needed in the EU's electricity system, where the share of renewable energy is estimated to reach around 69% by 2030 and 80%.

allation record, we also witnessed a substantial slowdown in market growth. While we anticipate demand to regain momentum in 2025, much will depend on policymakers implementing the right tool to unlock the immense potential of this strategically critical technology. One thing is certain, battery.

o in parallel with renewable uptake. With this paper we assess the energy storage requirements as a whole for Europe and propose estimates of energy storage targets for 2030 and 2050 based on a review of existing scientific literature, official documents from the European Commission (EC) and input.

The latest edition of the European Market Monitor on Energy Storage (EMMES) reveals rapid expansion in energy storage capacity in Europe, reaching 89GW by the end of 2024. The report, now in its ninth edition, compiled by the European Association for Storage of Energy (EASE) and LCP Delta tracks.

The European market for battery storage showed a remarkable expansion, achieving a 15% growth in 2024 alone. This growth is commendable, but it's slower than in past years. This raises important questions about how long it can last. Forecasts predict a significant growth in installations by 2025. How many battery energy storage systems were installed in Europe in 2024?

21.9 GWh of battery energy storage systems (BESS) was installed in Europe in 2024, marking the eleventh consecutive year of record breaking-installations, and bringing Europe's total battery fleet to 61.1 GWh. However, the annual growth rate slowed down to 15% in 2024, after three consecutive years of doubling newly added capacity.

How much energy storage will Europe have in 2022?

Many European energy-storage markets are growing strongly, with 2.8 GW (3.3 GWh) of utility-scale energy storage newly deployed in 2022, giving an estimated total of more than 9 GWh. Looking forward, the International Energy Agency (IEA) expects global installed storage capacity to expand by 56% in the next 5 years to reach over 270 GW by 2026.

What does 2024 reveal about energy storage in Europe?

So what does it reveal?

2024 was a record year for new energy storage deployments in Europe, with 12GW/21.9GWh increases in the total capacity. These were comprised of 4.9GW/12.1GWh increases in front-of-the-meter capacity and 7.1GW/9.8GWh increases in behind-the-meter capacity.

How much battery storage will Europe have in 2025?

In the most-likely scenario for 2025, 29.7 GWh of battery storage will be installed in Europe, representing a 36% annual growth. By 2029, the report anticipates a sixfold increase to nearly 120 GWh, driving total capacity to 400 GWh (EU-27: 334 GWh).

How much energy storage capacity does the EU need?

These studies point to more than 200 GW and 600 GW of energy storage capacity by 2030 and 2050 respectively (from roughly 60 GW in 2022, mainly in the form of pumped hydro storage). The EU needs a strong, sustainable, and resilient industrial value chain for energy-storage technologies.

Should energy storage be regulated in Europe?

As renewable energy continues to expand in Europe, energy storage must keep pace to ensure the grid remains flexible and stable. The Energy Storage Coalition urges the European Commission to develop an Action Plan on Energy Storage, providing much-needed regulatory clarity and supporting Member States in scaling up energy storage capacity.

## European orders for energy storage demand next year

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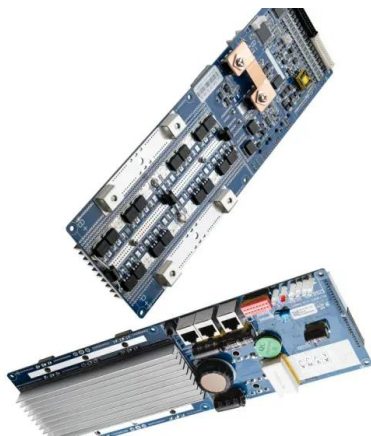


### Market Trend - The Strongest European Markets ...

The markets for electricity storage vary strongly from one European country to another. Different market designs, business models and incentive schemes mean that there is no such thing as a European ...

### Targets 2030 and 2050 Energy Storage

We estimate energy storage power capacity requirements at EU level will be approximately 200 GW by 2030 (mainly 60 GW in Europe, mainly PHS). By 2050, it is estimated at least 600 GW ...



### Energy Storage Rides a Wave of Growth but Uncertainty Looms: ...

This report comes to you at the turning of the tide for energy storage: after two years of rising prices and supply chain disruptions, the energy storage industry is starting to see price ...

### Global energy storage

Global energy storage capacity outlook 2024, by country or state Leading countries or states ranked by energy storage capacity target worldwide in 2024 (in gigawatts)



## EU Plans Proposing Extension of Gas-Storage Goals to 2027

(Bloomberg) -- The European Commission plans to seek an extension of the region's binding gas-inventory targets until 2027 to help ease continuing supply concerns, ...



## European energy storage: a new multi-billion-dollar asset class

In Europe, the capacity of renewable energy sources is growing very rapidly, while traditional power plants are slowly being decommissioned. That's creating a unique new ...



## 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 ...



## Europe favorably placed ahead of next winter's gas storage refill

Europe needs to store away approximately 35 billion cubic meters of natural gas between now and the end of October, well below the average figure of roughly 55 bcm over the ...



## Europe Energy Briefs - Europe's energy storage ...

The study highlights the recent Clean Industrial Deal with new state aid rules and the Affordable Energy Action Plan as promising for driving energy storage deployments in Europe - particularly from 2027 ...

## European orders will increase energy storage demand next year

Europe faces a natural gas supply challenge this year as it needs a significant volume of gas to meet storage targets for next winter, potentially driving up prices for liquefied



## New report: European battery storage grows 15% in 2024, EU ...

21.9 GWh of battery energy storage systems (BESS) was installed in Europe in 2024, marking the eleventh consecutive year of record breaking installations, and bringing ...

## Energy Outlook 2025: Energy Storage

Last year, we shared the European Commission's series of recommendations on energy storage, which includes policy actions to achieve greater deployment of storage in the EU (list of recommendations ...



### High Voltage Solar Battery

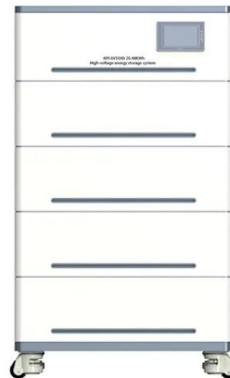


## Proposal for Two-Year Extension of EU Gas ...

Gas storage facilities currently account for approximately 25-30% of the EU's winter gas consumption. The existing Gas Storage Regulation (Regulation (EU) 2022/1032) was introduced in response to ...

## Is Europe's C& I Energy Storage Market on the Verge of a ...

The commercial and industrial (C& I) energy storage market in Europe has been experiencing unprecedented growth in recent years. As renewable energy adoption ...



## Recommendations on energy storage

Many European energy-storage markets are growing strongly, with 2.8 GW (3.3 GWh) of utility-scale energy storage newly deployed in 2022, giving an estimated total of more than 9 GWh. ...

## Energy storage safety and growth outlook in 2025

Looking ahead: Keys to success Several factors will define the energy storage market in 2025: the continued dominance of LFP chemistry and its downward impact on pricing, increased utility demand ...



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### ENERGY STORAGE SYSTEM

**Product Model**  
 HJ-ESS-215A(100KW/215KWh)  
 HJ-ESS-115A(50KW 115KWh)

**Dimensions**  
 1600\*1280\*2200mm  
 1600\*1200\*2000mm

**Rated Battery Capacity**  
 215KWH/115KWH

**Battery Cooling Method**  
 Air Cooled/Liquid Cooled

## EU Plans Proposing Extension of Gas-Storage Goals to 2027

Maintaining sizable fuel inventories has become crucial for Europe's energy security since it lost most Russian pipeline flows, as it provides a cushion against demand ...

## Europe's battery energy storage boom: Record ...

Revenue stacking models - where batteries participate in energy arbitrage, grid balancing, and capacity mechanisms - are already demonstrating viable business models in several markets. Strategic role in ...



## European Market Outlook for Battery EU solar Storage 2025

...

Our five-year outlook foresees significant BESS expansion in Europe - a sixfold increase to nearly 120 GWh by 2029, driving total capacity to 400 GWh, yet falls short of energy transition needs.

## Europe's Battery Storage Hits 21.9 GWh Amid ...

Europe's battery energy storage market will grow quickly in the next few years, but not fast enough. By 2025, new installations will add 29.7 GWh, a 36% increase from the year before. By 2029, total capacity ...



Highvoltage Battery



## Global Energy Storage Market Outlook

Energy storage capacity additions will have another record year in 2023 as policy and market fundamentals continue to propel the industry Data compiled March 2023. Source: S& P Global ...

## Recommendations on energy storage

Many European energy-storage markets are growing strongly, with 2.8 GW (3.3 GWh) of utility-scale energy storage newly deployed in 2022, giving an estimated total of more than 9 GWh.

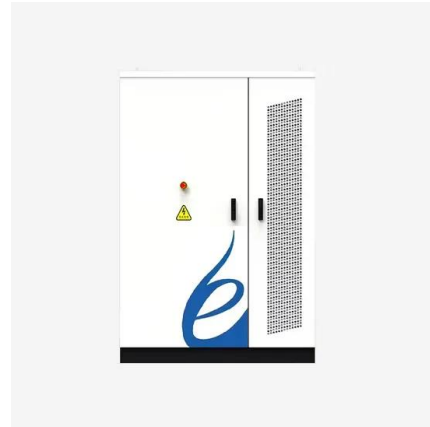


## Energy Storage Targets 2030 and 2050

EASE has published an extensive review study for estimating Energy Storage Targets for 2030 and 2050 which will drive the necessary boost in storage deployment urgently needed today. ...

## Global Energy Storage Market to Grow 15-Fold by ...

More ambitious policies in the US and Europe drive a 13% increase in forecast capacity versus previous estimates New York, October 12, 2022 - Energy storage installations around the world are projected to ...



## European Market Outlook for Battery Storage 2025-2029

The European Market Outlook for Battery Storage 2025-2029 analyses the state of battery energy storage systems (BESS) across Europe, based on data up to 2024 and ...

## The European renewables market is driving the battery storage ...

The battery storage capacity in Europe is expected to increase five-fold between now and 2030. This will bring increased returns for energy companies, traders, and project ...



## Regulatory Challenges and Opportunities for ...

The European Future Energy Forum provides a platform for policymakers, industry leaders, and innovators to collaborate on addressing these regulatory challenges and unlocking the full potential of energy ...



## EU agrees to loosen gas storage rules , Reuters

The European Union's member states have reached an agreement with the EU Parliament to loosen the EU's rules on filling gas storage, following concerns that earlier rules on this risked inflating



## Gas storage: Parliament backs refill flexibility to ...

The 2022 energy crisis, exacerbated by Russia's full-scale invasion of Ukraine and the subsequent weaponisation of gas supplies, highlighted the urgent need for additional measures to ensure stable and ...

## Energy Storage Export Boom: Nearly 100GWh Orders in Q1, ...

In May, within just one week, energy storage companies including Sineng Electric, Inovance Technology, CMSTD, CORNEX New Energy, Trina Storage, Sigenery, ...



## Europe Faces a Natural Gas Supply Challenge This Year

The frigid weather spiked demand for gas-fired power plants, and further cold spells could lead to an energy crisis. Gas storage is down 26 percent compared to last year, ...

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