

Oversupply of energy storage products in europe



Overview

European warehouses are reporting very high inventory levels for residential energy storage systems, with aggressive prices expected, as distributors need to start clearing their stocks, according to S&P Global. Global residential storage shipments fell for the first time.

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Pumped hydro is the most widely used technology for energy storage in Europe and worldwide, but batteries and hydrogen have come into the spotlight over the last decade as a recent trend in the energy storage market. However, despite an exponential growth in Europe's battery energy storage.

The report explores trends and forecasts across residential, commercial & industrial (C&I), and utility-scale battery segments, offering deep insights into Europe's energy storage landscape. With record growth in 2024 and new projections through 2029, the study highlights key market drivers.

VILVOORDE, Belgium — Hidden behind two giant cooling towers in a mothballed gas power plant, a sea of rectangular boxes holds the key to solving one of the EU's most vexing challenges: Energy is being squandered. The containers, each weighing 26 tons and stretching as far as the eye can see, are.

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.

The EU is a proud champion of renewable energy. By 2023, almost a quarter of all the energy we consumed came from renewable sources – double the share in 2010, when it sat at 12.5%. Building on this progress and to keep the momentum, in 2023, EU countries set the binding target of achieving a share.

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. What is Europe's most comprehensive energy storage archive?

The report, now in its ninth edition, compiled by the European Association for Storage of Energy (EASE) and LCP Delta tracks over 3,000 energy storage projects from over 27 countries to claim the moniker of the most comprehensive archive of European storage.

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 can energy storage help reduce energy prices in Europe?

Energy storage technologies can ease price spikes and help renewables operators avoid curbing production at times of oversupply, an increasingly common problem in Europe.

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.

Why are European warehouses reporting high inventory levels for residential energy storage systems?

European warehouses are reporting very high inventory levels for residential energy storage systems, with aggressive prices expected, as distributors need to start clearing their stocks, according to S&P Global. Global residential storage shipments fell for the first time in Q2 2023. Image: S&P Global.

Which energy storage technology is the most popular in Europe?

Pumped hydro is the most widely used technology for energy storage in Europe and worldwide, but batteries and hydrogen have come into the spotlight over the last decade as a recent trend in the energy storage market.

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Energy storage market analysis in 14 European ...

The European Energy Storage Market Monitor (EMMES) updates the analysis of the European energy storage market (including household storage, industrial ...

Global energy storage

To support the global transition to clean electricity, funding for development of energy storage projects is required. Pumped hydro, batteries, hydrogen, and thermal storage ...



Energy oversupply in Spain causes price and project issues

Aurora Energy Research additionally highlighted that the oversupply of clean energy Europe-wide contributed to decreased electricity prices - which fell to below zero on ...

Oversupply of energy storage products in overseas energy ...

Policymakers in the United States and Europe continue to put forth measures meant to supercharge the energy storage sector toward a promising future. Even with near-term ...

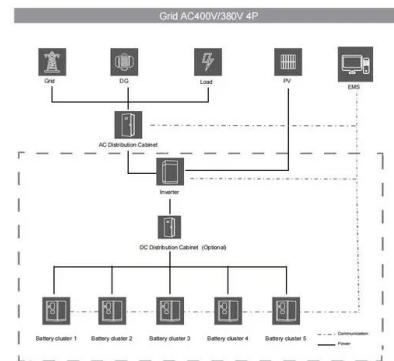


Potential utilization of battery energy storage systems (BESS) in ...

Among all the energy storage technologies, battery technologies, especially the Li-ion battery, have experienced considerable cost reduction in the last years. Therefore, the ...

European Market Outlook for Battery Storage 2025-2029

The report explores trends and forecasts across residential, commercial & industrial (C& I), and utility-scale battery segments, offering deep insights into Europe's energy ...



Recharge or regret: Why the EU must act decisively to ...

With battery-storage systems also vulnerable to cyberattacks, the EU would be wise to conduct a targeted analysis of the battery-specific ...



Europe installed 12GW of energy storage in 2024

A total of 11.9GW of energy storage across all scales and technologies was installed in Europe in 2024, bringing cumulative installations ...



Future of China's New Energy Storage in 2024: Institutions

In 2023, "internal competition and surplus" became the industry consensus for China's new energy storage, dominated by lithium-ion battery storage. In 2024, as a flag that ...

Energy Transition 2024-2025: New Demand Vectors, Technology Oversupply

The global energy transition is accelerating, yet new and underestimated challenges have emerged since 2024. Rising electricity demand--driven by artificial ...



Glut of inexpensive solar panels in Europe boosts project economics

US remains a seller's market While Europe is grappling with an oversupply of panels, the situation in the US is completely different, and so are developers' procurement strategies. For European ...

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 ...



Negative electricity prices and grid bottlenecks in Europe threaten

Analysts at Aurora Energy Research expect installed wind and PV capacity in Europe to more than triple by 2050, but expansion might not be enough to meet European ...

Lithium battery oversupply, low prices seen through 2028 despite energy

Lithium battery oversupply, low prices seen through 2028 despite energy storage boom: CEA Despite falling raw material costs and U.S. policy support, North American battery ...



Headwinds in Largest Energy Storage Markets Won't ...

It will be another record year for energy storage installations globally, but the two largest markets - China and US - may face challenges ...

Lithium battery oversupply, low prices seen through ...

Lithium battery oversupply, low prices seen through 2028 despite energy storage boom: CEA
Despite falling raw material costs and U.S. policy ...



Residential battery inventories soaring in Europe, ...

The second quarter of 2023 was the first quarter on record in which global residential energy storage shipments have declined year on year, ...

The solar module surplus: EUPD Research considers ...

As solar module prices continue to drop to record lows, amid global oversupply, questions are being asked about how much inventory is ...



In focus: Supercharging the transition with energy storage solutions

The Commission's European Energy Storage Inventory can help address this gap within Europe. Launched in March 2025, it is the first European-level tool of its kind, ...

The era of cheap Chinese solar + storage is ending - here's why

For the past year and a half, Chinese manufacturers have been selling solar modules and storage systems at rock-bottom prices, trying to move oversupply even while ...



SolarPower Europe calls for end to falling European ...

The oversupply of solar panels has already affected the European solar sector, with figures from Rystad suggesting that 40GW of ...

Electricity Oversupply: Maximizing Zero-Carbon ...

There are signs that renewable electricity oversupply is now actively being sought in order to create opportunities to decarbonize other ...



Energy storage market analysis in 14 European countries: future

The European Energy Storage Market Monitor (EMMES) updates the analysis of the European energy storage market (including household storage, industrial storage and pre-metre storage) ...

InfoLink sheds light on energy storage supply chain trends amid

Chief analyst Corrine Lin of InfoLink spoke at the conference organized by ees Europe on June 18 in Munich, offering insights into the energy storage industrial chain's current ...



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

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 ...



Is there an oversupply of energy storage

Why is energy storage oversupply a problem? The expansion is driven mainly by local governments and lacks coordination with new energy stations and the power grid. In some ...



- Efficient Higher Revenue**
 - Max. Efficiency 97.5%
 - Max. PV Input Voltage 1000V
 - 100% Peak Output Power
 - 2 MPPT Trackers, 100% DC Input Utilization
 - Max. PV Input Current 10A, Compatible with High-Power Modules
- Intelligent Simple O&M**
 - IP65 Protection Degree: support outdoor installation
 - Smart 1-19 Curve Diagnosis Function: locate primary faults accurately and automatically detect faults
 - DC & AC Type II SPD: prevent lightning damage
 - Battery Reverse Connection Protection
- Flexible Abundant Configuration**
 - Plug & Play, LPT Switching under 10ms
 - Compatible with Lead-acid and Lithium Batteries
 - Max. 6 Units Inverter Parallel
 - AGC Function (Optional): when an arc fault is detected the inverter immediately stops operation

BNEF report: US\$1.8 trillion of energy transition ...

BNEF's report found that global investment into new renewable energy generation and storage projects rose 8% to US\$623 billion in 2023 ...

Harnessing variable electricity supply , McKinsey

Additionally, due to the large heat demand in some countries, the total flexible capacity that can be unlocked from direct heating and thermal ...



Oversupply? Energy storage cell shipments triple installed

...

In addition, as behind-the-meter energy storage systems will be standardized in the future, installing energy storage facilities will become as simple as installing domestic ...



European Warehouses Are Overflowing With Chinese ...

Europe is facing an oversupply of Chinese-made solar panels, with around 40 gigawatts of capacity currently in storage and predicted to grow ...



Europe's battery supply chain faces hurdles on path to ...

The European battery industry is grappling with significant challenges hampering its competitiveness and progress toward self ...



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