JH Solar

European energy storage policy

Overview

As Europe ramps up its efforts to achieve net-zero emissions by 2050, the role of energy storage has emerged as a critical component in the clean energy transition. Policymakers, grid operators, and renewable energy developers are grappling with the complexities of integrating large-scale energy.

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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%.

The EASE Guidelines on Safety Best Practices for Battery Energy Storage Systems (BESS) are designed to support the safe deployment of outdoor, utility-scale lithium-ion (Li-ion) BESS across Europe. These guidelines aim to assist developers, manufacturers, service providers, and all stakeholders in.

The Energy Storage Coalition emphasises that energy storage is essential to address these challenges, enabling Europe to fully harness renewable energy sources. Doriana Forleo, Executive Director at the Energy Storage Coalition commented: “ The success of the energy transition depends on energy.

The massive power outage in Spain has impressively demonstrated how vulnerable the European energy system is in times of energy transition. While politicians and the public are currently focusing primarily on grid expansion, the potential of energy storage solutions remains largely unaddressed. The.

The 2025 report highlighted the urgent need to quickly deploy more energy storage infrastructure across the EU. In March 2025, the Commission launched the European Energy Storage Inventory, a real-time dashboard that displays energy storage levels across different European countries. It is the.

The growth of renewable energy sources is a vital step towards achieving the EU’s climate and energy goals. Along with grid expansion & optimisation, the EU’s ambition depends on expanding energy storage capacity to meet increasing flexibility demands and to lower electricity prices. The Energy. 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.

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.

Why is energy storage important in the EU?

It can also facilitate the electrification of different economic sectors, notably buildings and transport. The main energy storage method in the EU is by far 'pumped hydro' storage, but battery storage projects are rising. A variety of new technologies to store energy are also rapidly developing and becoming increasingly market-competitive.

What does the European Commission say about energy storage?

The Commission adopted in March 2023 a list of recommendations to ensure greater deployment of energy storage, accompanied by a staff working document, providing an outlook of the EU’s current regulatory, market, and financing framework for storage and identifies barriers, opportunities and best practices for its development and deployment.

Which countries have enacted energy storage policies & regulations?

The European Union and United Kingdom have enacted energy storage policies and regulations, with both issuing landmark legislation in 2023.

How does the EU regulate energy storage?

The EU regulation of energy storage is generally spread across a number of

regulatory acts, many of which require implementation at the level of the EU member states.

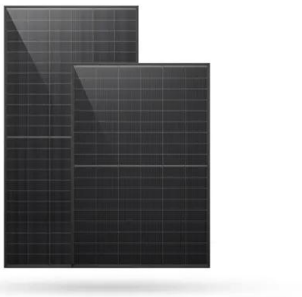
European energy storage policy

Action Plan on Energy Storage , Energy Storage ...

We are calling on the European Commission to adopt an Action Plan on Energy Storage. The growth of renewable energy sources is a vital step towards achieving the EU's climate and energy goals.

Energy Storage Legislation Updates in the ...

Discover the evolving policies and regulations of the European Union and United Kingdom, with both issuing landmark legislation in the energy storage.



European energy storage: a new multi-billion-dollar ...

How we produce and consume electricity is changing fundamentally. In Europe, the capacity of renewable energy sources is growing very rapidly, while traditional power plants are slowly being ...

Europe installed 10GW of energy storage in 2023

Europe has seen its first year when energy storage deployments by power capacity exceeded 10GW in 2023, according to consultancy LCP Delta.

Energy Legislation Updates in the European Union ...

In 2020, the European Commission published a study on energy storage, which summarized some previous studies and reports, explored current and potential energy storage markets in Europe, and set ...

SHAPING THE FUTURE OF ENERGY STORAGE

The Energy Storage Coalition is constituted of four key clean energy actors: Breakthrough Energy, The European Association for Storage of Energy, SolarPower Europe, WindEurope.

European Energy Storage Inventory , JRC SES

Disclaimer: The European Energy Inventory Storage dataset is mainly based on public data and data from Wood Mackenzie. Wood Mackenzie Limited, subject to any additional data ...

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

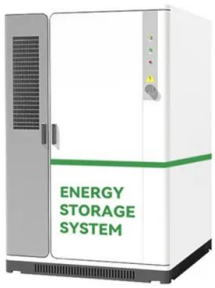
Read our European Market Outlook for Battery Storage 2025-2029 15% growth. Battery storage forecast. Drivers for battery energy storage deployment. Five policy ...

Energy storage

The main energy storage method in the EU is by far 'pumped hydro' storage, but battery storage projects are rising. A variety of new technologies to store energy are also ...

Energy Storage in Europe

Note: Required spread for a two-hour battery project assuming revenues cover project costs of EUR360,000/MWh in 2024, for previous years assumes BNEF's Europe energy storage system ...



The EU needs an Action Plan on Energy Storage

The Energy Storage Coalition calls on the European Commission to develop an Action Plan on Energy Storage to provide regulatory clarity, streamline deployment processes, and encourage ...

Market for Energy Storage Growing Across Europe ...

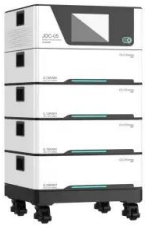
The European Commission, the executive arm of the European Union (EU), in 2023 issued recommendations on how member states should proceed with deployments of energy storage. The group ...

Europe's energy transition hinges on energy ...

For the rollout of solar and wind energy in the EU to keep up the momentum and deliver on the block's decarbonization goals, a comprehensive action plan on energy storage is needed, say ...

Energy storage -latest European policy developmen

Energy storage recommendation addressing various issues to promote energy storage, in particular regulatory barriers, better consideration of energy storage as part of grid planning ...

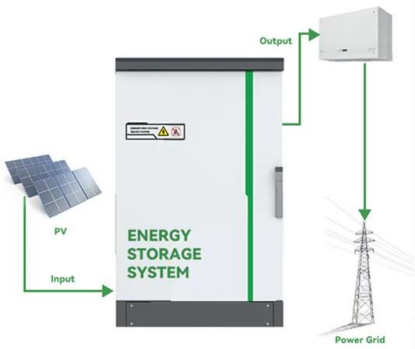


The European Association for Storage of Energy

In 2024, EASE has been instrumental in shaping policies for the evolving energy storage sector. From fostering the battery industry and ensuring effective EU legislation to developing safety ...

Action Plan on Energy Storage , Energy Storage ...

The growth of renewable energy sources is a vital step towards achieving the EU's climate and energy goals. Along with grid expansion & optimisation, the EU's ambition depends on expanding energy storage capacity to meet ...



Energy storage -latest European policy developmen

Flexibility and storage in EU energy policy - where it is addressed? EMD (original Comm, proposal): national assessment of the flexibility needs establishment of objectives to increase ...

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 ...

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 storage and pre-metre storage) and forecasts until ...

Regulatory progress for energy storage in Europe

2 Storage system operators must provide the corresponding data pursuant to the obligation to provide the information necessary for energy policy (Article L142-1 of the French energy code). The information is collected by the ...

EASE Activity Report 2023 , EASE: Why Energy ...

EASE policy activities in 2023 focused on the revision of the European Electricity Market Design and demonstrated the association's ability to foster collaboration on a wide range of topics involved with Europe's latest ...

Global Energy Storage Trends in the EU, Türkiye, and the UK

Trends in energy storage around the globe include regulations and initiatives in the European Union, incentives in Türkiye, and the UK government's push for new energy ...

Energy policy: general principles

EU energy policy is based on the principles of decarbonisation, competitiveness, security of supply and sustainability. Its objectives include ensuring the functioning of the energy market ...

Policy Priorities , EASE: Why Energy Storage?

EASE supports the creation of a policy and regulatory framework that allows energy storage to compete on a level playing field, and drives investments in energy storage research development, innovation, and deployments to ...

BloombergNEF: US, EU energy storage policy boosts global market

Recent policy developments in the US and European Union represent a considerable uplift to prospects for global energy storage deployment.

EASE: How energy storage redefines Europe's power ecosystem

Jacopo Tosoni, Head of Policy at the European Association for Storage of Energy (EASE), discusses how energy storage is rapidly reshaping Europe's energy system, ...

EMMES 9.0

The ninth edition of the European Market Monitor on Energy Storage (EMMES) by the European Association for Storage of Energy (EASE) and LCP Delta, is now available, highlighting Europe's rapid expansion in ...

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 ...

Implementation challenges as Europe embrace ...

National and European policy makers need to step up in the implementation of the European electricity market design reform. While its recognition of the critical role energy storage must play is welcome, the ...

Key Projects, Initiatives and Market , JRC SES

Here are some of the most impactful projects and policy initiatives: Under the EU's flagship research programs, Horizon Europe and Horizon 2020, numerous energy storage projects are ...

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