



EU environmentally friendly energy storage project





Overview

SEHRENE's new electrothermal energy storage (ETES) concept is designed to store renewable electricity (RE) and heat and to reconstitute it as needed. It is very energy-efficient (80-85%), is geographically independent and uses no critical raw materials. It enables 8-12 times.

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To achieve the EU's climate and energy targets, decarbonise the energy sector and bolster Europe's energy security, our energy system needs to undergo a profound transformation. The rapid deployment of a hugely increased share of variable renewable energy sources will require more flexibility.

The European Energy Storage Inventory, developed by the Joint Research Centre (JRC) of the European Commission, is a new interactive platform that maps and analyzes over 1771 energy storage projects across Europe. This publicly accessible tool allows users to explore projects by technology type.

What are the EU energy storage projects?

1. The EU has prioritized energy storage projects due to its commitment to sustainability, 2. These initiatives aim to enhance energy reliability and transition to renewable sources, 3. They involve diverse technologies, from batteries to pumped hydro.

Financing from the European Union is still needed to foster the development of energy storage in Europe, and Energy Storage Europe is actively involved in the shaping of funding programmes. Energy Storage Europe is currently involved in several EU-funded projects promoting research, innovation and.

In this context, the EU-funded SEHRENE project aims to revolutionise the electrothermal energy storage concept through the integration of energy conversion within thermal storage. SEHRENE will overcome the limitations of existing technologies, offering an energy-efficient, geographically.



There is a “healthy pipeline of projects in development” across Europe’s energy storage sector, but the technologies are as yet “significantly underutilised” below their potential. That’s according to a new report produced for the European Union (EU) Joint Research Centre (JRC) and published a few.



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Energy storage

In March 2025, the Commission launched the European Energy Storage Inventory, a real-time dashboard that displays energy ...



[New EU Tool Tracks Real-Time Energy Storage Across Europe](#)

A new interactive platform--the European Energy Storage Inventory --has been launched to provide near real-time insights into energy storage deployment across the EU, ...

EU Projects

Energy Storage Europe is currently involved in several EU-funded projects promoting research, innovation and demonstration in the energy storage sector. Our projects tackle a wide range of ...



[Store Electricity and Heat foR climatE Neutral Europe](#)

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[What are the EU energy storage projects? . NenPower](#)

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[Energy storage remains 'significantly underutilised' in EU](#)

The report, 'Overview of Energy Storage Deployment in Europe,' details the accelerating growth of adoption across a variety of technologies, including mechanical ...



[Wins for Energy Storage in the EU Grids Package](#)

Energy storage is finally recognised as a unique and grid-friendly technological asset in the renewable energy sector. This will help developers to deploy projects and connect ...

Energy storage



In March 2025, the Commission launched the European Energy Storage Inventory, a real-time dashboard that displays energy storage levels across different European countries. ...



New EU Platform Highlights Over 1771 Energy Storage Projects

The European Energy Storage Inventory, developed by the Joint Research Centre (JRC) of the European Commission, is a new interactive platform that maps and analyzes over 1771 energy ...

[Horizon Europe: Five energy storage projects](#)

Energy storage is one of the key components for Europe to secure energy supply and decarbonization and five EU projects illustrate this.



[SHAPING THE FUTURE OF ENERGY STORAGE](#)

Simple regulatory hurdles hamper the growth of energy storage projects across Europe. When these hurdles do not also apply to fossil generators, they even put energy storage at a ...



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