European energy storage technology development roadmap

What is a technology roadmap - energy storage?
This roadmap reports on concepts that address the current status of deployment and predicted evolution in the context of current and future energy system needs by using a "systems perspective" rather than looking at storage technologies in isolation. Technology Roadmap - Energy Storage - Analysis and key findings.

How many GW of energy storage will Europe have in 2050?
Different studies have analysed the likely future paths for the deployment of energy storage in the EU. These studies point to more than 200 GW and 600 GWof energy storage capacity by 2030 and 2050 respectively (from roughly 60 GW in 2022,mainly in the form of pumped hydro storage).

How much energy storage capacity does the EU need?
These studies point to more than 200 GW and 600 GWof 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.

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.

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 are the different types of energy storage technologies?
The selected technologies are categorised in chemical, electrochemical, mechanical and thermal categories as well as a category for electromagnetic energy storage.

n Improve transparency of international markets through collection and analysis of energy data. n Support global collaboration on energy technology to secure future energy supplies and ...

Figure 2 summarises the roadmap of ECs with projections towards 2030, in which the future visions on development of new high performance materials for electrodes and electrolytes are ...

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Scope and Purpose of the Technical Annex This document illuminates the overall technological maturity of industrial energy storage, focusing on its main application areas in terms of ...

The first joint EASE/EERA Technology Development Roadmap on energy storage1 was published in 2013 with the goal of identifying the most pressing technology development priorities for the ...

1. Introduction: Why Do We Need Energy Storage Targets? As highlighted in the REPowerEU initiative, the European Commission plans to increase renewables and electrification of the ...

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Different studies have analysed the likely future paths for the deployment of energy storage in the EU. These studies point to more than 200 GW and 600 GW of energy storage capacity by ...

Thermal energy storage can, for example, be implemented in heating networks in the form of Underground Thermal Energy Storage (UTES) to support the use of surplus heat from industry ...

On 2 July 2025, the European Commission published guidance on renewables, grid infrastructure and network tariffs. The communication aims to accelerate the rollout of grids, storage ...

EASE actively supports the deployment of energy storage as an indispensable instrument to improve the flexibility of and deliver services to the energy system with respect to European ...

The first joint EASE/EERA Technology Development Roadmap on energy storage11 was published in 2013 with the goal of identifying the most pressing technology development ...

A set of principles for energy storage have been developed to guide the development of this Energy Storage Roadmap. The primary principles are: ... AESO Energy Storage Roadmap ...

On 2 July 2025, the European Commission published guidance on renewables, grid infrastructure and network tariffs. The communication aims to accelerate ...

EASE seeks to build a European platform for sharing and disseminating energy storage-related information. EASE ult ropean Energy Research Alliance, is an alliance of leading organisations ...

The roadmap describes the first and major application fields for energy storage necessary for the European electricity and energy systems. These storage assets are expected to be applied ...

Today at the European Parliament Maria da Graça Carvalho hosted the Joint EASE European

Association for Storage of Energy /EERA European Energy Research ...

European Energy Storage Technology Development Roadmap ... The first joint EASE/EERA technology development roadmap on energy storage2 (ES) was published in 2013 with the ...

Joint EASE/EERA recommendations for a EUROPEAN ENERGY STORAGE TECHNOLOGY DEVELOPMENT ROADMAP 2017 UPDATE The European Association for Storage of EERA, ...

Focusing on renewable energy, Solar Pro. offers customized services that entail system design, installation, and continuous maintenance toward ensuring your specific energy needs. For ...

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 ...

This roadmap reports on concepts that address the current status of deployment and predicted evolution in the context of current and future energy system needs by using a "systems ...

4.1 Energy storage technology development. ... This first edition of the Roadmap assesses twelve electrical energy storage technologies and thermal energy, as summarised below in boxes 1 ...

Continued expansion of intermittent renewable energy, ESG-focused investments, the growing versatility of storage technologies to provide grid and customer services, and declining costs ...

The European Energy Storage Inventory is the first of its kind at European level to show all forms of clean energy storage solutions. Unlike existing databases that focus on ...

The aim of the European Energy Storage Inventory is to record all European energy storage projects by status - in operation, planned and ...

Brussels, Belgium --- (METERING) --- June 24, 2013 - The European Association for Storage of Energy (EASE) and European Energy Research Alliance (EERA) ...

With this goal in mind, the European Association for Storage of Energy (EASE) - the voice of the industrial energy storage community - and the EERA JP ES initially collaborated in 2013 to ...

The roadmap also includes recommendations for R& D policies and regulatory developments to support the development and large-scale deployment of cost-effective energy storage ...

This regional energy transition outlook for the European Union outlines a practical roadmap for achieving climate neutrality while reinforcing energy security and economic competitiveness.

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The European Association for Storage of Energy (EASE) is the voice of the energy storage community, actively promoting the use of energy storage in Europe and worldwide. EASE ...

The European Association for Storage of Energy (EASE) and the Joint Programme on Energy Storage under the European Energy Research Alliance (EERA) have ...

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