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Discover the activities and events of BEST-Storage project and delve into both long and short-term high-energy density storage solutions that will be developed and demonstrated in demo cases around Europe.

Stay updated on the latest news and developments by following us on [LinkedIn](#) and [YouTube](#), and keep an eye on our BEST-Storage project [website](#).

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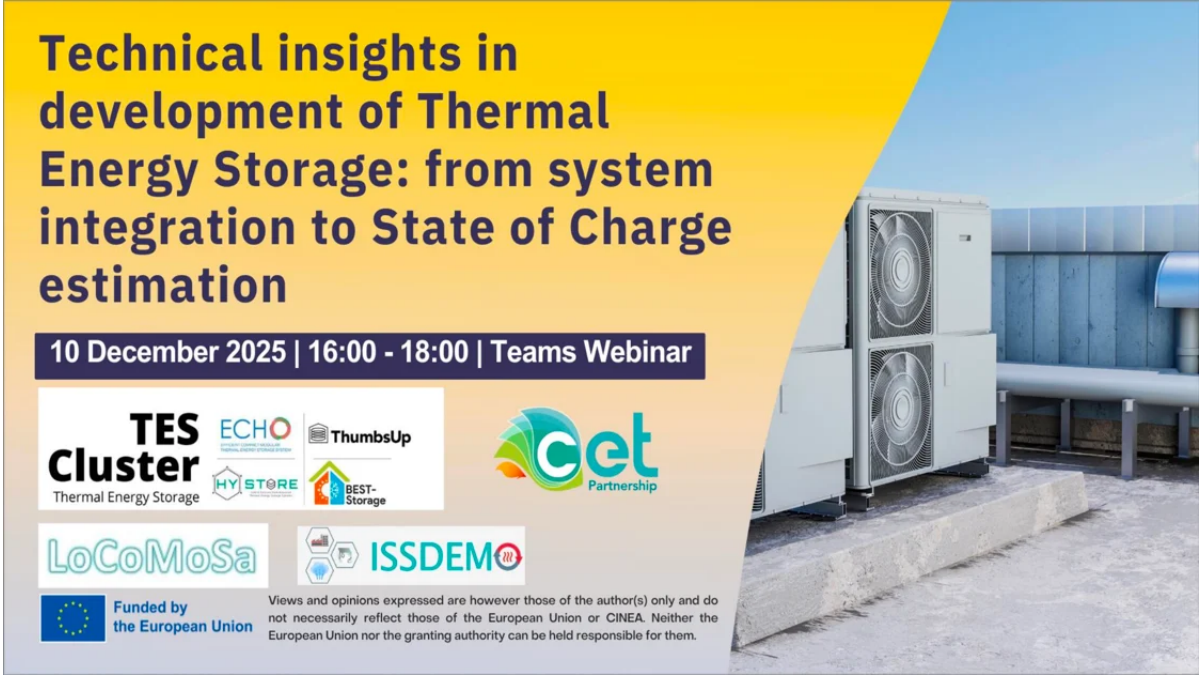
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WEBINARS & ONLINE EVENTS

WEBINAR: Technical insights in development of Thermal Energy Storage

20 May 2025, Online



The poster features a yellow and blue design. On the left, a yellow triangle contains the title 'Technical insights in development of Thermal Energy Storage: from system integration to State of Charge estimation' in bold black text. Below the title, a dark blue banner displays the date and time: '10 December 2025 | 16:00 - 18:00 | Teams Webinar'. The bottom left section contains logos for 'TES Cluster Thermal Energy Storage', 'ECHO', 'HYSTORE', 'ThumbsUp', 'BEST-Storage', 'LoCoMoSa', 'ISSDEM', and the 'Funded by the European Union' logo. A disclaimer in small text states: 'Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.' On the right, a photograph shows two large, white, industrial thermal energy storage units with fans, situated outdoors next to a blue building.

On **10th of December 2025**, the BEST-Storage project, in collaboration with the TES Cluster, delivered a specialised technical webinar on *“Technical insights in development of Thermal Energy Storage.”*

Targeted at a technical audience, the session brought together leading European projects to present complementary advances in Thermal Energy Storage (TES), with a strong focus on system integration, monitoring, control strategies, and State-of-Charge (SoC) determination—key aspects for enabling reliable and scalable TES deployment across sectors.

Key Highlights of the Webinar

-  **Welcome & Opening** – The session opened with introductory remarks

highlighting the growing role of TES in supporting Europe's transition towards a decarbonised and flexible energy system, particularly through improved integration of heating and cooling solutions and enhanced system intelligence.

◆ **Expert Presentations:**

- **Louis Desgrosseilliers (OST, representing BEST-Storage)** – *State-of-Charge Determination in Thermal Energy Storage – Outlooks for R&D and Scalability*

A key contribution of the webinar, this presentation provided an in-depth overview of State-of-Charge (SoC) determination across different TES technologies. Drawing on the work developed within the BEST-Storage project, it highlighted current challenges and research opportunities in SoC methodologies, with particular attention to PCM-based systems. The talk also presented the PCM slurry SoC strategy developed in BEST-Storage, underlining its relevance for improving monitoring, control, and scalability of next-generation TES solutions.

- LoCoMoSa Project (INFN) – Advances in molten salt TES for industrial heat applications
- ISSDEMO Project (Fraunhofer UMSICHT) – Thermal discharge behaviour and system integration of high-temperature TES
- HYSTORE Project (KTH) – State-of-Charge analysis of PCM-based heating solutions in real operation environments

◆ **Q&A & Closing** – The webinar concluded with a technical discussion addressing key challenges in TES integration, SoC determination, and real-world implementation. Participants exchanged insights on modelling, digitalisation, and performance optimisation.

With strong technical depth and cross-project collaboration, the webinar highlighted how European R&D initiatives are advancing TES technologies from development to real system integration, supporting a resilient and net-zero energy future.

Watch the Recording

PROJECT ACTIVITIES

BEST-Storage at ENLIT 2025!



From 18 to 20 November 2025, the leading European energy event took place in Bilbao, Spain, bringing together experts, companies, and institutions driving the energy transition. It was a unique opportunity to discover the latest innovations in energy storage, efficiency, and sustainability.

The BEST-Storage team actively participated and shared a booth with the TES Cluster, showcasing joint efforts and the latest solutions for smart and sustainable energy management. In addition, **Hugo Grasset, from Solintel, presented the BEST-Storage project**, highlighting its key achievements and impact.

We were delighted to welcome visitors, exchange ideas, and demonstrate how, together, we can build a cleaner, safer, and more efficient energy future.

Thank you to everyone who visited us at ENLIT Europe 2025!

BRIDGE General Assembly



BEST-Storage, participated in the **BRIDGE 2026 General Assembly**, held on 23-24 March in Brussels, bringing together key European stakeholders to discuss digitalisation and innovation in the energy sector.

Discussions focused on key priorities such as **digitalisation, interoperability, flexibility, and energy storage**, highlighting the importance of **secure, resilient, and efficient energy systems**. Particular attention was given to the role of digital solutions in enabling the energy transition.

The event also reinforced the value of collaboration across projects and sectors. For BEST-Storage, it represents an important opportunity to contribute to knowledge exchange and support the transition towards clean and sustainable energy systems in Europe.

#BrightHERFuture campaign

#brightHERfuture

Women Leading the European Heating and Cooling Transition



As part of the **International Day of Women and Girls in Science**, the European Heat Pump Association launched the **#brightHERfuture** campaign, a series of interviews highlighting women leaders contributing to a cleaner and more efficient heating and cooling sector in Europe. The initiative showcases the importance of **diversity and female leadership** in advancing innovation and accelerating the energy transition.

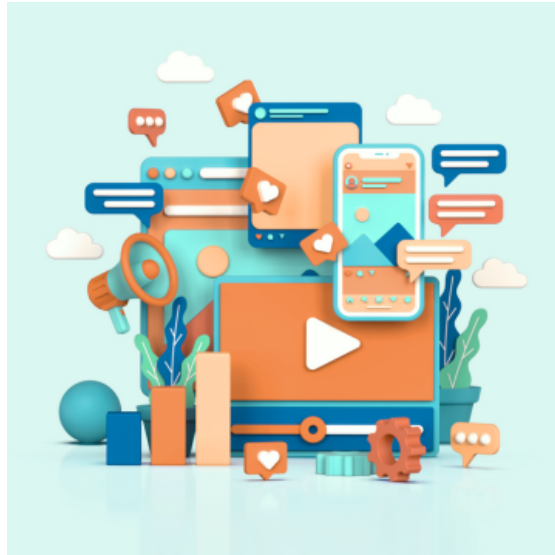
Among the projects featured is **BEST-Storage**, where experts are actively contributing to the development of **thermal energy storage solutions** as a key enabler for more flexible, efficient, and sustainable energy systems. Their work supports the integration of renewable energy sources and helps optimise energy use across heating and cooling applications.

This initiative underlines the value of **collaboration, knowledge sharing, and diverse perspectives** in driving meaningful progress. BEST-Storage is proud to be part of a broader community working towards a more inclusive and sustainable energy future.

[Learn more](#)

PROJECT RESOURCES

Discover the latest videos on the BEST-Storage YouTube channel



Explore innovative storage solutions and expert insights on our YouTube channel. Our newest videos include:

- BEST-Storage project overview: context, objectives, and demo cases.
- Energy storage in energy communities: insights from our ECHO & BEST-Storage Webinar on readiness, needs, and regulations.
- Stakeholder engagement and market analysis: a comprehensive webinar on engaging inhabitants, owners, and neighbourhood associations.
- EU Regulatory Landscape for Thermal Energy Storage: In the rapidly evolving energy sector, understanding the regulatory framework is crucial for advancing sustainable energy solutions, including Thermal Energy Storage (TES).
- Technical insights in development of Thermal Energy Storage.

Stay updated with thermal energy storage insights by watching these webinars and more on BEST-Storage channel.

Watch the videos

BEST-Storage latest publications

You can explore all the reports and publications produced by the BEST-Storage partners analyses that cover territorial aspects such as climate, energy, environment, economics and social dimensions, and that feed into methodologies for defining, assessing and optimizing storage solutions in real-world settings. These publications present insights on sustainability, modularity, flexibility, replicability and cost effectiveness of proposed configurations, and provide a techno-economic context, key performance indicators, and application perspectives in the field of residential heating, cooling and storage.

[Read the publications here](#)

Meet the project Consortium





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European Heat Pump Association AISBL, Avenue de Cortenbergh 120, Brussels, B-1000, Belgium

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