Newsletter #2: July 2, 2025 View online

Must-read highlights from FrHyGe

Hydrogen storage in salt caverns is increasingly recognised as a practical component of Europe's low-carbon energy strategy. Supported by the European Commission and national governments, this solution enhances the resilience and flexibility of future hydrogen infrastructure.

It is also being incorporated into the European Hydrogen Backbone, the cross-border network designed to connect production hubs with areas of high demand. With their ability to store large volumes and respond to supply-demand fluctuations, salt caverns provide a reliable way to stabilise the hydrogen system.

Several Member States are now integrating large-scale storage into their national hydrogen strategies. In Germany, major investments are underway to convert existing gas storage sites into hydrogen-ready infrastructure.

According to a white paper by the Federal Ministry for Economic Affairs and Climate Action (BMWK), the country's salt caverns have the potential to meet long-term hydrogen storage needs not only domestically, but also at the European scale.

In this context, both salt caverns and porous reservoirs are expected to play a central role...

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Inside FrHyGe: Expert voices on hydrogen storage and safety

Bridging innovation and safety in hydrogen storage: a joint interview with Hippolyte Djizanne and Arnaud Réveillère

In this second edition, Hippolyte Djizanne, Geomechanics Research Scientist at Ineris, and Arnaud Réveillère, Head of Department Salt and Porous Media at Geostock, explain how their work in FrHyGe combines advanced research, demonstrator design, and safety assessment to enable underground hydrogen storage across Europe. By integrating the technical developments of the Manosque demonstrator with risk-based safety and regulatory strategies, they illustrate how a collaborative, multi-expertise approach is shaping a scalable and secure model for future industrial projects.

1.What's your role in the FrHyGe project and which key experiences prepared you to lead your respective work packages ?

H. Djizanne: As leader of Work Package 5, I am responsible for the environmental, safety, and regulatory assessment of the FrHyGe project. My role is to ensure that underground hydrogen storage operations are developed within a robust safety framework, anticipating potential risks and ensuring compliance with national and EU regulations...

A. Réveillère: I lead Work Package 2, which includes defining the Manosque demonstrator's objectives and the technological/scientific developments relevant to underground hydrogen storage. My preparation for this role comes from two key experiences. First, in 2021, while working with Storengy for Géométhane, I proposed cycling between GA and GB caverns...

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Across the FrHyGe network

Enagás fuels Spain’s hydrogen progress with 3rd Hydrogen Day and launch of public participation plan for the country’s largest hydrogen backbone network in Castilla-La Mancha

At the start of the year, Spain’s President Pedro Sánchez inaugurated the Third Enagás Hydrogen Day in Madrid, a key European event that brought together experts, companies, and institutions from across the hydrogen sector to discuss current market needs, including the vital role of hydrogen storage.

Following this, Enagás rolled out its Public Participation Plan for Spain’s largest hydrogen backbone network. Stretching 2,600 km across 13 autonomous communities and over 550 municipalities, this project plays a major role in decarbonizing sectors that can’t be electrified, while encouraging sustainable reindustrialization. The plan has found strong support, especially in Castilla-La Mancha...

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Gas storage facility in Harsefeld

SaltHy: EU support boosts Storengy's hydrogen storage ambitions in northern Germany

Storengy Deutschland has received up to €4.5 million in EU funding through the Connecting Europe Facility (CEF) to advance its SaltHy project, a future underground hydrogen storage facility in Harsefeld, Lower Saxony, near the company's existing gas site. Positioned at the crossroads of major import routes from Denmark and the Netherlands, the project is designed to strengthen cross-border hydrogen infrastructure and contribute to Europe's energy transition.

Matthieu Keime, Head of Hydrogen Storage at Storengy Deutschland pointed out:

"*Thanks to the funding from the Connecting Europe Facility, we can take the next step in the implementation of our SaltHy project. Our hydrogen storage facility in Harsefeld will have an impact beyond Germany's borders thanks to its location at the crossroads of import routes from Denmark and the Netherlands. This is why the EU is*

funding the study phase of our project. Such funding is essential for the ramp-up of a European hydrogen Economy"

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Events recap – 1st semester 2025

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Clean Hydrogen Partnership
Co-funded by the European Union

The project is supported by the Clean Hydrogen Partnership and its members

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