

Sulzer and Hyme Energy partner on revolutionary molten salt energy storage

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Sulzer is developing advanced pumps for Hyme Energy's patented molten hydroxide salt energy storage solution. Building on the success of the pioneering Molten Salts Storage (MOSS) project in Denmark, this subsequent collaboration aims to commercialize the solution. This innovative technology uses molten salt to store energy from renewables to deliver green heat for industrial processes, supporting decarbonization and the global energy transition.

The two companies previously collaborated in the MOSS demonstrator plant project consortium, inaugurated in April 2024, which proved the concept of storing renewable energy in molten salt at temperatures up to 600°C.

Captured energy is discharged when molten salt is pumped from a storage tank to a heat exchanger, producing steam for industrial use. This offers a cost-competitive, green and reliable solution for industrial heat electrification, supporting the decarbonization of process heat.

Benoît Martin, Advance Engineering Manager at Sulzer explains the next steps: "With the MOSS plant providing good results since its inauguration in April 2024, we're now working with Hyme Energy to further optimize the system, improve the competitiveness of the solution and establish a strong supply chain. Sulzer's vertical turbine pumps are crucial for moving molten salt around the system, so we are also

focusing on achieving material and technical advancements to extend service life, boost performance and add value.”

Sulzer has taken a leading role in molten salt pump development over the past 20 years, fostering close technical partnerships to unlock new advances in the field. Its work on Generation 3 Concentrated Solar Power (CSP) systems, proven range of molten salt pumps and ability to rapidly prototype precision engineered components will work with Hyme Energy in commercializing its innovative energy storage technology.

“Our technology is designed to integrate with existing infrastructure, making adoption easier for industries looking to transition to sustainable energy. For us at Hyme, it is key to work with established partners like Sulzer. By combining our strengths, we can accelerate progress and bring this solution to market faster,” says Ask Emil Løvschall-Jensen, CEO and co-founder of Hyme Energy.

Benoît concludes: “We’re always ready to collaborate on new technologies. Energy storage with molten salts is a tantalizing opportunity to help decarbonize industry and accelerate the energy transition, whether in terms of heat recovery, renewable energy storage, or small modular reactors (SMRs). It’s exciting to be working with Hyme Energy to further validate this innovative technology for the benefit of all.”

Image captions:

Image 1: The installation phase of Sulzer's advanced pumps for Hyme Energy's pioneer molten hydroxide salt energy storage system.

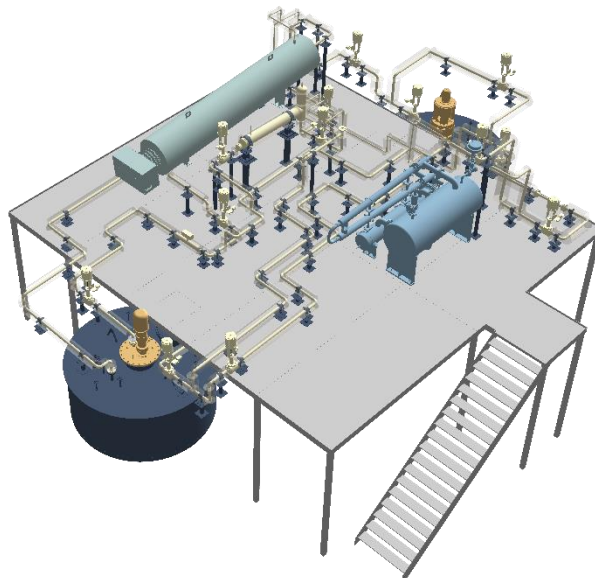


Image 2: The system stores energy from renewable energy in molten salts at temperatures of 600°C for industrial heat decarbonization

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About Sulzer

Sulzer is a global leader in critical applications for core infrastructure and processes for large essential industries around the world. We ensure the security, quality and durability of critical goods and services by supporting energy security, natural resource management and efficiencies in process industries. This in turn supports the transition to a circular economy. Our integrated solutions add significant value by enabling energy efficiency, carbon emissions and pollution reduction, and process efficiency improvements. Customers benefit from our commitment to innovation, performance and quality through our responsive network of 160 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834. In 2024, our 13'500 employees delivered revenues of CHF 3.5 billion. Our shares are traded on the SIX Swiss Exchange (SIX: SUN).

For more information, visit www.sulzer.com

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