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Azelio conducts final testing for unique pump system developed with Swiss company Egger

Azelio has developed a unique pump system for the transfer of heat in its energy storage system with the help of the Swiss company Emile Egger & Cie SA (Egger). A life-length test is now underway to verify the performance and workings of the pump system.

Azelio continues its progression towards the large-scale commercialisation of its Stirling engine based power storage solution, which produces cost-effective sustainable electricity on demand around the clock. The system's unique long-term energy storage capacity – allowing for the production of electricity for 13 hours at nominal power – rests on a thermal energy storage solution. The key to the system's effectiveness is the ability to pump sodium around it at a high temperature (600°C), which is why Azelio has collaborated with Egger – the world-leading manufacturer of advanced pump systems – to develop a tailored solution.

“The Swiss manufacturer Egger specialises in the development of pump systems that work with difficult mediums, and is therefore the most suitable partner for us as we develop a solution that meets our stringent power and performance requirements,” says Jonas Karlsson, Vice President of Development at Azelio.

In practice, the pump system drives heat through two pumps: one that heats the thermal storage unit while the other transfers heat from the storage unit to the Stirling engine.

The pump system has been tested, and it works well in controlled development environments. The system is now going to be verified by running a life-length test for 4,000 hours and by exposing it to real-life circumstances.

“This represents another important milestone for Azelio,” says Jonas Eklind, CEO, Azelio. *“The pace of our business remains high, and it's great that we can now demonstrate to the market that this critical part of our solution works in real-life environments, delivering on the promised performance.”*

Emile Egger & Cie SA, which has developed complex pump systems for a whole variety of applications for a range of industries, regards the collaboration as highly positive.

“We are proud of being able to offer our expertise and create a unique system that helps to give more people access to a reliable and effective power supply,” says Francis Krähenbühl, CEO, Emile Egger & Cie SA. *“Azelio is developing a system of great interest, and we look forward to contribute to its market deployment soon.”*

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About Azelio

Azelio is a public Swedish company specialising in thermal energy storage with dispatchable, modular, low-cost Stirling-based electricity production when and where it is needed. The technology is revolutionary for its unique capacity to store thermal energy for the production of electricity at nominal effect for 13 hours. The Swedish-based company has over 100 employees, is headquartered in Gothenburg, has production facilities in Uddevalla, development centres in Gothenburg and Åmål, as well as an international presence in China, Spain and Morocco. Since its establishment in 2008, the company has invested over SEK 1 billion in technical development. In June 2018, the company changed its name from Cleanergy to Azelio, and in December 2018 it was listed on Nasdaq Stockholm First North. FNCA Sweden AB is the company's certified adviser: +46(0)8-528 00 399, info@fnca.se.