

## Polar night energy solutions

Finnish startup Polar Night Energy is building an industrial-scale thermal energy storage system in southern Finland. The 100-hour, sand-based storage system will use crushed soapstone, a by-product from a fireplace manufacturer, as its storage medium.

Finnish startup Polar Night Energy has announced that construction is proceeding according to plan on its thermal energy sand-based storage system in the municipality of Pornainen in southern Finland. The 1 MW system will supply thermal energy for Loviisan L?mp?s district heating network.

Once in operation, it will be capable of storing up to 100 MWh of thermal energy - a capacity equivalent to almost one month of heating demand in the summer and one week of demand in Pornainen in the winter. Polar Night Energy said its Sand Battery works as a high-power, high-capacity reservoir for excess wind and solar energy, storing energy in sand as heat.

I'm a true believer of thermal energy storage. Have been following pPNE for many year now and for industrial purposes they are the most interesting. For residential I have been waiting for Batsand to come to market with their solution, I have personally signed up for their waiting list and will be buying a solution for myself. The capacity to store energy surplus from PV during the summer to use it in the winter will be a game changer for me to reach my energy independence.

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"We're thrilled with the results of this round, especially given the current challenges in the financing environment. There's been considerable interest in our work, with investors recognizing our potential. This has helped us finding the right and most supportive investors. We're excited to enter a new phase of growth



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and innovation", says Polar Night Energy's Co-Founder Markku Yl?nen.

The investment round was led by Jonathan Oppenheimer, and co-led by Finnish investment companies Stephen Industries, Holdix and Turret, and joined by a Swedish family-owned investment company PC Rettig & Co. Impact and a group of existing investors.

Polar Night Energy and Jonathan Oppenheimer share the vision that thermal energy storage sits at the center of clean energy production. Jonathan Oppenheimer is a South African businessman, social impact investor, and conservationist. He has been appointed to the Board of Directors at Polar Night Energy.

"I believe protecting our environment and climate is central to our survival as human beings and society. The environment we live in is under threat, and we need to find sustainable ways to thrive while preserving our planet. Polar Night Energy has the potential to be a part of the solution", says Jonathan Oppenheimer.

"We that enabling the energy transition requires a significant amount of energy storage technology, and based on our assessment, Polar Night Energy is perfectly positioned to meet this demand," says Stephen Industries" Chairman Kustaa Poutiainen.

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