

Lausanne - Alpiq expands its flexibility portfolio and acquires one of the largest battery energy storage systems (BESS) in Finland. The 30 MW large-scale battery from Merus Power, a leading Finnish technology company, will have one of the highest capacities in Finland and will become operational in Valkeakoski in mid-2025.

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.

The first commercial sand-based thermal energy storage system in the world has started operating in Finland, developed by Polar Night Energy. Polar Night Energy's system, based on its patented technology, has gone online on the site of a ...

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This collaboration marks the development of the first joint Battery Energy Storage System (BESS) 60 MWh site in Simo, Finland, located at the top of the Baltic Sea, just over 100 kilometers below the Arctic Circle. Construction of the first phase of the project started in May 2024 and is expected to be operative in Q1 2025.

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"This will be one of the largest electricity storage systems in Finland and will provide the quick response needed to stabilize the grid when renewable energy production fluctuates." The Sargent & Lundy project team conducted a thorough technical due diligence and assessment of Merus Power.

The Lakiakangas electricity storage is reportedly the first electricity storage in Finland with capacity for multimarket trading. In this context, multimarket trading refers to having the electricity storage support the balance of the electricity system by participating in multiple reserve markets at once.

Hitachi ABB Power Grids and Teollisuuden Voima (TVO) have signed a contract about delivering one of Europe's largest battery energy storage systems to the island of Olkiluoto. The 90-megawatt system will support the entire energy network in a potential production disturbance of the OL3 plant unit, thus minimizing the effect of power ...



Finland large scale energy storage systems

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The project aims to investigate the potential of different energy storage technologies in Finland. These should be able to store electrical energy and use it to produce electricity, heat, or different

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