

Finnish new energy storage battery company





Overview

Swedish flexible assets developer and optimizer Ingrid Capacity has joined hands with SEB Nordic Energy's portfolio company Locus Energy to develop what is claimed to be Finland's largest and one of the Nordics' largest battery energy storage systems (BESS). Is this Finland's largest battery energy storage system?

Swedish flexible assets developer and optimizer Ingrid Capacity has joined hands with SEB Nordic Energy's portfolio company Locus Energy to develop what is claimed to be Finland's largest and one of the Nordics' largest battery energy storage systems (BESS). The 70 MW/140 MWh BESS project will be located in Nivala, northern Finland.

How will a new battery energy storage system help the Finnish grid?

After the start of commercial operations in 2026, the project will contribute an important balancing function to the Finnish grid, supporting the Finnish renewable energy expansion. The groundbreaking ceremony took place in the afternoon on Monday the 26th of May on the site near Nivala where the battery energy storage system will be built.

How does Finland's new sand battery work?

Finland's new sand battery in Pornainen cuts emissions by 70% and stores 100 MWh, revolutionizing renewable energy storage and heating.

What is the Nivala battery energy storage system?

The Nivala battery energy storage system marks the second collaboration project between Locus Energy and Ingrid Capacity.

Is Ingrid developing a battery energy storage system?

Ingrid is developing the battery energy storage system (BESS) project in partnership with investor SEB Nordic Energy portfolio company Locus Energy for a commercial operation date (COD) in 2026. The firm said it the project in



Nivala, in the Northern Ostrobothnia region of Finland, is the largest ready-to-build (RTB) BESS in Finland.

What drives the Finnish storage market?

Revenues in the Finnish storage market have largely been driven by ancillary services, primarily mFRR, aFRR, FCR-N, FCR-D, and FFR, but opportunities in energy trading are also increasing with the renewables buildout.



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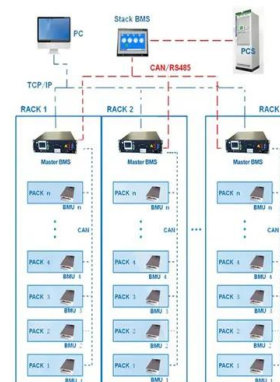


World's Largest 1 MW/100 MWh Sand Battery Commissioned in Finland

In May, 2025, Polar Night Energy revealed plans to develop a pilot plant in southern Finland, to test its power-to-heat-to-power sand battery technology, which converts ...

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BMS Wiring Diagram



The World's Largest Sand Battery Was Just Switched On In Finland

Towering at 13 meters tall and spanning 15 meters wide (42 by 49 feet), the sand battery was built by Polar Night Energy on behalf of the power company Loviisan Lämpö in the ...

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A review of the current status of energy storage in Finland and ...

This study reviews the status and prospects for energy storage activities in Finland. The adequacy of the reserve market products and balancing capacity in the Finnish energy ...

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Ingrid Capacity & Locus Energy to build 140MWh Finnish battery

Ingrid Capacity, in collaboration with SEB Nordic Energy portfolio company Locus Energy, is to build Finland's "largest battery energy storage system", a 70MW/140MWh in ...



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Testing to start on 100 MWh sand-based thermal ...

Testing of the Sand Battery will begin during the winter, with commissioning set for 2025. In 2022, Polar Night Energy switched on the ...

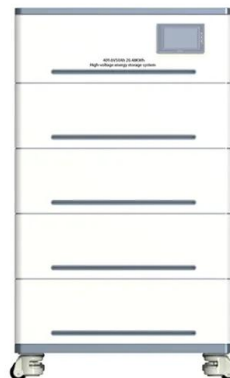
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Top 10 Energy Storage Companies in Finland: A 2024 ...

Finland Energy Market. Energy Storage Facilities Market Trends in Finland The countries of the North provide good security for environmental ...

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Europe: World's largest sand battery goes live, cuts ...

Built for Loviisan Lämpö, a Finnish energy company that operates the local heating system, the sand battery delivers one megawatt of thermal ...

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Energy-Storage.news Premium speaks with Ryan Hledik, Principal at the Brattle Group, and Lauren Nevitt, Senior Director of Public Policy at Sunrun, on the shaky future of California's ...

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[Finnish 100 MWh sand battery is operational](#)

To maximize revenue, the battery will be optimized by Finnish company Elisa. Project developer Polar Night Energy in May announced plans ...

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Giant Sand Battery Powers Up in Breakthrough for Clean Energy

Finland has unveiled the world's largest sand battery, a groundbreaking energy storage system designed to capture surplus power from renewable sources such as wind and solar. Standing ...

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Finnish City Launches 1 MW/100 MWh Sand Battery for Innovative Energy

District Heating Transformed: Eliminating Oil Reliance Loviisan Lämpö, a Finnish district heating company serving multiple municipalities, collaborated with Polar Night Energy ...

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Finland unveils world's largest sand battery for heating

Finland's new sand battery in Pornainen cuts emissions by 70% and stores 100 MWh, revolutionizing renewable energy storage and heating.

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Groundbreaking ceremony marks commencement of one of Finland...

SEB Nordic Energy's portfolio company Locus Energy, in collaboration with Ingrid Capacity, proudly announces the groundbreaking of one of Finland's largest battery energy ...

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Finland warms up the world's largest sand battery, ...

It doesn't look like much, but Finland recently flipped the switch on the world's largest sand-based battery. Yes, sand. A sand battery is a type of ...

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World's largest 1 MW/100 MWh sand battery ...

Finnish startup Polar Night Energy has announced its industrial-scale sand battery in Pornainen, southern Finland, is now operational ...

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Ingrid Capacity building largest BESS in Finland

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Europe: World's largest sand battery goes live, cuts 70% CO2 ...

Built for Loviisan Lämpö, a Finnish energy company that operates the local heating system, the sand battery delivers one megawatt of thermal energy and has a storage capacity ...

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How Finland's giant sand battery is storing clean ...

Pornainen, in southern Finland, is now home to the world's largest sand battery: a 13-metre-high, 15-metre-wide thermal storage system built by ...

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[Ardian Reaches FID on Finnish Battery](#)

With this addition, Ardian's Nordic clean energy portfolio now exceeds 500MW. It follows investment in Mertaniemi battery storage energy project in February 2024, expected to ...

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This disused mine in Finland is being turned into a ...

A Scottish company is using the Pyhäjärvi mine to build its first full-scale prototype gravity energy store.

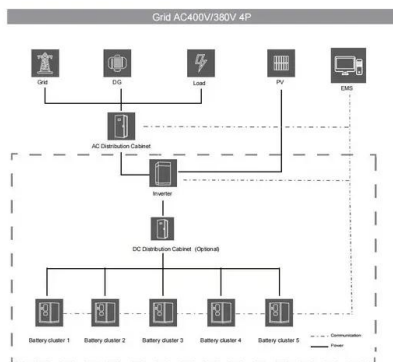
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[Finland to host 240 MWh of new BESS projects](#)

Swedish flexible assets developer and optimizer Ingrid Capacity has joined hands with SEB Nordic Energy's portfolio company Locus Energy ...

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Elisa to optimise 100MWh Sand Battery in Finnish reserve markets

Elisa will manage the charging activity of a 100MWh 'Sand Battery' project in Finland, optimising its activity in the reserve market.

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[Finland to host 240 MWh of new BESS projects](#)

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[World's Largest Sand Battery Now in Operation](#)

Polar Night Energy is a Finnish company developing high-temperature thermal energy storage systems for wind and solar power. Its patented Sand Battery technology ...

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[Ingrid Capacity building largest BESS in Finland](#)

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World's first commercial sand battery begins energy ...

Polar Night Energy says it's just opened its first commercial sand battery at the premises of "new energy" company Vatajankoski, a few hours ...

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How Finland's giant sand battery is storing clean energy (and ...

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