

Finnish energy storage projects





Overview

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

This paper has provided a comprehensive review of the current status and developments of energy storage in Finland, and this information could prove useful in future modeling studies of the Finnish energy system that incorporate energy storages.

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.

Which energy storage technologies are being commissioned in Finland?

Currently, utility-scale energy storage technologies that have been commissioned in Finland are limited to BESS (lithium-ion batteries) and TES, mainly TTES and Cavern Thermal Energy Storages (CTES) connected to DH systems.

Is energy storage a viable solution for the Finnish energy system?

This development forebodes a significant transition in the Finnish energy system, requiring new flexibility mechanisms to cope with this large share of generation from variable renewable energy sources. Energy storage is one solution that can provide this flexibility and is therefore expected to grow.

Are energy storage systems a solution to Finland's energy transition?

Energy storage systems offer a solution. "This groundbreaking is an important moment for Finland's energy transition and a concrete step toward a more



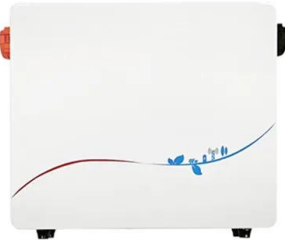
flexible, resilient, and decarbonized energy system,” said Jussi Jyrinsalo, Senior Vice President at Fingrid.

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.



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[The largest Sand Battery optimizes Finnish district heating](#)

Loviisan Lämpö, a Finnish district heating company, is now operating the largest Sand Battery to produce cleaner heating energy. This facility aims to reduce dependence on ...

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[RPC marks next stage of BESS development in Finland](#)

This is RPC's first BESS and is planned to be operating in Summer 2026. Located in Uusikaupunki, Finland, the project will bring 50 MW/100 MWh of storage to the system. The ...

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

products and balancing capacity in the Finnish energy system are also studied and discussed. The review shows that in r. cent years, there has been a notable increase in the deployment of ...

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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 to develop what is claimed to be ...

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Finland Power Storage Base: Innovations, Trends, and Case ...

With projects ranging from underground thermal vaults to cutting-edge battery systems, Finland's approach to energy storage is about as diverse as its famous midnight sun phases .

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

Finland's sand battery stores renewable energy as heat using crushed soapstone, helping one town slash emissions and eliminate oil from its heating system.

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Ardian Clean Energy Evergreen Fund (ACEEF) Expands Finnish ...

As Finland's weather dependent renewable energy share continues to grow, driven largely by wind power, battery storage is crucial for ensuring grid stability. This project is a key ...

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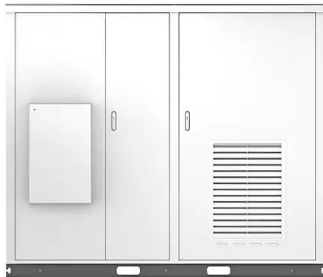
[Ingrid Capacity building largest BESS in Finland](#)

Sweden-headquartered BESS developer-operator Ingrid Capacity will build a 70MW/140MWh project in Finland, which it claimed will be the largest in the country.

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Solar



Nala Renewables acquires BESS project and expands into Finland

Nala Renewables, a global power and renewable energy platform and independent power producer, has entered into an agreement to acquire a 50MW, ready-to-build battery ...

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Finnish renewables firm Winda Energy embarks on first storage project

Finnish renewables developer Winda Energy Oy has announced its first energy storage initiative, an industrial-scale 30-MW/60-MWh battery project in the Finnish municipality ...

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

This paper has provided a comprehensive review of the current status and developments of energy storage in Finland, and this information could prove useful in future ...

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[Finland Powers Up: Helen Launches the 40 MW ...](#)

Finnish utility Helen launches a 40 MW battery project to stabilize the grid and integrate renewables. To learn more about the project check our news coverage.

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[Ardian Reaches FID on Finnish Battery](#)

It follows investment in Mertaniemi battery storage energy project in February 2024, expected to start operations in the second quarter of 2025. The battery storage project ...

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[SEB Nordic Energy invests in major battery storage project](#)

SEB Nordic Energy's portfolio company, Locus Energy, in collaboration with Ingrid Capacity, will build the largest battery energy storage project in the Nordics. The project will ...

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[Groundbreaking ceremony marks commencement of one of](#)

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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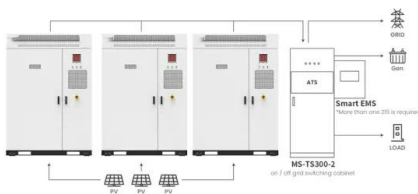




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Application scenarios of energy storage battery products

[OX2 sells battery energy storage project in Finland](#)

The battery energy storage project Uusnivala will have a total capacity of 50MW / 110 MWh and provide the Finnish grid system with ancillary services to help regulate ...

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[Technologies for storing electricity in medium](#)

This report provides an initial insight into various energy storage technologies, continuing with an in-depth techno-economic analysis of the most suitable technologies for Finnish conditions, ...

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Industrial-scale sand battery to green Finnish district heating

Finnish energy storage developer Polar Night Energy has built an industrial-scale sand battery in the municipality of Pornainen for the Loviisan Lämpö's district heating network. ...

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