

Finland energy storage project site





Overview

The 70 MW/140 MWh BESS project will be located in Nivala, northern Finland. Set to go online in 2026, the facility will enhance grid stability, energy resilience and accelerate green electrification. The project marks Ingrid Capacity's first two-hour system and its debut in Finland. 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.

What is the future of energy storage in Finland?

Reserve markets are currently driving the demand for energy storage systems. Legislative changes have improved prospects for some energy storages. Mainly battery storage and thermal energy storages have been deployed so far. The share of renewable energy sources is growing rapidly in 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.

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 big is Finland's underground heat storage system?



At more than 1 million cubic meters in size, the underground heat storage system will have a total capacity that corresponds to the annual heating demand of a medium-sized Finnish city. The 90 GWh seasonal thermal energy storage will be built in Vantaa, near Helsinki.

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.



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

The 70 MW/140 MWh BESS project will be located in Nivala, northern Finland. Set to go online in 2026, the facility will enhance grid stability, energy resilience and accelerate ...

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Groundbreaking ceremony marks commencement of one of Finland...

The first project, currently under construction, consists of 13 new grid scale battery energy storage systems across the south of Sweden, and is planned to add an additional 196 ...



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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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Energy storage systems and materials , Aalto University

Circular design of energy systems To ensure that the materials in used for the green energy transition are recoverable and therefore can be considered sustainable, we have ...



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Finland to host 90 GWh thermal energy storage system

Vantaa Energy plans to construct a 90 GWh thermal energy storage facility in underground caverns in Vantaa, near Helsinki. It says it will be the world's largest seasonal ...

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NTR Signs Key Contracts for Uusnivala Battery Energy Storage ...

NTR has contracted partners for a 55MW battery storage project in Finland, enhancing energy resilience and supporting decarbonization efforts.

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Sungrow installs 60MWh battery in Finland near the Arctic Circle

Chinese group Sungrow Power Supply Co. Ltd has completed the commissioning of a battery energy storage system with a capacity of 60MWh in Simo, Finland. Developed in partnership ...

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One of Finland's largest energy storage facilities commissioned in

The energy storage facility delivered by Merus Power to Lappeenranta, Finland, has been completed and put into market use on 15 May 2025. The energy storage facility is ...

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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. Ingrid is ...

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Standard 20ft containers



Standard 40ft containers



Å Energi acquires a majority stake in a large-scale energy storage project

"Finland is a promising market for energy storage projects, being well set up for ancillary services and with growth forecast in the wholesale electricity market.

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SENS Forms JV for Finland UPHS Energy Project After Financial ...

Sustainable Energy Solutions Sweden Holding AB (SENS) has formed a joint venture (JV) with Mine Storage and Vimab for the (Underground Pumped Hydro Storage) ...

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Hybrid pumped hydro-BESS project takes shape in Finland

A 'new energy cluster in Finland' plans to co-locate a 75 MW underground pumped storage hydroelectric (UPHS) facility and a 85 MW battery energy storage system (BESS) at a ...

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Aquila and MW storage launch Finland BESS projects

Aquila executives marking the start of construction at a project in Germany recently. Image: Aquila Clean Energy. Aquila Clean Energy EMEA ...

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Kemijärvi BESS Project - 30 MW / 60 MWh Battery Energy Storage in Finland

4 days ago· A 30 MW / 60 MWh battery energy storage system is being built in Kemijärvi, Northern Finland, and will be completed in summer 2026 to strengthen the stability and ...

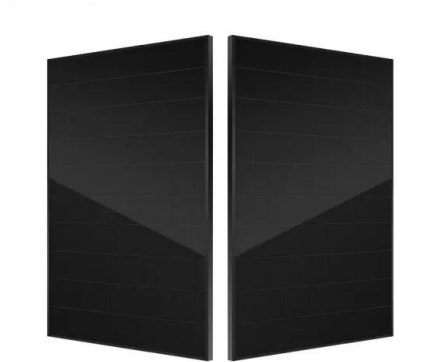
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Finland activates world's largest sand battery to store renewable ...

Finland has activated the world's largest sand battery in Pornainen, storing excess renewable energy as heat to power an entire town's heating needs. The system cuts heating ...

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Kemijärvi BESS Project - 30 MW / 60 MWh Battery Energy ...

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Finland's Largest Battery Storage Project: A Game-Changer for ...

Finland's Yllikkälä Power Reserve Two is a game-changer for the country's energy sector, bringing stability, sustainability, and security to the grid. As the largest battery storage ...

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

The first project, currently under construction, consists of 13 new grid scale battery energy storage systems across the south of Sweden, and is ...

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Under Construction: Biggest battery storage in Nordics is being ...

When French renewable energy expert Neoen wanted to build the Nordics' largest battery storage unit in Finland, Fingrid was ready and eager to lend a hand. Neoen was ...

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Finland's largest Battery Energy Storage System (BESS) - ...

Paistinkulma Energy Storage is set to become one of the largest battery energy storage systems (BESS) operating in Finland's frequency reserve market. Taaleri Energia, a Finnish-based ...

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Polar Night Energy plans second pilot sand-battery in Finland

Polar Night Energy will build a second pilot plant in southern Finland to test its power-to-heat-to-power sand battery technology. The project aims to demonstrate the ...

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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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[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 ...

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[Ardian Reaches FID on Finnish Battery](#)

Ardian, in partnership with its operating platform eNordic, has reach a final investment decision to build a 30MW battery energy storage system (BESS) in Finland. This ...

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