

Finland s first energy storage power station goes into operation



Overview

The energy storage facility delivered by Merus Power to Lappeenranta, Finland, has been completed and put into market use on 15 May 2025. The facility has a capacity of approximately 1 MW of thermal power and stores around 100 MWh of heat, using about 2,000 tonnes of crushed sand. An energy company has commissioned the world's first industrial-scale sand battery in a town in Finland, where it will use surplus renewable energy to generate heat which will then be supplied to the local district heating network. The installation, developed by Finnish startup Polar Night Energy. A district network heating operator in Finland has commissioned a 1MW/100MWh thermal energy storage project using novel 'Sand Battery' technology from Polar Night Energy. It's set to reduce carbon emissions from the local heating network by as much as 70%, and is the largest. 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 Finnish company Polar Night Energy. Capable of holding 100 megawatt-hours (MWh) of heat, the new battery will slash emissions from the town's district.

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World's largest sand battery enters operation in Finland

Loviisan Lämpö has commissioned the world's largest sand battery, a high-temperature thermal energy storage system. Developed by Polar Night Energy, the industrial-scale sand battery now serves as ...

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

The installation, developed by Finnish startup Polar Night Energy, is now reportedly fully operational in the small municipality of Pornainen and represents a significant milestone in the



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The World's Largest Sand Battery in Pornainen, Finland, First of its Kind

Finland has inaugurated the world's largest sand battery this week in the southern town of Pornainen, first of its kind. This battery has actually been in operation since June, and the company ...

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

The facility, now operational as of June 2025, is the world's largest sand-based, high-temperature thermal storage system, delivering 1 MW of thermal power and 100 MWh of storage ...

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

Finland has launched the world's largest operational sand battery in the municipality of Pornainen. The facility stores renewable energy as heat and supplies thermal energy to the local ...

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

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 Finnish company Polar Night Energy.

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'Sand Battery' goes into commercial operation in Finland

A district network heating operator in Finland has commissioned a 1MW/100MWh thermal energy storage

project using novel 'Sand Battery' technology from 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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World's First Large-scale Sand Battery Goes Online in Finland

Finnish companies Polar Night Energy and Vatajankoski have built the world's first operational "sand battery", which provides a low-cost and low-emissions way to store renewable ...

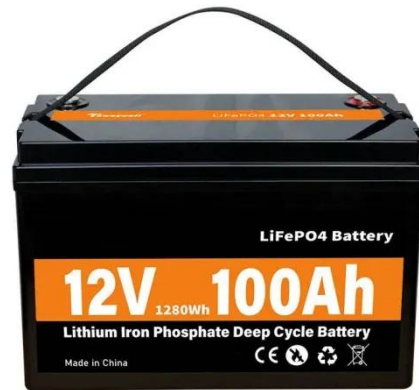
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One of Finland's largest energy storage facilities commissioned in

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 owned by a ...

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