

## Kongres Container

# Features of Finnish energy storage batteries



## Overview

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The 15 metres wide battery can store a month's heat demand in summer - how does it work?

The world's largest sand battery has started working in the southern Finnish town of Pornainen. Capable of storing 100 MWh of thermal energy from solar and wind sources, it will enable residents to eliminate.

Finland has successfully deployed the world's largest sand battery as part of innovative renewable energy storage solutions that cut carbon emissions by nearly 70 percent. The massive 15-meter-wide system in Pornainen can store enough thermal energy to meet the town's heating needs for an entire.

Like battery energy storage systems, Varanto also addresses the mismatch that often arises between renewable energy generation and demand. Finland's southern town of Pornainen is also home to the world's largest sand battery. The 100 MWh commercial battery project was commissioned in June 2025.

Finland has launched the Nordic region's first grid-forming battery energy storage system (BESS) at Fingrid's Virkkala substation. This 30 MW/30 MWh facility was developed by Wärtsilä and is designed to stabilize and support the national power grid. Finland has taken a significant step toward.

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