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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.

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.

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 legal in Finland?

Like the energy storage market, legislation related to energy storage is still developing in Finland. The two are intertwined as who is allowed to own and operate energy storages will define the business models of the storages. A major barrier to the implementation of ESS was removed when the issue of double taxation was solved.

May 15, 2025&nbsp;&#0183;&nbsp;&nbsp;Sungrow announced the successful deployment of the lithium-ion (Li-ion) battery energy storage system (BESS) in Simo, ...

Sep 28, 2019&nbsp;&#0183;&nbsp;&nbsp;Finland's energy storage sector - particularly energy storage tanks - has become the unsung hero of their carbon-neutrality ambitions. But let's cut to the chase: if you're here, ...

Jul 6, 2022&ensp;#0183;&ensp;The first commercial sand based thermal energy storage system in the world has started operating in Finland, developed by Polar Night ...

Jun 7, 2024&ensp;#0183;&ensp;Transmission Grids, Capital Cost and Energy Storage are the key action priorities that stand out in Finland's energy horizon, according to the 2024 World Energy Issues Monitor ...

As the share of decentralised and intermittent renewable energy increases, storage is taking on a central role in enabling its smooth integration into the energy system and in shaving ...

Jul 29, 2025&ensp;#0183;&ensp;Finland's energy storage market is expanding, thanks largely to increasing renewable energy sources, plus regulatory adaptation being made by Fingrid, the transmission ...

A review of the current status of energy storage in Finland and future development prospects This is an electronic reprint of the original article. This reprint may differ from the original in ...

Apr 9, 2024&ensp;#0183;&ensp;Vantaa Energy plans to construct a 90 GWh thermal energy storage facility in underground caverns in Vantaa, near Helsinki. It says it ...

Jun 19, 2025&ensp;#0183;&ensp;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 ...

Jul 1, 2024&ensp;#0183;&ensp;Swiss investment fund MW Storage has contracted Fluence to supply and integrate a 20MW battery storage asset in Finland.

Mar 14, 2021&ensp;#0183;&ensp;Embedded Structure Helsinki's Hot Heart is an array of cylindrical basins filled with hot seawater. They can be floating or partially dug into the seabed near the city and provide ...

Jul 15, 2024&ensp;#0183;&ensp;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 ...

Apr 9, 2024&ensp;#0183;&ensp;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 ...

Summary: Helsinki is rapidly becoming a hub for cutting-edge energy storage solutions. This article explores the latest investment patterns, technological advancements, and regulatory ...

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Investing in Battery Energy Storage Systems (BESS) in Finland presents a significant opportunity due to the

