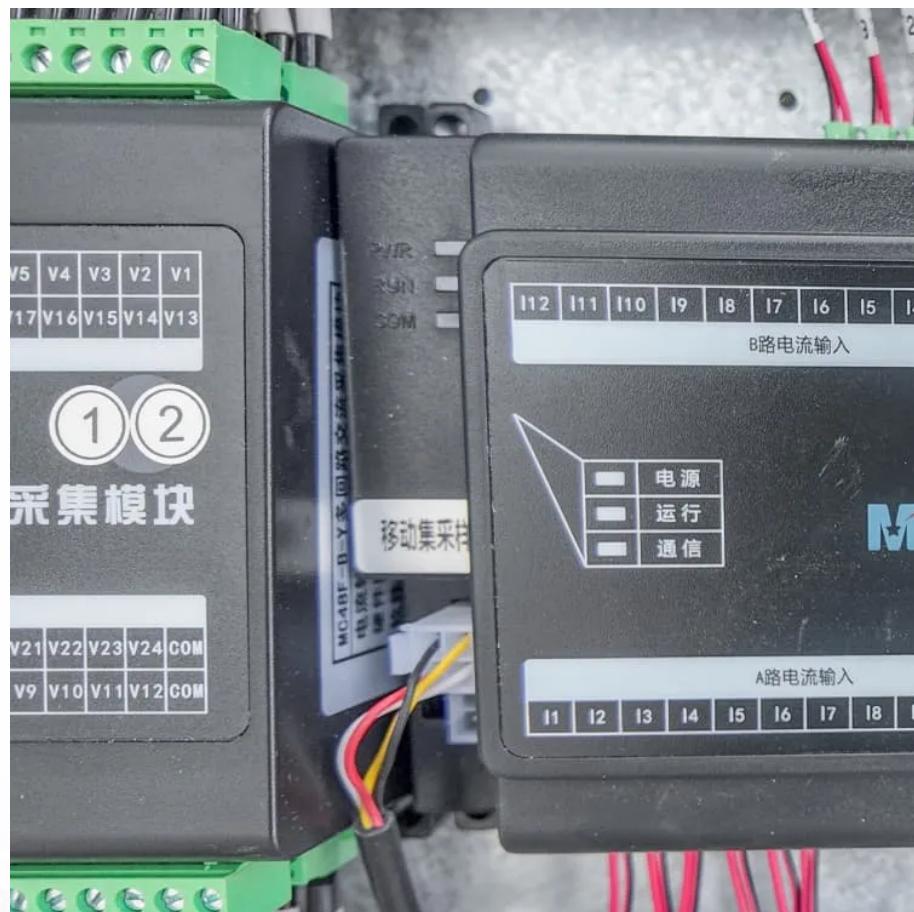


## A-Core Container

# Finland household energy storage power supply price



## Overview

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The status of these energy storage technologies in Finland will be discussed in more detail in the next sub-sections, giving a better understanding of the current and potential role of these energy storage technologies in the Finnish energy system.

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Over the past three years, Finland's energy storage market has grown faster than a Helsinki startup – jumping from €180 million in 2021 to an estimated €320 million in 2024. But here's the kicker: module prices dropped 12% during the same period. How's that possible?

Let's unpack this paradox.

You know, Finland's electricity prices have been rollercoastering since 2022. Last winter saw prices spike to €245/MWh - that's 400% higher than the 2019 average. But wait, no. actually, regional differences matter. Lapland's off-grid communities paid even more during polar nights when solar.

The statistics on energy prices describe energy prices, energy taxes and tax-like payments. The data are collected from different sources and published quarterly. Database tables 13rb and 13nl of the statistics on energy prices corrected. You can find updated tables in the StatFin database. Extract.

Finnish Energy has compiled statistics on electricity price developments. The presentation also explains the reasons behind the prices. Finnish Energy has compiled statistics on electricity price developments. The presentation also explains the reasons behind the prices.

Finland, like many countries, has a complex electricity market that is subject

to various factors that impact prices. Electricity prices in Finland are influenced by a variety of factors, including supply and demand dynamics, production costs, weather conditions, market regulation, and government. How much does electricity cost in Finland?

The average price of electricity in Finland, in June of 2024, has been 0.2465€ per kilowatt hour. Electricity price has increased € 0.0062 kWh, 2.58% since the previous semester. Meanwhile, the average price of electricity without taxes in Finland in that period was € 0.1763 per kilowatt hour, compared to € 0.1712 kWh in the previous semester.

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.

Is the energy system still working in Finland?

However, the energy system is still producing electricity to the national grid and DH to the Lempäälä area, while the BESSs participate in Fingrid's market for balancing the grid. Like the energy storage market, legislation related to energy storage is still developing 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.

What is the electricity supply in Finland in 2022?

The electricity supply in Finland is quite diverse. As presented in Fig. 1, the Finnish electricity supply in 2022 consisted of nuclear power (29.7 %, 24.2 TWh), different types of thermal power plants (24 %, 19.6 TWh), imports (15.3 %, 12.5 TWh), hydropower (16.3 %, 13.3 TWh), wind power (14.2 %, 11.6 TWh), and solar power (0.5 %, 0.4 TWh).

What factors influence the development of energy storage activities in Finland?

Several parameters are influencing the development of energy storage activities in Finland, including increased VRES production capacities, prospects to import/export electricity, investment aid, legislation, the electricity and reserve markets and geographic circumstances.

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