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# Helsinki Energy Storage Peak Shaving Project Subsidy

Can peak shaving reduce energy costs?

Modern consumers actively seek cost-effective energy solutions and sustainable practices. This white paper explores peak shaving as an effective method to minimize energy costs. Energy and facility managers will gain valuable insights into how peak shaving applications can help unlock the full potential of energy storage systems.

What is peak shaving?

Peak shaving involves selectively transferring specific loads within a facility from the grid to an energy storage system. This process is accomplished by disconnecting the power supply of a specific load(s) from Source A (typically the grid) and connecting them to Source B (an energy storage system).

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.

A novel peak shaving approach to improving load flexibility of the ... A novel peak shaving system is proposed that integrates Allam cycle and cold energy storage system. o Cold energy is used ...

Why Finland Leads Europe's Battery Storage Boom With wind power generation jumping 23% year-on-year in Q1 2025 [1] and solar capacity projected to triple by 2027 [3], Finland's energy ...

The model leverages meteorological data and household historical energy consumption data to accurately forecast electricity needs, allowing for efficient energy storage during off-peak ...

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

The optimized energy storage system stabilizes the daily load curve at 800 kW, reduces the peak-valley difference by 62%, and decreases grid regulation pressure by 58.3%. ...

Hitachi Energy has won a contract from Nordic Electro Power (NEPower) to supply power conversion systems for Finland's largest battery energy storage system (BESS), being ...

What Is "Peak Shaving" and How Does It Create Value for Energy Storage Projects? Peak shaving is the process of reducing a facility's maximum power demand during ...

The proposed tax subsidy is targeted at investments that accelerate the green transition and reduce dependency on fossil fuels. Although renewable electricity production projects are ...

For instance, operators can aggregate their energy storage resources to support ancillary electricity services, such as power grid frequency regulation and peak shaving, which ...

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Located in Finland, this project features a 3.4MW/7.1MWh grid-side battery energy storage system (BESS) designed to provide peak shaving and frequency regulation services. By ...

Peak shaving works by recognizing these high-demand durations and tactically handling energy intake to decrease the top lots. This can be attained via various approaches, such as using ...

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 ...

Located in Finland, this project features a 2.5 MW/5MWh grid-side battery energy storage system (BESS) designed to provide peak shaving and frequency regulation services.

The annual net income after peak shaving is related to the subsidy policies of the region where the power plant is located. ... Analysis of energy storage demand for peak shaving and ...

Technological advancements in energy storage, forecasting tools, and integration with renewable energy systems will continue to improve the effectiveness of peak shaving. In ...

An algorithm is developed to determine the threshold level for peak shaving. One of the buildings at Universiti Tunku Abdul Rahman (UTAR), Malaysia, is chosen for this study. A three-phase ...

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