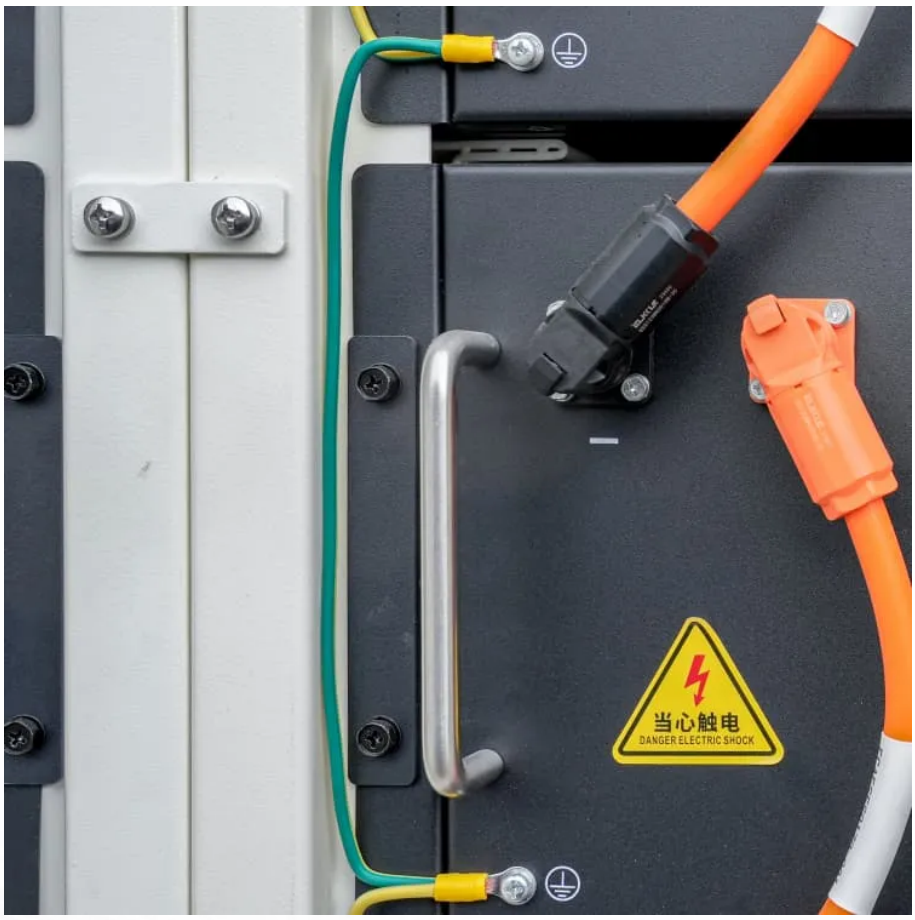
EIEI POWER

The prospects of solar energy storage in Finland



Overview

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 storage industry is racing to solve its most pressing challenge: intermittent renewable integration.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 energy storage the future of wind power generation in Finland?

Wind power generation is estimated to grow substantially in the future in Finland. Energy storage may provide the flexibility needed in the energy transition. Reserve markets are currently driving the demand for energy storage systems. Legislative changes have improved prospects for some energy storages.

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.

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.

The prospects of solar energy storage in Finland

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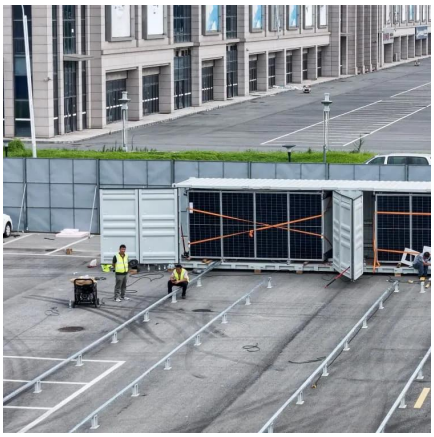

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A review of the current status of energy storage in Finland

A review of the current status of energy storage in Finland and future development prospects Lieskoski, Sami; Koskinen, Ossi; Tuuf, Jessica; Björklund-Sänkiaho, Margareta (2024)

Finland Solar Energy and Battery Storage Market (2025 ...

6Wresearch actively monitors the Finland Solar Energy and Battery Storage Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue ...

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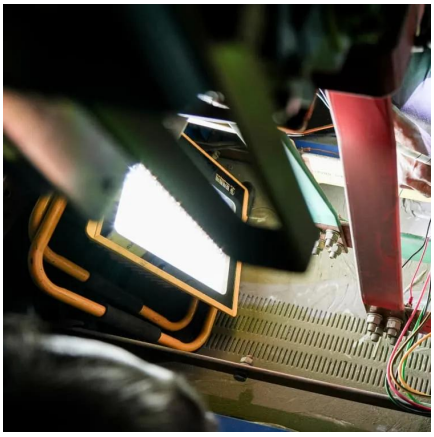

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TL;DR: In this paper, a review of electrical energy storage technologies for stationary applications is presented, with particular attention paid to pumped hydroelectric storage, compressed air ...

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