



IMK CONTAINERS

# **Comparison of a 15kW mobile energy storage container in Finland with diesel generators**





## Overview

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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.

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 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.



## Comparison of a 15kW mobile energy storage container in Finland



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This article introduces the structural design and system composition of energy storage containers, focusing on its application advantages in the energy field. As a flexible and mobile energy storage ...

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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 ...

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This report provides an initial insight into various energy storage technologies, continuing with an in-depth techno-economic analysis of the most suitable technologies for ...

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