

# **80kWh Nordic photovoltaic energy storage container used in tourist attractions**





## Overview

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Can energy storage systems be used in residential buildings in Nordic climates?

**Methodology** To evaluate the financial feasibility of implementing energy storage systems in residential buildings in Nordic climates, the use of energy storage technologies in combination with a solar PV system was modelled for detached houses employing different heating methods in Southern Finland.

Can solar PV systems be used in Nordic climates?

Thus, to simulate the use of solar PV systems in Nordic climates, the model included scenarios with both a fixed solar PV capacity of 5 kW, representative of a typical residential solar panel in Finland, as well as with a fixed RF of 49 % for the house, with the solar PV capacity determined accordingly.

Can energy storage systems be integrated with solar PV in detached houses?

In order to evaluate the financial feasibility of integrating energy storage systems with solar PV system in detached houses, economic indicators able to compare the costs of the different storage scenarios with one another are needed.

What is the optimal capacity of solar energy storage systems?

Hence, the optimal capacity of all the energy storage systems is zero, whereas the feasible solar PV size is limited to below 20 % when using the 2019 electricity prices as comparison.



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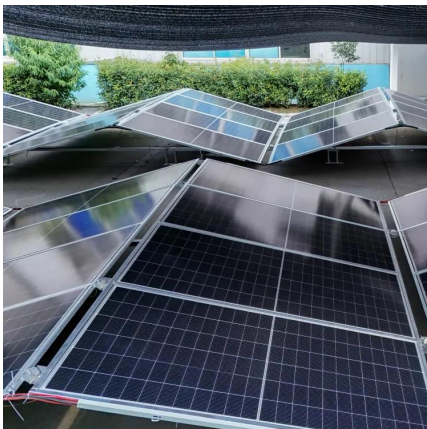
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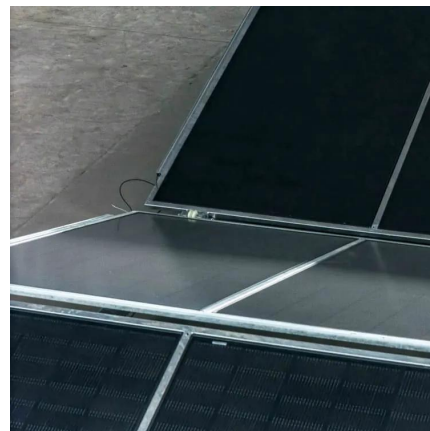
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### [Feasibility study of energy storage options for photovoltaic](#)

Oct 1, 2022 · Subsequently, this paper models the use of lithium-ion battery storage (LIB), hydrogen storage, and thermal energy storage (TES) in detached houses in southern Finland, ...



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