# Cheapest energy storage Ã…land

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In the case of Åland, where the PHS capacity is set by the old mine shaft, the capacity expansion potential of the storage technology is more limited for storing the VRE production, as compared with an HTTES, or some other electricity storage solution, such as a battery energy storage system.

battery energy storage systems for any operational harbour grid to compensate the fluctuating power supply from renewable energy sources as well as meet the predicted maximum load demand without expanding the power capacities of transmission lines.

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Åland - unique possibilities for becoming world leading smart energy platform o Electricity markets - Situated between two price areas, opens for cross border trading and additional flexibility - Smart market demonstrations options: active customers, new tariff constructions, capacity mechanisms, real-time markets o Energy production

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A scenario featuring a highly electrified transport sector, including a wide range of terrestrial and aquatic forms of mobility, was among the most cost competitive solutions due to high levels of flexibility and electric storage harnessed in the energy system.

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Can a 100% sustainable energy system be achieved by 2030 for Åland? What is the least cost scenario that can result in a fully functional, reliable, 100% sustainable energy system for Åland in 2030? What are the roles of Power-to-Gas, Vehicle-to-Grid and other energy storage solutions in future energy system for Åland?

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