

## Åland battery storage box

In this scenario cost reductions were achieved as high capacities of electric vehicle battery storage resulted in less need for seasonal storage and synthetic fuel production in the form of Power-to-Gas technologies and offshore wind power capacity.

Several scenarios were constructed for the future energy system based on various combinations of domestic production of wind and solar photovoltaic power, expanded domestic energy storage solutions, electrified transport, and strategic energy carrier trade.

The developed algorithm has been applied by considering real data of a harbour grid in the Åland Islands, and the simulation results validate that the sizes and locations of battery energy storage systems are accurate enough for the harbour grid in the Åland Islands to meet the predicted maximum load demand of multiple new electric ferry ...

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Capture Energy has successfully completed our first installation in Finland, specifically on the island of Åland, located between Sweden and Finland. The newly deployed Battery Energy Storage System (BESS) is situated next to a wind power ...

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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.

o Large battery storage (>1 MWh) in conjunction with wind/PV  
o Utilising the data  
o temporary EV battery usage for the grid  
o Benefit of battery storage and PV electricity  
o Balancing / Frequency regulation  
o Energy market information management hub  
o ...

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