Ã…land eos energia

The Åland community intends to develop an environ- mentally sustainable, self-sufficient smart grid increasing the renewable power installed up to 100% in order to strengthen the local ...

The purpose of the current study, therefore, is to perform and initial investigation of future energy system scenarios for Åland in order to facilitate planning and decision making by the Åland Smart Energy Platform and guide future research into possible energy market design.

Åland Smart Energy Platform - Target Platform for demonstrations enabling 100 % renewable energy system o How to solve the challenge: Fundamental change in power system operation - From variable loads to variable generation - Increase flexibility by novel technology, management and design principles by cost efficient solutions

In the context of the Finnish Åland islands, Child et al. (2017) suggest different configurations of energy systems. They conclude that in particular extensive use of BEV and V2G is most economic...

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A fully sustainable energy system for the Åland islands is possible by 2030 based on the assumptions in this study. 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 ...

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A fully sustainable energy system for the Åland Islands is possible by 2030. 100% RE-based domestic production can be achieved with or without reliance on imported energy. A highly electrified transport sector results in lower annualised energy system costs.

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The energy company Flexens has identified the opportunity to develop and build a society scale energy system based on renewable energy sources on Åland together with the island government- an island with ideal wind and solar conditions and an ambitious climate- and energy strategy with a population dedicated to sustainability.

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