

System energie solaire Ã...land

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The ambition is to develop large scale hydrogen production on Åland integrated with gigawatt scale offshore wind in Åland waters for use both on Åland and in the wider European region, thereby supporting Åland"s and EU ...

Semantic Scholar extracted view of "Scenarios for a sustainable energy system in the Åland Islands in 2030" by Michael Child et al.

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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 ...

A1 Journal article (refereed), original research. Scenarios for a sustainable energy system in the Åland Islands in 2030

The power system is characterized by a strong focus on renewable energy. Annual consumption is around 300 GWh per year. Installed wind power is 62 MW, covering 60% of annual consumption with 180 GWh/year, while solar, mostly rooftop, contributes 15 MW, generating 12 GWh/year (4%).

This paper examines two such energy system models, the LUT Energy System Transition model, an optimisation model, and the EnergyPLAN simulation tool, a simulation ...

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This study concludes that a fully sustainable energy system for Åland can be achieved by 2030. Expanded roles of solar PV and wind power generation capacities through domestic investment can effectively replace reliance on imported energy carriers, promote sustainable growth, and eliminate the need for fossil fuels in the energy system.

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