

# **Solar finance system Åland**





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### Scenarios for a sustainable energy system in the Åland Islands in ...

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 ...

### Smart Energy Åland

Project development company, Flexens, has identified the opportunity to develop and build a full society scale energy system based on renewables on Åland - an island with ideal wind and solar conditions, an ambitious climate and energy strategy as well as a ...



### Åland Islands' Energy Story

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.



### Elisa brings smart solar energy management to the Åland Islands

Elisa's Distributed Energy Storage (DES) solution will allow Åland Islands' operator Ålcom to use and store solar energy, reducing its reliance on



the national grid



## Åland Islands' Energy Story

With that idea in mind, the energy company Flexens saw an opportunity to develop and build a society scale energy system based on renewable energy sources on Åland together with the island government - an archipelago ...

## Scenarios for a sustainable energy system in the Åland Islands in ...

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.



## New partnership to develop large-scale integrated ...

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 ...



## SCENARIOS FOR A

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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## Åland Smart Energy Platform

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



### New partnership to develop large-scale integrated renewable ...

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### Åland Smart Energy Platform

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 ...

### Åland Islands' Energy Story

With that idea in mind, the energy company Flexens saw an opportunity to develop and build a society scale energy system based on renewable energy sources on Åland together with the island government - an archipelago situated in the Baltic Sea with ideal wind and solar conditions.



### Scenarios for a sustainable energy system in the Åland Islands ...

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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