

Ilmatar has now become the fourth energy company to tender an expression of interest in building a large-scale solar park on Åland. Ilmatar Solar aims to produce green solar energy while contributing to improving water quality and biodiversity in the area.

Norway has installed the world's northernmost ground solar panels in its Svalbard archipelago, a region plunged in round-the-clock darkness all winter. The pilot project could help remote...

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 ...

OX2, a leading renewable energy company in Europe, chose Ecogain as an expert partner for permit applications in connection with the construction of two solar parks in Åland. Driven by its ambitious sustainability goals, OX2 aims to make Åland the ...

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.

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In combination with innovation, Åland's aspiration is to become a pioneer in green energy in the Nordic countries. Wind power already accounts for 90% of Åland's electricity production. The move toward even greater production of renewable energy through large-scale solar power farms and offshore wind farms is already well underway.

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The percentage of locally produced fossil-free electricity was 55.5% in 2023, including solar, wind, and bioenergy, following an addition of ten new wind turbines in 2022 that increased the wind power production to 180 GWh/year.

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 ...

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 ...

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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? To what extent can intermittent renewable energy production (solar PV and wind) play a ...

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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