

The Regional Development Strategy of Ostrobothnia 2050 and Regional Development Programme 2022–2025



Development Objectives 2050 A Good Environment

Desirable state 2050:

Ostrobothnia is a leading region in sustainable development, where climate change mitigation and fostering a clean environment are seen as both everyone's duty and a great opportunity. Ostrobothnia as a society is carbon negative. The region has a sustainable polycentric regional and urban structure and a clean and diverse environment.

> Carbon Negative Society Ostrobotnia as a society is carbon negative and energy is produced without harmful emissions

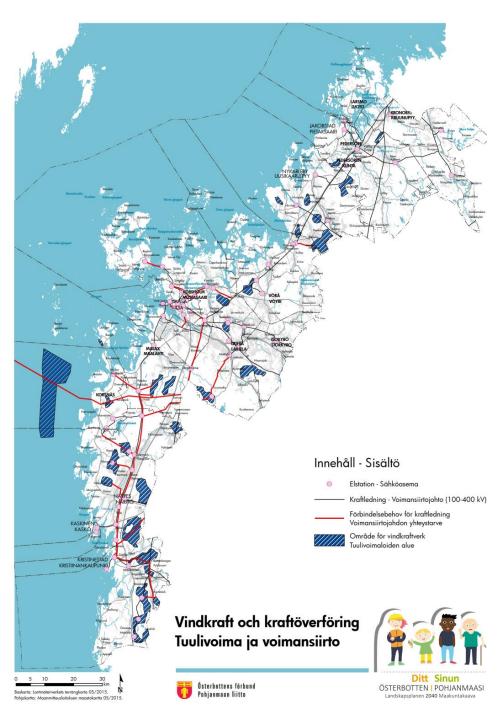
Sustainable Regional and Urban Structure

Ostrobothnia is a climate smart region

Recycling Materials

The Cirular Economy is the basis of activities

Vibrant Nature Healthy environment and habitats



The Regional Land Use Plan

- The Regional Land Use Plan 2040 promotes renewable energy extensively
 - Some 500 MW wind power capacity installed (14 % of all capacity in the country) is in the regional plan
 - More is being built at a steady pace and the current plan enables almost 5000 MW of wind power capacity
- The plan is undergoing revision due to high pressure to promote even more renewable energy
 - Regional Land Use Plan 2050 to be decided in autumn 2024 and 35 new regionally important areas are currently being surveyed
 - The next phase includes more off shore wind power
- Hydrogen is a piece of the puzzle bringing the whole economy into net zero
 - We are prepared to acknowledge the need for a gas line connection in the Regional Land Use Plan 2050 if there are activities in this regard from national players

The role of the Regional Council in the next phases of development

- To promote innovation policy and smart specialisation, in particular with focus on energy technology and energy systems
 - What is the role of hydrogen?
 - Are there long transition phases before we get economically viable solutions?
 - Are there other substances and energy carriers?
 - If so, how to exploit business opportunities along the way?
- To promote Regional Land Use Planning
 - Where do we have space for renewables in the coming years?
 - If there is need for a gas connection, where?

Fun fact: <u>Among demonstration project</u> <u>applications in September</u> projects worth 85 million^{`n Läm} (15%) out of 531 million € come from Ostrobothnia

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v satsar på syntetisk metan: "Vårt mål är att bli kolneg.	
	Hitachi Zosen
v a febroregaerone	een nimi - Helsinki Hydrogen Hub BioAurora - uuden energiateknologian demonstraatiohanke BioCoke
	GigaVaasan keskitetty jäähdytysjärjestelmä ja lämmön talteenotto
	Joutsen
	Kuortane Honkisaarennevan aurinkosähköpuisto
ıpö Oy،	Kurikan biokaasuekosysteemi
	Lempäälän vihreän vedyn tuotannon ja vetytankkausaseman pilottihanke
4 Oy	Mäntyluoto 20 MWp Solar Farm
ns Oy	P2X Green Muse
n Sähkö Oy	Pertunmaan Kuortin aurinkosähköpuisto
omation Oy	Solareast
Renewables Finlanland Oy	Tampionkeitaan aurinkovoimala, Kankaanpää
sosuuskunta Oulun Seudun Sähkö	Utajärven Loukkaanaron aurinkopuisto
silä Finland Oy	Vedyn ja ammoniakin X2P polttoaine infra
n Oy	Ympärivuotiseen kaukolämmöntuotantoon soveltuva ilma-vesilämpöpumppulaitos
en Oy	6854
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bo Culture Oy	ALPHA-Energia
un Energia Oy	Hajautettu kaukolämmön tuotanto lämpöpumpuilla yhdistettynä monienergiavirtuaal
rta Energy Oy	Itä-Suomen aurinkopuisto
itaan Energia Oy	Lajittelu- ja biokaasulaitos
ipin Voima Oy	Lampin Voima
ta Energy Oy	Nilsiä Solar Park
lic Ren-Gas Oy	Suomen vetykärki, Lahden P2G-tuotantolaitos
ic Ren-Gas Oy	Suomen vetykärki, Mikkelin P2G-tuotantolaitos
Ren-Gas Oy	Suomen vetykärki, Tampereen P2G-tuotantolaitos
Energy Ab Oy	Vanadis Fuels
85 million ^{`n Lämpövoima Oy}	Lämpökuoppavarasto Hyvinkäälle
O TITITION inergia Oy	Polttoon perustumattoman matalalämpöisen kaukolämmön hyödyntäminen Porvooss
cohothnia ^{via Oy}	Kristiinankaupunki P2X