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LIFE17 IPC/FI/000002 LIFE-IP CANEMURE-FINLAND

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Experiences of preparation and implementation of the regional climate and energy action plan

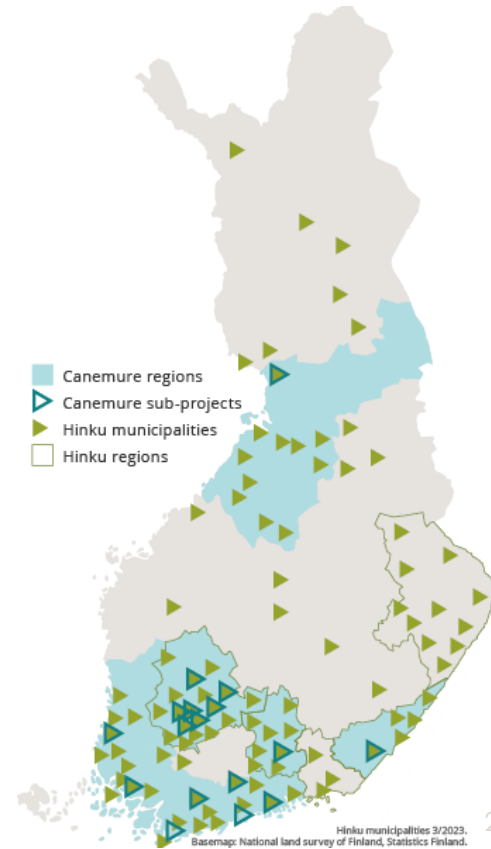
Good practices in the climate work of municipalities and regions –seminar

Ritva Imppola, Oulu University of Applied Sciences, 25.5.2023

Oamk

Northern Ostrobothnia

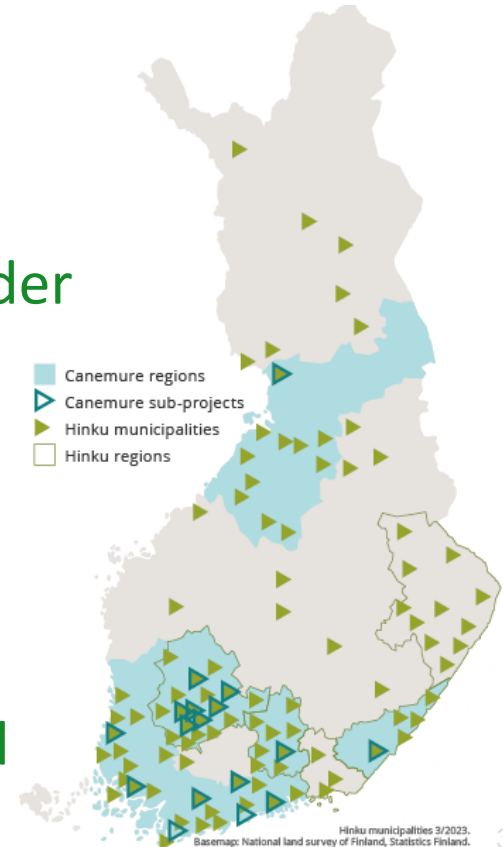
- Inhabitants: 416 803 (3/2023)
 - 7,49 % of Finnish people
- 30 municipalities
- 11 Hinku network municipalities (Towards carbon neutral municipalities)



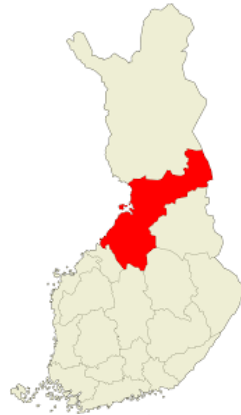
Hinku municipalities 3/2023.
Basemap: National land survey of Finland, Statistics Finland.

- Towards Carbon Neutral Municipalities and Regions
- 2018 -2024
- 21 partners
- Concrete climate actions in sub-projects
- Expert Platform
 - The Finnish Environment Institute, Tampere University, The Natural Resources Institute Finland and the Finnish Meteorological Institute

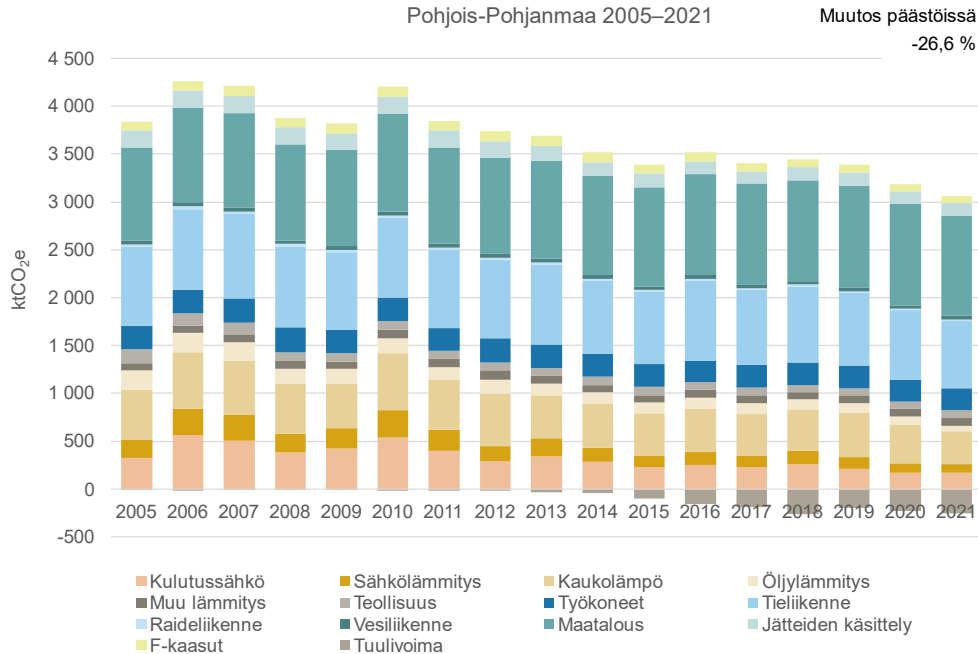
- Regional stakeholder cooperation
- Tools and service
- Information
- Good Practices
- Calculation
- Climate work in all levels



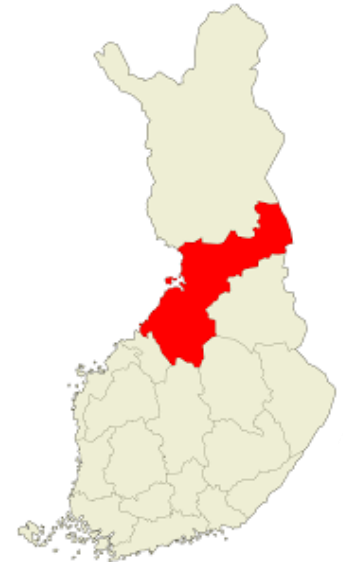
- Northern Ostrobothnia Climate Roadmap implementation
- Regional cooperating group maintenance and promotion
- Contacts to municipalities
- Annual regional seminars
- Other events
 - Webinars
 - Climate Café events; next 14.6.2023
 - Stands in Fairs
- New projects affecting climate change mitigation



Northern Ostrobothnia GHG Emissions 2005 – 2023 (Hinku calculated)



- F-gases
- Waste treatment
- Agriculture
- Water transport
- Rail transport
- Road transport
- Machinery
- Industry
- Other heating
- Oil heating
- District heating
- Electric heating
- Electricity
- Wind power



HINKU calculation method

- Default calculation model for tracking municipal emissions and climate goals.
- Does not include the fuel use of the industrial plants under Emission Trading System, the electricity consumption of the industry sector, the emissions from the treatment of industrial waste and the pass-through traffic of trucks, vans and buses.
- Wind power produced in the area yields the municipality an emission compensation calculated by the annual electricity emission factor.

CO2e emissions 2021 in Northern Ostrobothnia preliminary data

- 2807 kt CO2e
- 9,2 % of Finnish emissions
- Decreased -33 % (2007 – 2020)
- 6,8 tCO2e per capita
- Decreased -37 % (2007 – 2020)

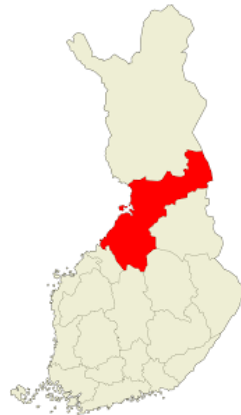


- Work began 2019
- Coordinated by

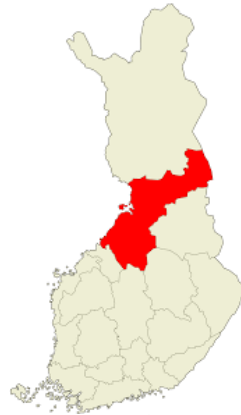
Northern Ostrobothnia Climate Roadmap - POPIlmasto –project

Canemure –project

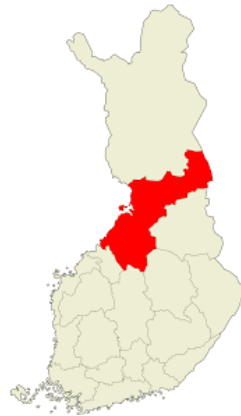
- Aim was to co-operate in implementing a climate roadmap for region and to commit decision-makers of the region to climate goals.
- It was based on the latest information
- Prepared in extensive collaboration between different actors and organizations in the region.



- Data from municipalities
- The calculation of greenhouse gas emissions from Finnish Environment Institute
- Three open workshops plus one expert workshop for agriculture
- Three impact studies for the different climate measures were obtained for the sectors most important in terms of climate emissions
 - Low-emission transport
 - Agriculture
 - Development of peat energy use
- Discussions with people in events face-to-face and later online, due to Covid19.
- Roadmap work was ready in the end of 2020.



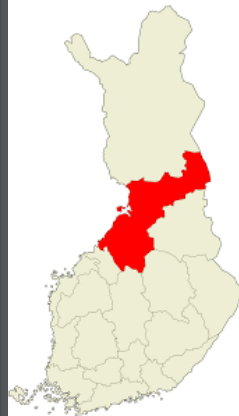
- Climate Roadmap was approved in February 2021 by the Board of the Regional Council
- Roadmap highlights 7 the most important themes affecting climate change and lifts adaptation as a cross-cutting theme
- Extends to 2030
- In addition to the climate goals, we must take care of the livelihoods of the region and encourage new business opportunities in the region to solve problems in climate change mitigation
- Roadmap will be updated in 2024



Key themes of Northern Ostrobothnia's climate action

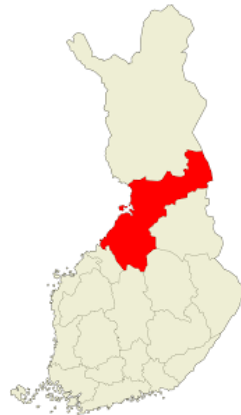
- Everything matters -

1. Smart bioeconomy and circular economy underpin climate action
 2. Sustainable, efficient and low-emission energy production and use
 3. Transport is low-emission
 4. Agriculture develops as a carbon sink
 5. Land use is climate-smart and conducive to circular economy
 6. Forests and bogs act as efficient carbon sinks; Sustainable use of peat
 7. Cooperation and cross-sectoral operating models create vitality and business opportunities
- Climate change adaptation as part of key themes

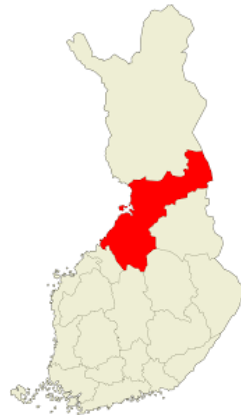


- Roadmap will be updated in 2024
- Work is in progress
- Now we have hold five workshops with municipalities
 - Information of climate law and climate plan
 - Discussion about actions in municipalities
 - Served help for use of GHG Emission scenario tool created by The Finnish Environment Institute
- Thesis work, made for Canemure, by Pilvi Kuure about the tool is just coming published:

Development of Greenhouse Gas Emissions in Municipalities in North Ostrobothnia, 2023



- Wind power: 52 wind parks, 536 wind mills, 41 % of wind power capacity in Finland, plans for 63 wind parks
- Solar power mounting in most of municipalities
- LED light mounting
- Recycling is more effective
- Energy efficiency actions
- Town, country, infra and nature planning
- Information; projects, regional energy advising, municipalities etc.
- Education in all ages
- Culture as a power for climate work



Because

Everything and everyone matters



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CANEMURE

Thank you!

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