



Satakunta policy context

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Sustainability crisis

SUSTAINABLE DEVELOPMENT GOALS



Regulatory framework in Satakunta region is based on the national legislation

Finland is committed to implement the whole 2030 Agenda for Sustainable Development and its SDGs by 2030.

Via integrated policy actions

- Climate change
- Loss of biodiversity
- Overconsumption

Carbon-neutral Finland by 2035

Emissions-free electricity and heat production by the end of 2030s

Reduction of the carbon footprint of building

Promotion of circular economy

Promotion of a climate-friendly food policy

Taxes:

taxes on environmentally harmful activities, reform of energy taxation

Climate policy plans must be prepared in an open process, including citizen and stakeholder consultations.

<https://paastot.hiilineutraalisuomi.fi/#en>

AREA

SATAKUNTA

Area choice

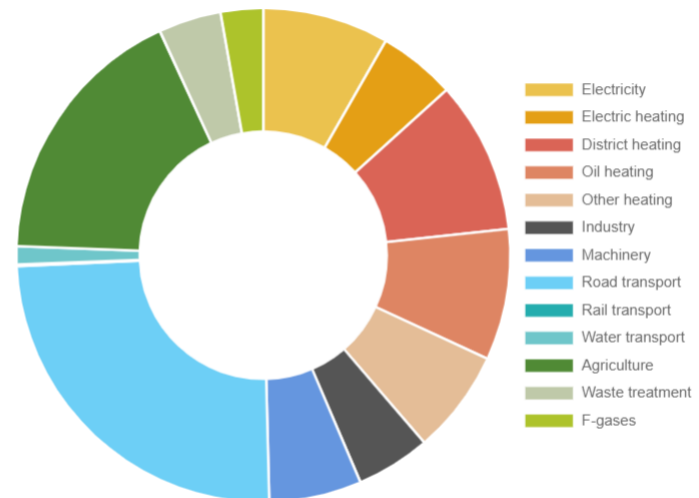
CALCULATION METHOD

HINKU CALCULATION

Method choice

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.

EMISSIONS DISTRIBUTION 2018 — SATAKUNTA



EMISSIONS PER PERSON — SATAKUNTA



CHANGE OF EMISSIONS — SATAKUNTA

ALL EMISSIONS

2005 - 2018

-25%

CHANGE OF EMISSIONS — SATAKUNTA

Government Resolution “More from less – Wisely

ENVIMAT

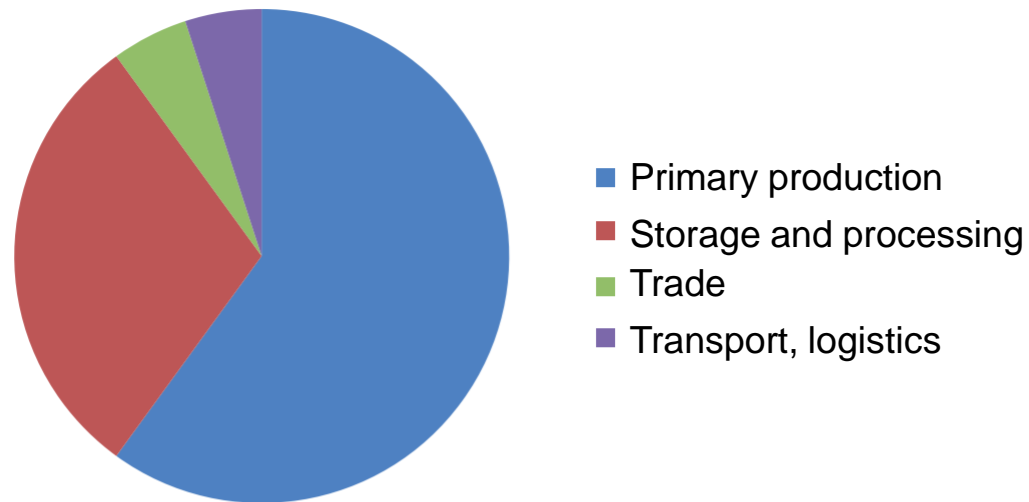
An environmentally extended input–output (EE-IO) analysis – environmental impacts of material flows caused by the Finnish economy

To improve data on production and consumption in Finland

Help of life-cycle inventory data

Finnish economy uses imported material resources as much as domestic resources

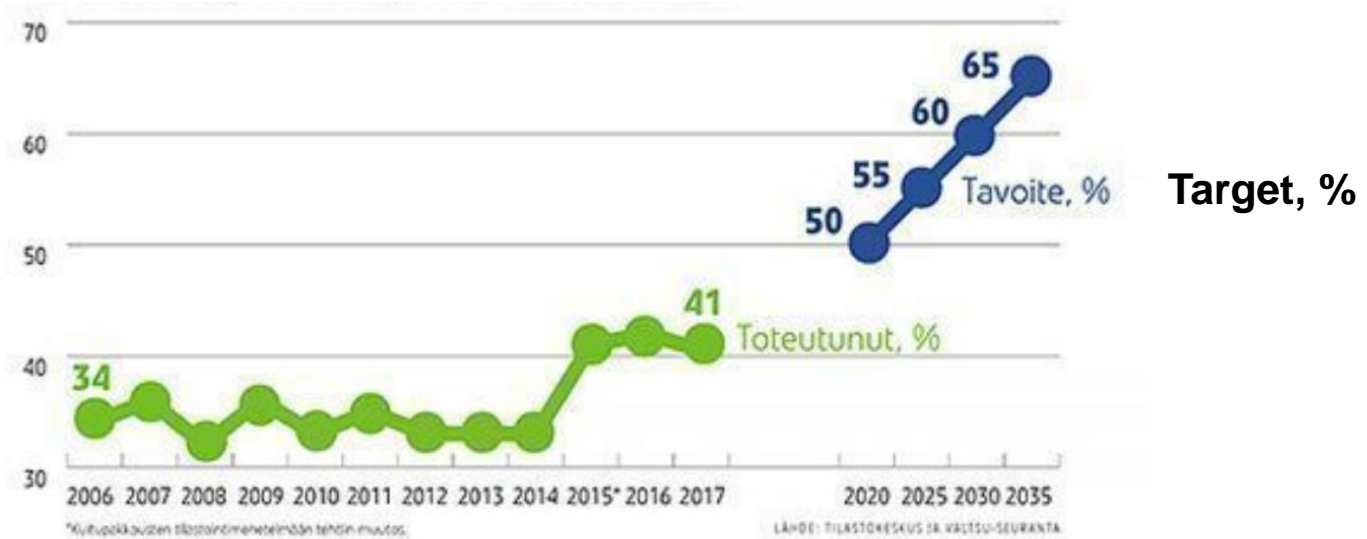
GHG emissions of food production



Virtanen ym. 2009. Elintarvikeketjun ympäristövastuun laaturaportti

Waste

Rate of municipal waste circulation in Finland



To improve:
Biowaste and plastics away from the municipal waste

Plastics roadmap 2018



Waste act reform

Finland behind other Europe

Target include

End-of-waste criteria reform

Biowaste follow-up update

Producer responsibility system update to support ecodesign

Bioeconomy Strategy in Finland

Strategic goals

1. COMPETITIVE OPERATING ENVIRONMENT FOR BIOECONOMY

A competitive operating environment will be created for bioeconomy growth

2. NEW BUSINESS FROM BIOECONOMY

New business will be generated in bioeconomy by means of risk financing, bold experiments and crossing of sectoral boundaries

3. A STRONG BIOECONOMY COMPETENCE BASE

The bioeconomy competence base will be upgraded by developing education, training and research

4. ACCESSIBILITY AND SUSTAINABILITY OF BIOMASSES

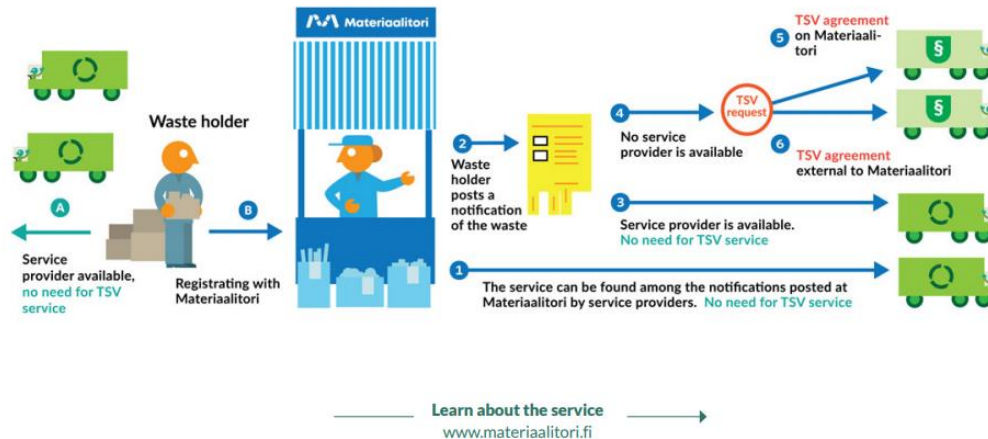
Availability of biomasses, well-functioning raw material markets and sustainability of the use of biomass will be secured

Implementation and monitoring

Sustainable bioeconomy solutions are the foundation of well-being and competitiveness in Finland

Accessibility and sustainability of biomasses

Are you looking for a waste management service?
Here's how to do it in Materiaalitori:



Biomass Atlas

Support for decision-making
regarding investments and
policies

The Biomass atlas gathers geographic information on biomasses into one user interface.

The online service is open for all and can be used e.g. for planning investments and raw material procurement, as well as support for environmental and energy policies.

The service can be used for searching for information on

- land use,
- forest resources,
- side streams of fellings,
- production and side streams of field crops,
- manures,
- industrial and municipal biodegradable waste and sludge, as well as ashes from combustion plants everywhere in Finland.

Natural Resources Institute Finland (Luke) offers its expertise for sustainable and productive utilization of biomasses based on the data in the Biomass Atlas.

A USE CASE: Treatment of biodegradable municipal wastes

The aim is to utilize the sewage sludge and biological waste in energy production and their nutrients in plant production.



Interested? Please contact our specialist:
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Contact information for specific biomass materials: www.biomassatlas.fi

luke.fi

Carbon issue and bioeconomy

- Critical views about consumption and material growth are largely absent
- All currently used fossil and other non-renewable resources cannot be replaced with biomass
- Circularity, waste prevention and energy efficiency should be emphasised, and discussion on sustainable lifestyles should be more prominent



LCA4Regions

Interreg Europe



European Union
European Regional
Development Fund

Thank you!

Questions welcome

www.interregeurope.eu/LCA4Regions