



CEE2ACT

Development of the Finnish bioeconomy strategy

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- **Definition of bioeconomy in Finland**

In Finland, bioeconomy refers to an economy that relies on renewable, biological natural resources in a resource-wise manner to produce food, energy, products and services.

The most important renewable, biological resources in Finland are the biomass, i.e. the organic matter, in the forests, soil, fields, water systems and the sea, and fresh water. These are used as raw materials and derivatives.

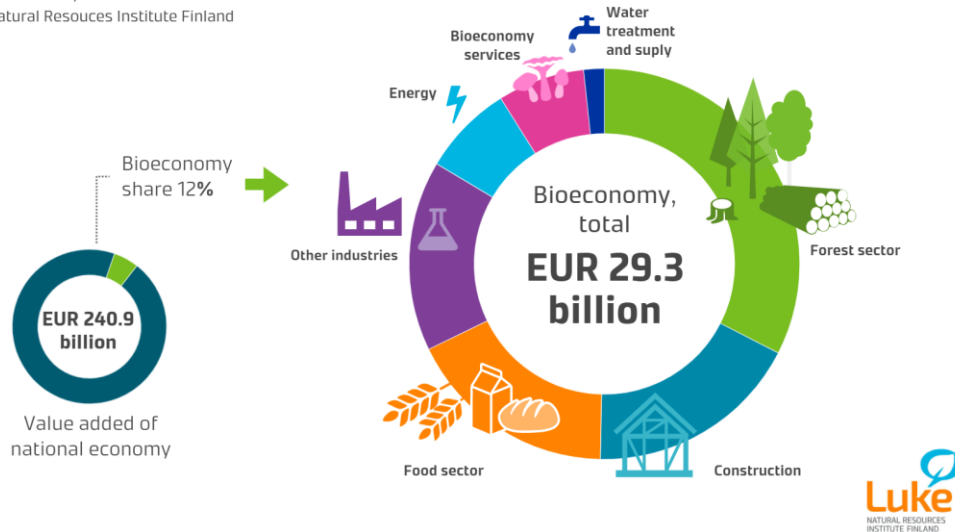
Ecosystem services are part of the bioeconomy.

The bioeconomy can also include the development and production of technologies, applications and services based on the sustainable exploitation of natural resources.

https://www.biotalous.fi/wp-content/uploads/2022/05/The-Finnish-Bioeconomy-Strategy-Sustainably-towards-higher-value-added-VN_2022_5.pdf

Value added of bioeconomy 2023*

* Preliminary data. Sources: Statistics Finland and Natural Resources Institute Finland



In 2023,

- Bioeconomy accounted for 12 percent (EUR 29.3 billion) of the value added of national economy
- Forest sector accounted for a third (EUR 9.5 billion) of the value added of bioeconomy
- Value added of the food sector was EUR 5.1 billion
- Bioeconomy employed 308,000 people or 11 percent of the total labour force
- Food sector employed 104,500 people and forest sector 61,000 people

<https://www.bioeconomy.fi/the-bioeconomy-employs-one-in-every-ten-in-finland/>

Timeline of the bioeconomy strategies CEE2ACT

- **Bioeconomy vision was developed in 2011 by The Finnish Innovation Fund Sitra**
 - "In 2020, we shall see growing demand for local sustainable solutions which promote energy and nutrient self-sufficiency. This demand can be met with open-minded cooperation and new scalable business models."
- **First bioeconomy strategy was published in 2014**
 - One of the strategic goals for the Finnish government
- **Finland updated its bioeconomy strategy in 2022**



Need for the update



- **Since 2014, some changes had happened in the operating environment**
- **Updated EU bioeconomy strategy was published in 2018**
- **The Council conclusions on bioeconomy were prepared in 2019**
 - Member States were urged to accelerate the bioeconomy by drafting or updating their national bioeconomy strategies
- **New Government Program**
 - Entries on a fair transition towards a carbon-neutral society and inclusiveness of citizens



- In summer 2020, the Ministry of Economic Affairs and Employment set up a project to update Bioeconomy Strategy and appointed
 - Steering group:
 - Steered the progress of the bioeconomy strategy update decided on necessary studies and other measures, presented proposals on the objectives and limitation on the strategy, and outlined the key guidelines for the preparation of strategy work in accordance with the guidelines of the Ministerial Working Group on Climate and Energy Policy
 - Included representatives from Ministry of Economic Affairs and Employment, Ministry of Agriculture and Forestry, Ministry of the Environment, Ministry of Education and Culture, Ministry of Social Affairs and Health, Ministry of Finance, Ministry of Transport and Communications, Prime Minister's Office

- Coordination Secretariat:
 - Responsible for the practical progress, timetable of the strategy update and writing the actual updated strategy
 - Included representatives from Ministry of Economic Affairs and Employment, Ministry of Agriculture and Forestry, Ministry of the Environment, Ministry of Education and Culture, Ministry of Social Affairs and Health, Ministry of Transport and Communications,

- National Bioeconomy Panel:
 - Participated in the preparatory work and in drawing up policies as an advisory body
 - Included representatives of different sectors, administration, research, non-governmental organisations and other stakeholders => Allowed for comprehensive dialogue with stakeholders and made it possible to get the entire field to commit to the objectives and implementation of the strategy

- Large number of national and regional actors were involved
- Citizens could participate via hearing rounds
- Studies and scenarios from scientific community helped to map out the Finnish bioeconomy's operating environment, its threats and opportunities now and in the future
- Cooperation especially with Sweden, where the first bioeconomy strategy was being developed

Vision and objectives of the Bioeconomy strategy by 2035



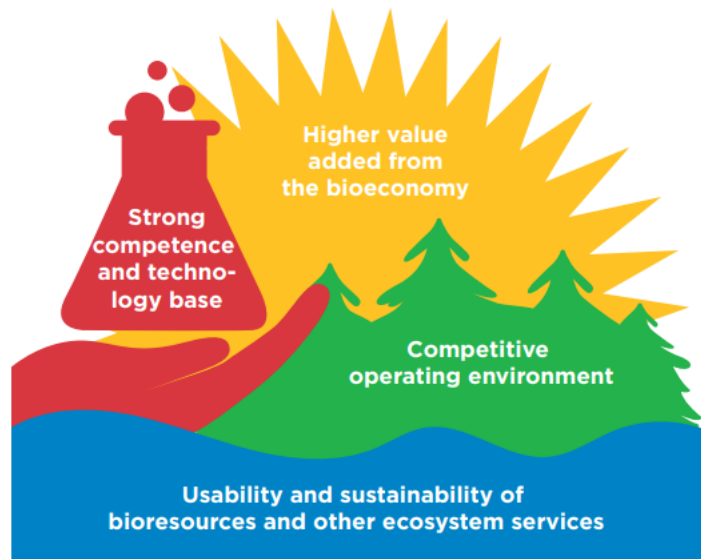
CEE2ACT

- **Vision**
 - Sustainably towards higher value added
- **Objectives**
 - Double the value added of bioeconomy
 - Create competitive and innovative bioeconomy solutions to global problems
 - Generate business that promotes renewal both to the domestic and international markets, which will bring well-being to Finland as a whole
 - Increase the resource-wise use and recycling of materials and utilize side streams
 - Reduce dependency on fossil fuels and other non-renewable raw materials
 - Ensure ecological sustainability, social justice as well as the capacity of renewable natural resources to renew and to broadly strengthen bioeconomy competence
 - Strengthen and renew technological foundations

<https://www.biotalous.fi/wp-content/uploads/2022/05/Fact-Sheet-Finlands-Bioeconomy-Strategy-2022%E2%80%932035.pdf>



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- An example: Measures for Higher value added from the bioeconomy
 - RDI programme
 - Pilot and demonstration plants
 - Climate change and biodiversity actions
 - Regional bioeconomy action plans

https://www.biotalous.fi/wp-content/uploads/2022/08/Biotalousstrategia_esitys_EN.pdf

- **Management of strategy implementation**
 - Several ministries will implement the strategy in cooperation
 - The organisations in the administrative branches of the ministries will take part in the adaptation of the strategy

- **Monitoring of the strategy**
 - Through a set of statistics produced in cooperation between the Natural Resources Institute Finland and Statistics Finland
 - Key indicators are bioeconomy's value added, investments, exports of goods and number of employed people
 - Natural Resources Institute Finland and Statistics Finland specify the existing indicators for each industry and sector as on strategic measures
 - Ecological, economic and social sustainability is monitored with other existing indicators
 - The ministry of Economic Affairs and Employment is responsible for implementing the monitoring

More information



<https://www.bioeconomy.fi/>



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Luke's role in CEE2ACT: Tasks 6.3 and 6.4



- **1-to-1 discussions with target countries**
 - Situations of roadmaps
 - Needs of support
- **Preparation of template for the bioeconomy roadmap**
- **Training sessions for the organisation of the 3rd workshops**
- **SWOT analysis for the implementation of strategies**
 - Helps to identify the key enablers and possible pitfalls of roadmap implementation
 - Presents ways of overcoming barriers and supporting strengths in each CEE2ACT target country



Timeline Tasks 6.3 and 6.4

M27 M28 M29 M30 M31 M32 M33 M34 M35 M36 M37 M38 M39 M40

<u>Nov</u> 24	<u>Dec</u> 24	Jan 25	<u>Feb</u> 25	Mar 25	<u>Apr</u> 25	<u>May</u> 25	<u>June</u> 25	<u>July</u> 25	<u>Aug</u> 25	<u>Sep</u> 25	<u>Oct</u> 25	<u>Nov</u> 25	<u>Dec</u> 25
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Background & Methodology

TRAINING

WORKSHOPS

FINAL ROADMAPS

D6.3

DRAFTING THE ROADMAPS & REVIEW

SWOT ANALYSIS

D6.4

R. event



Thank you!

Any questions?

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