



Biomass Atlas makes Finnish biomass maps freely available to everyone

Biomass Atlas is an open service that collects location-specific data about biomass potentials under a single user interface (<https://projects.luke.fi/biomassa-atlas/en>). The service enables users to calculate the amount of biomass in a given geographical area, as well as examining the opportunities to utilise the biomass and restrictions on its use. The area can be freely outlined on the map or selected based on administrative boundaries. It is also possible to set a point of interest and define the area around it – either by giving the radius of a circle or the road transport distance.

The map user interface allows user to search, analyse and report on biomass from forestry, agriculture, and biodegradable waste from communities and industry. There are approximately 300 map layers of different biomass types or land use categories in the map user interface. It is not necessary to register and log in, but if you do so, you will enable some extra features like saving your biomass search and analysis.

The goals of making the biomass data available include supporting investment decisions and sustainable use of natural resources, as well as helping decision-makers to create sustainable energy policies. Biomass Atlas is available in Finnish, Swedish and English.

A service extending to Sweden and the Baltic countries was developed based on the good experiences of Biomass Atlas (<https://forest-energy-atlas.luke.fi>, see figure on next page). Forest Energy Atlas has similar functionalities but is constrained on forest biomasses. This service is available in English, Finnish, Swedish, Estonian, Latvian and Lithuanian.

ABOUT BRANCHES

BRANCHES is a H2020 “Coordinaton Support Action” project, that brings together 12 partners from 5 different countries. The overall objective of **BRANCHES** is to foster knowledge transfer and innovation in rural areas (agriculture and forestry), enhancing the viability and competitiveness of biomass supply chains and promoting innovative technologies, rural bioeconomy solutions and sustainable agricultural and forest management.

KEY WORDS

Bioenergy, biomass, harvesting potential, decision support, circular bioeconomy

COUNTRY/REGION

Finland, Sweden, Estonia, Latvia, Lithuania

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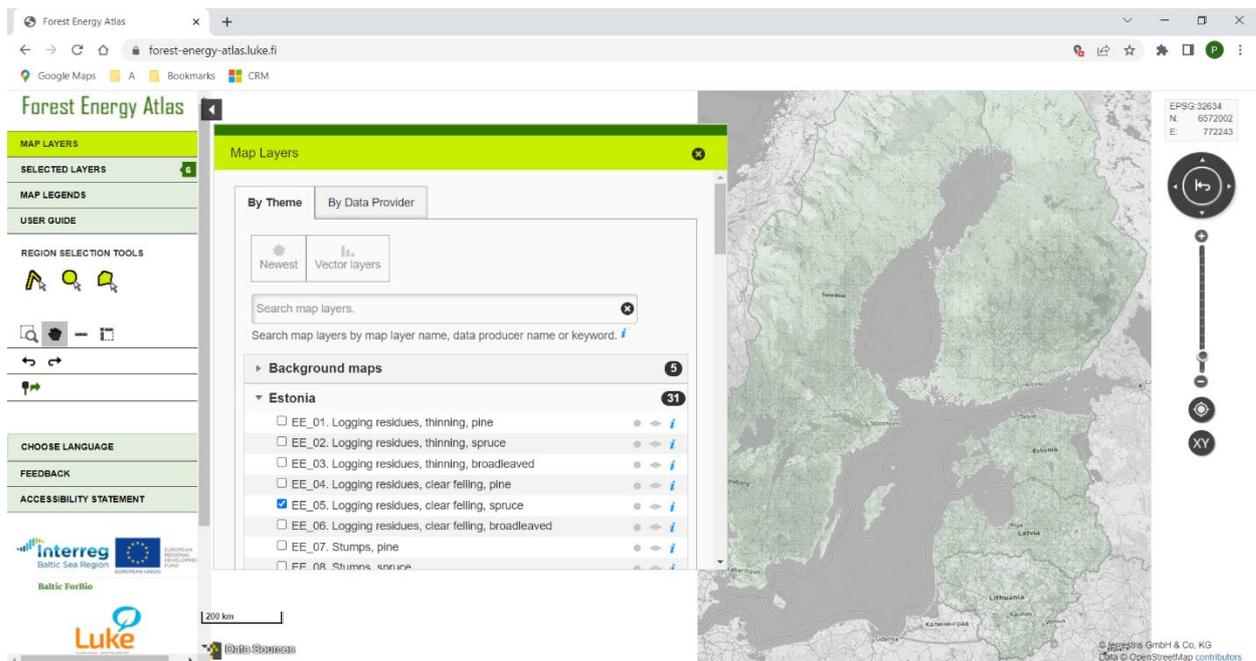
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ADDITIONAL INFORMATION

Biomass Atlas was developed by Natural Resources Institute Finland together with Finnish Environment Institute, Forestry Development Centre Tapio, University of Eastern Finland and University of Vaasa, and with funding from the Finnish Ministry of Agriculture and Forestry. Forest Energy Atlas was developed, in cooperation with Baltic Forbio project funded by Interreg Baltic Sea Region.

Biomass Atlas and Forest Energy Atlas provide a solid basis for planning of biomass supply chains. While the technical harvesting potentials are a good start, often additional information on, e.g., the effect competition on the potentials and supply costs are needed. For this purpose Luke offers services including:

- Assessments on biomass availability considering competition of resources
- Comparisons of supply chain alternatives and estimation of supply costs
- Analyses on facility or terminal siting
- Methods to model and manage feedstock quality over a supply chain.



THE PARTNERSHIP

