

PROJECT INFORMATION

Project title: Demonstration of climate change mitigation potential of nutrients rich organic soils in Baltic States and Finland

Project ID: 207

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PROJECT DESCRIPTION

The primary aim of the LIFE OrgBalt project is implementation of climate-change mitigation measures in management of nutrient-rich organic soils in cool temperate moist climate region to contribute to the EU and national climate targets in post-2020 commitment period by reduction of greenhouse gas (GHG) emissions from organic soils in cropland, grassland and forest land.

The main outputs of the project are climate change mitigation methods for nutrient-rich organic soils in farmlands and forest lands supplemented with demonstration sites; reduced GHG emissions; improved GHG emission factors for nutrient-rich organic soils and GHG inventory procedures for the Baltic region, GHG emission data base for the Baltic region, guidelines for climate-smart management of organic soils, planning tools, policy tools, stakeholder targeted dissemination, scientific and popular publications.

Project is implemented in 5 countries – Latvia, Lithuania, Estonia, Finland and Germany. Partners: Latvian State Forest Research Institute “Silava” (LSFRI Silava, coordinating beneficiary) Lithuanian Research Centre for Agriculture and Forestry, Luke, Tartu University, NGO Baltic Coasts, Latvia University of Life Science and Technologies, Ministry of Agriculture of Republic of Latvia, Michael Succow Foundation.

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Financiers: LIFE Climate Change Action, Administration of Environment Protection Fund, EUKI program and own funding of project beneficiaries.

Level I BioSoil soil inventory data and Level I soil solid phase data will be used within the scope of project activity C2 “Modelling of impact of climate changes on GHG emissions projections” for elaboration of activity data for GHG projections and integration of climate sensitive EFs into GHG modelling tools. Activity data (land use and management conditions) can have significant impact on projections of GHG emissions from organic soils, especially if climate changes are considered in modelling. The project team will elaborate set of organic soils related activity data for Baltic States for different climate change and management scenarios. Time frame of the projections – 1990-2050.

Level I soil monitoring data will be used to characterize properties of organic soil in forests in the cool & moist temperate climate region to elaborate geographically explicated reference data sets for utilization in SUSI peatland simulator to estimate CO₂ emissions from ameliorated and naturally wet organic soils in forest lands.

Signed Andis Lazdiņš