



# NEWS



Partners visiting the Bastuträskterminalen in January 2017

## BioHub

This is the fifth cross-border project between Finland and Sweden and it is building upon the result from the Forest Refine project and here is the first Newsletter from us.

### Accelerating new business models

The project will develop methods and business models for forest terminals. The goal is a business centre, BioHub, which delivers the right assortment to the right place at the right price both to traditional and innovative forest industries. To increase the value of the forest, future terminals can bark, crush, chip or sort biomass. Raw material can also be pre-treated by e.g. drying and torrefying.

### INFOSHEETS PUBLISHED

Researchers and project members are writing infosheets about what is going on in the project. [Read them here!](#)

#### 1. Nordic forest biomass terminals

Forest biomass procurement comprise several types of terminals where each is playing its own role in the whole supply chain from forest to industry. Six different terminal types are described here.

#### 2. Terminal Workshop - 5 key questions

As a result of the workshop that took place in Umeå in November 2016 we now have summarized the 5 key questions discussed during the workshop.

#### 3. Characteristics of Sweden's Biomass Terminals

Survey was sent out to companies operating forest terminals for energy in Sweden. Here is an overview.

#### 4. Characteristics of Terminals in Botnia Atlantica Region

In the Swedish part of the BA region 110 terminals have been identified. Here are the characteristics.

#### 5. BioHub Terminal Road Trip During Spring 2017

Several forest biomass terminals in Sweden and Finland will be visited and valuable data will be collected.

### FACTS

#### PROJECT TIME

2016-06-01 – 2018-12-31

#### CROSS-BORDER COOPERATION

Finland, Sweden

#### LEAD PARTNER

Natural Resources Institute Finland, LUKE

#### PARTNERS

**Finland:** University of Vaasa, Seinäjoki Univ of Applied Science, The Federation of Education in Central Ostrobothnia

**Sweden:** Swedish University of Agricultural Sciences, Bastuträsk Terminal, BioFuel Region

#### BUDGET

2 308 997 EUR

#### EU FUNDING

1 385 419 EUR

#### WORK PACKAGES

**WP 1. Business models and rural development**

Anna Claydon (LUKE)

**WP 2. Forest biomass feedstocks and flow**

Dimitris Athanassiadis (SLU)

**WP 3. Terminal designs, operations and logistics**

Dan Bergström (SLU)

**WP 4. Feedstock characterization and fractioning**

Hanna Brännström (LUKE)

**WP 5. Outreach and terminal network**

Barbro Kalla, Magnus Matisons, BioFuel Region

**WP 6. Management**

Juha Nurmi, LUKE

## ACTIVITIES

### Gender training course

All project partners have participated in the course, "Gender equality and gender mainstreaming", conducted by Länsstyrelsen Västerbotten. From a gender perspective the goal is to

- increase women's participation in the forest biomass supply chain and
- to alter the gender-biased perceptions of innovation and forestry with gender-sensitive and inclusive project communication.

This training was an opportunity to discuss how to include the gender perspective when developing the project together.

### Seminars in Sweden and in Finland

#### "Skogen idag och i framtiden" Nov 15, Umeå

The target group was female forest owners, and it was planned together with Spillkråkan, an association for female forest owners in Sweden, SLU and The Federation of Swedish Farmers, LRF. It was broadcasted from SLU to LRF in Stockholm and to others by link.

#### BioKokkola 2 Nov, Kokkola

The seminar was part of Kokkola Material Week and co-arranged by several regional organisations, including BA projects BioHub and BioRaff Botnia. Lecturers came from both Sweden and Finland and BioHub had 5 presentations. The event will be arranged again in 2017. [Read more!](#)

#### Terminal Workshop 2-4 Nov, Umeå

A three-day workshop for high level target groups with speakers and participants from both countries and commercial life has been performed. With the purpose of exchanging information and finding synergies between BioHub, terminal projects, and commercial terminal stakeholders handling forest biomass. [Read more!](#)



Study visit to Umeå Energy CHP-plant, Däva. Nov 3 2016

## COOPERATION WITH THE INDUSTRY

### Terminal network

A terminal network is one important goal for the project and one of our partners is Bastuträskterminalen in Sweden. We are working in close cooperation with e.g. Domsjö Fiber and UPM.



Study visit at Pohjolan Voima's Vaskiluoto power plant in Vaasa

### Study visits

Several study visits at terminals and pulpmills in both Finland and Sweden have been performed with the purpose to learn more about the woodhandling, other practices and business models. It is also important to strengthen the network with industry and terminal stakeholders.



Luke- SLU- SeAMK cross-border team in action.

### Bark storage experiment

In February researchers from Finland and Sweden started an industrial scale spruce bark storage experiment at UPM in Pietarsaari. The first experimental set-up is a cooperation between Luke in Finland and SLU in Sweden. In this experiment spruce bark from pulp mill is stored in 2 piles and changes on the extractives' concentration will be followed over the coming six months.

Web page

[biofuelregion.se/biohub](http://biofuelregion.se/biohub)

Contact:

Barbro Kalla, Sweden, [barbro.kalla@biofuelregion.se](mailto:barbro.kalla@biofuelregion.se)

Katri Kulkki, Finland, [katri.kulkki@kpedu.fi](mailto:katri.kulkki@kpedu.fi)