

MOBILE FLIP – Mobile and flexible industrial processing of biomass

The MOBILE FLIP project develops tools for more efficient utilization of the European agro- and forest based biomass sources. These side streams are presently underexploited as they are typically seasonal and generated in forests, on fields and other remote places. The major aim is to develop technologies for simple and robust refining processes that are applicable to small scale. At least three of the following technologies will be demonstrated: biomass pre-treatment steps (comminution, drying, fractioning)

- hydrothermal treatment and saccharification
- hydrothermal carbonization
- torrefaction
- slow pyrolysis
- feasible compaction technologies for solid products (pelletizing and briquetting)

Life cycle assessment and a wide sustainability evaluation will be carried out. The products are typically fuels as such or as pellets, biochars for soil improvement, biodegradable pesticides, chemicals for wood panel industry and sugars or cellulose. Some of the products can be marketed as such while some are intermediates for further processing.

Coordinator

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Budget 9.77 million €

Resources 762 person months

Duration 4 years (2015 - 2018)

Programme Horizon 2020, SPIRE-02-2014 program













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Processes for new products from forest biomass - a three-day venture in June 2016 with SLU in the surroundings of Umeå, Sweden!

Day 1: June 14th

In-field demonstration of novel forest biomass supply systems and upgrading to pellets with mobile systems.

Day 2: June 15th

Demonstration of a commercial scale torrefaction unit and work-shop on possible implementations for mobile systems.

Day 3: June 16th

Open project seminar at SLU.

Preliminary programme

08:30-09:00	Registration + coffee
09:00-09:05	• Sylvia Larsson, Swedish University of Agricultural Sciences (SLU)
09:05-09:20	Mobile and flexible processing of biomass – EU project MOBILE FLIP - Tarja Tamminen, VTT Technical Research Centre of Finland Ltd
09:20-09:45	Business models - Finn Englund, SP Technical Research Institute of Sweden
09:45-10:00	Evaluation of process flexibility and product quality - Capucine Dupont, Commissariat à l'Energie Atomique et aux Energies Alternatives
10:00-10:45	Poster session + coffee and cake
10:45-11:15	Demonstration case - Priit Kotli, BioGold
11:15-11:40	Sustainability - Elina Saarivuori, VTT Technical Research Centre of Finland Ltd - Stefan Molnar, SP Sveriges Tekniska Forskningsinstitut Ab
11:40-12:00	Future demonstration workshops - Denilson da Silva Perez, FCBA Technological Institute

12:00-13:00 Lunch at SLU









value chain.



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Sveriges lantbruksuniversitet Swedish University of Agricultural Sciences

Institutionen för skogens biomaterial och teknologi

This is the 1 / 4 workshop on mobile and flexible processing of biomass.