

## Heat Entrepreneurship Cluster of South Ostrobothnia



Heat entrepreneurs produce heat for customers by using renewable solid bio-fuels. In recent decades this operational model has become more common in Finland. Different skill sectors have formed around heat entrepreneurship such as training, research, consultation and equipment production. A heat entrepreneurship knowledge cluster has been built in South Ostrobothnia Finland.

The HECSO development project has assembled the heat entrepreneurship knowledge cluster of South Ostrobothnia. The knowledge cluster has been made to utilise, in many different ways, the companies located in the region, other actors in the region and the internationalisation of the whole province.

A principal component of internationalisation is the knowledge cluster's training package on heat entrepreneurship, which is on offer to interested foreign target groups. Vocational Adult Education Sedu is responsible for the training. The training package lasts for one week, and is compiled through co-operation with the Finnish Forest Centre and regional heat entrepreneurs and machine and equipment manufacturers.

Heat entrepreneurship is the production of local renewable energy, where an entrepreneur or company sells heat at an agreed price to a user. In the best scenarios there can be many heat purchasers. Heat is conveyed to the customer from the heating plant by a district heating network. Generally the fuel is the entrepreneur's own forest or locally procured wood, but it can also be wood refining by-products, wood for re-cycling and peat.

The knowledge cluster consists of heat entrepreneurs, heat entrepreneurship units, research, training and the supply of machines and equipment for the whole production chain. The knowledge cluster can also be utilized internationally by offering knowledge and training opportunities to foreign target groups.

## DETAILS

---

### ORIGIN OF WOOD

--

### TYPE OF WOOD

--

### KIND OF WOOD CONCERNED

Stemwood, Above and below ground woody biomass

### IMPACT ON ENVIRONMENT & BIODIVERSITY

Positive/reduces the use of fossil fuels

### INCOME EFFECT

Positive

### EXPLOITATION POTENTIAL

--

### HUB

Northern Hub

### ECONOMIC IMPACT

Very positive

### SPECIFIC KNOWLEDGE NEEDED

Good network abilities needed

### MOBILIZATION POTENTIAL

Medium

### SUSTAINABILITY POTENTIAL - VALUE

--

### EASE OF IMPLEMENTATION

Medium

### EASE OF IMPLEMENTATION - EVALUATION

--

### KEY PREREQUISITES

Heat entrepreneurship promotes local business activity

### TYPE OF EVENT WHERE THIS BPI HAS BEEN FEATURED

--

### JOB EFFECT

Positive / increases local employment

### COSTS OF IMPLEMENTATION ( EURO - € )

--

## MORE DETAILS

---

### CHALLENGE ADDRESSED

4.- Ensure a well-trained workforce through attractive skills development and education

### KEYWORDS

--

### COUNTRY OF ORIGIN

Finland

### DOMAIN

Innovation management, hubs, clusters

### DIGITAL SOLUTION

No

### SCALE OF APPLICATION

Regional/sub-national

### TYPE OF SOLUTION

Networks, testbeds, R&D platforms

### INNOVATION

No

### START AND END YEAR

--

## CONTACT DATA

---

### OWNER OR AUTHOR

Yrjö Ylkanen

yrjo.ylkanen@metsakeskus.fi

### REPORTER

## REFERENCES AND RESOURCES

---

### MAIN WEBSITE

<http://www.hecso.fi/>

### PROJECT WEBSITE

--

### PROJECT REFERENCE

--

### RESOURCES

--

---

**PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED**

Rosewood

**POST DATE**

17 Sep 2019

---



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

---

**A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY**

