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ECOINFLOW

Energy Control by Information Flow

Instrument: Intelligent Energy – Europe (IEE)

Deliverable D.5.1 Project information material

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Project co-funded by the European Commission within Intelligent Energy – Europe (IEE)		
Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



Energy Control by Information Flow

WHAT

WHY

HOW

WHERE

WHO

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What?

ECOINFLOW aims to reduce the energy consumption in European Sawmilling Industry. During the project time we will Develop and implement Energy Management Systems (EMSs) in 30 sawmills in Europe.



Why?

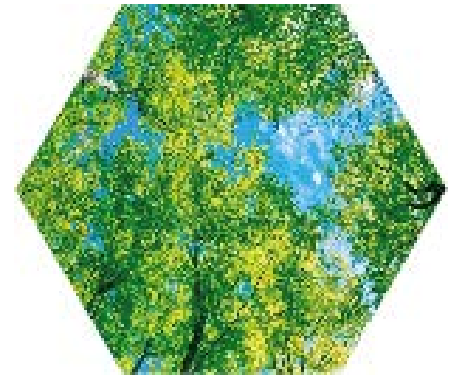


Some main barriers for energy savings in the European sawmilling industry (SMI)

- Lack of infrastructure
- Profitability with sale of surplus energy products
- Knowledge about own energy consumption
- Knowledge about optimal energy utilization
- Low awareness about energy saving potential

ECOINFLOW is a coordinated action to

- activate international engagement, collaboration and knowledge transfer
- convince market actors to implement specific measures for reduction of the annual energy consumption
- reach a target of **1 TWh** energy savings per year in the SMI sector



How?



- Develop methodology for efficient monitoring of energy flows
- Knowledge transfer to sawmills operators and training
 - How to implement Energy Management Systems
 - Easy measures to reduce energy consumption
- Develop benchmark method for comparison of SMI nationally and in Europe
 - Define comparable parameters
- Define best industry practice on energy efficient technology and processes
- Publish Inter-European strategy for SMI energy savings



Where?



Develop and implement Energy Management Systems (EMSs) in 30 sawmills in Europe



Who?



- SP Technical Research Institute of Sweden (SP), Sweden
- Johann Heinrich von Thünen Institute (vTI), Germany
- L'Institut Technologique Forêt Cellulose Bois-construction Ameublement (FCBA), France
- The Norwegian Sawmill Industries Association (Treindustrien), Norway
- InnovaWood (IW), Belgium
- Bundesverband der Säge- und Holzindustrie Deutschland (BSHD), Germany
- Fédération Nationale du Bois (FNB), France
- BSW Timber (BSW), United Kingdom
- Mühlböck (Muehlboeck), Austria
- Bergkvist-Insjön AB (Bergkvist), Sweden
- Amber Wood LTD (Amber Wood), Latvia



Thank You

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InnovaWood

Bundesverband der Säge- und Holzindustrie Deutschland

Fédération Nationale du Bois

BSW Timber

Mühlböck

Bergkvist-Insjön AB

Amber Wood LTD

TARGET GROUPS

There are three main target groups of this action.

The primary target group consists of **sawmill industry management and operators**. This group will be directly affected by this action. This is where the expected energy savings during this action are taking place.

Further, the **sawmill associations** in total are seen as a target group for their role to secure fair cooperation and coordination among the competitors in the sawmill industry and to other stakeholders. This group is expected to play an important role in communicating the possibilities and strategies for energy savings beyond this action, and thus contributing to reaching the strategic objectives for 2020.

The third target group is **the energy saving programs and national supporting schemes**. It is expected that targeting this group will provide in-depth industry information that will trigger additional action from this group.



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Effective Saving For Future

Some of the main barriers for energy savings in the European sawmilling industry (SMI) are the lack of infrastructure and profitability with sale of surplus energy products (e.g. bark and chips), knowledge about optimal utilization of the energy input factors,

and low awareness about the reduction potential. Although there are large energy savings potentials within the industry, a coordinated action is deemed necessary for reaping these savings and convincing market actors to implement concrete measures. This is why the ECOINFLOW project aims to reduce the annually energy consumption of the European sawmilling industry sector throughout international engagement, collaboration and knowledge transfer.



“Energy efficiency is a journey not a destination.”

Ecoinflow at glance

WHAT

To facilitate implementation of state-of-the-art energy management system for the sawmilling industry sector.

WHY

Ecoinflow will focus on activating international engagement, collaboration and knowledge transfer, convincing market actors to implement specific measures for reduction of the annual energy consumption reach a target of 1 TWh energy savings per year.

HOW

By developing methodology for efficient monitoring of energy flows and benchmark method for comparison of SMI, knowledge transferring to sawmills operators and training, and collecting best industry practice on energy efficient technology .

WHERE

30 sawmills all around Europe.



HEAT AND POWER METERS

The project aims at developing accurate methodology to find the most efficient way to install power and heat meters for monitoring of energy flows in the industry. The methodology will focus on sorting the different production processes into sub-processes, to yield the measure of energy used for each step of the production process.

How can we reach energy efficiency in sawmills industry?

Implementation of EMS will enable more accurate analysis of energy saving measures. This will show the sawmill industry the advantages of having an EMS.



In order to evaluate energy efficiency and possible energy efficiency and possible energy savings, a sector-wide best industry practice will be established. The best performing companies define the best industry practice in energy saving and can be used to compare the specific performance of other ones. The benchmarking exercise will include all sawmills participating in the project.

After the benchmarking criteria have been established, a tailor-made tool will be introduced to facilitate the data acquisition and the benchmarking process. An overview of success stories in the sawmilling industry in Europe will be created for industrial users interested in comparing their energy management approach with the best practice.

ENERGY SAVING MEASURES

More accurate information of the energy consumption at sawmills, in addition to implementation of energy saving measures, will help to improve the environmental profile of sawn timber, which is the main commodity from the sawmill production.

