

ECOINFLOW An example on how InnovaWood can support your EU-project

WWW.ECOINFLOW.COM

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Johannes Welling



Co-funded by the Intelligent Energy Europe Programme of the European Union

ECOINFLOW – want does it mean?



ECOINFLOW stands for Energy Control by Information Flow

The project was funded within the "Intelligent Energy – Europe" Programme by **eaci**

(Executive Agency for Competitiveness & Innovation)





Partners: Research organisations, sawmills, kiln manufacturer, sawmill associations

Countries: Norway (coordinator), Austria, Belgium, France, Germany, Great Britain, Latvia, Sweden



Project time: 3 years – (2012-2015)



Objective: To facilitate implementation of the tailor-made Energy Management System (EnMS) in SAWMILLING industry

Goal: Save energy, save money, contribute to 2020 EU CO₂ reduction targets

Work packages



- WP 1 Management
- WP 2 Energy management systems
- WP 3 Best industry practice
- WP 4 Energy saving strategies
- WP 5 Communication

ECOINFLOW Project



Organisation:



- 5 core partners doing > 80% of the work
- Each WP was coordinated by a core partner
- All core partners contributed to all WPs
- Main outputs were elaborated jointly, but under the leadership of one of the core partners
- Regular meetings and Skype conferences secured monitoring of work plan and keeping deadlines

Main outputs:



- Ecoinflow handbook,
- On-line benchmark tool,
- Multi-lingual set of Best Practices descriptions,
- Sawmills network in energy saving,
- Change of behaviour and rasing the awareness on energy saving.



- Wasted energy is inefficient use of resources.
- Saved energy (energy which is not used at all) is the best of all forms of energy.
- There is a great potential to save energy in sawmilling.
- EcoInFlow wants to support sawmillers to take action!





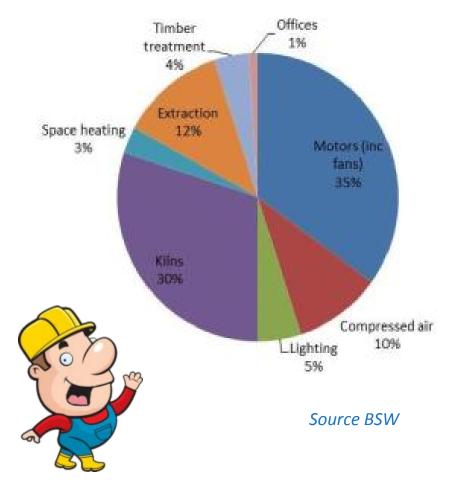
What are key areas of energy use in sawmills?



- 🔲 Kilns
- Motors (including fans)
- Extraction of saw dust
- Compressed Air
- In the log yard
 - Timber trucks
 - Forklift trucks
- Lighting
- Cooling/heating



Estimated split of energy use in production...



- Kilns have the biggest energy use on site (up to 90% of heat and 30% of electricity)
- Green Mill use approx. 50% of electricity
- Planing and Grading utilises approx.
 20% of electricity
- Offices approx use only 1% of energy but still can significantly increase our utility bill (in some case for €10.000!)

ECOINFLOW EnMS

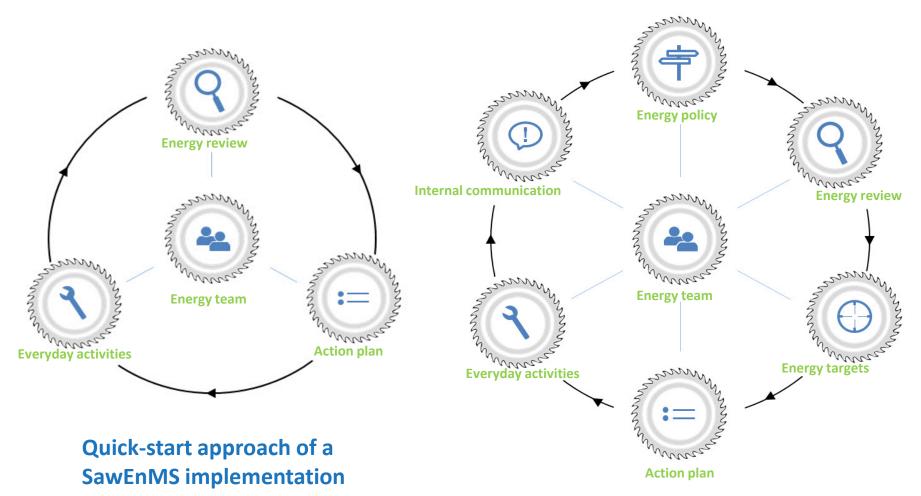




By implementing EnMs you can:

- Save a lot of money
- Reduce environmental impact
- Identify areas for energy saving improvement in production processes and make well-founded decisions
- Speed up the process of energy use reduction
- Share knowledge and experiences, change behavior
- Raise the acceptance and status of energy efficiency work
- Raise the interest for your products with those clients that care on energy saving

OUR APPROACH



Full version of a SawEnMS implementation

STEP 1: Appoint Energy team

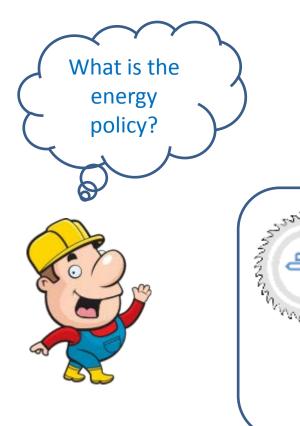


What to do: Let the top management appoint a management representative for your EnMS and install an Energy management team with the required competence, authority and resources.



Expected outcome: Your company has a team of skilled and engaged people that leads the work towards increased energy efficiency.





What to do: Develop an Energy policy and have it approved by the top management.

Expected outcome: Your company has a policy that clearly states your commitment to work on energy efficiency. A short document, with a statement of your company's commitment to work systematically to increase your energy efficiency.



Suggested procedure

Define and structure the plant you are studying.

What system boundaries will you use and what sub-parts does your company or plant consist of?

Will you include the entire plant/company?

Will you make separate Energy reviews for different units?

- Collect data on your *total* energy use and corresponding costs.
- If possible, compare the data you collected to previous years' results.



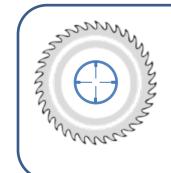
STEP 4: Energy targets





What to do: Set targets for your energy efficiency work that are quantified, measurable and achievable.

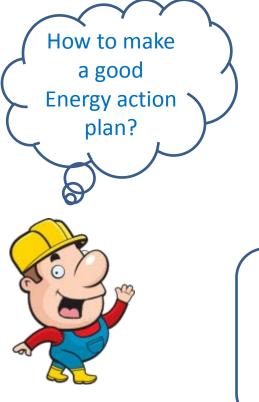




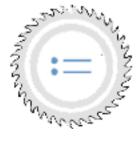
Expected outcome: Clearly expressed goals to aim your efforts at. Without targets you will never know if you have succeed or failed.







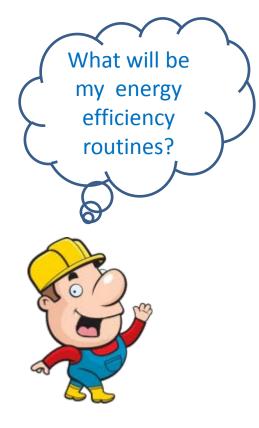
What to do: List all your ideas for improving your energy efficiency, prioritize them and make a plan for their implementing.



Expected outcome: A road map with planned actions that will make you reach your Energy Targets.

STEP 6: Everyday activities





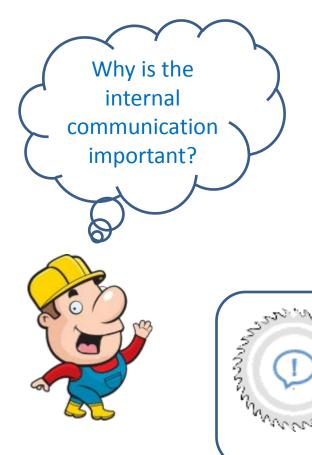


What to do: Include energy efficiency in your daily routines (start-up, breakes, maintenance, procurement, etc.).

Expected outcome: Everyday energy savings without thinking.

STEP 7: Internal communication



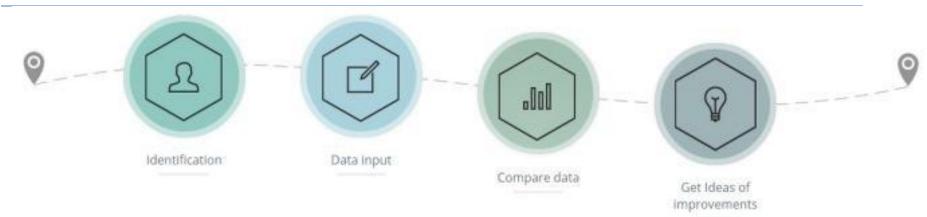


What to do: Involve all employees by communicating the energy policy, the energy targets and the efficiency efforts.

Expected outcome: A staff working together towards the specified energy targets.

Benchmark





Benchmark tool

SawBenchmark: your statistical comparison tool

www.sawbenchmark.com

This website was developed in the Ecoinflow project.

Aim: Comparison tool for industrial practices regarding Energy Management in the European sawmill industry

Why was InnovaWood part of the team ?





Scientists / Research Institutes:

- All core partners were recruted from the IW network. This was not a "must", but partners knew each other very well before and IW is one of the reasons why they knew each other.
- New scientists came in because they were members of well known IW member organisations.
- IW supported in the proposal stage by addressing communication and dissemination activities in the Commission's language.
- In the project IW was responsible for communication and dissemination activities with the support of the scientific core partners.

Why was InnovaWood part of the team ?





Sawmillers / industrial project partners:

- Presenting information in a clear, well structured and good visual appearance is a "must" in communicating with practitioners and industry people. IW has special staff at hand that can provide support on short notice.
- In Europe language barriers still exist. Even though English is the standard language in EUprojects, a multi-lingual partner in a project is of great advantage. IW can provide this.

Why was InnovaWood part of the team ?



Project administrator in funding organisation:

- IW knows what project admin people in the funding organisations want to hear and read.
- IW has gained a lot of experience in the past in preparing project proposals, in negotiating them after general approval, in structuring and layouting of deliverables and reports.
- IW can provide templates and standardised text blocks which can easily be modified to suit the individual project.
- IW knows about how to report about costs and how to fill cost statements correctly.
- IW can provide a well managed internet platform for hosting the project webpage.



You should consider making IW part of your team when you start designing your next project proposal applying for EU-funding!



Thank you for your attention

Visit us at www.ecoinflow.com

and for beanchmark tool at <u>www. sawbenchmark.com</u>

