

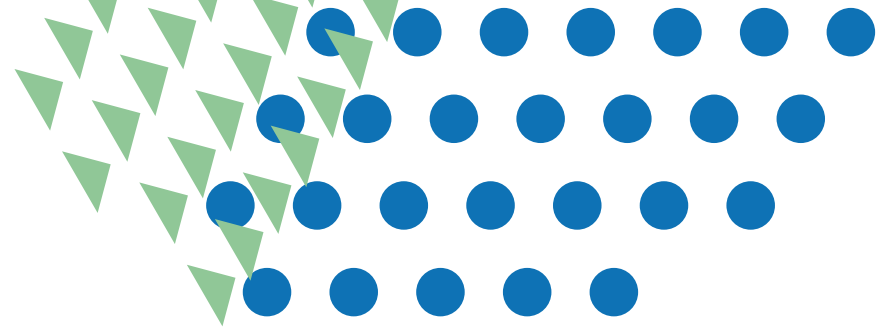
Facing resource efficiency in Italian SMEs with EDIT Value tool

Cristian Chiavetta (ENEA-LECOP)
Francesca Falconi (LCA-lab)



EDIT Value has been tested in 2 Italian SMEs:

- Moretti Compact s.p.a.
Cosmob + ENEA
- Stafer s.p.a.
LCA-lab + ENEA



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The experience of Moretti Compact

Ing. Cristian Chiavetta
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Italian National Agency for New Technologies,
Energy and Sustainable Economic Development



EUROPEAN UNION
EUROPEAN REGIONAL
DEVELOPMENT FUND

- One of the Italian market leader for ***bedroom furniture***
- Company of around 200 employees
- Mainly ***national market*** and approaching to the Russian market
- All ***modular products***



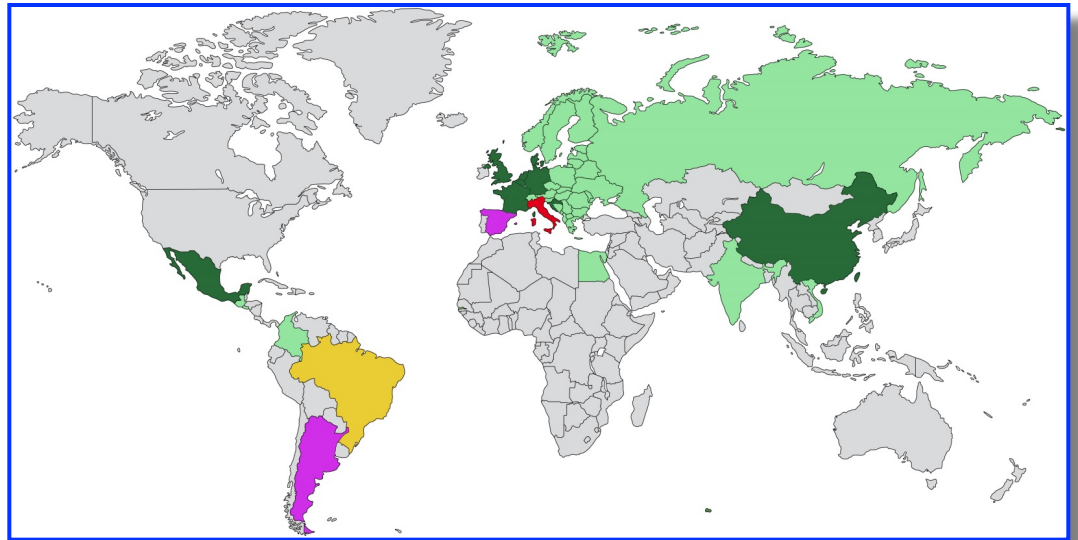
Moretti Compact: a certified high quality company



- ISO 14001 certification
- BS OHSAS 18001 certification
- Use of FCS certified wooden panels
- Use of water based paints
- Recycling of most of the waste produced (internal and external recycling)

Cosmob is a specialized centre for wooden furniture companies consulting.

Cosmob offers its expertise in order to improve and certify the quality (testing laboratories), support design, research and development of new products and sustain companies in their way to internationalization.

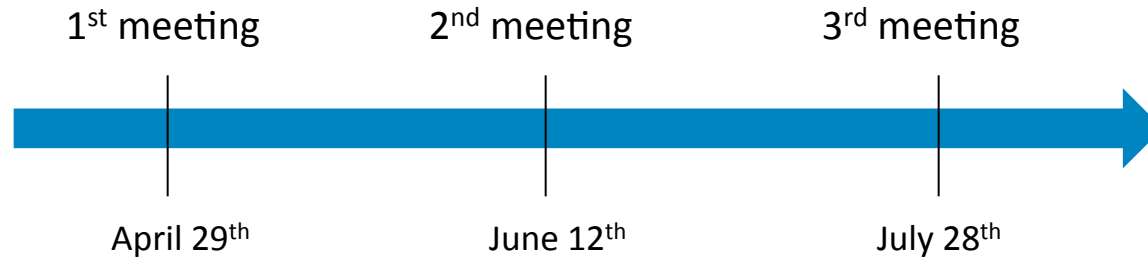


The testing phase has been led by Cosmob, nevertheless ENEA contributed with its expertise in the environmental field.

This cooperative approach has allowed:

- a ***fruitful intersection*** between the knowledge of Cosmob in the specific field of wooden furniture and the expert contribution of ENEA for the environmental assessment and the ecodesign
- a faster and ***more effective audit*** of the company

The organization of the testing phase



- *1st meeting*: stakeholders analysis, TOP 20 analysis, screening analysis of the input and output of the product life cycle (*around 2,5 hours*)
- *2nd meeting*: walk through, identification of potentials (*around 3 hours*)
- *3rd meeting*: presentation of the results and of the action plan

Main findings of the testing phase

- The ***Stakeholders analysis*** has been a fruitful opportunity for the managers of the company to better understand their own ***priorities*** and how they are performing in order to involve the stakeholders in their ***strategies***
- We faced some ***difficulties*** in the ***data collection*** production lines (wood cutting, painting, packaging, etc..) for both the TOP 20 inputs analysis and for the screening LCA form
- We collected most of the information needed for ***screening LCA*** in the previous steps (presentation of the company and stakeholders analysis) and we believe a ***specific expertise*** (and knowledge of ***operating field*** of the company) is needed in order to handle the screening LCA analysis

Some results of the EDIT Value Tool application

- Definition of the environmental profile of materials and components used in order to select the ***suppliers*** also on the basis of the ***environmental performance*** (guidelines)
- Definition of the actual percentage of ***recyclable*** materials of the Moretti products (and packaging) in order to get it ***higher and higher*** (ecodesign)
- Training on ***Ecodesign***
- More organised and ***detailed monitoring*** of the energetic and material consumption in order to ***increase resource efficiency***
- ***Integrated management*** of production and resource consumption ***data***, for every production and assembling line

EDIT Value Tool, thanks to its comprehensive approach, is suitable for a screening audit, a bear in mind list or detailed analysis and it is able to fit several productive fields.

Anyway for a correct use of the tool in a detailed analysis, the expert judgment of a consultant is needed.

Thanks to its “modular structure” EDIT is easily adaptable to the needs of the consultant.

The tool does not easily fit the service companies and more than a decision tool is an auditing instrument and a supporting decision tool.



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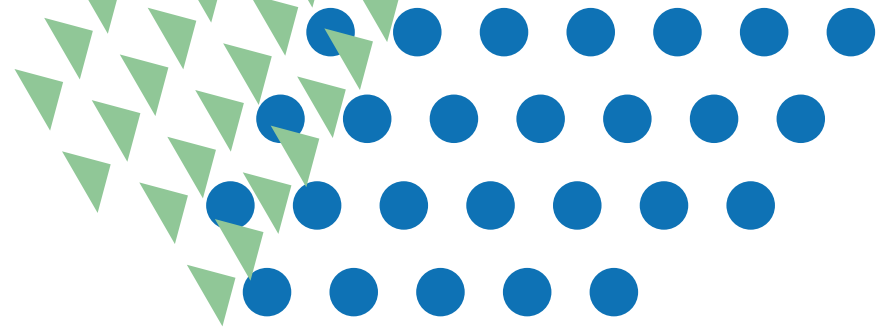


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The experience of STAFER

Ing. Francesca Falconi
(LCA-lab)




- Design and production of **solutions for installation and operation of rolling shutters**
- Company with around 70 employees
- National Market: 60%, Foreign Market: 40% (especially North Africa)
- **Rolling shutters components**



Stafer: a particular attention for environment



- ISO 14001 certification and EMAS
- ISO 9001 certification
- Official member of PLEF (Planet Life Economy Foundation)
- The **raw materials** used for the production of mechanical accessories are **selected with care** and constant controls
- The components of tubular motors and controls are **entirely obtained in Italy**, in order to ensure, even in details, a high level of quality.

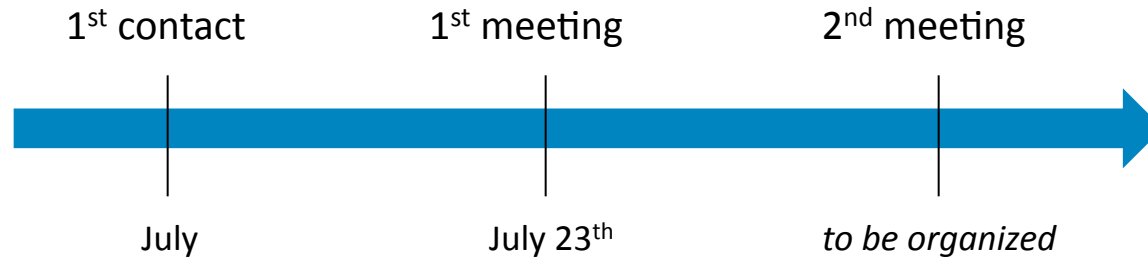
-  is a Research & Consulting environmental company specialized on **Life Cycle Assessment (LCA)**, Ecodesign, Green Marketing and environmental labelling (e.g. EPD and carbon footprint).
- **LCA-lab SRL is a Spin-off of ENEA.**
- Its **mission** is to apply the scientific research results to the Sustainable Management and Design of products and processes to characterize the **Environmental impacts**.
- *Consultant of Stafer for a training course about LCA and its application on two products.*

The testing phase has been led by LCA-lab, with the support of ENEA.

This cooperative approach allowed:

- to take ***advantage from the past experience*** of LCA-lab with Stafer about the life cycle approach
- a ***fruitful intersection*** between the knowledge of ENEA about EDIT and the contribution of experts in LCA and environmental field
- an interesting method of assessment for the company

The organization of the testing phase



- *1st contact*: proposal of the testing and screening analysis of the input and output of the product life cycle, based on past experience (*around 2 hours*)
- *1st meeting*: stakeholders analysis, TOP 20 analysis, identification of potentials (*around 3 hours*)
- *2nd meeting*: to be organized for the presentation of the results

Main findings of the testing phase

- Stafer considered the **Stakeholders Analysis** very useful to focus on strategic objectives and to identify new stakeholders. This analysis has been important to prioritise operations in relation to the achievement of company objectives.
- Some difficulties have been experienced with **TOP 20** because of difficulties in collecting data and allocate them to a specific product.
- **A Screening Life Cycle Assessment (LCA)** has been useful to identify some significant aspects related to energy and environment during the life cycle phases.
- It's been easy for the company to answer detailed questions to identify potentials but it was difficult to define weight and level of implementation without clear instructions for the assignment.

Some results of the EDIT Value Tool application

- Need to ***allocate energy consumption*** to specific operations (e.g. cutting or moulding) to compare these operations and increase energy efficiency.
- Need to ***reduce metal scraps***, especially for the moulding phase, in order to increase raw material efficiency.
- More attention to ***end of life*** of the device: motors for automatic rolling shutters are not disassemblable.
- ***Integration with a life cycle approach.***
- Interest in ***environmental communication***: dissemination events, web site, communication to customers, labels.

The availability of the company has been essential for the success of the test.

EDIT Value Tool is helpful to identify the necessary resources and to evaluate the efficiency of the process.

EDIT is a useful tool for a consultant making a screening of a company, especially if it's the first approach with a company, but the elaboration of the suggested applications and actions is more complex.

It is very important that consultants are trained about EDIT use.



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