

EnEf



Energy Efficiency in the building sector: a sustainable future

LLP - Leonardo da Vinci, Development of Innovation



BACKGROUND

Sustainable environment is the major problem globally, nowadays. Energy savings and energy efficient buildings are considered a key way for reduction of greenhouse gas emissions, taking into consideration that buildings are responsible for over 40% of Europe's greenhouse gas emissions. The EU Directive 2002/91/EC defines concrete goals for energy savings and for the use of renewable energies in buildings. Besides, directive 2010/31/EU contributes to achieving this aim by proposing guiding principles for Member States regarding the energy performance of buildings.



RATIONALE

The construction sector managers and entrepreneurs has an extremely diverse background, depending on the country of origin, their age and their personal profile.

Many of them are migrants themselves. They often have to deal with new materials, methods etc. without having the respective knowledge and skills. Therefore, provision of a flexible training to promote energy efficiency in buildings is a must, especially for the older generation, and this knowledge and skills may only be acquired through LLL.



PROJECT OVERVIEW

The enef project aims at designing training modules and contents accessible via an e-learning platform and enriched by virtual simulation tools and interesting best practices about energy saving solutions in the building industry.



Main aim of the project

To alleviate the lack of knowledge of entrepreneurs and managers by using new methodologies and by building up training modules in line with European standards, trying to grasp the common points between different applications in different countries.

Target group

Target group of the action are managers and entrepreneurs of the European construction sector



PROJECT GOALS

- To set up new methodologies and build up training modules in line with European standards concerning energy efficiency in buildings
- To develop an accessible training approach available by an e-Learning platform
- To create visual elements and virtual simulations being able to visually show the different choices about Energy efficiency and their impact on energy saving/consumption in a building
- To provide examples and exchange of Best practices
- To assure a wide dissemination of the project products and results



EnEf APPROACH

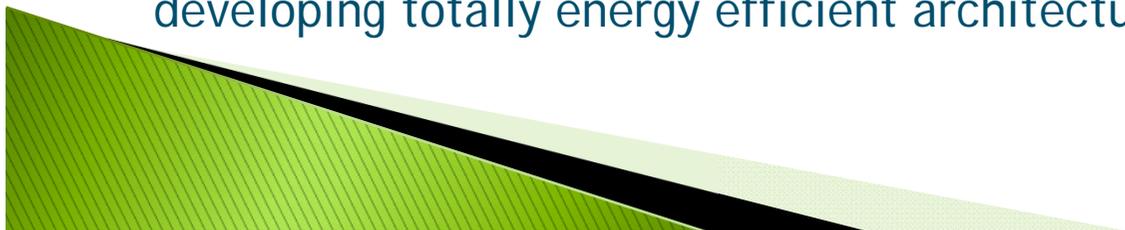
1. In the first phase, the project schedules a wide and deep analysis of the gaps in the current training systems as for energy efficiency in building;
2. In the second phase, the appropriate training materials are developed, on the basis of the SMEs skill needs;
3. The innovative contents are then made accessible by an e-Learning platform and enriched with simulation tools;
4. The last phase of the project will see the pilot test of the developed outcomes in 7 different European countries.



THE PROJECT VISION

EnEf aims to change the situation also through a new vision of the energy efficiency in the building industry. There's a too much fragmented vision into components of the system (buildings, machinery, photovoltaic panels, systems control, lighting), losing sight of their integration into a single framework that considers the entire system-building plant. This fragmentation of standards, languages and specializations, leaves on the ground most of the potential for energy efficiency and renewable sources that could be exploited.

The overall approach must be redefined and must pass the idea of an efficiency linked to the replacement of the component towards the idea of developing totally energy efficient architecture.



EnEf website: www.enef-project.eu

The stakeholders can follow the developments of the project on the EnEf website: the action taken by each organization involved, side projects of the consortium members, progresses and first results.

Moreover, the EnEf website hosted the ONLINE SURVEY: an international survey launched by partners in order to identify the needs of SMEs in the construction sector. Final aim is the development of an effective and comprehensive training plan, based on the real needs of companies and allowing meaningful practical on-the-job learning.



The kick off meeting

On 19th January 2011 the Kick-off Meeting took place in Milan with the aim to plan in detail the activities foreseen during the two years of the project.

Representatives of each partner organisation attended the meeting and actively participated in the debate, exchanging different views and approaches to the project management. The meeting served in particular as an occasion to agree altogether on the division of tasks and responsibilities.



The international survey

As first step for the development of the EnEf Training Plan, the consortium launched an transnational analysis of the target group training needs, so to create contents and modules respondent to those needs.

In particular, the survey objectives in the ENEF project are:

- To ascertain whether responding companies are familiar with new energy efficient technologies
- To identify reasons why the responding companies do/do not make use of energy efficient products
- To ascertain whether the responding companies are proactively preparing for the use of energy efficient products in their business
- To compare SMEs from different EU nations on their use of energy efficiency products
- To determine whether the individual respondent is interested in learning more about energy efficient products and services



3D Simulation tools

One of the most innovative aspect of the EnEf project is constituted by the creation of customized 3D simulation tools. 3D simulation will:

- allow SMEs to observe different practices in building industry with different energy consumption in different countries;
- be particularly useful for the development of a practical on-the-job learning, based on the simulation of best practices in the use of various energy efficient products;
- allow the calculation of energy saving and cost cutting.

The online Platform for e-learning, 3D simulation tools included, will be online by January 2012, when the Pilot test will start.



CONSORTIUM OF PARTNERS

The EnEf consortium has mobilized all the necessary and required set of skills to perform the planned activities and reach the objectives of the project:

- ITALY - EUROCREA MERCHANT

www.eurocreamerchant.it



- Ireland - INNOVATE

innovate

- SLOVAKIA - SRRA Regional Development Agency www.srra.sk



- GREECE - IDEC www.idec.gr



- SPAIN - VICOMTech www.vicomtech.es



- SPAIN - DIRECCION de Arquitectura, Junta Extremadura www.juntaex.es



- BULGARIA - BCC Bulgarian Construction Chamber www.ksb.bg



- GERMANY - ILI Innovation in Learning Institute, www.fim.uni-erlangen.de



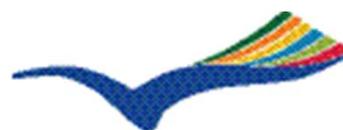
The support from the European Union



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The Leonardo da Vinci Sectoral Programme links policy to practice in the field of vocational education and training. One of its main aim is to facilitate the development of innovative practices in the field of vocational education and training other than at tertiary level, and their transfer, including from one participating country to others.

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Education and Culture DG

Lifelong Learning Programme