

Visit our on line learning system to discover training materials and an exciting simulation tool:

<http://learning-content.enef-project.eu/ilias/>



Visit the EnEf Project website:

www.enef-project.eu

Energy Efficiency in the Building Sector: a Sustainable Future



EnEf Project

Energy Efficiency in the Building Sector: a Sustainable Future

The use of energy efficient technologies and products in the construction industry can make a significant contribution to Europe's economy by creating employment opportunities in areas such as renewable energy, energy efficiency products and services, waste management, recovery and recycling. Consequently, more and more construction firms are integrating technologies within new and existing buildings for the purposes of minimising energy loss and maximising energy efficiency. This sector has grown significantly over the past decade as new technologies for increasing building efficiency have been developed and stricter building regulations have been introduced.

The global market for environmental goods and services is expected to grow to \$700 billion by 2010 and \$800 billion by 2015. SMEs are innovative, adaptable and flexible and so they are well placed to exploit these opportunities. However, to realise these opportunities, European companies will need to be agile and effective in building a business environment that will give them competitive advantages. There is a need for a structured plan to make implementation happen quickly and efficiently. There is substantial opportunity to train and or up skill workers in this sector so that they are qualified to work in energy efficient practices and techniques. The ENEF project aims to equip European construction SMEs with some competencies, tools and skills so that they are better prepared to optimise potential opportunities in this space. In light of this we have captured relevant training requirements from a sample of our target audience and developed innovative and useful material, methods and tools to help SMEs become more green. Relevant training materials, a simulation tool and on line learning system can be found at

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The next step in the process is to evaluate these to ensure that they are useful and relevant.

This project has been funded with the support from the European Commission. This document reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.



Education and Culture DG

Lifelong Learning Programme

EDITION

04

OCTOBER
2012

EnEf Project Newsletter

Our goals

The ENEF project consortium ultimately hopes to help

Reduce emissions in the construction process

Improve comfort in housing

Improve air quality

Increase the quality of house construction

Improve building energy ratings

Increase resale value of houses in Europe

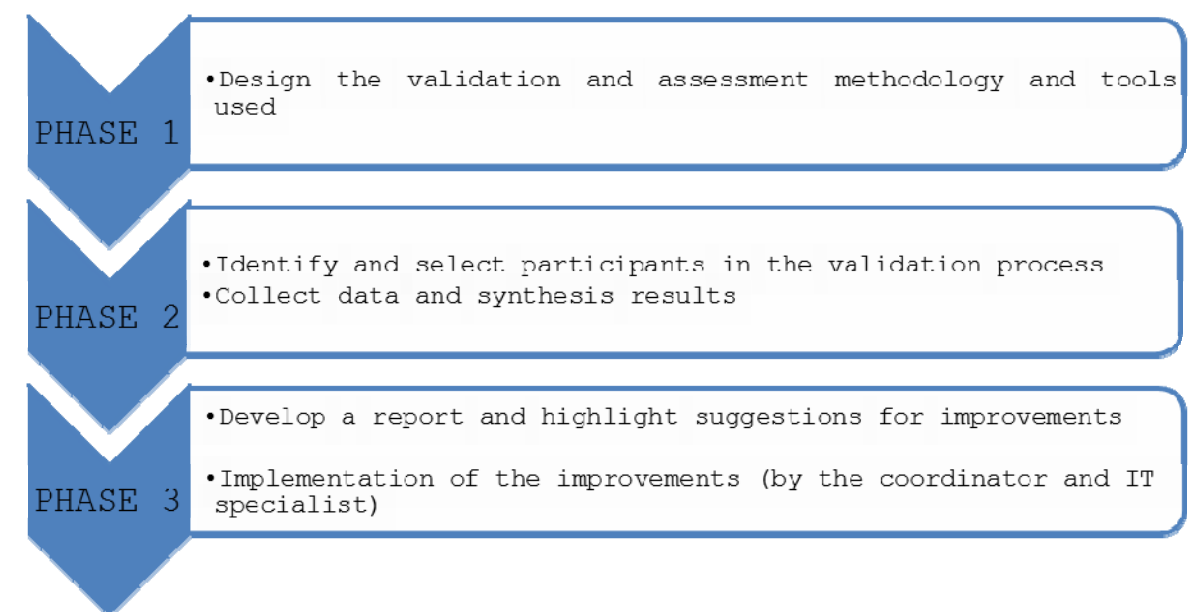
Evaluation Process

Evaluation is all about measuring the performance of the project. This enables the project team to understand, manage and improve the deliverables of the ENEF project. It lets us know how well we are doing, if we are meeting our goals, whether our customers are satisfied and if, and where, improvements are necessary.

A well designed evaluation process is was designed in order to

- identify whether the project is meeting end user expectations and requirements.
- identify where improvements need to be made.
- ensure decisions are based on fact, as opposed to emotion.
- demonstrate accountability to all stakeholders.

The methodology used by the ENEF team to evaluate the progress of the project is described here.



Contents:

- EnEf Project
- EnEf evaluation process
- Criteria for assessment
- Findings from the survey
- The EnEf consortium

Who participated in our survey?



135 people participated in our evaluation process.

The majority of respondents worked in small companies employing less than 10 people.

The majority of respondents either developed new buildings or made small changes to existing buildings) and most of the respondents were either owner managers of the organisation or engineers.

The respondents were very experienced; the majority of them either worked in the company for between 5 and 10 years or more than 10 years.

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Findings from our Evaluation Survey

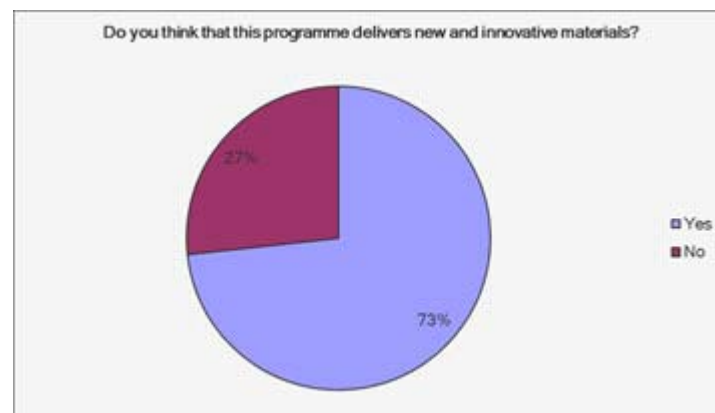
135 engineers and managers of European SMEs in Bulgaria, Italy, Slovakia, Greece, Germany, Spain and Ireland took part in a pilot test recently. We asked them to examine our learning system, read the training materials and try out the simulation tool.

Participants

We learnt that the majority of the people who completed our survey worked in small companies employing less than 10 people. The majority of respondents either developed new buildings or made small changes to existing buildings and most of the respondents were either owner managers of the organisation or engineers. The respondents were very experienced; the majority of them either worked in the company for between 5 and 10 years or more than 10 years. On analysis of the completed questionnaires we learnt that the key reasons for taking part in the training programme was to improve knowledge; participants were also interested in the topic and they wanted to improve their skills and competencies.

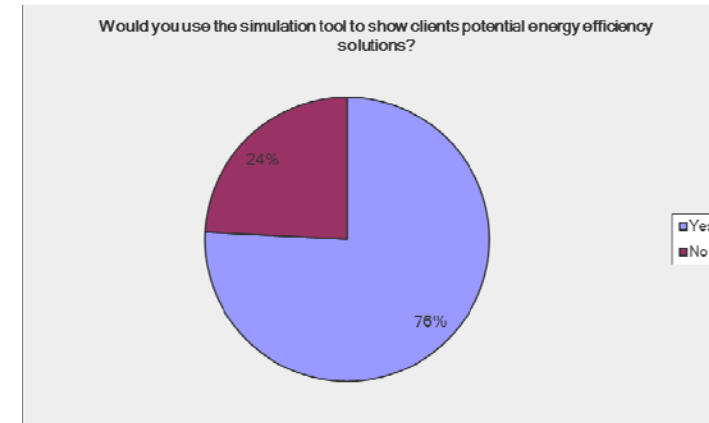
Training material

Analysis of the survey revealed that the vast majority of respondents thought that the training material was very interesting. We learnt that that the modules that were the most relevant are (a) Marketing: Offer and bill of quantities; (b) Glazing and (c) Façade systems. Respondents noted that the technical issues are clearly explained and that the training programme delivers new and innovative material.



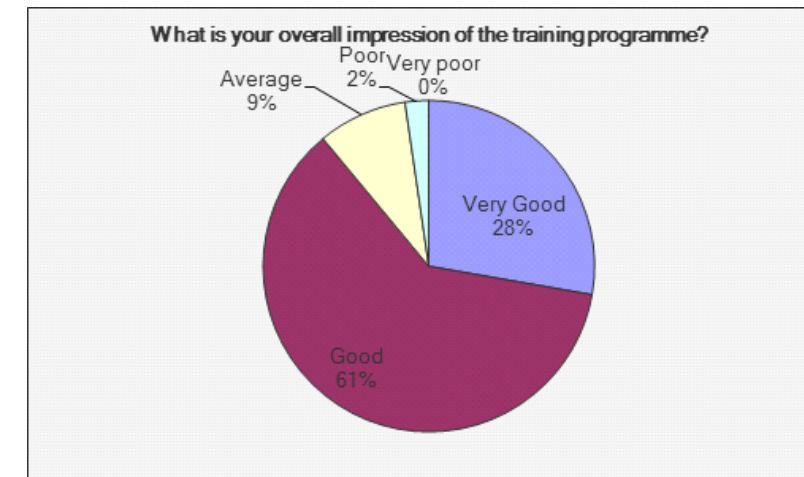
Simulation tool

Our findings reveal that the vast majority of respondents found the simulation tool to be user friendly. The majority of respondents stated that they would use the tool to demonstrate potential energy efficiency solutions to clients and that they would use the tool to train staff in energy efficiency.



Learning system

Our analysis found that the vast majority of respondents thought that the learning system was either very good or good. We also discovered that the respondents were pleased with the functionality of the web site. The majority of respondents stated that they thought that the functionality of the web site was either very good or good. Respondents were then given the opportunity to provide suggestions for improving the learning environment. Most of the open ended comments focused on either navigation or appearance.



Overall remarks

All in all the vast majority of respondents were very happy with the overall training programme. They thought that it was either very good or good. The ENef team received many compliments on the training programme; the majority of respondents would recommend the programme to others. We received very few negative comments.

Why take the course?

We learnt that the key reasons for taking part in the training programme was to improve knowledge; participants were also interested in the topic and they wanted to improve their skills and competencies.

What is the training material like?

The vast majority of participants found that the technical issues relating to energy efficiency in buildings are clearly explained and that the training programme delivers new and innovative material.

What is the simulation tool like?

Respondents found the simulation tool to be very user friendly. Respondents stated that they would use the tool to demonstrate potential energy efficiency solutions to clients. They would also use the tool to train staff in energy efficiency.

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What do you like about our learning system?

- Relevant
- Interesting
- Innovative
- Free
- Innovative
- Useful
- Practical
- Informative
- Correct
- Easy to follow
- Enjoyable
- Insightful
- Improvement



The EnEf consortium

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, involving all the players in the value chain necessary for implementing the training contents and their assessment. More specifically it constitutes:



EUROCREA MERCHANT, coordinator. An experienced consultancy active in the area of energy, with a solid project management methodology based in Italy. www.eurocreamerchant.it

innovate
INNOVATE, A research and training organisation focused on developing state of the art customised programmes and initiatives for organisations and

universities, based in Ireland.



SRRA, Regional Development Agency, with a consistent experience in the implementation of programmes as well as in the analysis of data, based in Slovakia. www.srra.sk



ILLI, Institut für Lern-Innovation, a University Department working on media and network-based learning and qualification systems, dealing mainly with new

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technologies for e-learning, based in Germany.

www.fim.uni-erlangen.de



IDEC, A qualified Training and consultancy company, with a long experience in software and multimedia development, based in Greece. www.idec.gr



VICOMTECH IK4- An applied research centre for interactive

Computer graphics and multimedia, experienced in particular in 3D simulation tools, based in Spain.

www.vicomtech.org



DIRECCION DE ARQUITECTURA, Junta Extremadura. A Regional authority holding to the Extremadura regional's Government with competence in the area of architecture,

construction and urban planning, based in Spain.

www.juntaex.es



BCC - Bulgarian Construction Chamber, a national representative federation of construction industry, representing 2285 SMEs company-members of Bulgaria. www.ksb.bg

What can we do to make it better?

We are working hard to make out training programme even better.

We are in the process of reediting the materials to ensure that they are perfect.

We are also creating a simple guide to explain how the simulation tool works.

We are also working hard on improving the appearance and navigation of our learning system so that you will have a better experience with out offering.

LIFELONG LEARNING PROGRAMME FOR SMEs COMPETITIVENESS.

The Leonardo da Vinci sector 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.

The EnEf project is co-funded by the European Commission within the Leonardo da Vinci action Development of Innovation. EnEf aims at developing innovative contents, methods and procedures within Vocational Education and Training in the European Building Sector.

