

Visit the EnEf Project

website:

www.enef-project.eu



You can follow the developments of the project: the action taken by each organization involved, side projects of the consortium members, progresses and first results.

Moreover, the EnEf website hosts 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.

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Energy Efficiency in the Building Sector: a Sustainable Future

EnEf Project Energy Efficiency in the Building Sector: a Sustainable Future

EnEf is a transnational project that aims at raising the competitiveness of European SMEs by providing them with necessary skills and tools to improve their energy performance. It has been co-financed by the European Commission in the framework of the Lifelong Learning Programme, Leonardo da Vinci - Development of Innovation. The EnEf project aims at improving energy efficiency in buildings alleviating the lack of knowledge of entrepreneurs and managers of the building industry. Specific objective will be to set up new methodologies and build up training modules in European standards concerning energy efficiency in buildings. This will be achieved by creating in partner countries, generally in Europe, an accessible training approach enriched by an e-Learning platform, visual elements simulations and interesting practices in building industry.

EnEf workprogramme

Here the details of the EnEf tasks, organized around twelve work packages (WP)

WP1: Project Management	WP2: Development of Methodology of Analysis	WP3: Collection of information	WP4: Analysis of results
<p>T1.1: Daily management and coordination</p> <p>T1.2: Organization of kick-off meeting</p> <p>T1.3: Development of Information Package for each partner.;</p> <p>T1.4: Creation of an evaluation and tracking system;</p>	<p>T2.1: Definition of analysis procedures;</p> <p>T2.2: Definition of methodology and detailed planning;</p> <p>T2.3: Development of methodology for the elaboration of reports;</p> <p>T2.4: Development of analysis tools: interviews and questionnaires;</p> <p>T2.5: Search of bibliography, search of related and relevant documentation;</p>	<p>T3.1: Identification of target groups in each Region involved according to the methodology developed in WP2;</p> <p>T3.2: Distribution and recompilation of interviews and questionnaires;</p> <p>T3.3: Production of regional reports about training needs of SMEs of the building industry for the energy efficiency of buildings;</p>	<p>T4.1: To carry on an analysis of all the results collected through the previous WP3;</p> <p>T4.2: To produce a report on analysis results, to be used to direct the work of WP5;</p> <p>T4.3: Translation of the materials produced in the WP into English;</p> <p>T4.4: To monitor the activities foreseen in the WP.</p>

EDITION

01

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EnEf Project Newsletter



LLP – Leonardo da Vinci, Development of Innovation



EnEf

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European Legislation

On 18 May 2010 a recast of The Directive on energy performance of buildings (2002/91/EC) was adopted in order to strengthen the energy performance requirements and to clarify and streamline some of its provisions.

The buildings sector represents 40% of the European Union's (EU) total energy consumption. Reducing energy consumption in this area is therefore a priority under the "20-20-20" objectives on energy efficiency.

Directive 2010/31/EU contributes to achieving this aim by proposing guiding principles for Member States regarding the the energy performance of buildings.

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WP5: Definition of Training Plan	WP6: Development of Training contents	WP7: Training Platform	WP8: Training Pilot test
<p>T5.1: Preparatory study for the report: definition and selection of training objectives, modules, case study, support aterials, expected results, didactic method.</p> <p>T5.2: Elaboration of the Training Plan;</p> <p>T5.3: Monitoring activity.</p>	<p>T6.1: Identification of support materials and contents (case-studies, best practices, etc)</p> <p>T6.2: Development of training modules (web-based and paper-based materials)</p> <p>T6.3: Development of support training materials and evaluation tools, such as questions, practical exercises and simulations;</p>	<p>T7.1: Creation of a Training Platform</p> <p>T7.2: Development of 3D virtual representations</p> <p>T7.4: One week of internal test by each partner organisation;</p> <p>T7.5: Organization of the intermediate meeting among partners in Spain.</p>	<p>T8.1: Definition of the methodology for the Pilot Test;</p> <p>T8.2: Selection of participants: at least 20 SMEs in each country involved</p> <p>T8.3: Organization of training;</p> <p>T8.4: Execution of training in each partner's Region;</p>
WP9: Training Evaluation	WP10: Dissemination of results	WP11: Exploitation of results	WP12: Quality Plan
<p>T9.1: Delivery of evaluation tools to all the participants involved in the Training Pilot Test;</p> <p>T9.2: Analysis of interviews and questionnaires and results evaluation</p> <p>T9.3: Identification of possible mistakes and possible improvements of training material and e-Learning Platform;</p> <p>T9.4: Collection of all information from partners;</p> <p>T9.5: Development of a Report of Training Evaluation;</p>	<p>T10.1: Production of paper-based and web-based publication materials</p> <p>T10.2: Publication of the project information on each partner's website web-site;</p> <p>T10.3: Organization of public events: Conferences, seminars and workshops in each participating region</p> <p>T10.4: Creation and periodical updating of a project webpage;</p> <p>T10.5: Organization of final partner meeting in Bulgaria.</p>	<p>T11.1: Identification of target groups</p> <p>T11.2: Partners use of the developed product;</p> <p>T11.3: Exploitation of the VET system;</p> <p>T11.4: Undertaking of all necessary actions related to the exploitation phase (presentation, conferences, audio-visual products etc.);</p> <p>T11.5: Elaboration of an exploitation plan and overall supervision</p>	<p>T12.1: Development of a detailed Quality Management Plan;</p> <p>T12.2: Daily monitoring of project progress and organization of monthly project consortium virtual meetings;</p> <p>T12.3: Undertaking of potential measures to correct deviation, in case they occur.</p>

Online Survey



The first step for the development of the EnEf Training Plan is the analysis of the target group training needs. The EnEf website hosts a section for the compilation of online questionnaires able to assess the lacks and needs of the target group. If you are a construction company based in Italy, Ireland, Slovakia, Germany, Greece, Spain or Bulgaria, please take part in the survey by filling in the questionnaire and by giving your contribution to the development of an effective and comprehensive training plan, based on the real needs of companies and allowing meaningful practical on-the-job learning. We would be most grateful if you would help us with our research.

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European SMEs facing Europe 2020

The construction sector has a clear responsibility and a specific commitment. Buildings are responsible for 40% of energy consumption and 36% of EU CO2 emissions. Energy performance of buildings is a key factor to achieve the EU Climate & Energy objectives, namely the reduction of a 20% of the Greenhouse gases emissions by 2020 and a 20% energy savings by 2020. Improving the energy performance of buildings is a cost-effective way of fighting against

climate change and improving energy security, while also creating job opportunities, particularly in the building sector.

The Directive on energy performance of buildings (2010/31/EU) is the main legislative instrument at EU level to achieve energy performance in buildings.

Under this Directive, the Member States must apply minimum requirements as regards the energy performance of new and existing buildings, ensure the certification of their energy performance and require the regular inspection of boilers and air conditioning systems in buildings.

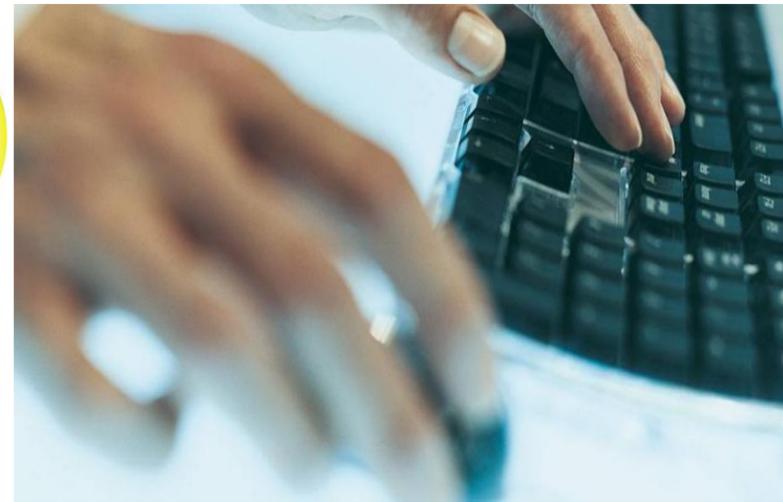


Energy efficiency in the building sector: a challenge, an opportunity

The topic of energy has never been more pertinent than now. Fears over security of supply, rocketing gas and oil prices and an increasing reliance on foreign sources are affecting everyone, but industry is perhaps being hit the hardest.

According to the Monthly Note of March 2011 by DG Enterprise and Industries of the European Commission, the construction sector output has still not started to recover after the crisis.

Data on construction output in the EU27 show that, compared to a month earlier, seasonally adjusted production rose by 0.8% in January 2011, after having fallen by 3.5% in December 2010.



Trend adjusted figures continue to indicate a negative growth, though. Data for the three-month-average, which are much less volatile, also show a contraction in output in comparison to the previous three months. Overall construction output fell by 3.1%, with civil engineering declining by 5% and buildings construction by 2,5%.

Thus it is too early to predict if the rebound in January is already an indication for a reversal of the negative trend. Business survival in lean economic times calls for innovation and efficiency. So it is clear that green building and remodelling is the one bright spot nowadays.

As energy prices rise, consumers are taking a greater interest in green building, and most European Governments are working to support green technologies, in order to comply with EU legislation. Green building offers a sustainable solution to our current economic and energy concerns that will reap benefits far into the future. Energy efficiency has traditionally been evaluated primarily on the direct basis of economic benefit of the investment. However, an increasing amount of studies have shown that "high performance/green buildings" can provide all of the following, depending on the measures incorporated and

Benefits for European SMEs

the type of occupancy:

- Strengthened competitiveness
- Reduced Operating Costs
- Lower Maintenance Costs & Extended Equipment Lives
- Increased Productivity
- Reduced Incidents of Building Related Sicknesses
- Increased Product Sales
- Reduced Impact on Municipal Infrastructure
- Higher Resale and/or Leasing Values & Marketability
- Decreased Building Product Waste Streams
- Increased Market For Recycled Content Materials
- Enhanced Environmental Quality & Decreased Pollution
- Leverage R&D investment on related projects and access large-scale funding programme (where applicable, depending on the country)
- Influence the EU R&D agenda to set up a continuous research programme.

The European Commission supports the Construction Sector

The construction sector is strategically important for Europe providing buildings and infrastructure on which all sectors of the economy depend. It is the biggest sectoral employer and a major contributor to Gross Capital Formation in Europe. Concerning the Construction activity itself, the focus is on the competitiveness of the sector, in particular by accompanying and encouraging actions from industry and Member States, not least in the field of sustainable construction and by promoting actions and supporting the development of common tools facilitating for companies and other actors to better adapt to the changes in the sector. Safety in construction and the free movement of services, engineering and construction services, are also an important policy priority, which is developed through the promotion of the Eurocodes and their implementation by the Member States (for more info http://ec.europa.eu/enterprise/sectors/construction/eurocodes/index_en.htm)

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 next two years. 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.

AGENDA:

- WELCOME
- PARTNERS' PRESENTATION
- WORKPROGRAMME
 - Overview
 - Presentation of the project handbook
 - Task division among partners
 - Timetable
- BUDGETARY AND FINANCIAL ISSUES
 - Budget
 - Payments
 - Justifications
- CLOSING
 - Next Meeting
 - Questions and further issues



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 platform 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, 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 - An applied research centre for interactive

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



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

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.

These tools will 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.

Moreover, 3D tools will 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.

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.

