



## Evaluation of the Energy Efficiency in the Building Sector

**Leonardo da Vinci Project  
510591-2010-LLP-FR-LEONARD-LMP  
EvEnEf**

<http://www.evenef.eu>

### Coordinator

 **INES Solaire, France**  
<http://www.ines-solaire.org/>  
Contact: Alain Guiavarch  
[alain.guiavarch@ines-solaire.fr](mailto:alain.guiavarch@ines-solaire.fr)

### Partners

 **Technical University of Sofia, Bulgaria**  
<http://tu-sofia.bg>  
Contact: Slavka Tzanova  
[slavka@ecad.tu-sofia.bg](mailto:slavka@ecad.tu-sofia.bg)

 **Eurocrea Merchant Srl, Italy**  
[www.eurocrea merchant.it](http://www.eurocrea merchant.it)  
Contact: Salvatore Iuculano  
[salvo.iuculano@eurocrea merchant.it](mailto:salvo.iuculano@eurocrea merchant.it)

 **Chambre des Métiers et de l'Artisanat de Savoie, France**  
[www.cma-savoie.fr](http://www.cma-savoie.fr)  
Contact: Stephane Bestenti  
[s.bestenti@cma-savoie.fr](mailto:s.bestenti@cma-savoie.fr)

 **Chamois Constructeurs, France**  
<http://chamoisconstructeurs.com/>  
Contact: Didier Demercastel  
[contact@chamoisconstructeurs.com](mailto:contact@chamoisconstructeurs.com)

 **MASHO EOOD, Bulgaria**  
<http://www.mashoeood.com/>  
Contact: Malenko Tzanov  
[malenko\\_tzanov@abv.bg](mailto:malenko_tzanov@abv.bg)



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

## Rationale

The EU Directive 2010/31/EU defines concrete goals for energy savings and energy efficient buildings. In the case of France, the building sector employs around 450 000 people, mostly in small companies. The new French building thermal regulation is completely new, but unfortunately it is not completely applicable if the professionals, who are in charge of the construction, are not ready to apply it.

Most of the construction processes which prevailed for the last three decades are not valid anymore, and the current practice must really change. Many decisions are made by entrepreneurs in small or medium size companies. They need complete and up-to-date information concerning the best practices, but they don't necessarily have enough time to follow face-to-face training.

The aim of EvEnEf project is to improve the knowledge of entrepreneurs and managers in the field of the energy efficiency in the building sector through innovative e-learning courses for continuing education.



## Objectives

1. Identifying and analysing the needs of labour market, of entrepreneurs, managers, engineers in the energy efficiency of buildings.
2. Selecting and analysing the e-learning innovative content to meet these needs and upgrade of the content with a course for evaluation of the energy efficiency.
3. Adapting, upgrading and implementing the EnEf e-learning materials to the legal framework, training system, language, and geography in France and in all partner countries.



# EvEnEf

ENERGY EFFICIENCY  
IN CONSTRUCTION



## Courses

- General concepts of energy efficiency (EnEf)
- EU legal framework on EnEf of buildings
- Building regulations and national context
- Heat insulation of external walls /facades/ of buildings
- Glazing in buildings from an EnEf viewpoint
- Installations in buildings from the EnEf point of view
- Improving of EnEf of flat roofs
- Evaluation of airtightness
- Building design, thermal inertia and thermal comfort
- Evaluation of building design
- Evaluating buildings and their system's EnEf after construction
- Renewable energy: photovoltaics, solar thermal technology and wood
- Efficient systems for heating and cooling
- Ventilation

<http://telearn.tu-sofia.bg/EvEnEf/>

<http://e-learning.ines-solaire.org/>

