

EnercitEE

European networks, experience and recommendations helping cities and citizens to become Energy Efficient

The EU Climate and Energy Package is considered to be the key to an energy efficient and low-carbon Europe. The three overall objectives have become generally known as the 20-20-20 targets: a 20 % cut in emissions of greenhouse gases by 2020, compared with 1990 levels; a 20 % increase in the share of renewable energies; and a 20 % cut in energy consumption.

The aim of EnercitEE is to practically implement the EU targets on energy efficiency. The project, which is carried out under the EU programme INTERREG IVC, builds upon experiences and existing networks from the forerunner project energy' regio.

EnercitEE identifies, analyses and transfers best practices, fosters the exchange of experience and carries out light pilot implementation to increase the level of energy efficiency of local authorities and their citizens.

Practical guidelines and policy recommendations produced within EnercitEE provide valuable assistance for other European regions aiming to improve their energy performance and policies.

RIEEB Partner Regions

1 Saxony
Germany

2 Småland / Blekinge
Sweden

3 Lower Silesia
Poland

4 Haute-Savoie
France



Partners

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Detailed information:

www.enercitee.eu/Sub-Projects/RIEEB



Regional Impact with Energy Efficient Buildings

LANDESAMT FÜR UMWELT,
LANDWIRTSCHAFT
UND GEOLOGIE



Scope

The building sector uses 40 % of the total EU energy, so achieving the climate objectives without a dramatic reduction in energy consumption in buildings is not possible.

Around 85 % of this energy is spent on heating and hot water. It is, therefore, important to reduce energy consumption and increase the use of energy from renewable sources in the building sector in order to reduce the European Union's energy dependency and greenhouse gas emissions. The main problem in the participating partner regions is the practical implementation of international or national regulations.

There is a need to establish more tangible actions to make use of the huge unrealised potential for energy savings in buildings and reduce the large differences between the results of member states in this sector.

Our Objectives

Within RIEEB, external experts will review the national regulations on energy efficiency of buildings in more than 20 buildings in the partner regions, including different building categories. The results of the analysis will highlight the discrepancies between calculated values and actual values. The international and interregional exchange of experiences about different national models will generate knowledge that will result in improvement of existing methods. The results of RIEEB will have a direct and indirect influence on the development and improvement of the Energy Performance of Buildings Directive and regional calculation models. Policy recommendations will be developed highlighting how the objectives of the European Buildings Directive can be implemented at national level to achieve the climate protection goals of the EU.

Regional approach

Saxony (Germany)

- investigation of a least 4 public buildings in the Free State of Saxony by external experts
- analysis of the input data of the building used to issue the energy performance certificate and verification of the results stated in the certificate
- on-site visits to the buildings to check correspondence between specifications given in the energy performance certificate and the building certified

- organize 4 regional events for relevant target groups
- organize international kick-off conference

Småland / Blekinge (Sweden)

- Independent energy consultants will examine a number of schools, commercial offices and residential buildings to produce a number of benchmarks
- these benchmarks can then be used by local authorities and builders when discussing the merits of new projects
- activities are organized in cooperation between the university, municipalities and the regional association network
- establish website for publication of regional best practices
- organize 4 regional events for relevant target groups
- organize mid-term international conference

Lower Silesia (Poland)

- external experts will review the retro-fitting of 13 municipal buildings as a part of the Local Renovation Programme in an old industrial area
- support by thermographic measurements of all buildings
- check the potential to use renewable energy sources for heating and providing hot water
- model project to show-case best practices of energy saving in renovation of old social housing
- regional seminars for local governments, managers, administrators and users of buildings
- final international conference for regional partners

Haute-Savoie (France)

- Compare 3 existing buildings with 3 recently built buildings (e.g. CAUE Headquarters) in order to promote low consumption and installation of better technical systems
- benchmark measurements on all buildings
- detection of thermal bridges (by use of infra-red camera), lighting level, ventilation quality, air quality, machinery adjustments and overheated sectors (summer comfort)
- analysis of recently built "low-energy" buildings includes assessing the actual performances, detecting design flaws (e.g. unexpected thermal bridges, insulation or sealing failures) and control weaknesses
- a report of findings as well as recommendations for improvements and training sessions will be provided to the owners of each buildings

Main Output

RIEEB will help local authorities and citizens improve their knowledge about the energy efficiency of buildings in their area, resulting in reduced energy demand and co2-emissions. Architects, engineers, construction companies and builders in the participating regions can benefit from knowledge and experience transfer within RIEEB. The know-how on energy advisory approaches and energy efficient construction of new buildings and refurbishments of existing buildings will provide future business opportunities and jobs.

Summary outputs:

- develop a plausibility tool for urban and regional planning departments or building experts (architects, engineers) to enhance the efficient enforcement of regional regulations in building authorities (Saxony region)
- organize 3 international conferences including study visits for exchange, adaptation and evaluation of activities
- organize 2 to 4 training sessions or workshops for relevant target groups with approx. 30-50 participants in each region.
- establish an interregional network for the international exchange of experience with a best practice catalogue
- publish press releases and EnercitEE newsletter articles
- publish a sub-project brochure with the results of the regional analytical investigation in different languages
- create a regional online platform for the administrators of public building in Haute-Savoie to organize information about the good practices



The CAUE Headquarters (center of Annecy)