



Strategic project **MARIE**

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Strategic project MARIE

Mediterranean Building Rethinking for Energy Efficiency Improvement (MARIE)

Start: **2011**

End: **december 2014**

Budget= **5.913.880,00 EUR**

23 partners (from **9** countries: Italy, Spain, France, Malta, Cyprus, Portugal, Slovenia, Greece, Montenegro)



MAIN OBJECTIVES

1. To develop and adopt new regulatory requirements and new institutional tools to achieve the goals established by the new European Directive (EPBD, October 2012).
2. Find new financial mechanisms that can be used to stimulate the thermal rehabilitation of buildings.
3. Give further support to local businesses, in particular SMEs, so as to provide them with appropriate products and services for energy renovation of buildings

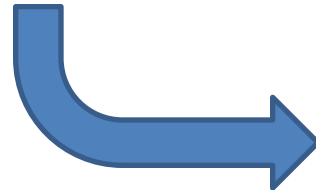
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PROJECT RESULTS

1. To develop and adopt new regulatory requirements and new institutional tools to achieve the goals established by the new European Directive (EPBD, October 2012)

POLICY PAPER for Improving MED transnational cooperation answers to Energy Efficiency challenges in buildings

POLICY PAPER



**Ljubljana
Declaration**

Main messages and policy recommendations of the Policy Paper have been gathered in a political document, the **“LJUBLJANA DECLARATION”**, signed by the lead partners of the three projects in October 2013 (MARIE, PROFORBIOMED and ELIH) representing more than 60 MED partners



9 MED Regions will officially assume MARIE Road Map (MARIE energy renovation strategies) to develop regional strategies for energy renovation in buildings.

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PROJECT RESULTS

2. Find new financial mechanisms that can be used to stimulate the thermal rehabilitation of buildings

Third party financing mechanisms

- Awareness raising among local stakeholders on alternative financial mechanisms for energy efficiency improvement in buildings
- Development of TPF implementation framework and procedures
- Involvement of ESCOs for the pilot implementation of the TPF mechanism
- Improvement of data availability on energy consumption of buildings during pilot implementation, which will help identify the possible energy interventions, improve energy efficiency and consequently reduce the energy consumption and the existing energy costs.

Public Private Partnership (PPP) Mechanisms

- A tool for meeting public demand by private supply

The goal was to increase demand for energy efficient renovation of buildings of the Mediterranean territory by creating a methodology to develop regional investment plans for energy renovation of existing buildings by means of integrating all agents involved, in order to assure that the proposed plan is feasible, considering also the special case of districts with low-income residents.



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PROJECT RESULTS

3. Give further support to local businesses, in particular SMEs, so as to provide them with appropriate products and services for energy renovation of buildings

Regional benchmark analysis for the supply side:

- to help enterprises to participate in their local market of energy refurbishment of buildings, accomplishing also with the local, national and EU expectations and standards
- to make a survey on products, technologies and services that MED enterprises, and in particular SMEs, are offering to the market

Regional Benchmarking Analysis Of the Demand Side For Energy Efficiency in Buildings:

- Building stock in the participating regions
- Energy consumption/ efficiency per type of building and corresponding indicators and trends
- Legislation (national/ regional) related to energy efficiency in buildings
- Financial schemes (national/regional) for energy efficiency in buildings
- Regional barriers to energy efficiency improvement

“MED Buildings Energy Efficiency Strategy (MEDBEES)”, which will propose measures to promote energy refurbishments in the existing building stock.

The **MARIE Associated Partners Platform (APP)** was created in March 2012 → facilitate the communication and consensus between public and private organizations related to energy efficiency of buildings, exchange of information, opinion...

Pilot buildings in Brda Municipality

Elementary school Kojško



Elementary school Dobrovo



Municipal building Dobrovo



The main objective:

- reduce the energy consumption (make them more energy efficient and consequently to reduce the CO2 emissions)
- increase the use of renewable energy sources within the pilot buildings
- identify the new financial models in order to accelerate the refurbishment of public buildings (third part financing – ESCO model).



GOLEA activities on pilotnih buildings

- Energy audits of selected buildings
- Cost benefit analysis of possible investments for improvement of EE
- Collection and monitoring of data on energy performance of buildings (Introduction of Enais and MTT technique)
- Application of display table for presentation of energy consumption of the selected buildings
- Energy certificates elaboration
- Definition of organisational and operational framework of TPF mechanism (general ESCO model elaboration)



A model is a base documentation for a Slovenian Ministry of Infrastructure and Spatial Planning → guidelines for energy performance contracting and encourage the financing of sustainable energy investments through third parties on the basis of energy savings.

Energy refurbishment of municipal building in Dobrovo

GOLEA activities – energy refurbishment of municipal building in Dobrovo

No grants and no sufficient municipal resources were available ———> energy refurbishment on the principle of contractually guaranteed savings (EPC - Energy Performance Contracting) through energy service companies (ESCOs - Energy Service Company)



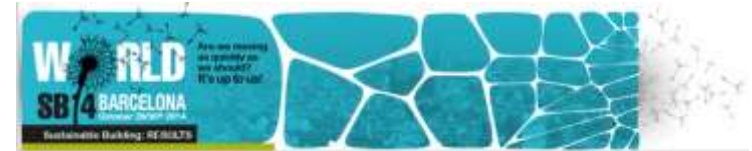
Upgrade of idea (innovative approach)

Through the public call the Municipality of Brda entrusted the management of three public buildings (on the principle of Energy Performance Contracting) : municipal building at Dobrovo, Elementary school in Dobrovo and Elementary school in Kojsko all in one package, so that the total savings achieved are also used for the implementation of planned measures at the municipal administration building.

In September the ESCO contact was signed. The savings in all three buildings ———> **49.641,37 EUR** (the energy costs will decrease from € 90,162 to € 41,856,25)

FINAL EVENT in BARCELONA

Barcelona, 28th - 30th October, 2014
Palau de Congressos de Catalunya



In the framework of the World Sustainable Building Congress, MARIE partners are organising a

Final Event

28 October

Technical project results

Slovenian ESCO contractor will present the energy refurbishment of municipal building in Brda

29 October

Governance proposals

Dedicated to visualize the overall agreement between public and private Mediterranean organisations around a common strategic approach to face the Energy Renovation of Buildings

30 October

Political session