


Workshop in Zagreb, 5 April 2011  
Sustainable Energy Action Plans in Croatia

**Lessons from the IEE projects  
ClearSupport and ENERREG  
as how to develop SEP investments**

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## Scope of presentation

- Presenting two IEE projects, ClearSupport and ENNEREG, that both entail a systematic approach on how to develop sustainable energy investments and seeking financing of those
- Informing about Good Practice and Lessons learned of the project activities



# ClearSupport addresses a 'classical' problem



The missing link !!



Financiers:  
Lack of trust in EE projects



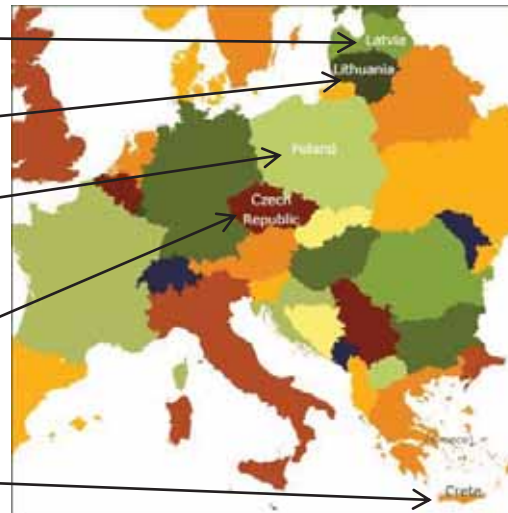
ClearSupport:  
Helping to  
bridge the gap

Financiers:  
Get confidence in  
EE projects



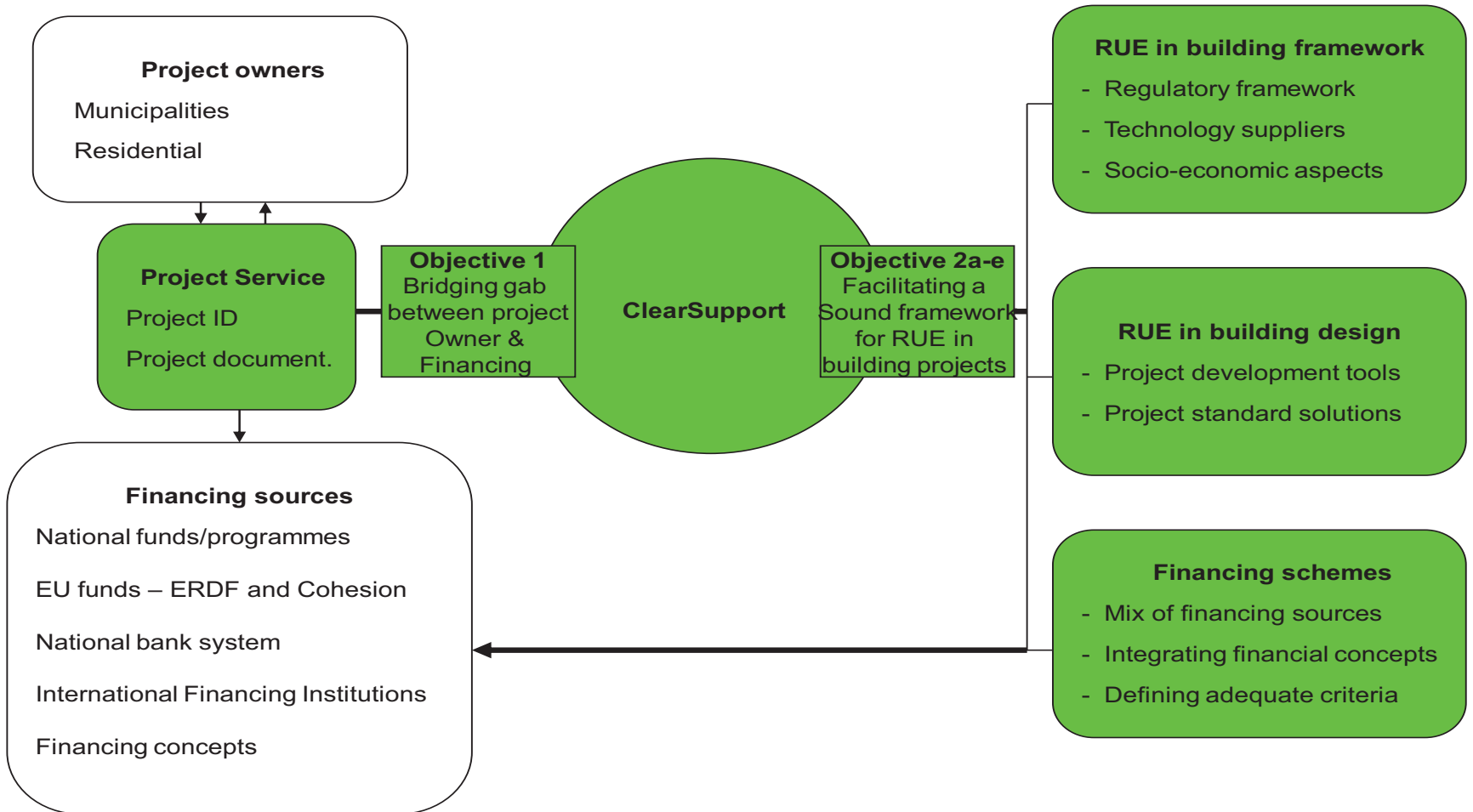
## ClearSupport – introduction

- Can be considered a **pilot initiative** on a systematic approach on enabling energy efficient building investments – public, residential and private sector
- This has been done in the form of operating 5 Project Service Facilities/**PSFs** in
  - Latvia
  - Lithuania
  - Poland
  - Czech Republic
  - Crete



ClearSupport was running from 2007 to the end of 2009 involving thirteen partners

# ClearSupport – Scope of intervention



## Heart of the action: PSFs delivering multi-disciplinary services

Services to bridge the gap

Local and national  
Government/policy

Financing  
institutions

ESCOs etc.

Support  
Information  
Project preparation  
Preparation of applications  
Consulting  
Education  
Analyses

Public house  
owners

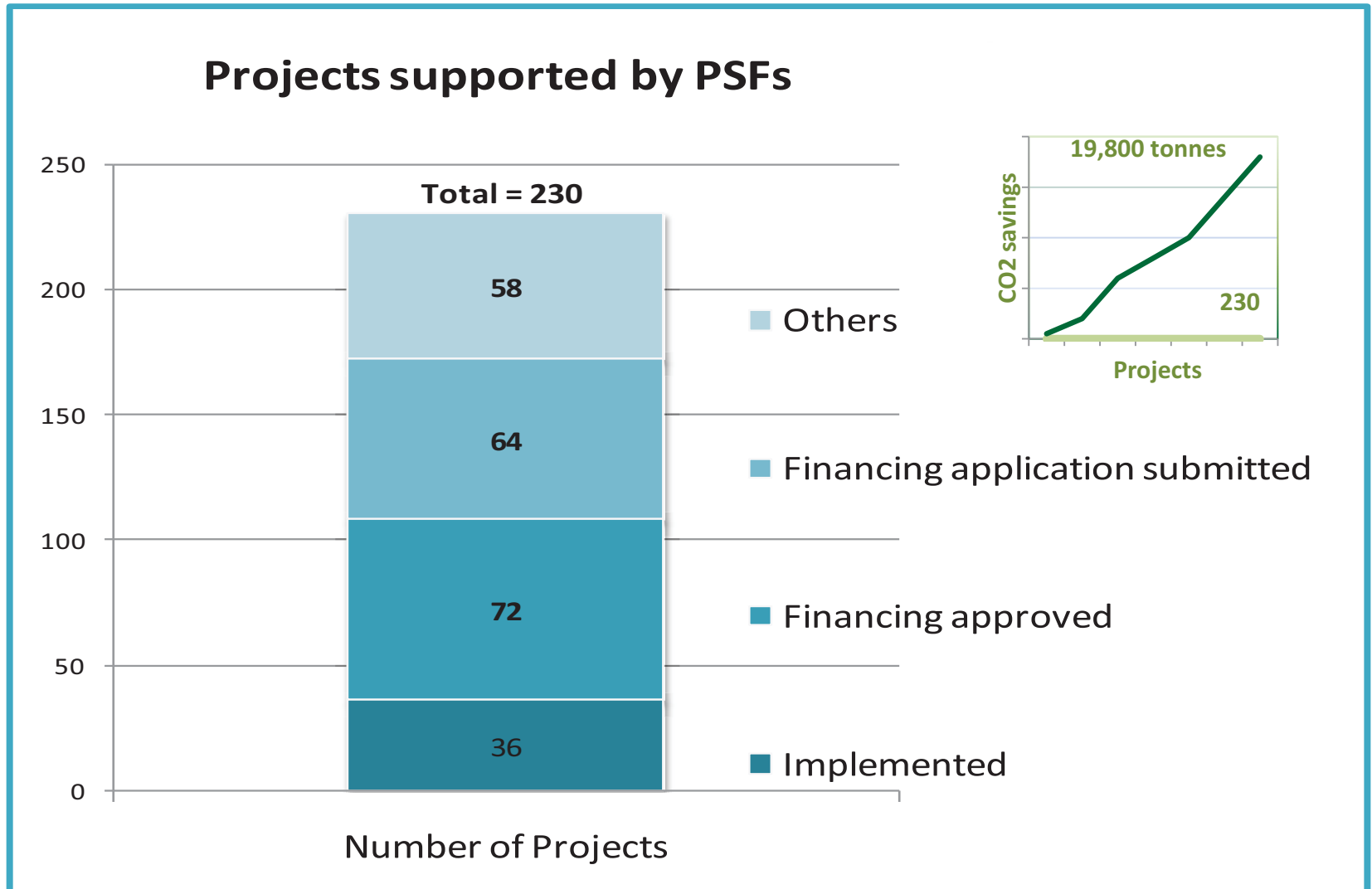
Residential house  
owners

The ambitious goal was to support the initiation of  
**100-200 specific building renovations** in the 5 target regions

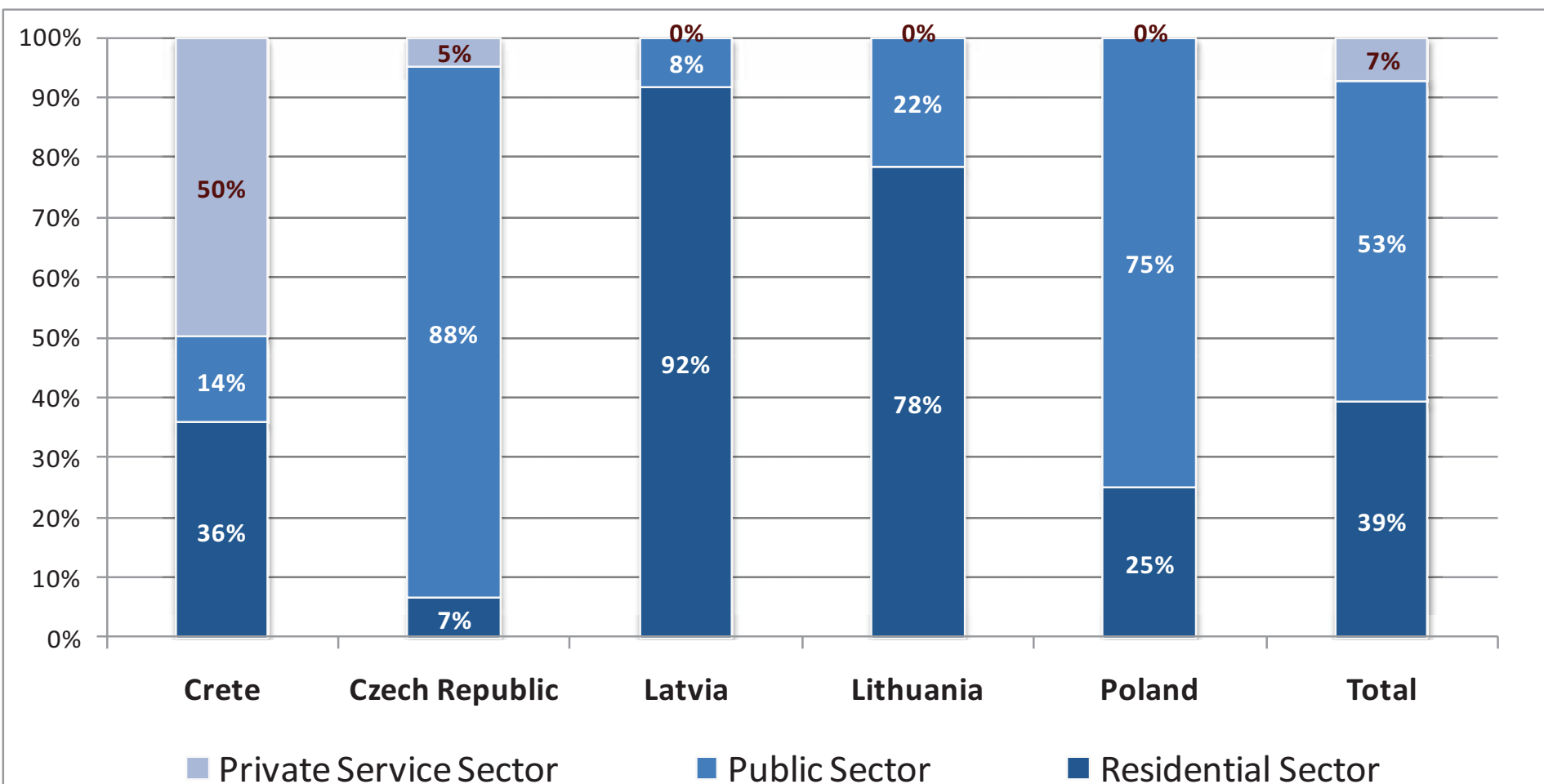
# ClearSupport: Achievements



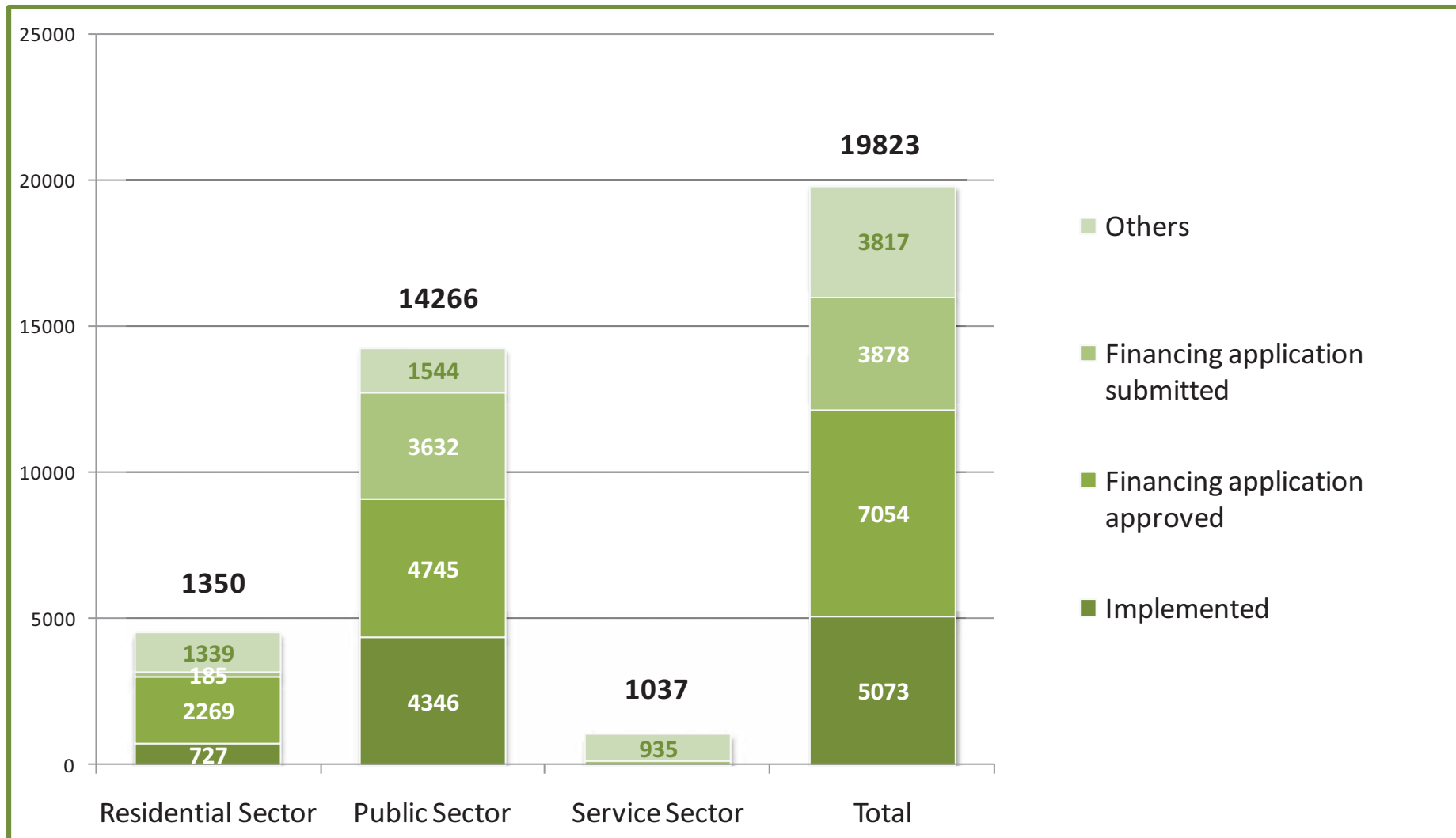
## The PSFs initiated 230 investments



## Supported projects divided on sectors



## CO<sub>2</sub> reduction from supported projects



## CO<sub>2</sub>/energy savings contra investments

| Indicators                 | Residential Sector | Public Sector | Private Service Sector | Total         |
|----------------------------|--------------------|---------------|------------------------|---------------|
| <b>Number of projects</b>  | 90                 | 123           | 17                     | 230           |
| <b>Investments - MEUR</b>  | 19.52              | 44.19         | 1.15                   | 64.86         |
| <b>Energy savings -MWh</b> | 19,802             | 52,137        | 1,213                  | 73,415        |
| <i>-Heat</i>               | <i>19,768</i>      | <i>52,120</i> | <i>1,088</i>           | <i>73,152</i> |
| <i>-Electricity</i>        | <i>34</i>          | <i>17</i>     | <i>125</i>             | <i>176</i>    |
| <b>CO2 savings -Tonnes</b> | 4,519              | 14,266        | 1,038                  | 19,824        |
| <b>MEUR/Project</b>        | 0.217              | 0.359         | 0.068                  | 0.282         |
| <b>EUR/MWh</b>             | 985.5              | 847,7         | 950.3                  | 886.7         |
| <b>Tonnes CO2/Project</b>  | 50.2               | 116.0         | 61.0                   | 86.2          |
| <b>EUR/CO2</b>             | 4,317.8            | 3097.8        | 1,111.2                | 3,271.9       |

# ClearSupport: Good Practice from the Municipal Building Sector



## **Initiatives in Czech Republic - Combination of financing instruments**

**General possibilities of financing projects in local energy:**

- own sources (usually unreal)
- bank credit
- subsidies
- energy service provision



**Financing Model from Czech Republic:**

**Combination of both forms, subsidies /funding for energy saving projects and**

**building owner/third party co-financing in range 20-40% of total investment**

## GP example – Renovation of 15 schools in one part of Prague



- reconstruction of technology equipment by EPC  
**investment 1,6 – 2,4 MIO EUR**  
(financing from future energy saving operational costs)
- insulation of building + exchange of windows  
**investment 10 MIO EUR** (co-financing by subsidy from OPE)

**Co-financing by owner of the schools only up to 28 %**

## Financing of the 60 projects initiated in Czech R

| Type of project      | Sector                 | No                    | Source of financing   |
|----------------------|------------------------|-----------------------|---|
| Implemented Projects | Residential sector     | 2                     | Own financial resources   |
|                      | Public Sector          | 7                     | Operational Programme of Environment                              |
| Other projects       | Residential Sector     | 1                     | Local bank loan   |
|                      |                        | 1                     | Own financial sources   |
|                      | Public Sector          | 22                    | Operational Programme of Environment                              |
|                      |                        | 19                    | Operational Programme of Environment combined with ESCO contracts |
|                      |                        | 5                     | Own financial sources   |
|                      | Private Service Sector | 1                     | Local bank loan   |
| 2                    |                        | Own financial sources |   |

# ClearSupport: Evaluation of the Intervention



## PSF Achievements – Project Investment Support

The main drivers for initiation of the projects have been:

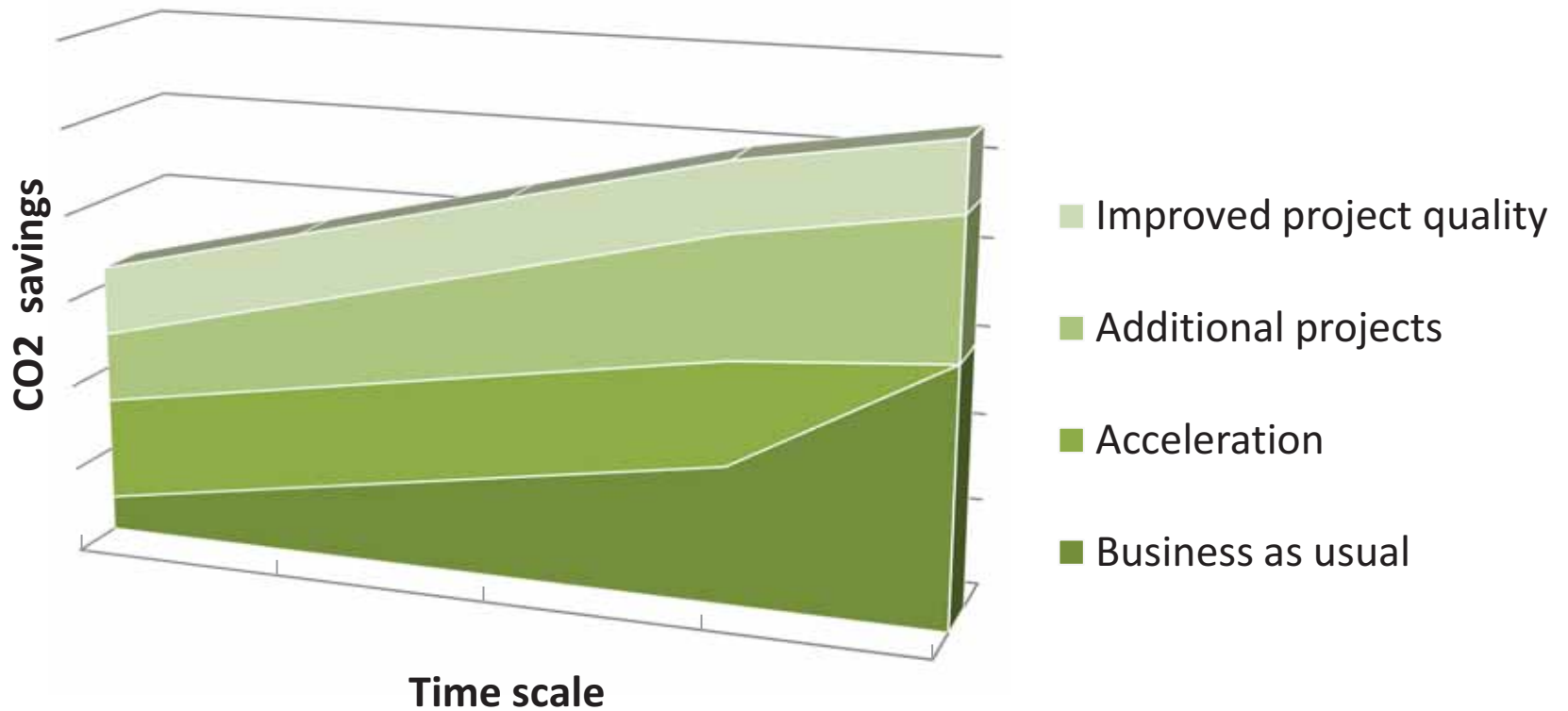
- The availability of PSF services in terms of technical, legal and financial advice
- Awareness raising activities carried out by the PSFs
- Availability of proper financing schemes
- High consumption of energy and the related high energy costs

The PSF activities has ensured that the number of applications to the available financing programmes has accelerated and that financing applications are of sufficient quality thereby:

- reducing front-up costs, as well as
- the time needed to consider applications



## Impact from the PSF Action



## ClearSupport:

# Lessons learnt - Prospects for replication



## Key Lessons Learned

- ✓ Targeted and coordinated assistance to energy efficiency projects can significantly accelerate the identification and the implementation of these
- ✓ Local support combined with exchange of know-how and experience in an European Network can contribute to improve the quality of project documentation and implementation
- ✓ Experience from the PSF process can contribute to develop framework conditions in RUE projects at the local level as well at the EU level (pro-active efforts from the PSFs)



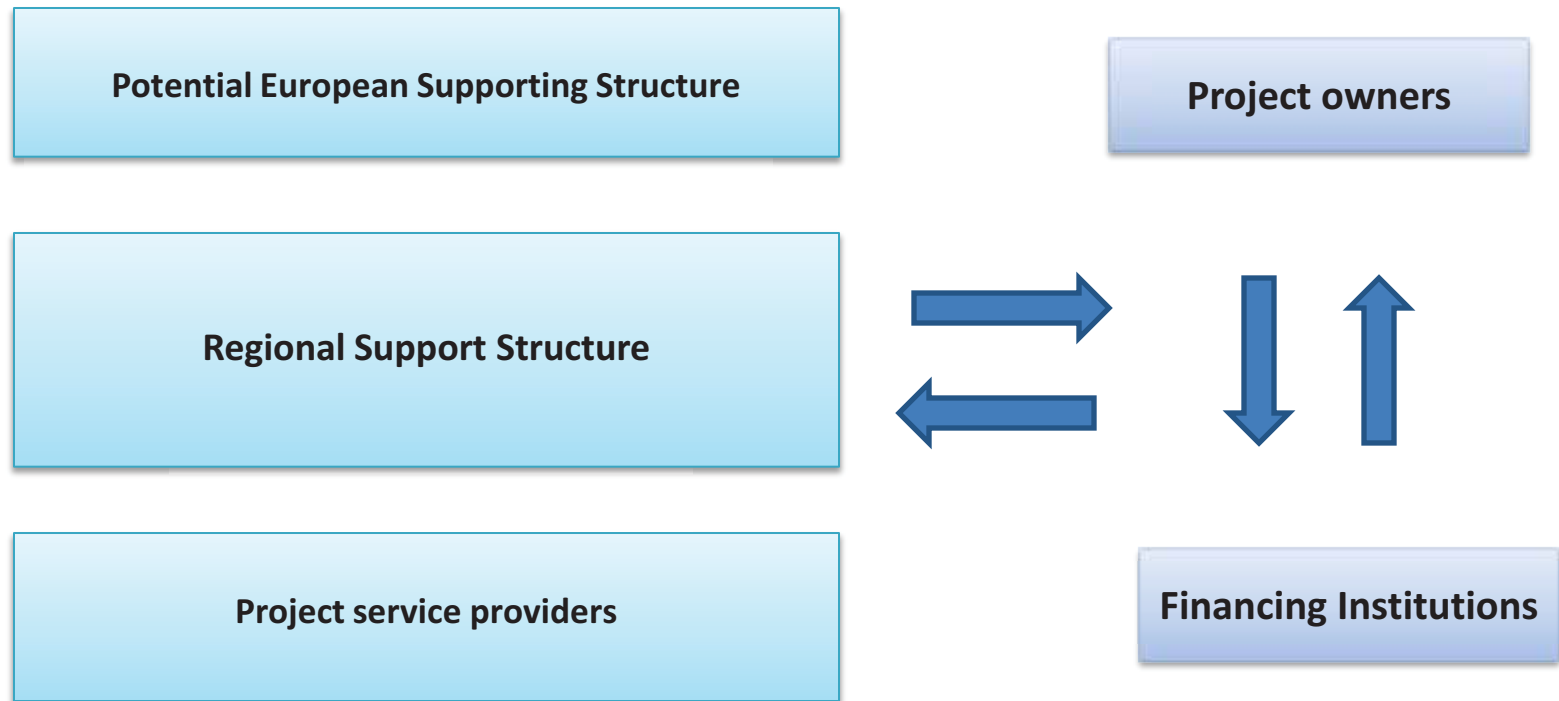
## The role of the PSF in relation to the project cycle



- **Project identification**
- **Project initiation**
- Support to the further steps along the project cycle
- **Analysis of project feedback**

The project implementation might succeed without PSF intervention

## Recommended structure on promoting investments



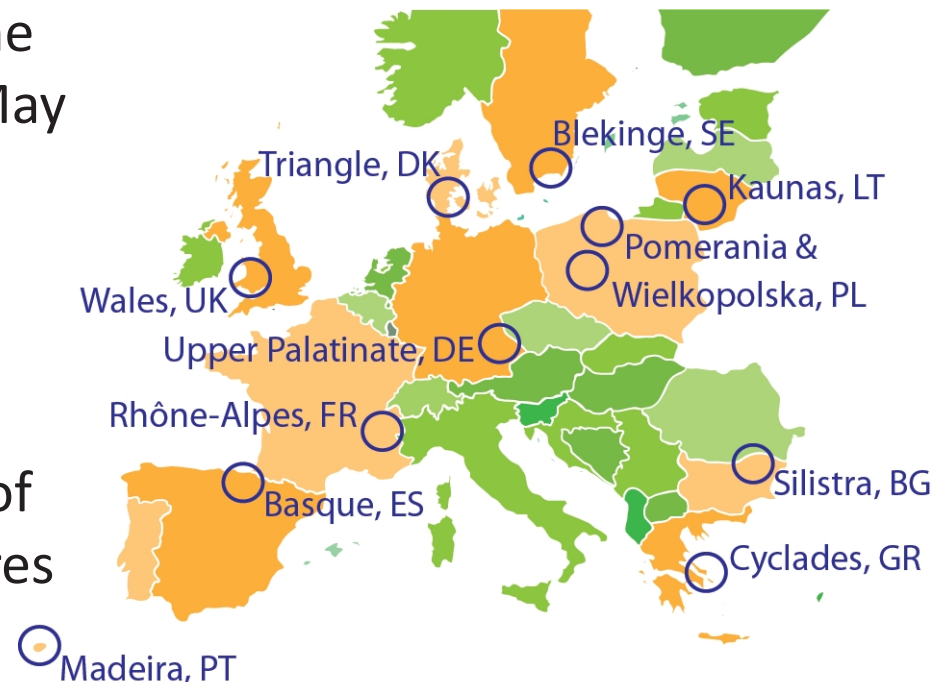
Covenant of Mayors and associated financial schemes are leading in direction of such structure, but much is still to be done

# Introduction to the ENNEREG Project

ENNEREG is a project supported by the Intelligent Energy Europe running 1 May 2009 - 1 May 2013

Overall objective:

- Develop sustainable energy action plans for European 12 regions in conjunction with implementation of specific sustainable energy measures



# Intervention in Partner Regions

## ENNEREG Intervention

- Helping to fine-tune the region's goals and actions & engaging stakeholders
- Fostering investments and end-use measures via targeted assistance

Build on the lessons learned from ClearSupport and other actions

## ENNEREG Regions: Starting point

- Existing regional goals & action plans
- EU, national and local energy programmes
- Ongoing activities in the region's communities
- Existing competences & experiences
- Stakeholders in both public and private sector
- Etc.

**Thematic Focus:** e.g. energy efficient buildings, renewable energy, sustainable transport, IE education, etc.

# ENNEREG: Three Levels of Activity

## Action in ENNEREG regions

- Regional **vision and goal setting** and stakeholder involvement
- Formulating **action plan** both short- and long-term
- Fostering **specific investments and end-use measures**
- Extracting **good practice and lessons learnt** for other regions

## Replication

- Guidance on **sustainable energy practice at the regional level** based on the experience from the ENNEREG regions
- **Direct assistance** on how other regions can take up the challenge in the form of a hands on twinning programme

## EU Regions 2020

- **Enabling environment** for implementation in EU Regions
- **Joining stakeholders** at broad European level

# Inspiration Guide

## Step-by-Step Guidance on:

- Creating a **Sustainable Energy Action Plan (SEAP)**
- Funding & Implementing **Sustainable Energy Projects (SEPs)**
- **Very Best Examples** of Experiences, Actions, Good Practice & Lessons Learnt
- **Thematic focus**  
e.g. sustainable transport, street lighting, energy efficient buildings, etc.

**Multimedia Inspiration Guide**  
incorporating publications, video, animations, image library, etc.

*linked to:*  
Searchable **Database** of Experiences and Actions

*based on input from:*  
**EU Regions 2020 Network Members Experience Exchange**

# Replication of results

## Sharing experiences

- Ensure that the experience obtained in the course of the ENNEREG action is passed on to other regions in a 'hands on' manner.
- Twinning arrangements between partners of ENNEREG and regions outside the consortium in order to replicate the action's most promising approaches and concepts.
- Involvement via meetings and workshops with ENNEREG and other European energy networks.

# Giving Guidance and Assistance

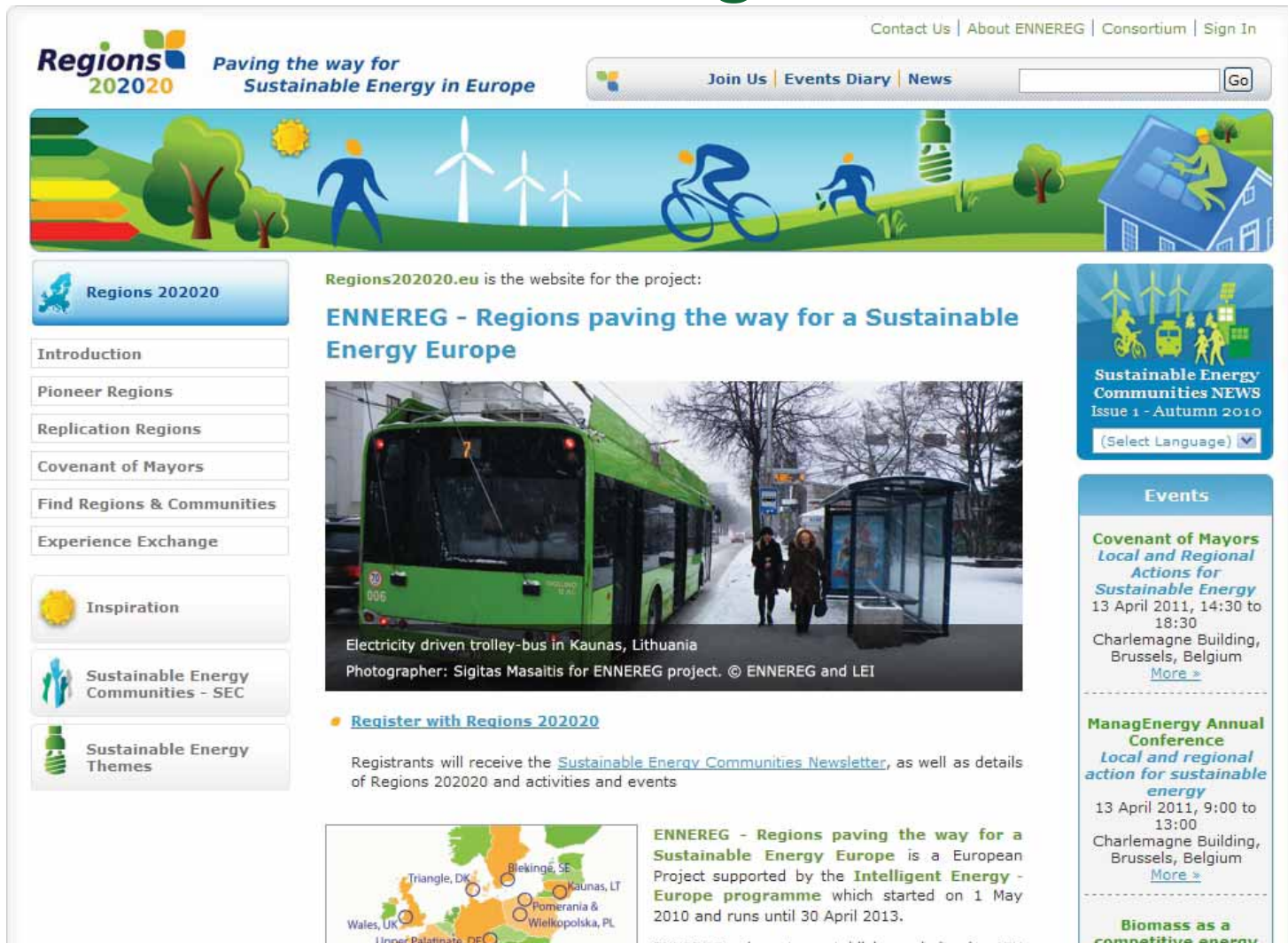
## Replication

- **Giving guidance** on sustainable energy practice at regional level based on the experience from the activities in the ENNEREG
- **Direct assistance** on how to take up the low carbon challenge in the form of a 'hands on' twinning programme.

## Added value for Replication Regions

- **First-hand experience with CIP IEE programme** together with experienced consortium without committing directly to a three-year project
- **12 regions will be chosen for twinning activity** and "get free" input to THEIR regional challenges on implementing sustainable energy plans.
- During the life-time of the project the **ERRIN ECCWG** will be invited to give input, share experience, knowledge, participate in meetings etc, familiarize themselves with other European Energy Networks in Brussels (eg. Fedarene, Energie-Cités, Climate Change Alliance, EREC).

# Follow us at [www.regions2020.eu](http://www.regions2020.eu)



The screenshot shows the homepage of the Regions2020.eu website. At the top, there is a navigation bar with links for 'Contact Us', 'About ENNEREG', 'Consortium', and 'Sign In'. Below this is a search bar with 'Join Us', 'Events Diary', and 'News' buttons, and a 'Go' button. The main header features the 'Regions 2020' logo and the tagline 'Paving the way for Sustainable Energy in Europe'. A large banner image depicts various sustainable energy and lifestyle icons: a sun, wind turbines, a person walking, a person on a bicycle, a person carrying a solar panel, and a person on a roof. Below the banner, the main content area is divided into several sections:

- Regions 202020**: A blue button with a map of Europe icon.
- Introduction**: A white button.
- Pioneer Regions**: A white button.
- Replication Regions**: A white button.
- Covenant of Mayors**: A white button.
- Find Regions & Communities**: A white button.
- Experience Exchange**: A white button.
- Inspiration**: A white button with a sun icon.
- Sustainable Energy Communities - SEC**: A white button with a person icon.
- Sustainable Energy Themes**: A white button with a lightbulb icon.

The central text area reads: 'Regions2020.eu is the website for the project: **ENNEREG - Regions paving the way for a Sustainable Energy Europe**'. Below this is a photograph of a green electricity-driven trolley-bus in Kaunas, Lithuania, with the number '006' on its front. The caption states: 'Electricity driven trolley-bus in Kaunas, Lithuania. Photographer: Sigitas Masaitis for ENNEREG project. © ENNEREG and LEI'. A 'Register with Regions 202020' link is provided, with a note that registrants will receive the 'Sustainable Energy Communities Newsletter'.

On the right side, there are two promotional boxes:

- Sustainable Energy Communities NEWS Issue 1 - Autumn 2010**: Includes a 'Select Language' dropdown menu.
- Events**: Lists two events:
  - Covenant of Mayors Local and Regional Actions for Sustainable Energy**: 13 April 2011, 14:30 to 18:30, Charlemagne Building, Brussels, Belgium. Includes a 'More >' link.
  - ManagEnergy Annual Conference Local and regional action for sustainable energy**: 13 April 2011, 9:00 to 13:00, Charlemagne Building, Brussels, Belgium. Includes a 'More >' link.

At the bottom left, a map of Europe highlights participating regions: Triangle, DK; Blekinge, SE; Kaunas, LT; Pomerania & Wielkopolska, PL; Wales, UK; and Upper Palatinate, DE. The bottom right text states: 'ENNEREG - Regions paving the way for a Sustainable Energy Europe is a European Project supported by the Intelligent Energy - Europe programme which started on 1 May 2010 and runs until 30 April 2013. ENNEREG aims to establish and inspire EU...

## Perspectives for Croatia

- The systematic approach on putting in place a mechanism for initiation of energy efficient building measures could be applied in Croatia
- Regions and other actors in Croatia could interact with the IEE ENNEREG, where 12 European regions cooperate on sustainable energy action plans and do twinning/replication with further regions – sign up at [www.regions202020.eu](http://www.regions202020.eu)

**Thank you for your attention !**

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