



11 PARTNERS

4 EUROPEAN COUNTRIES

Lead Partner:



Poltegor – Institute
Parkowa 25, 51-616 Wrocław
POLAND

Project Partners:

Wrocław, Poland
Marshall Office
of the Lower Silesia Region



Ptuj, Slovenia
E-zavod



Prague, Czech Republic
PORSENNA o.p.s.



Brno, Czech Republic
Local action group Moravian Karst



Kassel, Germany
KEEA Climate and Energy
Efficiency Agency



Niestetal, Germany
Parish council of Niestetal



Wrocław, Poland
Institute of Power System
Automation Ltd.



Baunatal, Germany
City of Baunatal



Cölbe, Germany
Parish council of Cölbe



Wrocław, Poland
Wrocław University of Technology



Wrocław University of Technology

40

Measures in the field of energy conservation and renewable energy sources in the online catalogue

40

Best practices from Slovenia, Germany, Poland and the Czech Republic catalogued

10

Energy concepts for municipalities

3

Pilot activities: wind, biomass, hybrid power plant

2

Handbooks



Visit the ENERGYREGION website
www.energy-region.eu

**Effective development of dispersed renewable energy
in combination with conventional energy in Regions**

For further information, please contact:

Barbara Rogosz

Project Manager

Poltegor – Institute

barbara.rogosz@igo.wroc.pl

+48 71 348 82 34

**We seek for solutions that will
improve energy security in our region
and let us live in healthy environment**

General Information:

Participating countries: **Czech Republic, Germany, Poland, Slovenia**

Total Budget: **2 617 600.00 €**; Duration: **39 months**



This project is implemented through the CENTRAL EUROPE Programme co-financed by the ERDF.

Communities' energy for better climate and local development

Wind, solar, biomass, hydropower and geothermal sources can provide renewable power, helping to make local communities more energy self-sufficient.

Generating energy from local sources and creating local energy infrastructure is promoted by ENERGYREGION, a project carried out in four European countries - Poland, Czech Republic, Slovenia and Germany.

Along with investigating potential for renewable energy and energy savings, the ENERGYREGION focuses on developing solid and feasible regional and local strategies for renewable energy integration into existing energy systems. The ENERGYREGION has cooperated with some local authorities in order to encourage investment in energy infrastructure and energy saving. As green energy generation from local sources is a key challenge for the whole European society, other regions and countries, especially in central Europe, can surely benefit from the project results.

Renewable energy database

The ENERGYREGION supports an effort of promoting renewables by having energy needs and energy sources of various regions documented.

The focus were regions selected as the project's study areas: Opavsko and Moravian Karst in the Czech Republic, North Hessen, Germany, Lower Silesia Region, Poland and Podravje Region in Slovenia. The documented information such as installation's capacity and generated energy, basic technological characteristics, equipment, purpose of utilization is demonstrated in a user-friendly manner on maps accessed online.



3 Pilot activities

To investigate a potential for renewable energy and increase social awareness on sustainable energy systems several pilot activities related to wind, biomass and solar energy have been implemented:

- Two wind measuring systems that constantly monitored wind speed, wind direction, temperature and humidity has delivered a key input for wind resource assessment studies; such study is usually the first step on the way to wind power development in a study area.
- Activities recognizing biomass potential have led to identification of biomass combustion and gasification as efficient processes and promoted biomass utilization as a sustainable and effective renewable energy source.
- The installation of pilot hybrid power plant based on photovoltaic panel, vertical axis wind turbine and fuel cell represents a novel development in renewable technologies, which can be considered for application in cities.

10 Concepts for municipalities



Ten energy efficiency and renewable energy development concepts for municipalities have been shaped in order to strengthen rational energy management. The concepts are built on a relationship between energy demand and supply in a particular area, availability of local energy resources, needs of inhabitants and local economy characteristics.

2 Handbooks

To emphasize the important aspects of energy management at different levels the ENERGYREGION has delivered two handbooks:

- For households **“Energy saving at low or no costs”** - presents low-investment and non-investment methods of effective energy management based on a calculation of electricity, heat and motor fuel savings possible for an average two person household; cost savings are described by the amount of money saved per year.
- For municipalities and local authorities **“From energy management to energy security”** - shows how to contribute to energy security by a proper management at local levels and presents options independent from external energy suppliers; provides a comprehensive overview of good practice in engagement of local governments in energy management and guides readers through major considerations involved in the process of gaining more energy independence.



2 Catalogues

- **40** measures in the field of energy conservation and renewable energy sources are collected in the on-line catalogue of measures divided into four sections: Building structures, Technical devices and electrical appliances, Energy sources, Other measures. Each measure is specified by a relevant and comprehensive description in terms of their practical applicability.
- **40** best practices are collected in the on-line catalogue of best practice examples representing the measures in the field of energy conservation and renewable energy sources successfully implemented as “real life” projects.