



Promote the Sustainable Use of Renewable Resources and Energy Efficiency in Rural Regions

RURES sets to exploit the potential of renewable energies (RES) and energy efficiency (EE) in rural regions as they have a great potential for reaching energy autonomy.

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Energy efficient administrative building in Čakovec (Croatia)

Within the RURES project, Public Institution for the Development of the Međimurje County REDEA implemented pilot investment „Energy efficient administrative building in Čakovec where is installed several solutions for energy efficiency (EE) and renewable energy system (RES). Pilot investment is accessible to all interested stakeholders as well as for general public. The building in which the pilot investment has been implemented is situated in the ex-military complex in Čakovec, Medjimurje County where four public institutions have their offices.

Implemented pilot measures include:

- Solar collector system for hot water and heating support - three vacuum solar collectors with 10 pipes are installed (idle temperature of 286°C and mixture of water and glycol as a system medium). Alongside the collectors, accumulation tank of 200 l with two heating spirals is installed as well as solar pump for water circulation.

- Indoor lighting system - installed based on LED technology in all of the rooms in the building using existing fixtures. In the hallways and stairs, it is installed motion detectors to control illumination of those parts of the building.
- Smart metering system for all energy sources – with this installation, it is achieved that mentioned building is energy efficient. Electric power meter, gas meter, water meter and a calorimeter is installed. All meters are connected with Information system for energy management (ISGE).
- Replacement of inefficient kitchen appliances with new ones of A+++ energy class – In two kitchens in the building the following is installed: 2 refrigerators, 1 electric hob, 2 dishwashers, 2 microwave ovens and 2 electric kettles.

The results of this pilot investment will have a wide impact on raising awareness and it will also be used as a best practice example of an energy efficient public building that is using renewable energy sources in the rural area of Medjmurje County.







RURES is a project financed under the Interreg Central Europe programme that sets to exploit the potential of renewable energies (RES) and energy efficiency (EE) in rural regions as they have a great potential for reaching energy autonomy. Within RURES local support group composed of all relevant actors will be established acting as a regional energy network for implementing energy efficiency plans. Best-practices of alternative financing models for EE/RES measures will be researched and become the basis for new feasibility studies on how to implement energy efficiency plans. The calculator tool (for municipal taxes and other incomes) will highlight the importance of a community-oriented regional development and further underline the benefits and added value generated by exploiting EE/RES.

Internet: <http://www.interreg-central.eu/Content.Node/RURES.html>

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