



RURES

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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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Establishing a renewable energy-yard (Hungary)

It is foreseen to install Renewable Energy System (RES) power plants in a former school building, we've given them a new function for the building, plants are placed in the "Energy-yard", in order to demonstrate the utilization of RES. The aim of the community Energy-yard is stimulating the using of RES, educating and demonstrating it, spreading the application of the sustainable energy-consumption.

Pilot includes: smaller wind power plant; solar power plant; solar collector; vegetable oil fed mini power plant

The demonstration aim is solved by a display, which continuously indicates information concerning the operation of the objects of the project. The produced energy is used for community purposes. We intend to establish each element with a capacity that can represent a detached house of average size (100 m²) and average energy consumption of a usual family (2 adults, 2 children).

Solar cell system: average energy consumption 4400-4800 kWh/year

- power network feeding solar cell system, able to generate 4.000 kWh/year electric energy
- 16 pieces of the solar cells of 250W, perform generation of electric energy of 4.000 kWh/year,
- nominal capacity: 4 kWp

Solar cell system: average hot water consumption 50 liter/person/day

- establishing a solar collector of 10-16 m²
- complete system suitable for producing hot water of use and helping the heating
- capacity: 7 kW (10 m² collector surface) – 11,2 kW (16 m² collector surface)

Vertical wind generator:

- vertical wind generator of 1000W,
- Size: 1,8m wide x 2,7m high (settled 6 m above the surrounding landmarks)
- Maximum rpm: 180/min, production wind speed: 3m/s
- capacity: 1 kW

Vegetable oil fed mini power plant:

- small power plant operating with used vegetable oil
- capacity of 5 kW







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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