

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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Intelligent water metering in Pałecznicza Municipality (Poland)

Technological development in the water supply industry and in the area of remote monitoring of media consumption caused that the commune authorities consider the possibility of using smart metering and remote reading of water consumption. For this purpose, it was necessary to replace devices (water meters, valves, pressure gauges, etc.) for those that allow remote, automatic reading of data and give the ability to control network parameters from the control panel, through a computer or mobile device (i.e. tablet, smartphone).

As part of the RURES project an intelligent water metering (IWM) was implemented in Pałecznicza Municipality. Thanks to the project efforts, replacement of zone water meters, purchase of software for remote reading and analyzing of data, appropriate devices for storing information and data analysis could be purchased and installed. Ultimately this investment will lead to the implementation of a larger investment: equipping all inhabitants of the Pałecznicza Municipality with intelligent reading of water consumption and combining them into one intelligent system cooperating with water intake and pumping stations and storage tanks.

Pilot investment requirements:

- adaptation (or replacement) of water meters for transmitting meters,
- GSM/UMTS/GPRS/LTE/other data transmitters and receivers
- software for administration of the system
- training of person(-s) which will take care of the system.

The scope of investment:

- a) Purchase of zonal water meters – ultrasound static water meters with data transmitters, 11 pieces, ϕ 50 – 100 mm.
- b) Purchase and installation of 3 new wells.
- c) Installation of water meters.
- d) Purchase of software for intelligent water metering with equipment required for data gathering and transfer (antennas, repeaters, data concentrators, transmitters).
- e) Starting of the system and training for employees.

The total cost of the pilot action was around 65 915 €, with around 40 000€ financial assistance from ERDF funds through RURES project.

The pilot investment allows to test the intelligent water metering system in rural region. Pałecznicza decided to use innovative ultra sound water meters technology with remote data collection system (no drive-through or personal readings). The results of IWM use, after some period of data metering, can be useful for every water supplier (public or not) - highlighting the benefits and the added value of a sustainable regional development thanks to the intelligent water metering.

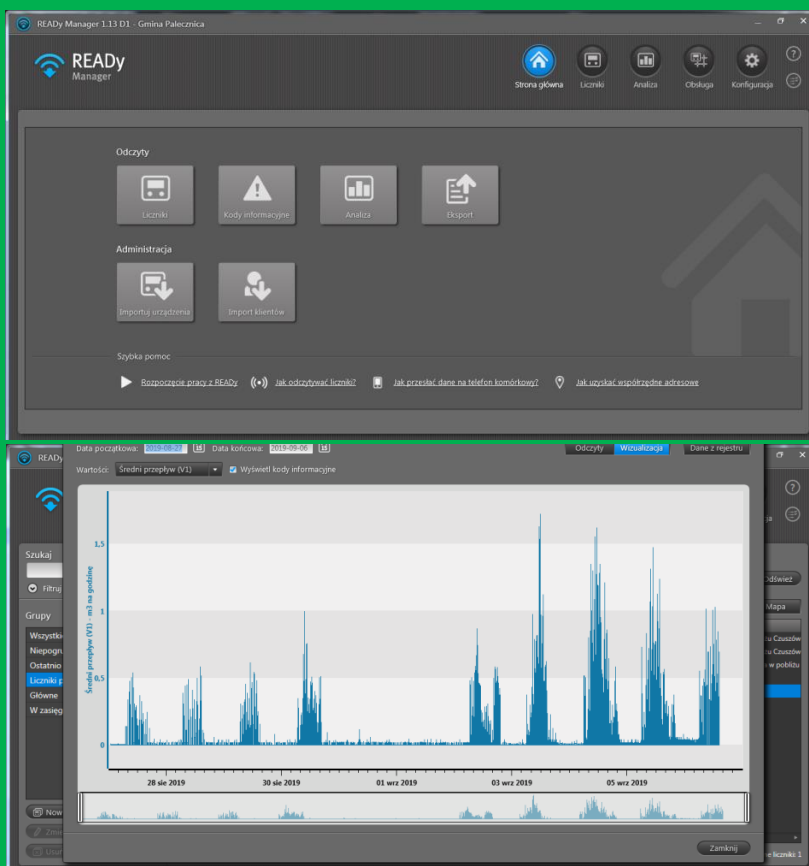
New water meters:



Data concentrator with antennas:



Screens from the software:



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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