

Błędów energy community

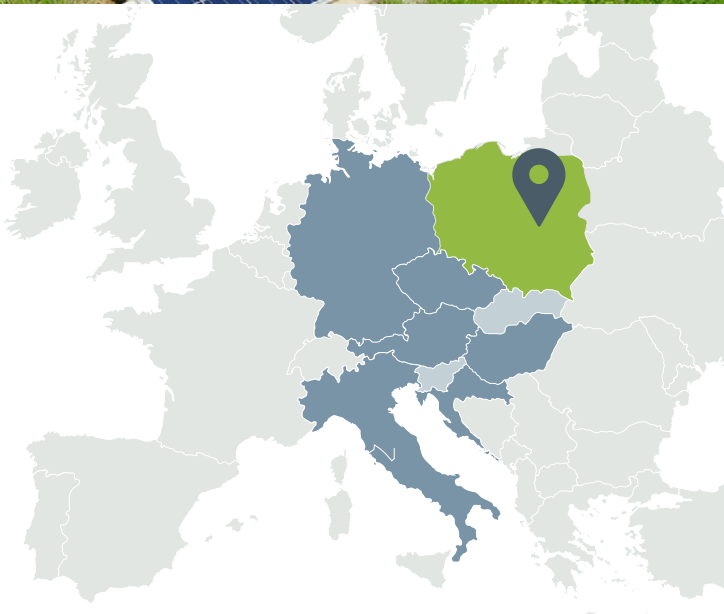


Factsheet

Location:
Błędów municipality

Technologies:
Photovoltaics

Number of participants:
3 local government units



About the project:

The idea of the Renewable Energy Community in the Błędów municipality arose to increase local energy independence, reduce energy costs, and support the sustainable development of the region. There is a need to reduce energy costs in public institutions, make efficient use of renewable energy sources, and improve energy management in the public sector. Błędów energy community is formed by the Municipal Office, Volunteer Fire Brigade and Library. These units were convinced to join by highlighting the financial and environmental benefits, showing the potential to reduce energy costs and increase energy efficiency in public institutions. An important argument was also the opportunity for collective energy management and the use of renewable energy sources, supporting the sustainable development of the Błędów municipality.

What is the goal? | Benefit of the REC

- Optimization of energy costs and consumption planning

How do you achieve the goal? Key activities	How is the service provided? Sales and communication	What is needed to achieve the goal? Key resources
● collaboration and coordination among all participating units (Municipal Office, Volunteer Fire Brigade, Library) ● monitoring and analysis of energy consumption in real time to optimize its use ● planning energy consumption schedules according to the institutions' calendar and needs ● gradual testing and implementation of solutions, allowing adaptation to local conditions and technical constraints ● training and technical support for staff responsible for energy management	● energy production - photovoltaic on the municipal office, volunteer fire brigade and library ● monitoring and management - energy consumption continuously tracked, allowing optimization of its use ● distribution and consumption - energy will be used directly by the units ● optimization and scheduling - schedules for energy use and priorities for different loads (heating, lighting, office equipment) ● analysis and reporting - regular reports on energy consumption and efficiency will be produced to evaluate savings and enable further optimization	● financial resources for modernizing energy systems and installing renewable energy sources ● commitment and cooperation of participating units (municipal office, volunteer fire brigade, library) ● coordination of activities by a designated person responsible for supervising the entire project ● access to specialized knowledge and technical support, including energy monitoring and efficiency measures ● a schedule adapted to the institutions' operations, considering breaks and seasonal activity ● planning and monitoring progress, with systematic improvements based on pilot results

What are the expected profits? | Earnings

- reduced energy costs through self-produced electricity from photovoltaic installations
- optimized energy consumption through monitoring and schedule planning
- potential long-term savings due to reduced reliance on external grid electricity
- improved energy budget planning for public units, increasing predictability of expenditures

Who should participate? Co-owners	What is the target group? Customers
● municipal office ● volunteer fire brigade ● library	● staff and personnel responsible for energy management in these units

What other stakeholders are needed? | Partners

- No external partners such as banks, insurers, or craft businesses are planned.
- In the future, collaboration with installation companies or technology providers may be considered if technical support is needed for photovoltaic installations or energy monitoring systems.

What are the expected costs? | Expenditure

- At the current stage, the REC project is financed solely from the own resources of the public units in the Błędów municipality. In the future, we plan to seek additional funding to expand and accelerate the project implementation (for ex. ENERCOM or Mazovian instrument for supporting energy communities)

