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Tomaszów Energy Cluster

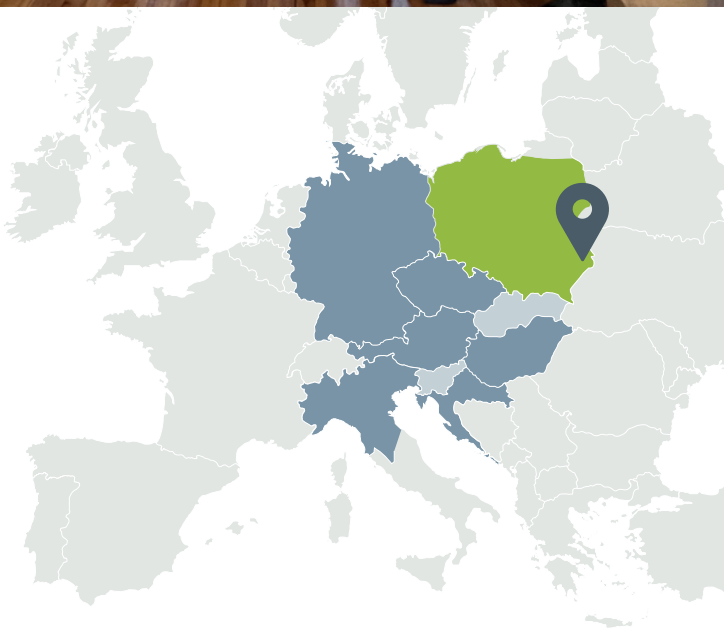


Factsheet

Location:
Tomaszów County
(13 municipalities)

Technologies:
Photovoltaics, Storage

Number of participants:
22 entities



About the project:

The Tomaszów Energy Cluster (TEC) project aimed to achieve the objectives set by the then Ministry of Energy and successive ministers. Due to the lack of specific solutions on the part of the legislator, the TEC project became a business club in a broadly understood public-private partnership, in which members exchange experiences and support each other in the implementation of construction projects and energy development in the field of renewable energy sources.

What is the goal? | Benefit of the REC

- to reduce energy costs and secure more stable energy costs
- to improve energy security
- to provide opportunities to participate in shared renewable energy investments and coordinate them
- to improve environmental performance through reduced CO_2 emissions

How do you achieve the goal? | Key activities

- by increased self-consumption among REC members
- by photovoltaic installations owned or operated by REC members
- by surplus energy exported to the distribution grid
- by providing local energy

How is the service provided? | Sales and communication

- by increasing local energy consumption for greater independence from wholesale energy market fluctuations
- through joint production, management and monitoring of renewable energy

What is needed to achieve the goal? | Key ressources

- photovoltaic installations
- smart metering energy management systems, enabling optimisation of production, consumption, and potential storage within the REC
- energy storage systems

What are the expected profits? | Earnings

- financial benefits for REC members arise from avoided or reduced costs for purchased electricity
- financial benefits may also come from the sale of surplus energy to the grid and access to public funding schemes supporting renewable energy investments

Who should participate? | Co-owners

- local government units
- public institutions
- small and medium-sized enterprises

What is the target group? | Customers

- local households
- small businesses
- community institutions like social facilities

What other stakeholders are needed? | Partners

- financial institutions such as banks to support investments in renewable energy infrastructure
- potential insurance providers to secure installations and operational risks
- technical partners such as engineering companies, installation contractors, and IT providers are needed to develop, maintain, and monitor renewable energy systems and digital energy management solutions

What are the expected costs? | Expenditure

- investments primarily in renewable energy installations, particularly photovoltaic systems
- investments in smart metering infrastructure
- investments in energy management systems
- project development, administrative management, grid connection
- potential investments in energy storage systems to increase self-consumption

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