

Co2mmunity: Community Energy Projects

Community energy projects offer enhanced production of renewable energy from local sources (wind, solar, biomass, hydropower, geothermal) through active participation of local communities. Together, citizens co-finance, co-develop, and co-operate renewable energy plants, and foster sustainable energy distribution.

1. Title of the project *

Comprehensive thermomodernisation of multi-family buildings of the Housing Cooperative in Łańcut with the use of RES installations and intelligent Energy Management System

2. Country *

Poland

3. Location (city, village, etc.), address *

Łańcut

4. Short description of the project (3-5 sentences) *

The Housing Cooperative in Łańcut implemented a project entitled "Comprehensive thermomodernisation of multi-family buildings located at Wyszyńskiego Street in Łańcut, which are in the resources of SM Łańcut with the use of RES installations and intelligent Energy Management System". The aim of the Project is a comprehensive thermomodernisation of multi-family buildings at Wyszyńskiego Street in Łańcut. The Project includes: (1) External thermomodernization, (2) Installation of an intelligent energy management system, (3) Modernization of central heating, domestic hot water and cold water installations, (4) Installation of a PV installation of approximately 2 kW on each building (energy produced used only for the building and common parts). Project has been co-financed by EU funds under the Operational Program Infrastructure and Environment 2014-2020, sub-action 1.3.2. Supporting energy efficiency in the housing sector. The value of the project is about 1.3 million PLN, of which the EU funding is about 861 thousand PLN.

5. Type of community

Urban

Rural

6. Type of project *

- Renewable electricity
- Renewable heat source
- Energy efficiency or energy saving (renovation of buildings etc.)
- New technology piloting
- Other:

7. Technologies *

- Bio CHP plant
- Biogas reactor
- Biomass boiler
- Central heating system
- Demand response automation system
- District heating network
- Electric battery
- Electric vehicle charging station
- Energy efficient windows, insulation etc.
- Heat pump for heating and/or cooling
- Internet application related to energy system or service
- Micro-grid
- Solar heat collectors
- Solar PV system
- Thermal storage
- Wind turbines
- Other:

8. System / service / outcome pictures (please write a link(s) to pictures)

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9. Ownership model

- Fully financed and owned by a community
- Received financial support for investment and fully owned by a community
- Participation through buying shares
- Co-operative membership
- Participation through aggregator or other energy service provider (individual contract)
- Other:

10. Main stakeholders of the project

Housing Cooperative in Łańcut residents

11. How was the project funded? (several answers possible)

- Community funds
- Bank loan
- Subsidies
- Government grant
- Municipal grant
- European funding
- Crowdfunding
- Other:

12. Type of benefits and investment motives

- Direct income from selling energy
- Energy and cost savings
- Income from shares
- Climate and environmental benefits
- Adoption of new or smart technologies
- Improvement of indoor air quality or other living conditions
- Improvement of local economy
- Increase of community resilience
- Other:

13. How was the rest of the community involved in the project? (several answers possible)

- Participated in discussions
- Opposed the project
- Supported the project
- Participated in the decision-making
- Received a revenue share
- Was not involved in any discussions

14. Did you receive help from any organisation, public institution or other similar project? If yes, from whom and how did they help you?

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15. Lessons learnt (NIMBY, institutional barriers, financial barriers, regulative barriers, etc.). How the project became successful after all? Any advices for other community energy project managers?

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16. Website link

<http://www.smlancut.pl/>

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17. Contact information *

Spółdzielnia Mieszkaniowa w Łańcutu
ul. 29 listopada 1, 37-100 Łańcut
tel. 17 225 27 34
e-mail: sekretariat@smlancut.pl

Technical and economic details

Technical and economic details of community renewable energy project.

TECHNICAL DETAILS: 1. System size or purchase volume (kW, MW, amount of units): *

3 x 2kW PV installations

2. System installation or product adoption time: month/year *

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3. Expected system or service lifetime

4. Energy production or savings/year

Electricity saved - 8.892 MWh/year, amount of heat energy saved - 584.66 GJ/year

5. Who is taking care of the Operation and Management?

ECONOMIC DETAILS: 1. Investment or purchase cost:

About 1.3 million PLN

2. Operation and Management cost/year

3. Total amount of subsidies received

4. Economic feasibility: Internal Rate Of Return (IRR), Net Present Value (NPV), Payback Period
