



Action Plan of the **POWERTY** Project

- Renewable energies for vulnerable groups -

May 2022



Contenido

1. PART I – GENERAL INFORMATION	3
2. PART II – POLICY CONTEXT	3
3. PART III – DETAILS OF THE ACTIONS ENVISAGED	4
3.1. ACTION 1: 100% RES MICRO-HOUSES FOR ELDERLY PEOPLE.....	4
3.1.1. BACKGROUND	4
3.1.2. ACTIONS TO BE IMPLEMENTED	4
3.1.3. PLAYERS INVOLVED	5
3.1.4. TIMEFRAME.....	6
3.1.5. COST	6
3.1.6. FUNDING SOURCES	6
3.1.7. POLICY INSTRUMENT TO BE IMPROVED	7
3.2. ACTION 2: TESTING A METHODOLOGY TO IDENTIFY THE PEOPLE IN THE ENERGY POVERTY SITUATION.....	7
3.2.1. BACKGROUND	7
3.2.2. ACTIONS TO BE IMPLEMENTED	7
3.2.3. PLAYERS INVOLVED	7
3.2.4. TIMEFRAME.....	8
3.2.5. COST	9
3.2.6. FUNDING SOURCES	9
3.2.7. POLICY INSTRUMENT TO BE IMPROVED	9
4. CONCLUSIONS.....	10

1. Part I – General information

- ✓ **Project:** POWERTY project – Renewable energies for vulnerable groups.
- ✓ **Interreg Europe Web:** <https://www.interregeurope.eu/powerty/>
- ✓ **Regional Web:** <https://www.aglomeracja-opolska.pl/realizowane-projekty/powerty>
- ✓ **Partner organisation:** The Agglomeration Opole Trust (AOT)
- ✓ **Country:** Poland
- ✓ **NUTS2 region:** Opolskie
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2. Part II – Policy context

The Action Plan aims to impact:

- ✓ **Investment for Growth and Jobs programme.**
- European Territorial Cooperation programme.
- Other regional development policy instrument.

Name of the policy instrument addressed:

European Union funds for the Opolskie Voivodeship for 2021 – 2027 (FEO)

This policy instrument concerns the social and economic development of the Opolskie Voivodeship. It defines priority goals for the use of European funds in the next perspective. This is the most important tool in the framework of the cohesion policy - European Funds for Opolskie Voivodeship, the implementation of which is planned until 2027. A document prepared, managed and implemented by the Board of the Opolskie Voivodeship in accordance with the Act on the principles of development policy.

Web:

<https://rpo.opolskie.pl/?p=44100>

3. Part III – Details of the actions envisaged

3.1. Action 1: 100% RES micro-houses for elderly people.

3.1.1. Background

The good practice presented in the POWERTY project inspired us this action was the one from AURA-EE (France) called Autonomous Building for Citizens (ABC) with solar self-consumption for 62 social housing ([link](#)) and also the one from AEA (Spain) called Open tenders to innovate in technology (PPI): Case of the efficiency houses for social housing (nZEISHB) ([link](#)).

3.1.2. Actions to be implemented

The construction of nine 100% RES microhouses with serviced premises for the elderly people as part of vulnerable groups (protected apartments in the housing development of a collective residence) 47-325 Kamień Śląski, ul. Polna, Kamionek. The 9 100% RES microhouses are designed, each with 4 apartments and with a common part between them. Each 100% RES microhouses is equipped with a heat pump and 48 photovoltaic panels.



(Author: Pracownia Architektury- JAMS architect Mariusz Sługocki)

By one hand, the 100% RES microhouses is a concept developed by **Professor Bogusław Szuba (stakeholder of POWERTY)**. It assumes the creation of fully passive modules with dimensions of 3mx3m, which can be freely combined with each other to create functional rooms. What distinguished them from others was primarily the use of a stone heat accumulator with heat distribution through specially prepared partitions in the walls of the building.

By another hand, in the **Gogolin Municipality** there is many elderly people who wants to stay in a nursing home when they are still in full health because they suffer from loneliness. The “Retirement Home” in Kamionek enjoys great popularity due to the very good conditions prevailing there. These facilities should be used by people who are no longer able to take care of themselves. To meet the growing need, it was planned to build an additional multi-story building with the same standards.

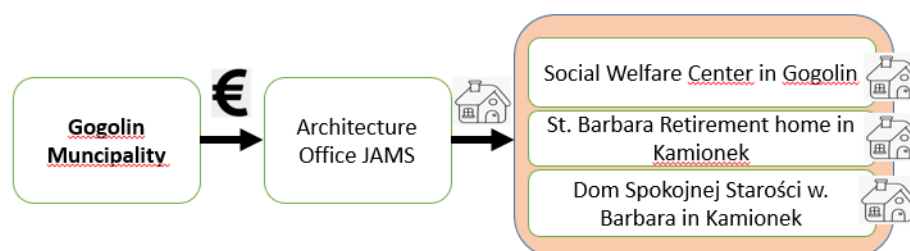
Then, the concept of 100% RES microhouses inspired the mayor and the city council in Gogolin to change the land development and build such **houses using renewable energy sources**. These will be facilities equipped with **heat pumps and photovoltaic installations**. There will be elderly people who are still fit enough to take care of themselves. There would also be lonely residents who live in large houses that they are not able to support themselves (i.e. the so-called energy poor).

Microhouses will not generate such high costs due to the use of renewable energy sources, and their proximity to a nursing home has a number of benefits: Access to doctors and nurses; access to the kitchen and common integration room and access to recreational infrastructure.

To achieve this goal, design documentation was prepared, and the area for building houses was adapted. The spatial development plan was changed.

3.1.3. Players involved

- Gogolin Municipality – investor,
- Architecture Office JAMS.
- Social Welfare Center in Gogolin,
- St. Barbara Retirement home in Kamionek,
- Dom Spokojnej Starości w. Barbara in Kamionek.



3.1.4. Timeframe

The different activities and their timeframe to be implemented for this action are described below:

ACTIVITIES OF THIS ACTION	MONTH PHASE 2
<u>PERMITS</u> . After the new spatial development plan in the Gogolin Municipality has become valid, you must apply for water permits. According to the water law and the current situation, the real time to obtain this permit is up to 6 months	July 2022 to October 2022
<u>CONTRACTOR</u> . Selecting a contractor for the investment, in accordance with the principle of public procurement. This is a large investment because in addition to houses, the necessary infrastructure must be created, i.e. access roads, sidewalks. The whole will be carried out by one contractor selected in accordance with the principle of competitiveness.	January 2023 to February 2023
<u>BUILDINGS</u> . Building 9 microhouses in Gogolin.	February 2023 to July 2023

3.1.5. Cost

The total cost of construction of microhouses with service rooms and infrastructure is **EUR 1,540,000** according to the exchange rate of 22/03/2022.

3.1.6. Funding sources

The origin of the funds for this action comes from **European Union funds for the Opolskie Voivodeship for 2021 – 2027** within EFES + p. 211:

- ✓ Priority axis: 2.5 SOCIAL STRONG OPOLE 2.5.10 (iii) ERDF
- ✓ Specific objective. Support the socio-economic inclusion of communities of marginalized low-income households and disadvantaged groups, including those with special needs, through integrated actions involving housing and social services.

3.1.7. Policy instrument to be improved

The policy instrument to be influenced with this action is the **European Union funds for the Opolskie Voivodeship for 2021 – 2027.**

3.2. Action 2: Testing a methodology to identify the people in the energy poverty situation.

3.2.1. Background

This action is inspired by AEA good practice about its National Strategy against Energy Poverty 2019-2024 in Spain ([link](#)) and also from the methodology of approach and measurement of energy poverty developed by our advisory partners (University of Manchester) to characterized people in energy poverty situation.

3.2.2. Actions to be implemented

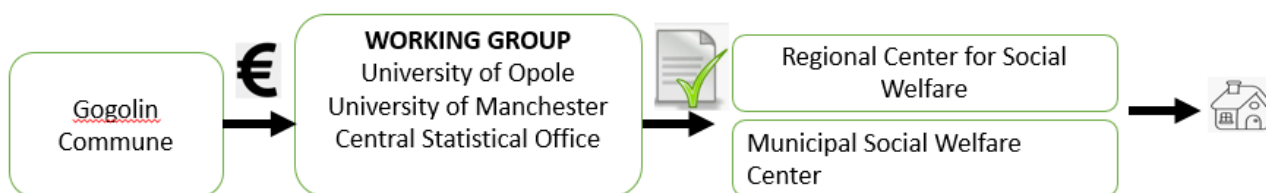
Developing a methodology for identifying the number of people in the energy poverty situation in the municipalities of the Agglomeration Opole Trust and testing it in the Gogolin Municipality. For this, an assistance of a group of experts was contracted on March 2022 by AOT for the preparation of the methodology through a call tender. The result of this assistance will be the methodology to be test in the Gogolin municipality which include:

- a) Analysis, diagnosis and SWOT analysis related to energy poverty.
- b) Identification of strategic and planning documents at the voivodeship level to include this methodology and barriers detected.
- d) Describe the effects of the development of renewable energy on vulnerable groups in the region.

3.2.3. Players involved

- Gogolin Municipality - one of the members of SAO (AOT), investor.
- University of Opole - Department, Faculty of Natural Sciences and Technology Institute of Environmental Engineering and Biotechnology.
- University of Manchester (advisory partner of POWERTY).
- Central Statistical Office.
- Regional Center for Social Welfare.

- Municipal Social Welfare Center.



3.2.4. Timeframe

The different activities and their timeframe to be implemented for this action are described below:

ACTIVITIES OF THIS ACTION	MONTH PHASE 2
AOT create a working group with experts (University of Opole, University of Manchester, Central Statistical Office...) who define energy poverty and the indicators to identified people in the energy poverty situation	August 2022 to September 2022
Meeting n° 1 of this working group with the definition of energy poverty	October 2022
Meeting n° 2 of this working group with the definition of energy poverty indicators at local level	October 2022 to November 2022
Meeting n° 3 of this working group with the know-how about how to use these energy poverty indicators at local level	December 2022 to January 2023
Publish a methodology to identify people in the energy poverty situation	February 2022
Presentation to the Municipal Social Welfare Centre by the working group this methodology and explain how to use it	March 2023
Municipal Social Welfare Centre identify people in the energy poverty situation in Gogolin using the methodology coming from the working group	April 2023 to May 2023

Municipal Social Welfare Centre select people from the identification to be beneficiary of the microhouses describe in the Action 1	June 2023
Revise the methodology after use it in Googlin. Improve if it's necessary	July 2023

3.2.5. Cost

The cost of preparing the methodology is EUR 6,362, estimated in accordance with the principles of market research.

3.2.6. Funding sources

The origin of the funds for this action comes from European Union funds for the Opolskie Voivodeship for 2021 – 2027 within EFES + p. 190.

- ✓ Priority axis: 2.5 SOCIAL STRONG OPOLSKA.
- ✓ Specific objective: (k) Increasing equal and quick access to good-quality, sustainable and affordable services, including services that support access to housing, and person-centered care, including healthcare; modernizing social protection systems, including promoting access to social protection, with a focus on children and disadvantaged groups; improving accessibility, including for people with disabilities, the effectiveness and resilience of health systems and long-term care services.
- ✓ Action: 4. Counteracting energy poverty by raising awareness of the need to use energy efficiently.

3.2.7. Policy instrument to be improved

The policy instrument to be influenced with this action is the **European Union funds for the Opolskie Voivodeship for 2021 – 2027.**

4. Conclusions

The action plan emerged with the need to improve policy instruments in the field of renewable energy. The Action Plan consists of various concrete measures which are the result of the compilation, analysis and adaptation of good practices identified by the various POWERTY partners, thanks to the interregional work carried out and the important role of experts and project partners.

Date: May 2022.

Signature: The Opole Agglomeration Trust

Stamp of the organization (if available): The Opole Agglomeration Trust