



T3 FOSTERING THE CO-CREATION OF LOCAL ENERGY COOPERATIVES AND IMPLEMENTATION OF CITIZEN BASED PILOT ACTIONS.

D.T3.10.3 - Definition of a pilot action to be implemented in the Niemce Commune, Lubelskie Voivodeship, based on the update in LCEP/SEAPs/SECAPs.

Version 1
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Definition of a pilot action to be implemented in the Niemce Commune, Lubelskie Voivodeship, based on the update in LCEP/SEAPs/SECAPs (D.T3.10.3).

One of the effects of the ENES-CE project is a pilot action to be carried out by the created citizen's energy group. It was defined by the involvement of the local community in energy planning in the Niemce Commune. The strengthening of the social dialogue between the local authorities and the citizens was possible thanks to the communication activities through the realisation of the project workshops, direct and indirect (online) contact, the distribution of printed project materials and education involving the exchange of knowledge, visions and experiences concerning investments in RES (Renewable Energy Sources) and EE (Energetic Efficiency).

The communication in the course of the project in question included interviews in the form of a questionnaire and 3 workshop meetings were conducted in 2020 and additional three in 2021. During the workshops the needs and expectations of inhabitants, entrepreneurs and representatives of various institutions in the Niemce Commune were articulated. These were later included in the updated in 2020 LCEP (Low Carbon Economy Plan) for the Niemce Commune for the years 2020 - 2025.

In addition, further proposals and visions for RES and EE investments formulated by the local community were included in the draft document of the next LCEP update for the Niemce Commune for 2021-2030 with a vision for activities until 2050.

At the same time, detailed planning of the implementation and financing of the undertaken measures requires more time and development so that the projects fulfilled the criteria of the announced competitions. This is to ensure obtaining funding for the RES and EE investments from national or foreign programmes supporting the RES and EE development and environmental protection.

The idea of the pilot action (described below) is the outcome of the arrangements made during the workshop meetings within the ENES-CE project. The meetings were attended by the citizens involved in the process of creation and set to benefit from the creation of the citizen energy group (an energy cluster) in Niemce Commune.

The pilot action to be implemented by the "Niemce Energy Cluster" with the substantive support of the external expert, who participated in the creation of the cluster under the ENES-CE project was selected in accordance with the Letter of Intent - *on the decision, of the members of the energy cluster in the Niemce Commune, in the Lubelskie Voivodeship: „Niemce Energy Cluster“ on the choice of the pilot action to be implemented in the timeframe of the ENES-CE project in the Niemce Commune in the Lubelskie Voivodeship: a pilot action of environmental education for the local community as part of information and promotion meetings to raise awareness on the possibility of reducing low emission in the commune and on the possibility of choosing air quality notification systems in the future: „Every resident and entrepreneur from the Niemce Commune can contribute to clean air in the Commune,“* which was signed on 22.10.2021.

The idea of environmental education of the local community, which will be implemented as a pilot action by the Niemce Commune and other cluster members, is already included in the updated LCEP for Niemce Commune, adopted in 2020: *point. 4.2 Non-investment activities: "environmental education of the local community, through information and promotion actions, air quality notification systems, raising awareness on the possibilities of reducing low emissions and others"*.

https://ugniemce.bip.lubelskie.pl/upload/pliki//Niskoemisyjna.Kopia_2.pdf

At the same time, in the process of energy planning and discussing investments in RES and EE, at workshops no. 1 and no. 2 in 2021, as part of the increasing involvement of stakeholders in joint planning, further proposals for activities emerged. These were included in the draft document that is still under consultation: *LCEP for the Niemce Commune for 2021-2030, with a vision of activities until 2050 (update)*.

The activity related to ecological education action among the local community has been included in the LCEP update for the Niemce Commune for the period 2021-2030, with a vision of



activities until 2050 (update), as activity No. 3 planned until 2030: "Conducting an educational and information campaign to raise awareness about EE - energy efficiency and related financing opportunities for investment activities". Additionally, it states that a pilot under the ENES-CE project, an environmental education action for the community will be carried out to raise awareness of the possibilities of reducing low emission and about air quality notification systems.

Activity no. 3 was included after the project stakeholders - now members of the Energy Cluster - agreed at Workshop 1 in 2021 on the priority of the investment activities regarding the Commune and the inhabitants that can be implemented in the following years to be as follows:

1. Investments in photovoltaic panels under the currently implemented priority project "Eco-efficient Niemce Commune". (The status of the project: a contractor was selected by the tender but has not signed the contract yet. If he does not do so in the nearest future, it will be necessary to announce a new tender by the Commune).
2. Replacement of low-power combustion sources in the municipal and household sector with coal-fired boilers (meeting the eco-design requirements according to Directive 2009/125/EC), gas-fired boilers and biomass-fired boilers in 440 residential buildings in all villages in the Commune by 2030 and continuation of the project in the long term until 2050.
3. Modernisation and construction of street lighting (the project currently being implemented and proposed for further implementation).
4. Thermomodernisation of buildings and promotion of energy-efficient construction in housing construction. The project carried out individually by residents or within a cluster by cluster members as a joint effort to reduce final energy consumption, improve the energy efficiency of the facilities they use and improve air quality.

During Workshop no. 1 in 2021, it was discussed that investment projects for the replacement of heat sources could be preceded by an "environmental education among the local community".

The cluster members signing the Letter of Intent on the selection of the educational action declared their willingness to cooperate to raise ecological awareness of the residents of the Niemce Commune in order to improve air quality, natural environment, as well as to promote the understanding of the need to take joint activities to reduce to reduce the emission of pollutants into the air and to improve the energy efficiency of municipal and residential buildings in the Commune through investments in facilities with renewable energy sources. In addition, the cluster members declared that, they would participate in at least one of the meetings organized as part of the pilot environmental education campaign for the local community in the Niemce Commune, conducted as part of the ENES-CE project and the educational and promotional activities of the Energy Cluster. They also declared that they would promote the idea of cooperation within the Energy Cluster and encourage potential new members to join in.

Appendix No. 1 to the Letter of Intent includes the description and the plan for the pilot action of environmental education to be implemented between 01.11.2021 and 15.12.2021. Within the framework of the aforementioned pilot action, the focus will be on increasing the awareness of its target audience about the possibilities of reducing low emissions in the Commune, including the information about:

- the sources of low emission occurrence,
- the possibility to undertake investment activities in renewable energy sources (RES) and aiming at improving the energy efficiency (EE) by using programmes that subsidize such investments,
- the opportunities to change individual daily habits in order to reduce energy consumption and thus to reduce the CO₂ emissions into the air in the Commune,
- the possibility of choosing an air quality notification system, in the future,
- the idea of cooperation in the Energy Cluster, the possibility of joining the cluster for potential new members, the possibility to become engaged in joint energy planning in the Niemce Commune.

The pilot educational action will include a minimum of 2 meetings. Each of them will last approximately 90 minutes. The aim is to reach the target group of inhabitants (seniors, families, children or other stakeholders)/entrepreneurs in Niemce Commune and to raise their awareness in



terms of the impact on reducing low emissions, air pollution through investments using RES. The confirmation of reaching the target group and carrying out the action will be the attendance list. In addition, the participants will receive an evaluation and satisfaction questionnaire to be filled in at the end of the meeting (according to the attached template). The survey will then be summarised and used to prepare a report on the experiences and lessons learnt from the implementation of the pilot action in Niemce Commune and from the formation of the citizen energy group in Niemce Commune.

It was agreed that the dates and times of the meetings will be announced 5 days in advance on the website and social networks of the Niemce Commune. If the epidemic situation in Poland does not worsen, meetings with stakeholders will be held in the form of open meetings. In case of tightening restrictions on the possibility of meeting people in larger groups - these will be online meetings, with e-learning materials provided. The course of the meetings will be in accordance with the agreed scenario.

The draft scenario of the meeting is included in the attachment to the Letter of Intent, which may be modified depending on the proposals of cluster members:

Presentation part:

1. Information about the Energy Cluster created under the ENES-CE project in the Niemce Commune in the Lubelskie Voivodship and the purpose of the meeting: including the idea of the energy cluster and the possibility for residents to become engaged in the energy planning in the Commune and admitting new members to the energy cluster (5 min).
2. What is air pollution, low emission, SMOG? What causes low emission; what impacts air pollution in Niemce Commune? - (15 min).
3. What are the heat sources that do not contribute to low emission (shown on the graphic), explanation of the term "low emission heat sources" - List of the emission parameters of boilers: out-of-class, class 3, class 4 and class 5. - (5 min).
4. Explaining concepts in an accessible and understandable way:
 - Renewable energy sources (RES);
 - Energy efficiency of buildings (EE) and its improvement - (5 min).
5. Indication of the impact of RES investments on the improvement of air quality in Niemce Commune.
6. Presentation of the possibility to use external funds within the framework of programmes co-financing investments in RES for the inhabitants, including discussion of programmes: STOP SMOG, Clean Air, My Electricity and others - (15 min) / concerns inhabitants.
7. Possibility to use external funds under programmes co-financing investments in RES for entrepreneurs - including European Funds for Lubelskie 2021-2027 (programme under public consultation) - (20 min) / concerns entrepreneurs.
8. Does every resident of the Niemce Commune have an impact on the state of air quality; how to change the everyday behaviour to reduce energy consumption and thus reduce the CO₂ emissions into the air in the Commune - (10 min).
9. Possibilities of choosing the air quality notification system in the future (5 min).

Interactive part: involving participants in the discussion and summarising the meeting - the Q&A session:

1. What an individual/entrepreneur can do to improve air quality in the Commune, what kind of RES investments would I like to make based on the information provided during the meeting)? - (5 min).
2. Considering possibilities to choose air quality notification system in the future - (5 min)
3. Discussion about the possibility of inhabitants' involvement in energy planning in the Commune and joining the Energy Cluster in Niemce Commune, Lubelskie Voivodship - (5 min),
4. Discussion about the idea of further cooperation within the Energy Cluster and encouraging potential new members to join in (5 min.),
5. Discussion about the possibility of individual and group activities to reduce low emissions and CO₂ in the Niemce Commune - (5 min.).
6. Filling in the evaluation and satisfaction questionnaire (5 min).
7. Conclusion of the meeting.



MEETING EVALUATION AND SATISFACTION QUESTIONNAIRE

“Every resident and entrepreneur from the Niemce Commune can contribute to the clean air in the Commune”

Topic of the meeting	
Date and time	Location

The questionnaire aims to summarise the meeting, collect comments and evaluate the event: “Meeting on.....2021 in as part of an environmental education action: „Every resident and entrepreneur from the Niemce Commune can contribute to the clean air in the Commune”.

Your contribution is an important opportunity to receive feedback on the quality of the initiative, which will allow us to optimise our future activities. All information provided will be handled securely and confidentially, and will be used for internal purposes only and not shared outside the ENES-CE project. Gender:Age: Education:

Please circle one of the numbers from 1-5 that best reflects your level of obtaining information during the meeting or answer the open questions:

- 1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- a) Did you gain knowledge of what low emission is and what causes low emission?
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- b) Did you get to know what are the sources of energy and heat that do not cause low emissions?
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- c) Did you learn which programmes you can use to obtain funds for investments using RES and for improving the energy efficiency of buildings?
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- d) **Have you increased your knowledge about the possibilities of reducing low emissions in the Commune?**
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- e) What kind of investments in RES installations would you like to implement in your own home/enterprise to contribute to the reduction of air pollution in the Niemce Commune?

- f) What daily behaviours/ habits do you want to change to reduce your energy consumption and thus your CO₂ emissions and affect the air quality in your Commune?

- g) Should the Commune or the energy cluster make information available to the inhabitants about air pollution in the commune by installing an air quality board or sensors to measure air pollution?
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- h) Where do you think such a board/sensors should be installed in Niemce Commune?

- i) Would you like to become a member of the “Niemce Energy Cluster” in order to plan together a sustainable energy development of the Commune and implement investments in RES?
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes
- j) Are the implementation of ENES-CE project, creation of Energy Cluster and meetings with inhabitants/stakeholders beneficial for the inhabitants of Niemce Commune, because they involve them in common activities for the reduction of air pollution emissions (including CO₂) and energy planning in the Commune with the use of RES?
1- definitely not, 2 - rather not, 3 - I don't know, 4 - rather yes, 5 - definitely yes



Please mark with an X the box with the score that best reflects your level of satisfaction with the evaluation of the meeting:

1: Unsatisfactory 2: Satisfactory 3: Good 4: Very good 5: Excellent

1. How would you rate the event you attended?	1	2	3	4	5
Your rating:	☹		☹		☺
Content of the speeches					
Presentations					
Information provided					
Organisation					
Overall assessment					

2. Comments and suggestions:

Thank you for your participation and cooperation!