

OUTPUT FACT SHEET

Tools

Version 2

Project index number and acronym	CE1449 ENES-CE
Output number and title	O.T1.3 Revision of local energy plans (SEAPs, SECAPs etc.)
Responsible partner (PP name and number)	Lubelskie Voivodeship
Project website	https://www.interreg-central.eu/Content.Node/ENES-CE.html
Delivery date	14.01.2022
Summary description of the key features of the tool (developed and/or implemented) and of its transnational added value	

The LCEP for the Niemce Commune was developed via the following steps:

- identify the progress of the implementation of the LCEP, collect all the relevant data
- point out the most vulnerable areas/sectors and the most important investment activities for the Niemce Commune
- determination of the base year and preparation of the Base Emission Inventory
- identify set of measures for reduction of CO2 emissions compared to the base year 2010, reduction of final energy consumption, increase in the share of renewable energy
- setting up goals to be reached by the realization of investment activities and the supporting noninvestment measures
- organize consultations to the investment activities and the document of LCEP with residents and other stakeholders, decision makers as part of the ENES-CE project, at workshops to co-design the document
- finalize the document of LCEP for the Niemce Commune

In the Niemce Commune in the Lubelskie Voivodeship during the ENES- CE project there was made the revision of the document of Low Carbon Economy Plan (LCEP) from year 2016, which was made by the Niemce Commune and the new document of LCEP "Low-Carbon Economy Plan for the Commune of Niemce", was presented and consulted on the 1st project workshop in 2020 and adopted on 4 February 2020 by Resolution No. XIV/138/2020 of the Council of Niemce. This LCEP is for years 2020-2025.

The next revision of the LCEP was made 2021 by External Expert engaged in the ENES-CE project and the draft document of the LCEP and investment activities were discussed during the project workshops in 2021 and also during the education action, which was chosen as priority action to carried out by the new created citizens energy group in the realization of the ENES-CE project: "Niemce Energy Cluster".

The draft document "LCEP for the Niemce Commune for 2021-2030, with a vision of activities until 2050 (update)" which contains elements of the SECAP may be adopted by the Council of the Niemce Commune in the future.

The pilot ecological education action was carried out i.e. to raise ecological awareness of the residents of the Niemce Commune about the possibility of the impact of each entrepreneur and resident from Niemce Commune on reduction air pollution in the commune.

The action was carried out to promote the understanding of the need to take joint activities 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 also investments in facilities with renewable energy sources. Through the implementation of the pilot ecological education action, energy cluster wanted to inspire social trust in a further group of residents and stakeholders and encourage them to cooperation in preparing projects and obtain funding for the implementation of investment activities contained in the updated Low Carbon Economy Plan for the Niemce Commune i.e priority projects:

- Investments in photovoltaic panels, as in the currently implemented priority project in the commune "Eco-efficient commune of Niemce". The expert proposed repeating such a project in the future, until 2030, depending on the possibility of receiving funding by the Commune and residents or the energy cluster and its members. "Equipping residential buildings with renewable energy micro-installations - 5,000 photovoltaic installations with an average capacity of 3kW."
- Replacement of low-power combustion sources in the municipal-housing sector with coal furnaces (meeting the ecodesign requirements in accordance with Directive 2009/125/EC), with gas, with biomass in 440 residential buildings in all localities of the commune until 2030 and continuation of the project in the longer term, until 2050.
- Thermomodernization of buildings and supporting energy-saving construction in housing construction. A project implemented individually by residents or as part of a cluster by cluster members as a cooperation in order to reduce final energy consumption, improve energy efficiency of facilities used by them and improve air quality.

The goals of the of Low Carbon Economy Plan for the Niemce Commune (LCEP) are aimed at:

- ➤ reduction of CO2 emissions compared to the base year 2010
- ➤ reduction of final energy consumption
- ➤ increase in the share of renewable energy in total energy (electricity, heat and transport fuels)

This goals set in LCEP should be reached by the realization of the investment activities contained in the LCEP.

Transnational added value of the LCEP is setting up activities investments in RES to carried out to i.e. reduce the CO2 emission in commune (in the Niemce Commune in the Lubelskie Voivodeship) and on this way also in the EU, earth.

Development or update of the LCEP document in the bottom up process, by the engagement in the energy planning not only the local government but also experts, companies, NGOs and local community at the very beginning of the process of the identification and choice of the activities/investments in RES in the commune, facilitates further consultations of the chosen activities and the document, as well as convincing residents to joint or individual realization of activities with use of RES. By creating or updating the LCEP document in this way, together with the local community, the commune obtains more support and social approval for the proposed investment activities in the RES and their implementation.

The method of updating LCEP/SEAP or SECAP by following the guidelines for creating documents in line with the Covenant of Mayors and with a bottom-up citizens involvement approach, by involving residents, organizing workshops with the use of communication tools and technical tool for illustrating calculations, with expert advice, explaining stakeholders questions) was applied by municipalities - ENES-CE project partners from various Central European countries and proved to be successful, therefore, it may have a transnational added value. The method of involving citizens in energy planning can be replicated also by other communes in the EU.

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

Niemce Commune
NUTS 2 Lubelskie Voivodeship which over 2 mil residents.

Expected impact and benefits of the tool for the concerned territories and target groups

Through the realization of the in the LCEP for the Niemce Commune stated up activities/investments in RES, the reduction of the CO2 emission compared to the base year 2010 and also other pollutants in the territory of the Niemce Commune and Lubelskie Voivodeship is expected. Also the reduction of final energy consumption and increase in the share of renewable energy in total energy (electricity, heat and transport) is expected.

The revision of the LCEP and the involvement in this energy planning process residents, companies, NGOs and other stakeholders from the commune results already with the creation of the citizens energy group in the commune "Niemce Energy Cluster"

Energy cluster can have significant potential impact for the implementation of measures/activities entered into the LCEP. One of the aim of energy cluster is supporting the development of local distributed energy in the commune and to convince other residents to invest to join the planning and implementation of investments in RES and EE

The created Niemce Energy Cluster linked to the implementation of the activities/measures planned in LCEP carried out the ecological education action to raise ecological awareness of the residents of the Niemce Commune about the possibility of the impact of each entrepreneur and resident from Niemce Commune on reduction air pollution in the commune.

Cluster promoted by the targeted group the understanding of the need to take joint activities 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. Through the implementation of the pilot ecological education action, energy cluster wanted to inspire social trust in a further group of residents and stakeholders and encourage them to cooperation in preparing projects and obtain funding for the implementation of investment activities contained in the updated Low Carbon Economy Plan for the Niemce Commune.

Sustainability of the tool and its transferability to other territories and stakeholders

The implementation of measures defined in LCEP for the Niemce Commune will have significant effect also on other bordering communes in the Lubelskie Voivodeship. Apart from the decrease of energy consumption and GHG emission, the projects that will be implemented in the Niemce Commune will serve as best practice examples for other municipalities in Lubelskie Voivodeship and encouraging bordering on the Niemce Commune municipalities to join the energy cluster to prepare and implement joint projects for RES investments.

All citizens, SMEs, industry and public sector institutions will benefit from developing of such projects since it will ensure RES usage and decrease of CO2 emissions and to plan in the long term.

References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

<https://ugniemce.bip.lubelskie.pl/index.php?id=67&p1=szczegoly&p2=1482396>
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