



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

**D.T3.4.3 - Definition of the pilot action in
the Municipality of Koper**

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Definition of the pilot action in the Municipality of Koper

With the aim of achieving an efficient and secure energy supply, the Municipality of Koper has been discussing energy policy in detail for years. In 2008, the first Local Energy Concept (hereinafter: LEC) was elaborated and updated in 2013. On a basis of LEC, in 2019 the Basic Emission Inventory for the Sustainable Energy Action Plan (SEAP) was prepared, which includes upgraded measures in comparison with the LEC.

Within the ENES-CE Project (Central Europe Programme), diverse key stakeholders were involved in the process of revision of existing energy efficiency plans in the Municipality of Koper and in preparation of Energy Roadmap (promoters and operators of joint projects in the field of renewable energy sources, energy advisory office for citizens, ESCOs implementing Energy Performance Contracting for municipal public buildings and public lighting, Regional development centre, local electricity distributor, energy suppliers, representatives of larger companies, managers of multi-apartment buildings).

Within the adhesion of cooperation with stakeholders was agreed that survey of implemented activities, telephone information support, participation on workshops and giving new proposals for various potential pilot projects within the ENES-CE Project would be covered and highlighted. Of all the initiatives presented by stakeholders, the following three are worth highlighting:

1. Business model for an energy cooperative in the countryside of the Municipality of Koper,
2. Business model for an energy cooperative in the City of Koper,
3. Smart lighting - modernisation of public lighting in the Municipality of Koper.

The implementation of Project activities follows the achievement of common goal of reducing emissions and as well follows the goals of EU directives, of Covenant of Mayors initiative and of national legislation.

Previously mentioned proposals for a new measure, within the new LEC and SECAP, were highlighted. Subsequently, the Municipality is preparing the Sustainable Energy and Climate Action Plan (SECAP) and a new LEC with the aim of improving the local energy strategies and regional competitive advantages.

Pilot Action Investment: Smart lighting - modernisation of public lighting in Municipality of Koper

Pilot action investment within the ENES-CE project will support the renovation of public lighting as one of the main action of the energy plan. Investment into a smart lighting - modernisation of public lighting for the Slemenska road was made in accordance with the Decree on limit values due to light pollution of environment, with amendments and supplements.



36 inefficient luminaires were replaced with new LED luminaires. Energy savings and operating costs of the installed SCADA system, together with LED lighting technology, will contribute up to 60 percent lower lighting costs. On the other hand, this technology prolongs the life of the lamps and further contributes to the reduction of light pollution. Energy consumption after the implementation of the investment will decrease by 9.876 kWh per year. Energy cost savings are estimated on 1.086,40 €. In total investment costs are 30.497.56 € include VAT.



Image 1: SCADA display for the smart lighting - modernisation of public lighting for the Slemenska road

The graph below shows the decrease in energy consumption, which is evident from the installed SCADA program.



Image 7: SCADA display for the smart lighting - modernisation of public lighting for the Slemenska road