



EU4Energy



# EUROPEAN UNION COVENANT OF MAYORS DEMONSTRATION PROJECTS

## TECHNICAL FACTSHEET

### Modernization of the street lighting systems in Cantemir and Ocnita (Moldova)





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## GENERAL

**Applicant:** Alliance for Energy Efficiency and Renewables (Moldova)

**Co-applicants:** Primaria of Cantemir, Primaria of Ocnita (Moldova)

**Total project budget:** 500,000 EUR

**EU contribution:** 400,000 EUR

**Project duration:** 2014 - 2018

## IMPLEMENTED MEASURES

- 1) Modernization of the street lighting system in Cantemir (416 lamps, 11.2 km of cables and 11 control cabinets).
- 2) Modernization of the street lighting system in Ocnita (386 lamps, 13.6 km of cables and 28 control cabinets).

## BENEFICIARIES

5,000 inhabitants of Cantemir and 9,000 inhabitants of Ocnita are the final beneficiaries of the project. In addition, the project has sustained 28 jobs.

## PROJECT DETAILS AND RESULTS

### 1) **Subproject #1 Modernization of the street lighting system in Cantemir**

- Installation of 416 LED lamps with capacity of 30-70 W
- Replacement of 11.2 km of cables
- Installation of 11 control cabinets
- Commissioning of new street lighting management system, including dimming (real-time, internet-based)

**Project costs<sup>1</sup> in EUR: 193,330 (excl. VAT)**

**Energy savings (electricity): 220 MWh/y (-84% of the baseline consumption)**

**CO<sub>2</sub> savings: 104 t/y**

### 2) **Subproject #2 Modernization of the street lighting system in Ocnita**

- Installation of 386 LED lamps with the capacity of 30-70 W
- Replacement of 13.6 km of cables
- Installation of 28 control cabinets
- Commissioning of new street lighting management system, including dimming (real-time, internet-based)

**Project costs<sup>2</sup> in EUR: 205,622 (excl. VAT)**

**Energy savings (electricity): 347 MWh/y (-88% of the baseline consumption)**

**CO<sub>2</sub> savings: 164 t/y**

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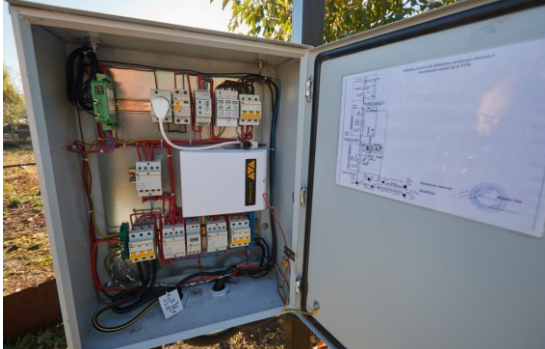


<sup>1</sup> Project costs include the cost of technical design, equipment and installation but not general costs of the project team such as office rent, salaries of the project team, marketing, travel cost, etc.

<sup>2</sup> *ibid*



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Before the implementation	After the implementation
	
	
	
	



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## COSTS INDICATORS OF THE DEMONSTRATION PROJECTS<sup>3</sup> (excl. VAT)

<b>Street lighting</b>
Modernization of street lighting: 350-600 EUR per luminary or 6,000-11,000 EUR per km of street
Installation of autonomous solar-powered street luminaries: 1,000-1,500 EUR per unit
Architectural lighting: 6,000-20,000 EUR per facility

## ACHIEVEMENTS TOWARDS LOGFRAME AND SEAP

Indicator	Energy savings	Renewable energy	CO <sub>2</sub> savings
<b>Cantemir</b>			
<b>SEAP</b>	6,356 MWh	2,228 MWh	1,609 tons
<b>Logframe</b>	Reduction of energy consumption by 50%	N/A	Reducing CO <sub>2</sub> emissions by 2% of the overall SEAP target of the city
<b>Actual achievements</b>	220 MWh/y or 84%	N/A	104 t/y
<b>Final statement</b>	Logframe targets were achieved	N/A	Logframe targets were almost achieved
<b>Ocnita</b>			
<b>SEAP</b>	463 MWh	7,612 MWh	2,945 tons
<b>Logframe</b>	Reduction of energy consumption by 50%	N/A	Reducing CO <sub>2</sub> emissions by 2% of the overall SEAP target of the city
<b>Actual achievements</b>	347 MWh/a or 88%	N/A	164 t/a
<b>Final statement</b>	Logframe targets were achieved	N/A	Logframe targets were achieved

<sup>3</sup> Please use these numbers for information purposes only