



EU4Energy



EUROPEAN UNION COVENANT OF MAYORS DEMONSTRATION PROJECTS

TECHNICAL FACTSHEET

Modernization of an electricity substation for public transport in the town of Kramatorsk (Ukraine)





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GENERAL

Applicant: Kramatorsk Town Council

Total project budget: 1.232.078 EUR

EU contribution: 985.663 EUR

Project duration: 2015 - 2018

IMPLEMENTED MEASURES

- 1) Modernization of the outdated and worn-out equipment of the substation providing electricity for the public electric transport

BENEFICIARIES

76.000 citizens of Kramatorsk. In addition, the project has sustained 10 jobs.

PROJECT DETAILS AND RESULTS





1) **Modernization of an electricity substation for public transport**

- Replacement of the old power substation with new module units, with total capacity of 3.000 kVA (kW);
- Three modules equipped by 3 power transformers of 1.000 kVA (kW) each unit with nominal current of 1.250 A and nominal voltage in DC power circuits of 600 Volts;
- New modules equipped with automated control system and telemechanic units for operating without permanent staff.

Project costs¹ in EUR: 1.082.701 (excl. VAT)

Energy savings (electricity): 17 MWh/a (3% of the baseline consumption)

CO₂ savings: 11 t/a

Before the implementation	After the implementation
	
	

¹ 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..



COSTS INDICATORS OF THE DEMONSTRATION PROJECTS² (excl. VAT)

Modernization of an electricity substation for public transport
Electricity substation for public transport – 300-400 EUR per kVA (kW)

ACHIEVEMENTS TOWARDS LOGFRAME AND SEAP

Indicator	Energy savings	Renewable energy	CO ₂ savings
SEAP	380.500 MWh	260.800 MWh	297.200 tons
Logframe	204 MWh	N/A	10%
Actual achievements	17 MWh, or 3%	N/A	11 tons/a, or 3%
Final statement	Logframe targets have not been achieved	N/A	Logframe targets have not been achieved

² Please use these numbers for information purposes only