

Implementation of energy saving measures

Case examples of financed street lighting projects in Ukraine

NEFCO's Energy Saving Credits facility offers small-scale soft loans for investments in energy saving measures in social facilities such as day-care centres, schools, hospitals and street lighting. The Energy Saving Credits (ESC) loans are available to municipalities in Armenia, Belarus, Moldova, Russia and Ukraine.

ESC financed street lighting projects replace fluorescent and mercury-vapour fixtures with environmentally friendly LED lights, and may include other measures such as replacement or upgrading of lighting poles, lighting control systems, cabinets and wire, leading to improvement of overall efficiency, costs saving and positive environmental impact.

Modernised city street lighting in Bila Tserkva

The city of Bila Tserkva, with about 215,000 inhabitants and situated some 90 km Southwest from Kyiv, modernised over half of its street lighting system in 2018-2019, using the ESC loan financing.

Old and inefficient luminaries were replaced with energy-efficient lighting fixtures in 77 streets in the city. Over 2,300 LED luminaries, 60 new lighting poles, and 15 new and 68 modernised control cabinets were installed. In addition, some 33 km of new self-supporting wire was laid.

The total investment for the project was approx. EUR 518,000 of which NEFCO contributed with a loan totalling EUR 386,000, offered through the Energy Saving Credits facility, and the remaining part was co-financed by the city.

The modernisation measurements led to cost savings of approximately EUR 22,000 already during 2019. It is estimated that annual cost savings will be approx. EUR 200,000 including both, electricity and maintenance cost reductions.

The project is NEFCO's twenty fifth completed street lighting project in Ukraine, since 2012. A second street lighting project in the city was approved at the end of 2019 and is currently under implementation.

Total project costs : approx. EUR 518,000

Cost savings/year: approx. EUR 200,000

Electricity savings/year: 2,350 MWh



Modernised lighting systems in Odesa

The city of Odesa, a large centre for trading and logistics in southern Ukraine, has modernised the internal lighting system at 7 public hospitals and part of its street lighting system in 2018-2019.

Over 900 new efficient LED luminaries were installed during the project. Worn out components, such as overhead wiring and damaged poles were also replaced.

The total investment for the street lighting part of the project was approx. EUR 465,000 of which EUR 315,000 was loan financed through the Energy Saving Credits facility. In addition, EUR 150,000 in grant financing was provided by the Eastern Europe Energy Efficiency Environment Partnership – E5P fund.

Total project costs : EUR 465,000

Cost savings/year: EUR 45,000

Electricity savings/year: 350 MWh



Completed street lighting projects in Ukraine since 2012



8.5 million €

in annual cost savings for 25 cities



17,000 MWh

in annual electricity savings



28,324

number of installed energy-efficient LED lamps

Contributing to the UN Sustainable Development Goals

The implemented projects contribute to the following sustainable development goals by the UN:



About Nefco

NEFCO is an international financial institution (IFI) established in 1990 by the five Nordic countries: Denmark, Finland, Iceland, Norway and Sweden. NEFCO's purpose is to promote green growth and climate actions, which help governments and other co-financiers to reach their environmental and sustainability goals. Focusing on small and medium-sized projects with tangible results, NEFCO provides high additionality to its stakeholders.



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