

## Upgrading of Antonivka School in the city of Kherson

### Project background

Name of applicant	Educational Department of the Kherson City Council
Project info/Project name	Upgrading of Antonivka School in Kherson City
Contractor	Elemenco Oy
Project duration	July - November 2020
Contract value	EUR 62,700

### Project summary

#### 1 Project summary

The project was to update the Antonivka Green School, which was constructed for internally displaced children in 2015/2016 with a NEFCO grant provided within the framework of support from the Ministry for Foreign Affairs of Finland (MFA) for the alleviation of the humanitarian crisis caused by the war in Eastern Ukraine. The construction was carried out by Elemenco Oy.

The need for additional energy-efficiency improvements arose during the operation of the school. Thus, this project aimed to provide a more efficient heating/cooling system for the school. The project was implemented by Elemenco Oy; it procured all the equipment and materials and its local sub-contractor Teplotekhnika carried out the installation works.

#### 2 Project conclusions

The project covered the assembly of batteries and a control programme to allow the school to use the (solar) electricity produced. This eliminates the need for a diesel generator and reduces the need for an external electricity supply from the national grid. In addition, an energy control system, heat pump and ventilation unit were delivered and assembled.

#### 3 Impact on human rights and the project's Sustainable Development Goals (SDGs)

The project positively impacts human rights by supporting improvements in infrastructure and living standards, and ensuring environmental sustainability and energy security, allowing the consumers, which include vulnerable groups, access to affordable, reliable and modern energy services. The project covers the following SDGs:



#### 4 Project deviations

No deviations were identified during the project, except that due to Covid-19 travel restrictions, Elemenco was not able to send its own supervisor for system commissioning. This work was instead carried out by the Coordination and Management Consultant of the Finland Ukraine Trust Fund.

#### 5 Project lessons learnt

All the updates were minor but necessary. Given that public-owned entities are not allowed to sell any electricity they generate to the national grid, according to Ukrainian legislation, one of the main focuses when introducing energy-efficiency measures, such as the generation of electricity using renewable energy sources, should be the maximisation of consumption efficiency for a single consumer.