

OLEKSANDRIIA is the city with the population of 100.000 in the central part of Ukraine, which is moving towards energy independence and security.



Population - **90 thousand**.

Internally displaced persons - **10 thousand**.

Area - **55.5 square kilometers**.

Establishments of education, culture, and health care - **56**.

The city's heat supply system includes **20 boiler houses**, of which one boiler room has a cogeneration unit since 2015.

Today, there is a prospect of installing cogeneration units at 4 boiler houses – this requires international technical assistance funds in the amount of

999.900 Euro

Due to the constant shelling of energy facilities across the country, millions of Ukrainians will be left without heat and light this winter.

People will look for solution



Going abroad



Search for relatives and acquaintances in the villages



Schools and hospitals will be closed

But Oleksandriia has another option!

The Oleksandriia city council attracted international technical assistance from USAID for the Municipal Enterprise «Teplokommun-energo» under The Energy Security Project "ESP" for the installation of 4 cogeneration units with a total electric capacity of 1484 kW in the amount of 1.543.000 Euro.

Cogeneration units installation projects are implemented in accordance with the strategic priority for rational management, contribute to energy conservation and reduction of emissions into the environment.

The resulting cogeneration units will provide a sustainable heat supply to 232 houses, 16 educational institutions, 9 kindergartens and 9 hospitals.



On the photo: district boiler house

1. The district boiler houses – the largest in the city, must undergo reconstruction with the installation of connection points for the cogeneration unit QUANTO 1000 NGSE. It has a thermal power of Q_{yct} 42.9 Gcal/h, an electric power of P_{yct} 972 kW.

What work needs to be done? – Prepare the site, build a room to accommodate a cogeneration unit, connect to engineering networks.



Photo of the cogeneration unit



Heat load on the boiler house: 177 blocks of flats, 13 educational establishments, 5 kindergartens, 3 hospitals.



Photo of the cogeneration unit



Cost of the project – **750.460 Euro**

Identifier on the platform DREAM - 180324-8BF6D2F2.

Similar cogeneration units but of lower capacity, should be installed at other municipal boiler houses.

2. Boiler room No:3 with the arrangement of the connection point of the CENTO 120 C cogeneration unit: thermal power Q_{yct} 5,0 Gcal/h, electric power P_{yct} 148 kW.

Provides heat to 16 blocks of flats.

With the heat of generated electricity, it is possible to launch a school boiler room, and this is a heat supply for 400 students of the school.



Cost of the project - **91.640 Euro**

Identifier on the platform DREAM - **280224-7AEAB556**

3. Boiler house of the Southern microdistrict with the arrangement of the connection point of the KE-MNG 260 EKO-BE cogeneration unit: thermal power $Q_{\text{гцт}}$ 20 Gcal/h, electric power $P_{\text{гцт}}$ 211 kW. Provides heat to 22 blocks of flats, 1 school, 2 kindergartens.

Cost of the project - **100.150 Euro**

Identifier on the platform DREAM - **270224-41CBIDE2**



4. Boiler room №35 with the arrangement of the connection point of the KE-MNG 100 BS cogeneration unit: thermal power $Q_{\text{гцт}}$ 5,06 Gcal/h, electric power $P_{\text{гцт}}$ 130 kW. Provides heat to 17 blocks of flats and 2 kindergartens.



Cost of the project - **57.650 Euro**

Identifier on the platform DREAM - **270224-0291BD95**

The installation of cogeneration units will provide 90 % of electricity for the own needs of all four boiler houses of the Municipal Enterprise «Teplokommun-energo» during the heating season.



<https://olexrada.gov.ua/>

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THE OLEKSANDRIIA CITY COUNCIL

МОДЕРНІЗАЦІЯ СИСТЕМИ
ТЕПЛОЗАБЕЗПЕЧЕННЯ МІСТА

**MODERNIZATION OF THE
CITY'S HEAT SUPPLY SYSTEM**



2024

