KHERSON CITY

TERRITORIAL COMMUNITY

REBUILD UKRAINE
4TH INTERNATIONAL EXHIBITION | CONFERENCE
13-14 NOVEMBER 2024
CONSTRUCTION & ENERGY

2024 NOVEMBER

KHERSON CITY

The Kherson City Territorial Community, established in 2020, consists of 16 settlements and 6 starostas districts.

The total area of the community is 452.8 km².

The population as of February 24, 2022, was 317 700 people.

The population as of November 8, 2024, is 85 525 people.

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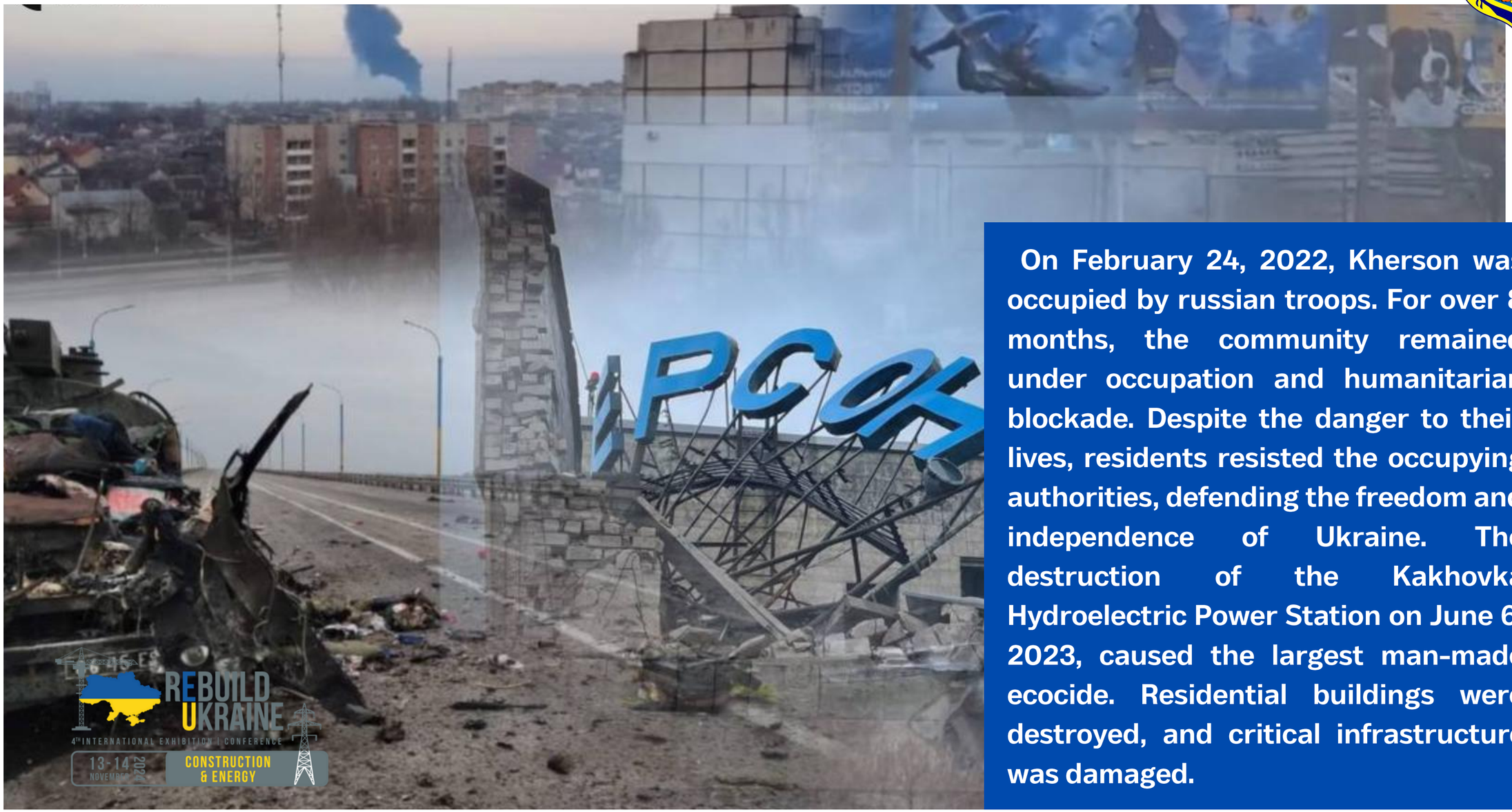
The Impact of the War on the Community



On February 24, 2022, Kherson was occupied by russian troops. For over 8 months, the community remained under occupation and humanitarian blockade. Despite the danger to their lives, residents resisted the occupying authorities, defending the freedom and independence of Ukraine. The destruction of the Kakhovka Hydroelectric Power Station on June 6, 2023, caused the largest man-made ecocide. Residential buildings were destroyed, and critical infrastructure was damaged.

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The Impact of the War on the Community

Kherson is shelled daily by the russian army. The shelling destroys critical and civilian infrastructure, as well as residential buildings. Destroying lives..

As of November 1, 2024, the following have been damaged and destroyed:

- 98 infrastructure facilities,
- 121 educational institutions,
- 5,779 private houses,
- 895 apartment buildings.

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Despite all the challenges that Kherson citizens face on a daily basis, life in the community is going on.

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Kherson City Military Administration is constantly working to search for reliable partners for reconstruction and development, actively participates in international events, aimed at the developing partnerships. In 2023-2024, Kherson City Territorial Community signed the Partnership Agreements with 8 European cities.

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Our partners

JICA

Chemonics

LEAD WITH EUROPE

VNG International

COMITE INTERNATIONAL GENEVE ICRC

care

unicef

acted

USAID ВІД АМЕРИКАНСЬКОГО НАРОДУ

Save the Children

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Our twin cities

Kherson City Council, together with international partners, twin cities, and international charitable foundations, is developing recovery and development projects.

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We have chosen the best international practices and values, as well as the achievement of European standards of living, as our development vector

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Reconstruction
OF THE HEATING NETWORKS OF THE KHERSON COMMUNITY

KHERSON CITY

Project Objective:

Reconstruction of heat energy production enterprises with the implementation of a geographic information management system. Ensuring stable, environmentally friendly heat supply, minimizing energy costs, and aligning with European quality standards.

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Development OF A HYDRAULIC SCHEME

KHERSON CITY

Project Cost: 350 000 EURO

The existing scheme was developed according to soviet-era standards and lacks energy efficiency.

The community requires an update and recalculation of the scheme.

Developing a hydraulic scheme is the first step toward further optimization and automation of heat energy production enterprises.

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Development OF A HYDRAULIC SCHEME

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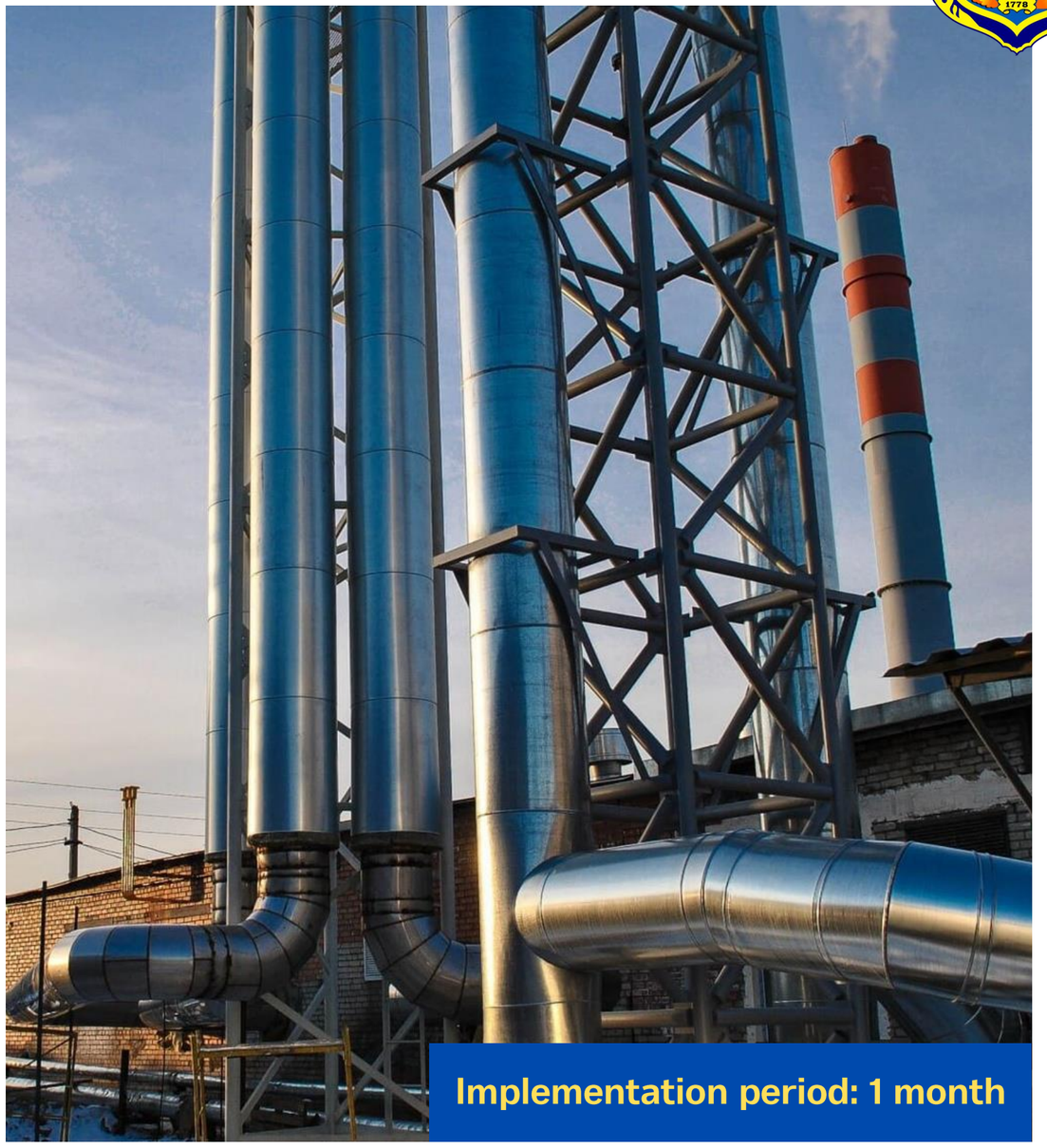
Project Objective:

Calculation of indicators for designing the heating supply system, optimizing equipment selection, and ensuring future automated management and control of network operations.



Implementation period: 1 month

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Reconstruction OF HEATING NETWORKS

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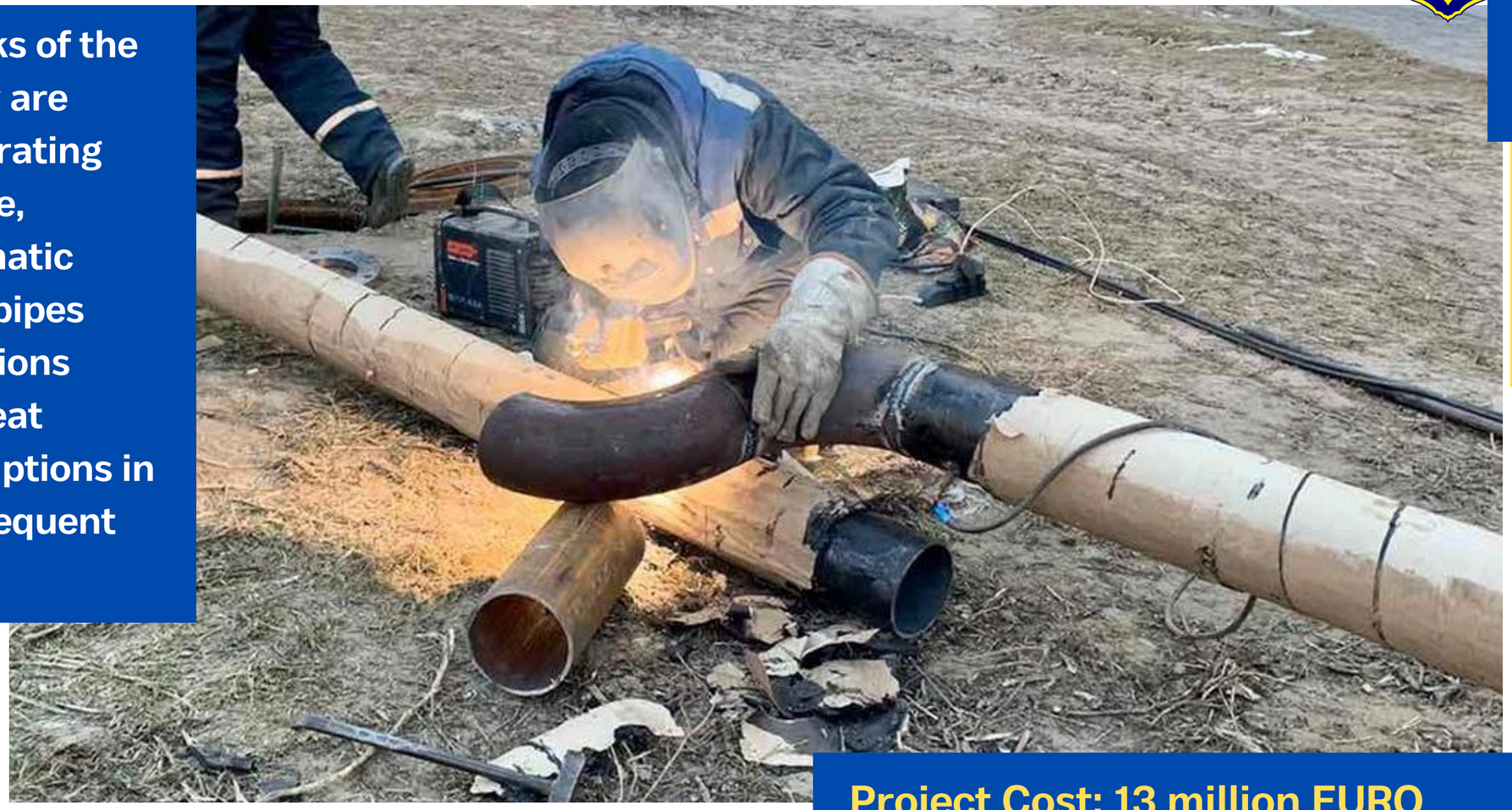
The heating networks of the Kherson community are significantly deteriorating due to prolonged use, flooding, and systematic shelling. Destroyed pipes and heating substations cause substantial heat losses (25%), interruptions in heat supply, and frequent emergencies.



Project Cost: 13 million EURO

Implementation period: 1 year

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Reconstruction OF HEATING NETWORKS

Project Objective:

Reconstruction of the heating networks, improving energy efficiency and safety of the systems, and ensuring uninterrupted heat supply to residential buildings, hospitals, and other socially important facilities. Replacement of pipes with pre-insulated ones equipped with a remote leakage monitoring system.

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Reconstruction OF COMMUNAL BOILER HOUSES

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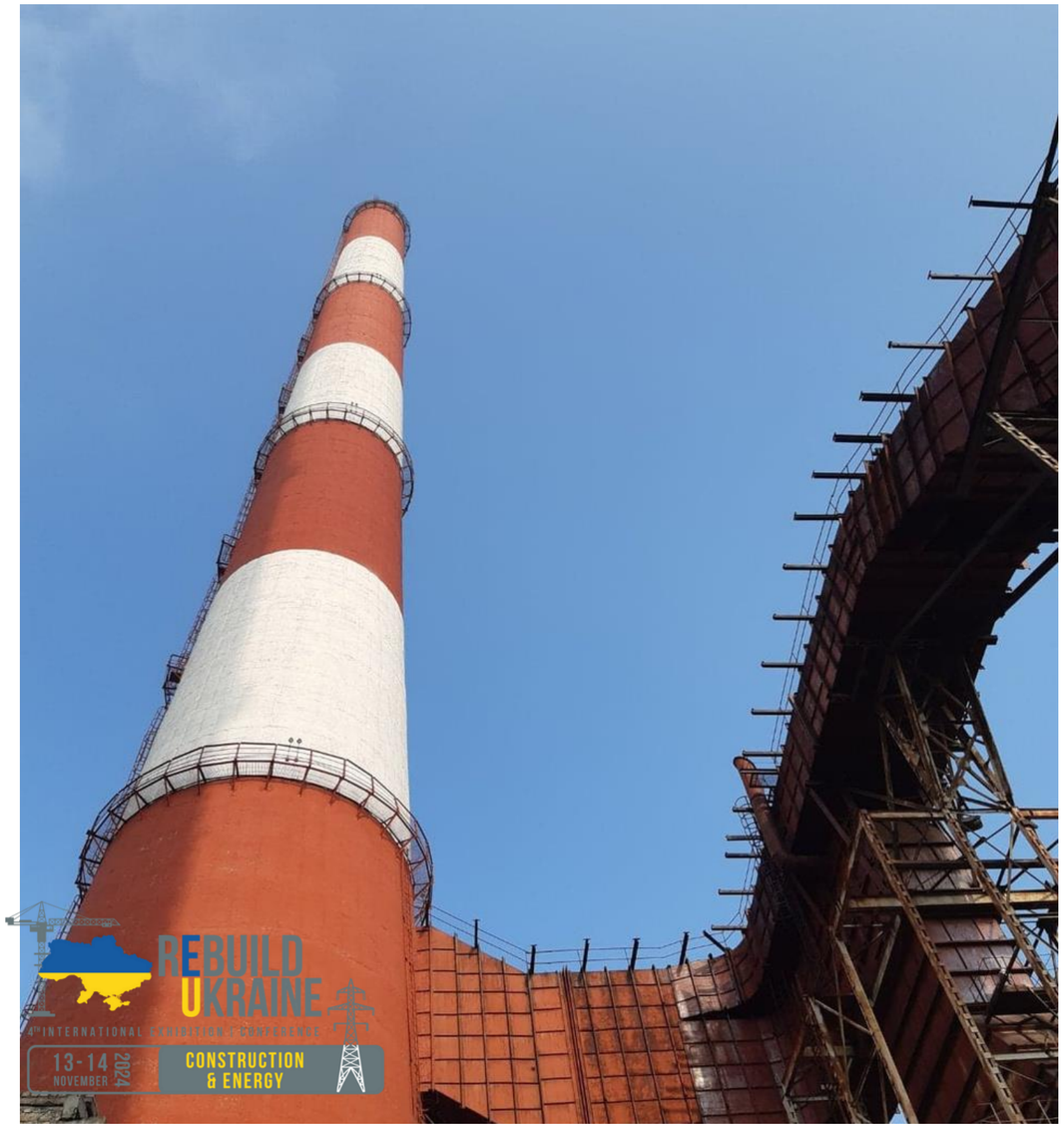

Project Cost: 17 million EURO

The high level of equipment wear and damage due to flooding and shelling has led to a critical state of the boiler houses. 44,000 subscribers, 85% of whom are community residents, face unstable heat supply during the heating season. The lack of automatic temperature regulation of the heat carriers under weather conditions results in additional costs, which are covered by the community budget.

Implementation period: 3 year

Reconstruction OF COMMUNAL BOILER HOUSES

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Project Objective:

To provide the community residents with a stable heat supply, improve energy efficiency in heating, and reduce energy losses.

The project aims to comply with European standards and environmental sustainability processes, including reducing greenhouse gas emissions.

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BOILER HOUSE on Ivana Bohuna Street

Years in Operation: 47 years

Serves: 21 000 subscribers

Capacity: 236 MW

Requires: Complete reconstruction

Measures:

- Installation of four modern energy-efficient gas water heating boilers with condensing economizers, each with a capacity of 21 MW.
- Construction of a Flexible Cogeneration Station with an electrical capacity of 1.5 MW.
- Construction of a Heat Pump Station (HPS) based on treatment facilities, utilizing modern high-efficiency "water-to-water" heat pumps with a capacity of 5 MW.
- Installation of Individual Heating Substations in multi-apartment buildings.

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BOILER HOUSE on Volodymyr Velykyi Street

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Years in Operation: 27 years
Serves: 7 000 subscribers
Capacity: 69.79 MW
Requires: Complete reconstruction

Measures:

- Installation of three modern energy-efficient gas water heating boilers with condensing economizers, each with a capacity of 12 MW.
- Construction of a gas-piston cogeneration station with an electrical capacity of 1 MW to meet the boiler house's own energy needs.
- Replacement of auxiliary equipment and energy carrier regulation and accounting units with a high-tech system for preparation, regulation, accounting, and delivery of heat carriers to consumers.

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BOILER HOUSE on Ostrivske Highway

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Years in Operation: 43 years
Serves: 9 000 subscribers
Capacity: 247.5MW
Requires: Complete reconstruction

Measures:

- Installation of three modern energy-efficient gas water heating boilers with a capacity of 11.6 MW each.
- Construction of a gas-piston cogeneration station with an electrical capacity of 1 MW to meet the boiler house's own energy needs.
- Replacement of auxiliary equipment and energy carrier regulation and accounting units with a high-tech system for preparation, regulation, accounting, and delivery of heat carriers to consumers.

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Geographic Information Management System (GIS)

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Project Cost: 44 million EURO

The lack of automated control over the production and distribution of thermal energy complicates the operation of heating networks and makes it impossible to improve the efficiency of process management.

One of the key stages of the reconstruction is the implementation of effective management of centralized heating supply.

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Geographic Information Management System (GIS)

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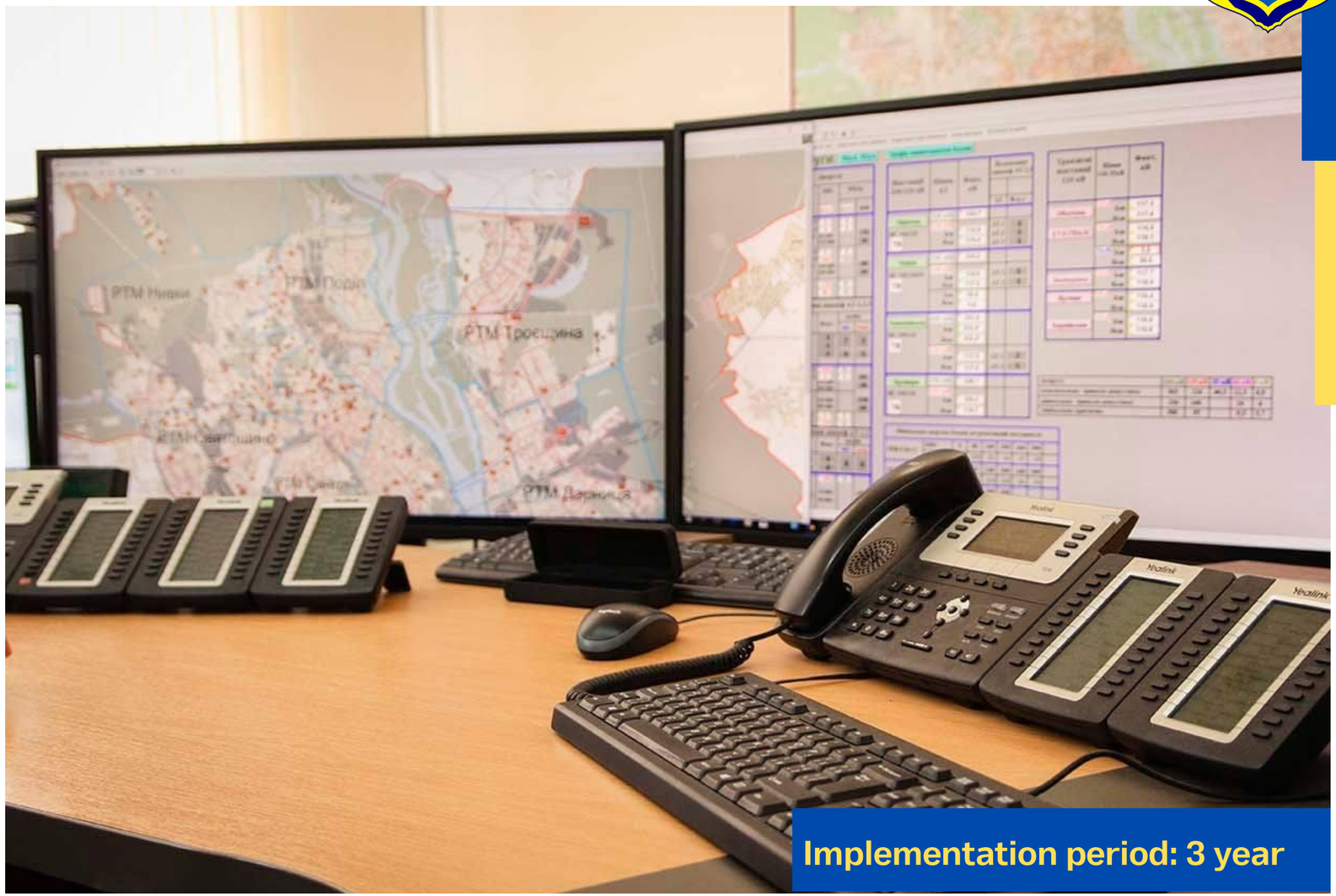
Project Objective:

To consolidate data on the heating networks and equipment serving 44,000 subscribers. Achieve full automation and dispatching of the management of technological processes in heating supply.



Implementation period: 3 year

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Indicators of the Project for the Reconstruction and Modernization of Thermal Energy Production Enterprises in the Kherson Community:

- Reduction of fuel and energy resource consumption by 30%.
- Decrease in heat losses (through the implementation of modern technologies and materials) by 25%.
- Ensuring stable heat supply for 90% of community residents.
- Reduction in the number of accidents, downtime, and heat outages by 70%.
- Optimization of routes and minimization of response time for emergencies.
- Remote monitoring of network operability.
- Improvement in equipment utilization efficiency
- Decrease in the cost of thermal energy production.
- Automated management of heating networks by 100%.
- Reduction of CO2 emissions into the atmosphere by 30% and NOx by 20% untill 2032.
-

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IMPACT on the Community:

Project Cost: 74.4 million EURO

The implementation of the project will reduce the financial burden on 44,000 subscribers and result in budget savings for the Kherson community. It will automate the control over the technological processes of thermal energy production and distribution, ensuring a stable supply of thermal energy during the heating season and promoting an ecological approach to resource management within the community.

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