



Public Union

"Ukrainian Fund of Energy Efficiency and Energy Saving"

# CONSULTING ASSISTANCE IN THERMAL MODERNIZATION



LEVEL UP  
FOR UKRAINE



# About the Public Union



## Public Union “Ukrainian Fund of Energy Efficiency and Energy Saving”

- Established in 2021.
- Our mission is to rebuild Ukraine and bring it to a higher standard of living by implementing effective modernization methods and innovative projects.
- Our goal is to promote efforts that bring stimulating tools and methods to increase building energy efficiency and to apply new EU environmental safety requirements in Ukraine.
- A collection of specialist businesses that offer a whole cycle of work on funding raising, project planning, and implementation make up the PU.

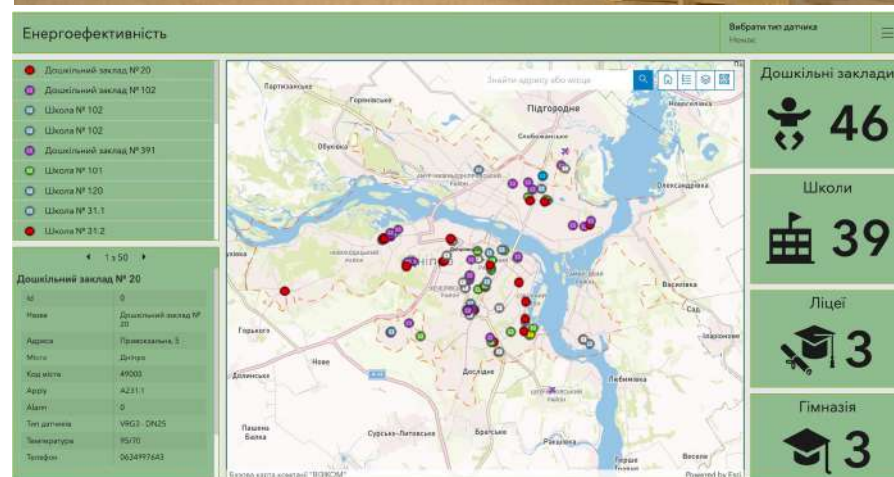


# Energy efficiency implementation

The objective of PU's endeavors in the realms of energy efficiency, energy conservation, and thermal modernization is to achieve an Energy Independent Ukraine.

## Actions in this direction:

- Creating conditions to attract investments in the economy for the renewal and rebuilding of Ukraine based on the principles of energy efficiency and energy saving.
- Energy consulting. Expert support for energy efficiency and thermal modernization projects.
- Participation in the construction of infrastructure and residential objects based on the principles of minimizing energy resources through the introduction of progressive technologies in the field of energy saving.
- Establishing a unified platform for both equipment and material suppliers and contracting organizations where everyone can exchange their experiences.





# Thermomodernization of budget institutions

Implementation of energy-saving measures in 84 children's institutions (Dnipro) and 66 children's institutions (Kremenchuk).

- Thermo-modernization of buildings facade structures
- Replacement of windows
- Thermo-modernization of ceilings, basement slabs
- Modernization/installation of automatic heat supply units
- CO coolant flow regulators installation
- Heat energy meters installation
- Heat supply system pipes installation
- Activities in the internal heating system

## Achieved results

- thermal energy saving from **25%**;
- reduction of electricity costs from **30%**



# Activities of the PU in the field of implementation energy efficiency

## Reconstruction of boiler house heating networks in Zhytomyr

- Installation of steel welded valves in thermal units;
- Dismantling of existing insulated steel pipes T1 and T2 from TK-5 to TK-9 in the existing tunnel;
- Dismantling of existing insulated steel hot water pipes in the existing tunnel;
- Dismantling of steel valves in heat units;
- Installation of steel pre-insulated pipes with polyurethane and metal shell "SPIRO" in the existing tunnel.



# Renovation and replacement of windows. Joint project with the UN

A large-scale project to replace windows and doors in homes affected by Russian military aggression is underway in cooperation with UNDP.

- The project covers 16 regions of Ukraine
- Measurements and preparatory work have been carried out in the regions participating in the project.
- As of the beginning of October 2023, more than **4000** square meters of new windows have been installed in the communities of Kyiv, Lviv, Rivne, Chernivtsi, and Dnipro regions.
- Compliance with international standards of quality and energy efficiency of windows is certified by UN representatives





# Energy-efficient thermal modernization measures

- Analysis of energy supply sources and calculations and proposals for the implementation of alternative sources (heat pumps, solar collectors, solar panels).
- Energy audit of buildings. Analysis and determination of necessary measures for the energy-efficient operation of buildings.
- Insulation of external enclosing structures.
- Replacement of outdated windows and door structures with energy-efficient ones.
- Replacement of incandescent lamps with energy-efficient ones (if necessary, based on the calculation of the regulatory lighting of different purpose premises).
- Installation of motion sensor luminaires.
- Installation of individual heating stations and balancing of heating systems.
- Insulation of heating mains.
- Use of ventilation systems with heat recovery.
- Development and installation of a Building Management System (BMS) for a building or complex of buildings, allowing efficient remote control and use of energy carriers.





# Consulting program "Energy efficiency and thermal modernization"

The program includes the preparation of documentation packages for attracting funding for thermal modernization projects.

**Thermal modernization objects:** educational institutions (schools and kindergartens), medical facilities, and other public buildings.

**End beneficiaries:** small and medium-sized towns and communities.

## Implementation participants:

- Financing: EBRD, EIB, UNDP, NEFCO, UNICEF.
- Implementation, management, and control: Ministry of Infrastructure of Ukraine
- Loan agreement with the End Beneficiary: Ministry of Finance of Ukraine.





# Helping communities prepare the necessary documents to participate in thermal modernization programs:

- Report on the energy audit of buildings.
- Report on the results of the inspection, prepared in accordance with the Procedure for conducting an inspection of commissioned construction objects.
- Conclusions and recommendations, including the scope of work for thermomodernization measures.
- Development of a calendar plan for the implementation of the thermomodernization project.
- Energy management.
- Production of an energy certificate after project implementation.
- Further implementation and support.



# Advantages of the PU UFEES

- Existing experience in implementing thermal modernization projects
- Existing results of thermal modernization implementation
- Previous experience in implementing investment projects, including with the participation of international financial organizations: EBRD, EIB, UNDP, NEFCO, UNICEF
- The GS portfolio contains information on the composition and cost of past investment projects for thermal modernization of buildings with a focus on energy efficiency



# Contact us for interaction

**ONOVA** ЛІГА  
ООНВЛЕННЯ  
УКРАЇНИ

Chairman of the Board of Public Union "Ukrainian Fund of Energy  
Efficiency and Energy Saving"

**Stefanovych Yehor**

infotechua@gmail.com

+380 67 652 81 88

<https://ufees.net/en>

<https://onova.org.ua/en>

