

European Union Covenant of Mayors Demonstration projects: results in figures

Project: Modernisation of the District Heating
System and a Kindergarten
in Zhovkva, Ukraine

Project budget: 860.000 EUR
EU grant: 688,000 EUR (80%)
City contribution: 172,000 EUR (20%)
Project duration: 2015-2019
Beneficiary: Community of Zhovkva
municipality (Ukraine)

What was done?



Kindergarten "Kalynonka"

- Comprehensive thermal refurbishment of the building
- New ventilation and air conditioning systems
- Modernized heating, lighting, electricity and water supply systems
- Solar collectors for hot water preparation

Boiler House for 4 residential buildings and "Kalynonka" kindergarten

- New 500 kW biomass boiler, 950 kW gas boiler and ancillary equipment
- 2 km of pre-insulated district heating pipes
- Equipment for preparation of wood chips



Multi-apartment buildings

- 4 new individual heating substations for improved regulation of energy consumption

What was achieved?



323 MWh/y, or **34%** of energy savings

=

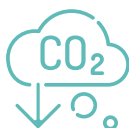


annual energy consumption of **17,699** mobile phones

=



annual energy consumption of **2,991** TVs



363 t/y reduction of CO₂

=



annual emissions from **233** new cars

=



16,500 trees needed to be planted to absorb such amount of CO₂



816 MWh/y of clean energy production from renewable energy sources

=



annual energy consumption of **45,479** mobile phones

=



annual energy consumption of **7,685** TVs



Monetary savings **80,000 EUR** annually

=

9 % of total budget of Zhovkva municipality

Who benefits?



548 inhabitants of multi-apartment buildings have 23% lower energy bills and may regulate their heat consumption depending on their needs.



170 children have more comfortable temperature and humidity conditions in the kindergarten, the incidence of influenza and colds has gone down by 27%.



41 staff members of the kindergarten work in more comfortable indoor conditions and can use generated hot water for dish-washing. The costs saved may be used for other needs of the kindergarten and for payment of bonuses to staff members.



36 people (project team, construction workers, experts, etc.) employed in project implementation contributed to the local economy.

The Covenant of Mayors is the world's largest movement for local climate and energy actions, supported by the European Union. In the Eastern Partnership region, over 400 local authorities have voluntarily committed to reduce their CO₂ emissions by at least 20% by 2020 or 30% by 2030. The European Union has been supporting the Initiative in Eastern Partnership countries since 2011 with its technical, methodological and financial assistance of over 30 million Euro. This includes grants and tailor-made technical support for 34 municipalities for demonstration projects since 2015, predominantly in the area of energy efficiency.