




The first energy efficient district in Ukraine

Zhovkva Town Mayor
Petro Vykhopen



Founded in 1594

**Square
764 ha**

**1603 Magdeburg
Rights**

**Budget 600
thousand euros**

**Historic and
tourist town**

**13,400
population**



45 kW



69 kW



106 kW



67 kW



160 kW

The boiler house



631 kW

The network length:
800 m
Diameter:
45-150 mm

The planned results of energy efficiency:



By means of the energy efficient sanitation, according to theoretical calculations, it is possible to save more than 70% of heat energy. Estimated gas saving under this concept is 344900 m³ / year. As a result of the kindergarten modernization, the energy consumption of the building will decrease by 102 MWth / year. After the modernization of the heating networks the heat losses during the modernization will be decreased up to 20%.



After implementation of all activities under this concept, the reduction of greenhouse gas emissions is expected to be 1200 t / year. The total cost of activities under the concept exceeds 1,2 million euros.

Our achievements for today



The heat network has been replaced with pre-insulated pipes

Energy losses reduced from **17 % to 5 %**



The kindergarten №2 has been thermo-modernized

The energy consumption reduced from **123,6 to 80,7 MWth·h/year**

The indoor temperature has increased from **15-17 °C to 21-23 °C**

The incidence of children decreased for **20 %**



4 individual heating units have been installed in residential buildings

Energy consumption reduced for **12 %**

Reduction of the tariff for heat energy by **10 %**



Thank You!

ЖОВКВА

*енергоефективне
місто*