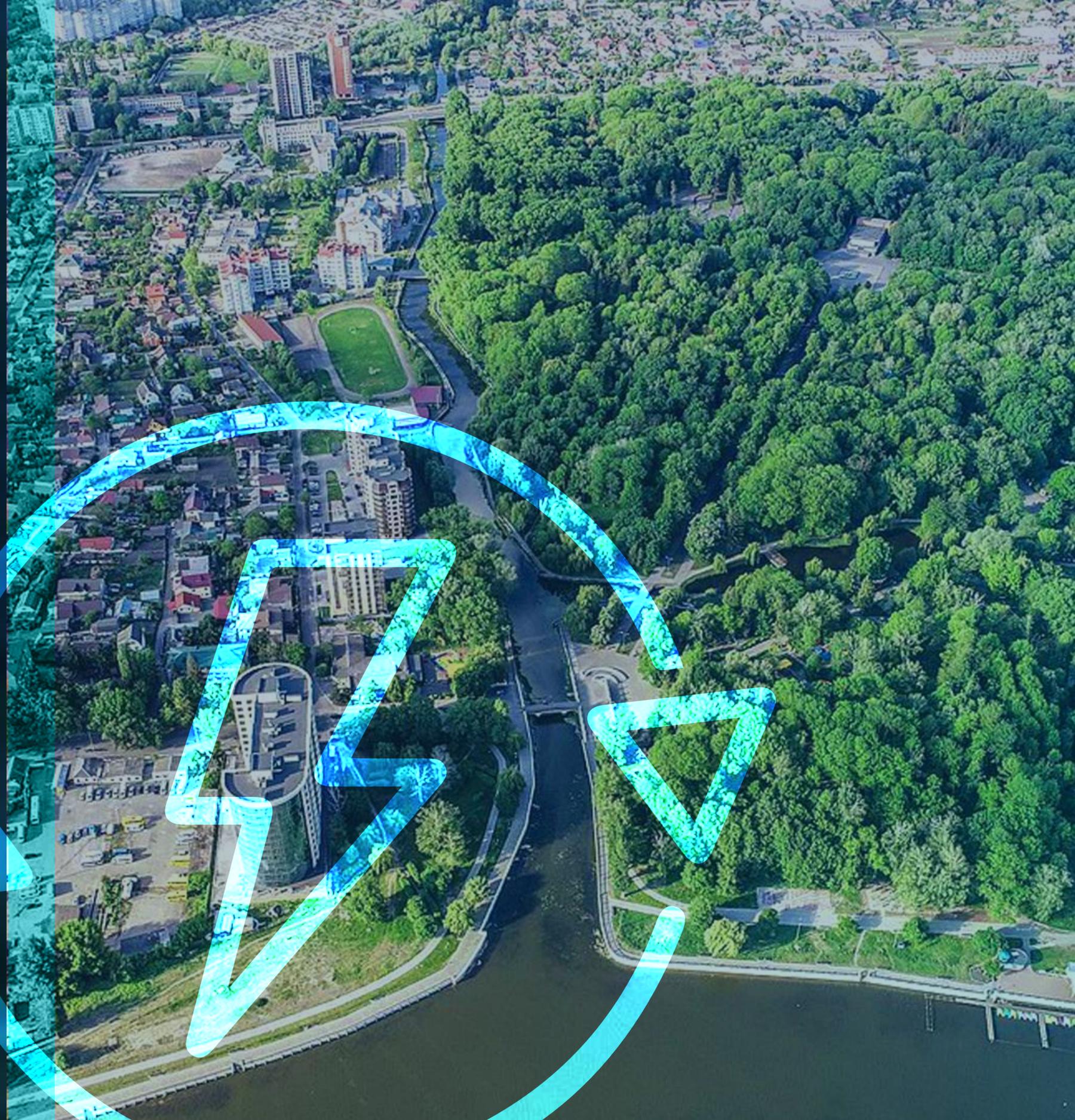




Khmelnytskyi
territorial community:

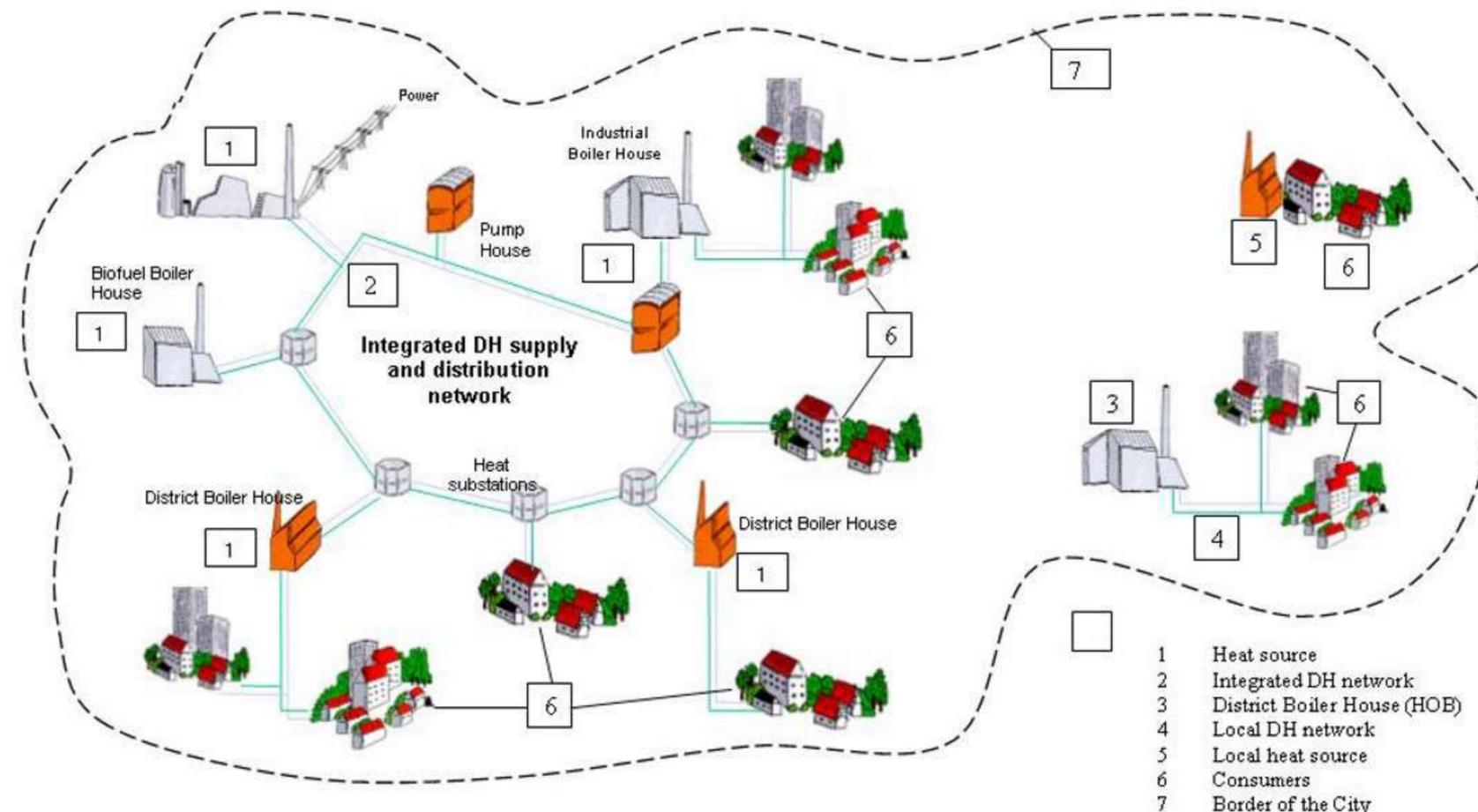
**PROJECTS
IN THE FIELD
OF ENERGY
EFFICIENCY**





ENERGY ISLAND: CONSTRUCTION OF UNITED ENERGY- INDEPENDENT CLUSTERS BASED ON THE HEAT AND WATER SUPPLIES AND SANITATION FACILITIES

15 COGENERATION UNITS
with a total thermal capacity
of **10.5 MW and 7.5 MW**
of electricity have already
been installed at the
DH (District Heating) facilities.



THE PROJECT: boiler houses (large and medium capacity), central heating stations (providing heating) and water and sewerage pump stations (communal facilities) are connected into one network – ensuring resilience and independence during missile attacks on energy infrastructure and protection against blackouts in the city power grid.

THE AMOUNT OF INVESTMENT:

- **Scenario 1** – estimation is underway.
- **Scenario 2** – about \$7,000,000

SOLAR PHOTOVOLTAIC STATIONS



PROJECT PARAMETERS:

225 kW
TOTAL ELECTRIC
POWER

INSTALLED ON

6

HEALTH CARE FACILITIES

3

HOSPITALS

15 kW, 50 kW, 60 kW

3

CLINICS

30 kW, 50 kW, 20 kW

RDF-FIRED HEAT & POWER PLANT

(CENTRAL POWER PLANT TO RDF)



PROJECT PARAMETERS:

3.5 MW
ELECTRIC
POWER

11 MW
THERMAL
POWER

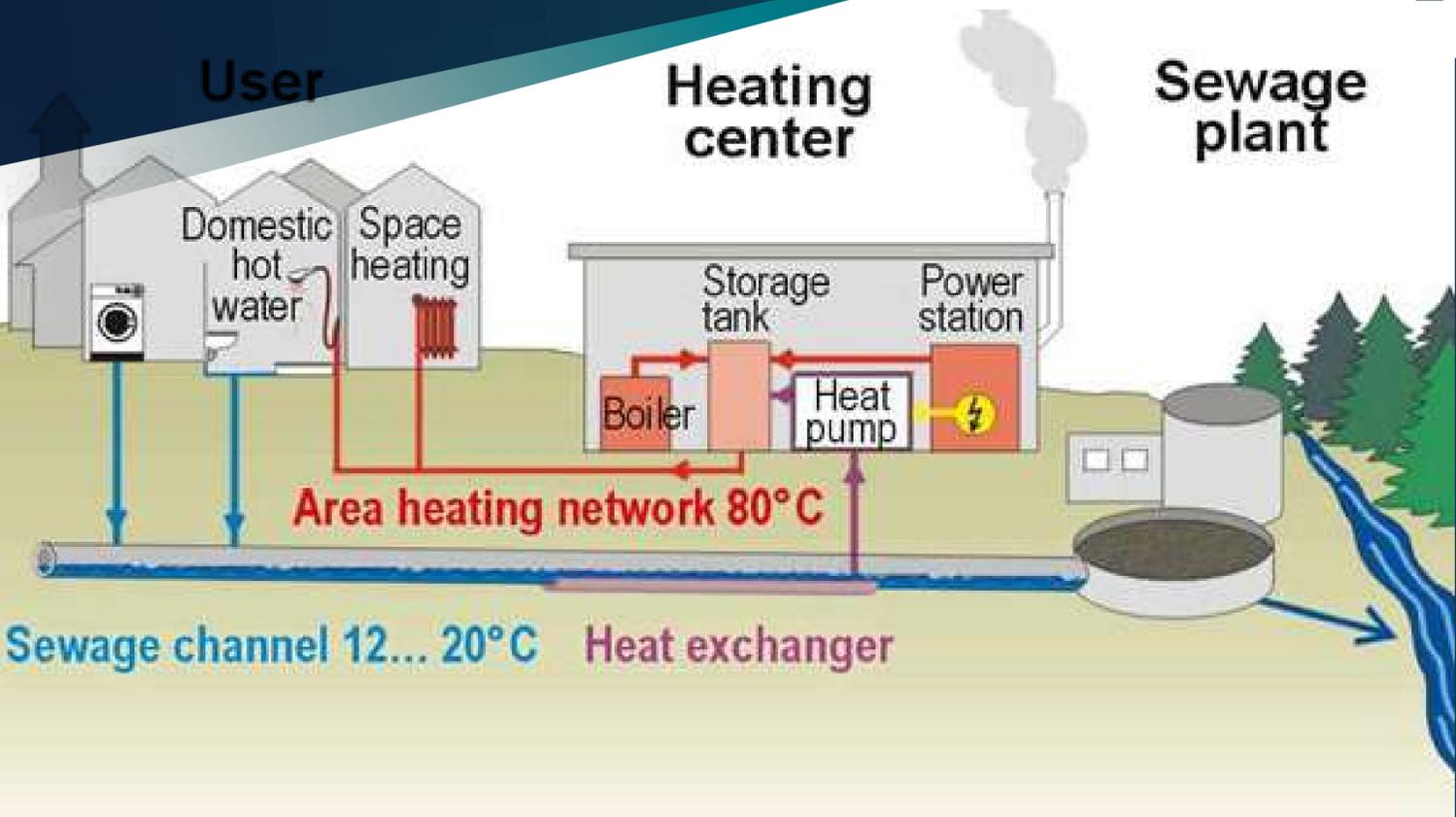
\$3 million
ANNUAL
COST SAVINGS

IMPACT ON THE CITY:

- Increased energy security of the city;
- Recycling of waste (RDF) from the waste processing plant, which is under construction;
- Reducing the city's dependence on gas.



CONSTRUCTION OF A HEAT PUMP ON WASTEWATER AND INTEGRATION INTO THE HEAT SUPPLY SYSTEM



PROJECT PARAMETERS:

1 MW
THERMAL
CAPACITY

700,000 m³
SAVINGS IN NATURAL GAS
EQUIVALENT PER YEAR

\$150.000
ANNUAL
COST SAVINGS

IMPACT ON THE CITY:

- Transition to clean energy;
- Maximum usage of electricity generated from own sources and at a lower cost than on the market;
- Reducing the city's dependence on gas.



Thank you for your attention!

Mykola VAVRYSHCHUK

Deputy Mayor of Khmelnytskyi

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