

# DHS Zhytomyr



(Municipal enterprise «Zhytomyrteplokomunenergo» of Zhytomyr city council)

- Location: **Zhytomyr, Ukraine**
- Ownership: **municipal**
- Grid: **207 km** (owned by the municipality)
- Customers: **1,952 buildings**
- Production: **563,299 MWh** (2017)
- Boiler output: **789 MW** (204 boilers)
- Type of DHS: **hot water**
- Current fuel: **natural gas**
- Potential renewables nearby: **biomass**



Source: DHS Zhytomyr web-site, tke.org.ua

**Investment plans (2020-2025):**  
**Biomass CHP unit with ORC technology, complex modernization of network subsection**, installation of new natural gas boilers, replacement of pipelines, and installation of individual heating units.

For more information:

<http://www.keepwarmeurope.eu/country-pages/ukraine/>

# Complex modernization and switching to biomass



### Primary investment drivers:

- Internal development plans
- network and equipment conditions
- available financing sources

### Strategic background documents:

- Sustainable Energy Action Plan of Zhytomyr city for 2015-2024
- National energy efficiency, renewable energy and climate policy



### Stakeholder involvement:

- Leading: **Zhytomyr city council**
- Other: **international financial organizations, customers, contractors**

### Required resources:

Financial investment:

**9.8 million EUR**

Other: **equipment and materials, energy resources, incl. biomass**



### Results:

- RES heat increase: **158,909 GJ per year**
- Primary energy savings: **101,322 GJ per year**
- Emissions: **↓17,472 tonnes CO<sub>2e</sub> per year or 13%**
- Internal rate of return: **7-32%** depending on intervention and assumed natural gas prices

**Want to support our modernization projects?**

**Contact us using the information below!**

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