

DHS Ternopil



(Municipal utility district heating company “Ternopilmiskteplokomunenergo” of Ternopil City Council)

- Location: **Ternopil, Ukraine**
- Ownership: **municipal**
- Grid: **152 km** (owned by the municipality)
- Customers: **over 42,000**
- Production: **471,597 MWh** (2018)
- Boiler output: **709 MW** (137 boilers)
- Type of DHS: **hot water**
- Current fuel: **natural gas**
- Potential renewables nearby: **biomass**



Source: DHS Ternopil web-site, teplo.te.ua

Investment plans (2020-2025):
10 MW and 4 MW biomass boilers,
modernization of boiler houses,
replacement of pipelines, and
installation of individual heating
units.

For more information:

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

Increasing biomass share in heat supply



Primary investment drivers:

- **Modernization Program for the District Heating and Hot Water Supply System of Ternopil city for the period 2016-2020**
- **available financing sources**

Strategic background documents:

- **Sustainable Energy Action Plan of Ternopil city up to 2020**
- **National energy efficiency, renewable energy and climate policy**



Stakeholder involvement:

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

Required resources:

Financial investment:
4.9-6.9 million EUR
Other: **equipment and materials, energy resources, incl. biomass**



Results:

- RES heat increase:
271,256 GJ per year
- Emissions:
↓14,820 tonnes CO_{2e} per year or 12%
- Internal rate of return:
13-54% depending on the intervention and assumed natural gas prices

Want to support our modernization projects?

Contact us using the information below!

- Mr. Andriy Chumak
- zvern.kptmtke@ukr.net