Stakeholders involved LWG

- EPBiH/R&D dept. (3 members)
- EPBiH/CHP Tuzla (2 members)
- Distribution utility Tuzla (4 members)
- City council (1 member)
- Consumers associations (1 member)
- Buildings managers (1 member)

Cooperation with

- Thermal engineers' association in BiH
- Association of district heating companies in FBiH

Benefiting from

- Advices by project partners (AGFW, Solites, Optit)
Success stories from demo cases: Tuzla, Bosnia and Herzegovina

Upgrading measures implemented and planned

What has been done before

- Replacement of heat exchangers in thermal substations.
- Replacement of old distribution pumps by electronic pumps.
- Replacement of distribution pipe networks.
- SCADA and Thermis – district heating network digitalized.

Upgrading measures developed to resolve hydraulics issue and improve energy efficiency

- Upgrade the main pipeline.
- Replacement of the existing main network pump with new frequency regulated main network pumps - for each DH system separately.
- Installing temperature limiters on the main return pipe on the primary side of the house substation.
- Optimization of operation two cogeneration units + Theraml storage.

Introducing RES modules into Tuzla DHS

- Solar thermal, biomass co-firing and deep geothermal.
What has been realized during Upgrade DH project (2018-2021)

Installation of temperature limiters
✓ In 2021 temperature limiters installed on the main return pipe on the primary side of the house substation in two building blocks to reduce temp. T2 (return) and T3 (radiators).

Replacement of distribution pumps
✓ In 2020, 60 distribution pumps have been replaced by new electronic pumps.

Converting Tuzla Unit 6 into CHP unit (modernization of MP turbine + steam extractions)
➢ In 2020 Contract awarded to GE (Alstom), in 2021 main design completed, Works realization planned in first quarter of 2022.

Biomass co-firing on CHP Tuzla Unit 6
➢ In 2021 Study on 0.15% biomass co-firing is conducted within BIOFIT project.