

Reliable Energy Landscape Project

# District Heating Metering

Reliable Energy Landscape  
Project

DHM

- Pilot incentive for **Installation of thermostatic valves, heat meters and HCA** for about 17,500 residential customers of DH Termokos, Prishtina
- Support Energy Regulator with design of thermal energy pricing methodology and model for consumption-based tariffs
- Support the Termokos' corporate upgrade transition from spatial billing to consumption-based billing as well as upgrading the consumer's database with new software for pricing and billing.
- Support Termokos in preparing an operation and maintenance plan (e.g., maintenance intervals of technical components, service contracts, spare parts, estimation etc.);
- **Total Budget USD 10.9 million**
- Implementation Consultant: **Decon International GmbH & iC consulenten**
  - Contract was signed on 31rd of October 2019 — USD 1,402,718.00
  - Contract was extended at no cost until June 2022.

## District Heating Metering (DHM)

Pre—Implementation  
Phase: December 2019—  
July 2020

- Kick off meetings,
- Inception Report,
- Operation Manuals and Plans.
- Baseline Technical Buildings Studies
- Household Survey and Technical Survey
- BC&O Strategy
- Metering Systems Tendering Package,
- MoU with Termokos

## District Heating Metering (DHM)

Implementation Phase  
planned timeline:

August 2020—  
September 2022

- Co-financing MoU with Prishtina Municipality
- Tender Package for Metering System Supply and Installation
- **Meters, Heat Cost Allocators, Thermostatic Valves and Software's for reading, metering and billing purposes**
- Training, capacity building, and regulatory support as well as Termokoses support on maintenance and tariff application process.
- **New District Heating Pricing Rule and Tariffs**
- **Behavior Change and Outreach Campaigns**
- Monitoring and Evaluation
- Environmental and Social Impact Compliance
- Gender and Social Inclusion Compliance

## District Heating Metering (DHM)

### Implementation Phase:

- **January 2021 – ongoing**

- Tender published in March 2021 and the two rounds of over 150 clarifications were provided.
- 10 JV Companies have applied and TEP members elected - 2 Independent.
- Co-funding agreement with Municipality of Prishtina is signed - 2 million Euro already allocated.
- Pricing Rule Finalized and Tariff Model is finalized and Board approval and public consultation Training/Workshop was held and follow-up activities are being carried out.
- Substation Data from Termokos to be obtained and analyses on baseline data are in process.
- Information campaign to Termokos customers started.

# District Heating Metering (DHM)

- Implementation Phase:

- January 2022 – End of THP

- Contract Negotiations with the contractor ENERCO for **Meters, Heat Cost Allocators, Thermostatic Dynamic Valves, and Software's Installation**
- Tripartite Agreement between Termokos, Municipality, and MFK for the Project assignment after the TED is signed
- Expiry of the IC contract and extension of QSCS scope of the contract until November 2022 is signed
- Project Closure V3 outline and strategy are resubmitted to MCC

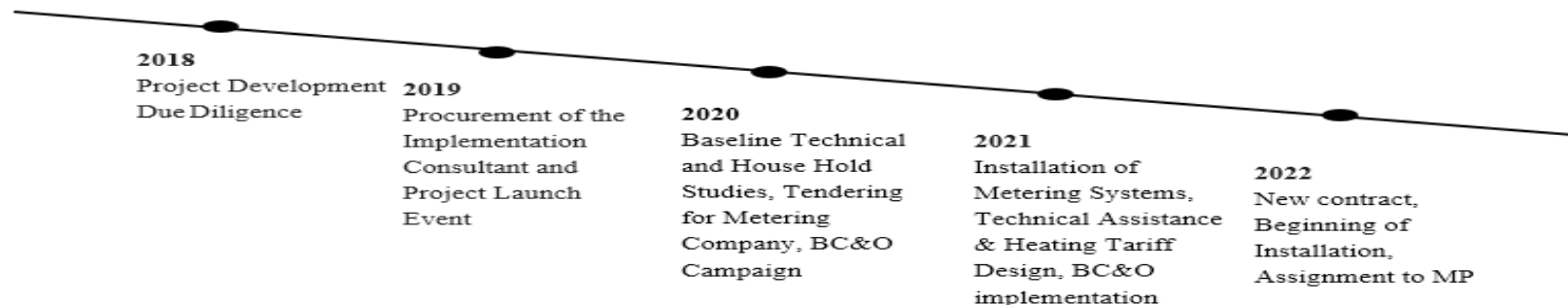
## District Heating Metering (DHM) - Summary

The aim of these interventions are:

- Installation of measuring equipment in 17,500 apartments to reflect consumption-based heat metering
- Installation of thermostatic heating valves with built-in balancing function on radiators.
  - 72,500 Thermostatic radiator valves
  - 51,300 Heat Cost Allocators
  - 4.500 heat meters
  - Support regulator with the design of consumption-based tariffs.
  - Support the Termokos' corporate upgrade transition from spatial billing to consumption-based billing as well as upgrading the consumer's database with new software for pricing and billing.

Total Budget

- MFK:  
\$10.9 million
- Municipality:  
€2 million



DHM

## District Heating Metering (DHM)

### Implementation Phase:

activities :

January 2022 – ETHP

### DHM

- In April 2022 Contract is signed with ENERCO LLC in JV with Interadria LLC, HFC Grupa and TI-SAN d.o.o an as the supply contractor for **Meters, Heat Cost Allocators, Thermostatic Dynamic Valves, balancing valves, Heat Circulating Pumps and Software Installation for the DHM activity**
- Training on GSI and ESMP for Termokos and the new contractor has been held and several other follow up trainings have been made.
- **Continued Behavior Change and Outreach Campaigns** targeting more regions of Prishtina are done on social media, posters, and Viber groups in cooperation with Termokos and MP



## Implementation Phase:

- January 2022 – ongoing

### District Heating Metering (DHM)

- **100% of surveys are completed in all districts and hydraulic calculations** are expected to be finished until 28 October 2022. Orders are made upon results of these calculations,
- **The installation has started** on 22<sup>nd</sup> of July and will finish until 23.03.2023 as predicted with implementation schedule.
- **Pricing rule of thermal Energy** is approved from MFK
- Assistance to Termokos on new system of invoicing and billing is planned to be provided

## District Heating Metering (DHM) - Summary

### DHM

- The implementation is structured in two parts:
- Technical surveys and installations;
- Designs are provided for all districts. Hydraulic analysis is provided and BOQ designed for all surveyed apartments.
- Installation has started on 22. July 2022
- Apartments are identified with red stickers if for more than 2 attempts were not found at home

## Implementation plan

DHM

- Duration of the project is 294 days
- Delays on orders for pumps due to results of delays on Hydraulic analysis.
- Final designs with Hydraulic calculations latest 28 October 2022.
- Risk for not ordering the total quantities and items as per BOQ

Updated Time Schedule			
	Duration	Start	Finish
<b>Survey, installation and reporting Project Plan</b>	<b>294 days</b>	<b>8-Apr-2022</b>	<b>31-Mar-2022</b>
<b>Site Survey and design Substations and Apartments</b>	<b>151 days</b>	<b>4-May-2022</b>	<b>28-Oct-2022</b>
Ulpiana	81 days	4-May-2022	8-Aug-2022
Kodra e Diellit	92 days	16-May-2022	31-Aug-2022
Qendra	100 days	30-May-2022	23-Sep-2022
Dardania	110 days	10-Jun-2022	17-Oct-2022
Kalabria	100 days	4-Jul-2022	28-Oct-2022
Private Houses	59 days	22-Aug-2022	28-Oct-2022
Passive Apartments			
<b>Installations</b>	<b>185 days</b>	<b>27-Jul-2022</b>	<b>6-Mar-2023</b>
Ulpiana	45 days	27-Jul-2022	16-Sep-2022
Kodra e Diellit	47 days	22-Aug-2022	14-Oct-2022
Dardania	47 days	28-Sep-2022	21-Nov-2022
Qendra	66 days	8-Nov-2022	28-Jan-2023
Kalabria	50 days	5-Jan-2023	6-Mar-2023
Private Houses	25 days	30-Jan-2023	28-Feb-2023
Passive Apartments			
Installation of pumps, DP, and Balancing Valves	119 days	30-Oct-2023	23-Mar-2023

# District Heating Metering Activity – Millennium Foundation Kosovo

- 17,500 customers to be equipped with Heating Control and Metering Equipment (Valves, HCA, Meters, Pumps, etc)
- Contract signed on April 8, 2022
- July 22 – Start of Installations
- Total contract value - €9,315,170

## Installations until now:

- 10025 apartments until November 29, 2022
- €7,7 million or 83% of the contract value.
- Tripartite Agreement between MFK, Municipality and Termokos for continuation of the project after November 2022.

## Behavior Change and Outreach Campaigns:

- Viber Group (over 3000 participants), social media (MFK, Termokos, Municipality), Media buy-in (TV and Radio Adds), banners, stickers, posters, interviews, podcasts, etc.

## Regulatory and Termokos Support:

- New Pricing Rule and Tariff Methodology of Thermal Energy is approved by ERO
- Assistance to Termokos on a new system of invoicing and billing ongoing, GSI, ESP, customer care, etc