



WP3. Stakeholder engagement, change of perceptions and empowerment

Task 3.2.

Deployment of capacity building to key actors

WEBINAR 5 – DISTRICT HEATING, ALL YOU

EVER WANTED TO KNOW!

On line 13th March 23

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# BECoop: European *partnership* 4 Bioenergy communities

- **BECoop:** *Unlocking the community energy potential to support the market uptake of bioenergy heating technologies*
- **Durata:** 1° November 2020– 31 October 2023
- **Budget totale:** 2.999.375 €
- **7 Stati membri involved**
- **12 european partner**

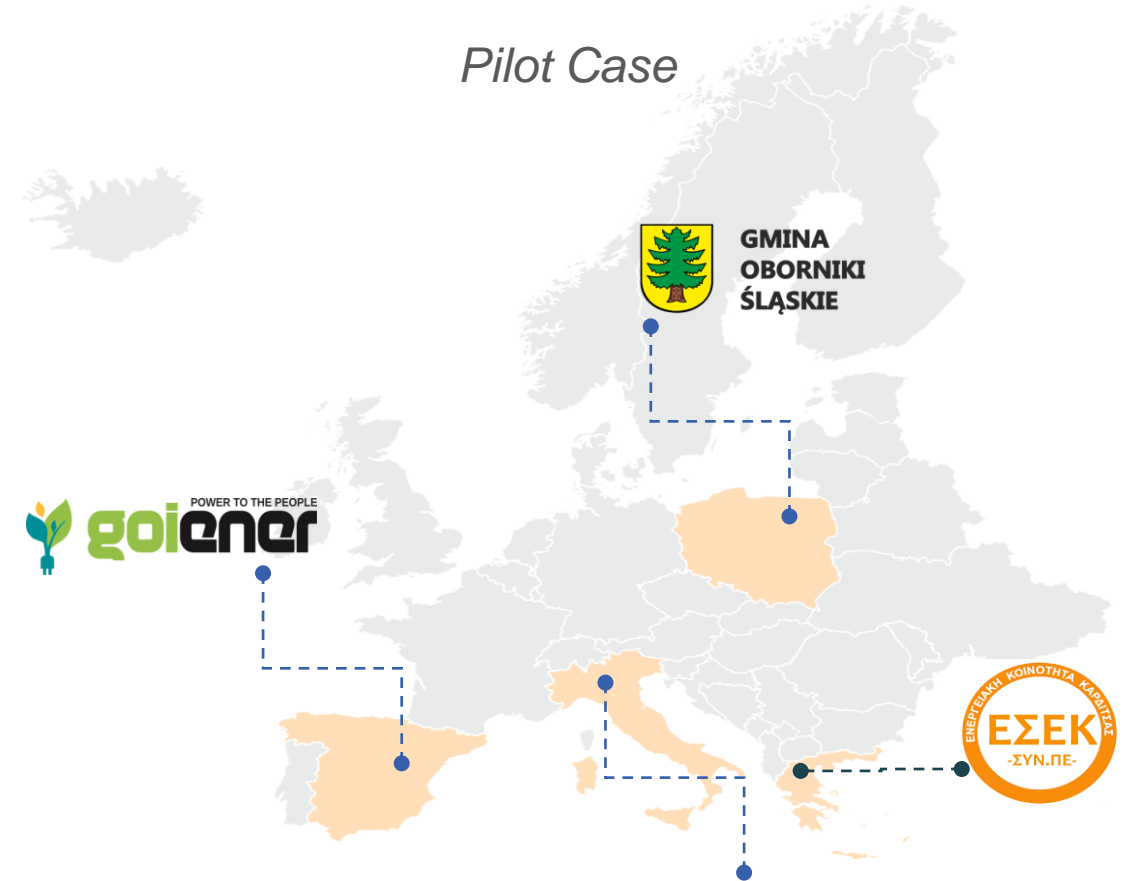
## *Research institutes and cooperatives*



WROCLAW UNIVERSITY  
OF ENVIRONMENTAL  
AND LIFE SCIENCES



## *Pilot Case*







**FIPER**, Federazione di Produttori di Energia da Fonti Rinnovabili, represents companies operating in the **biomass-energy supply chain**.

**28 Companies and forestry consortiums, 96 operators of biomass district heating plants**, together to produce programmable thermal and electrical energy starting from the valorization of local resources in the territory.

From the **use of woody residues from forest sustainable management**, the Federation's goal is to actively promote a **circular economy model** that creates development for the so-called "inland areas" where the plants are located, playing a leading role in reducing climate-changing emissions.

We promote projects that represent "**Renewable Energy Communities**," **implemented with the involvement of local people, enterprises and institutions**.



# Fiper's numbers



96 impianti associati



28 consorzi forestali  
4000 imprese micro indotto



800.000 t/annuo  
Biomassa legnosa impiegata



364.000 t/annuo  
CO2 evitata



80 M€/annuo  
fatturato di  
energia  
termica



1150 MWt  
contrattualizzati 30  
MWe  
1590 km rete





- **Location:** Tovo S. Agata, Lovero, Mazzo, Valtellina, Lombardia Region

## Focal points:

- Improve management of local forest
- Creation of local wood biomass community
- Reduce dependency on fossil fuels
- Improve territorial protection



## Initiator/BeCoop Pilot partner:

Fiper: expertise in start-up and management of wood biomass chain and district Heating; skills for promoting new projects of Bioenergy REC



- Mountain area, with huge forest and cultivations.
- **Tovo San Agata, Mazzo and Lovero**: 3 municipalities interested to implement a sustainable forest management through the start-up of a biomass district heating system

## Potential biomass supply chain in this 3 municipalities:

- (i) **500 ha** of **public forest** situated in high altitude
- (ii) **970 ha** of **private forest**
- (iii) Huge potential from **apple and grapevine pruning**

Estimation:

**1.500 m3 /y** Forest residues

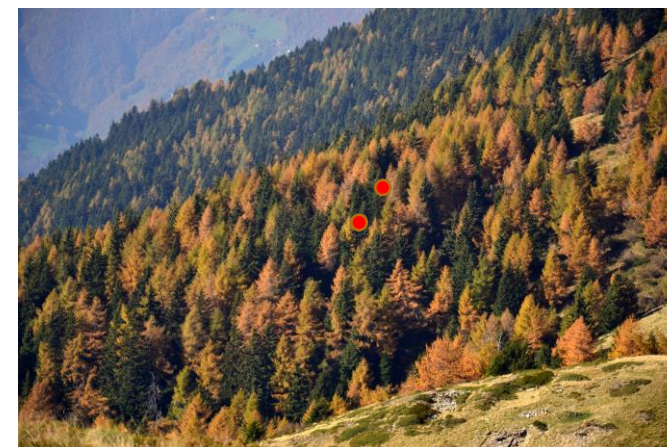
Several boundary conditions make this pilot **promising** for the aims of BeCoop

Expert local forestry companies

Motivated local public administrators

Mixed final users, including also local companies and cooperatives

Long-lasting expertise on biomass DH in the same areas (<https://tcvvv.it>)





## Pre-design information

Zone Climate: F  
the coldest in Italia  
Heating degree days: 3020 °Cd

### Lovero

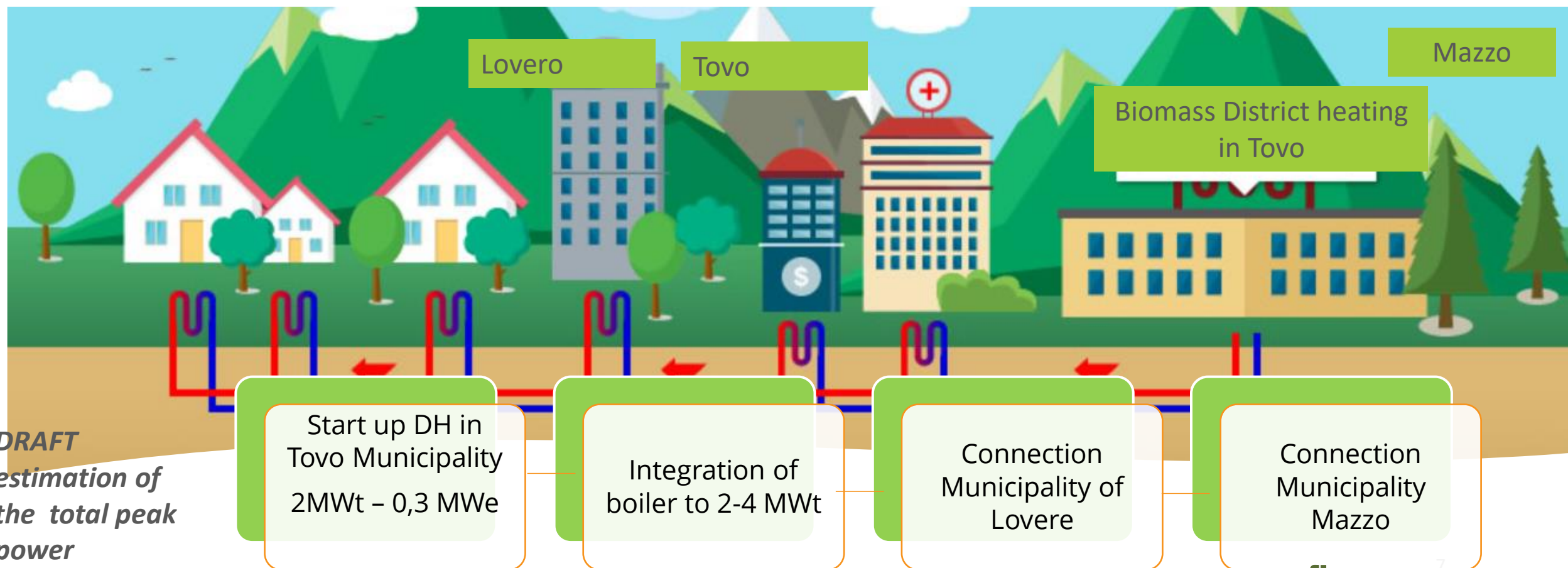
Inhabitants 633  
Families 280  
Building 290

### Tovo Sant'Agata

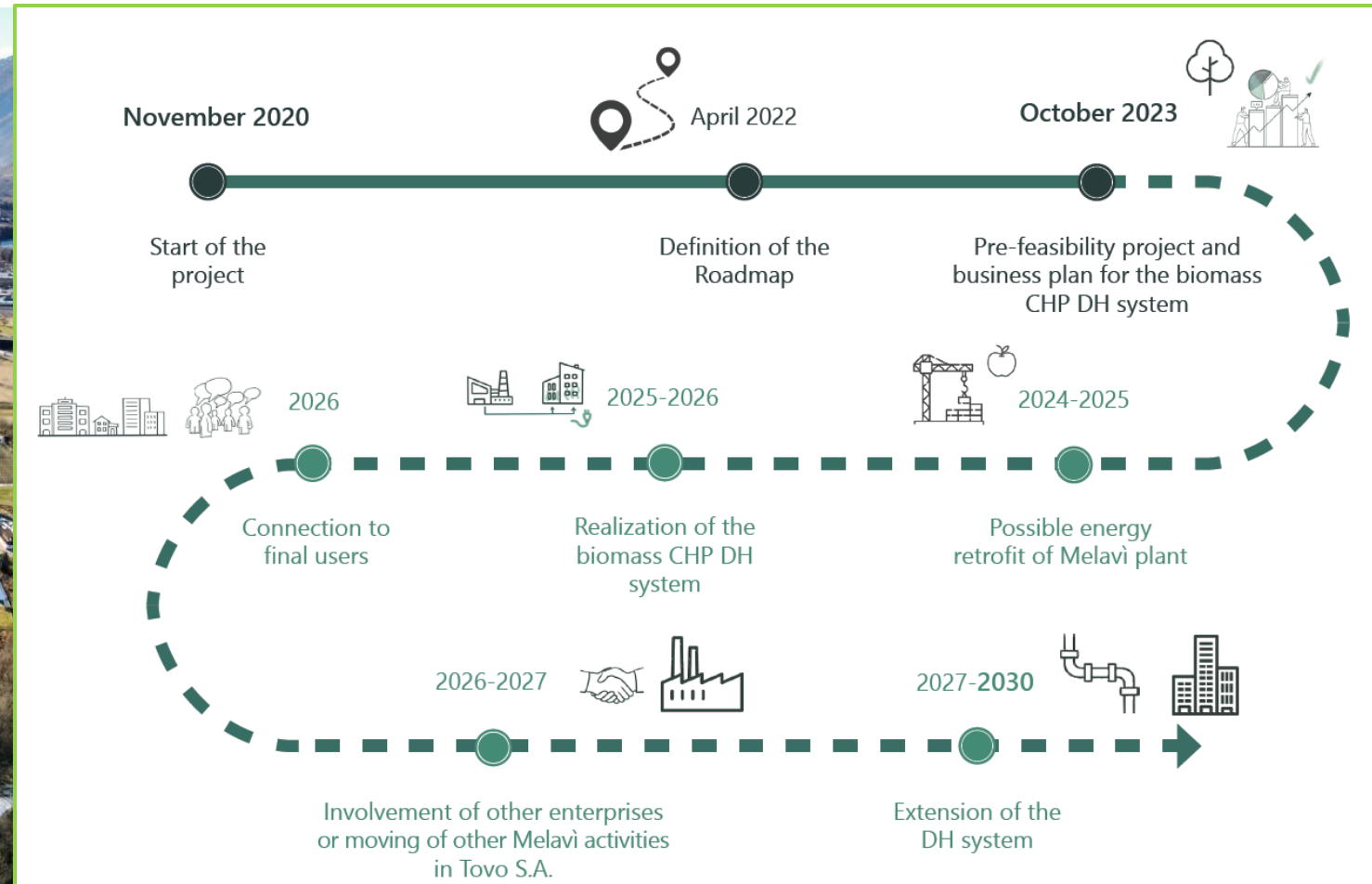
Inhabitants 648  
Families 260  
Buildings 253

### Mazzo

Inhabitants 1017  
families 300  
Buildings 340



# The Mortirolo district heating pre-feasibility project in Valtellina. From the Horizon 2020 to realisation?







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