

WP3 – Summary Results/Indicators of Investment Plans carried out for the GAL Mongioie in Italy.

- 3 pictures of concerned buildings



- General description of the pilot and its location

The Investment Plan involve 14 public buildings belonging to 9 municipalities, namely Monastero Di Vasco, Niella Tanaro, Ormea, Pamaparato, Roburent, Roccaforte Mondovì, Saliceto, San Michele Di Mondovì and Garessio, all of them belonging to the Mongioie group (GAL Mongioie). All Municipalities are settled in the province of Cuneo, in the South part of the Piemonte Region. Six buildings are office buildings, four are schools and then there are two leisure centers and two health care centers. The overall heated surface of the pool of the buildings is nearly 9.000 sqm, with an heated volume of about 47.000 cubic meter and a baseline consumption of 55.500 cubic meter of natural gas, 370 MWh of district heating and 38 tons of biomass. The buildings are quite different each other. For each building an energy audit has been performed (outside of project budget), and on that basis a financial simulation has been implemented in order to fix baselines and key data for the EPC investment Plan.

- Responsible project partner details

Organisation name	Piemonte Region Environment Park
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- Summary/Results Indicators

No. of Municipalities/Public Bodies involved	9 Monastero Di Vasco, Niella Tanaro, Ormea, Pamaparato, Roburent, Roccaforte Mondovi', Saliceto, San Michele Di Mondovì and Garessio
No. of buildings (bundled EPC)	14
Heating Degree Days	2.800-3.300
Heated volume (m3)	26.294
Usable area (m2)	8.927
Total Investments needed (€)	715.661
Loan by the Public Body? If yes, amount (€)?	No
Available public funding/incentives considered (€)	The National incentive "Conto termico" About half of the investments
VAT (%)	22%
Energy vector included? If yes, related value (i.e. €/standard cube metre of methane gas and or €/kWhe)	Yes. 0.12 €/kWh for district heating 0.55 €/Sm3 for natural gas 253 €/ton for biomass
O&M included? If yes, related value (€)	Yes 13.000 €/y

Typology of Conservation (description)	<p>ECM- Energy Measures</p> <p>A set of measures for each building such as:</p> <ul style="list-style-type: none"> • change of heating system • insulation of roofs • insulation of envelopes • energy management system <p>The above list is only indicative and details are provided for each building in the audits. In any case it is the ESCO that is asked to provide its own solutions during the bid delivery.</p>
Energy saving (%)	For each Municipality and energy curries a minimum energy saving target is fixed, it ranges from 26% to 41%.
kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits)	<p>For each Municipality and energy curries an energy baseline is fixed. In total the following baselines have been defined:</p> <ul style="list-style-type: none"> • 113.647 Smc for natural gas • 368.419 kWh for district heating • 39 tons for biomass
Avoided CO2 emissions (kgCO2/y)	NA