

WP3 – Summary Results/Indicators of Investment Plans carried out by AESS in the province of Forlì

- **3 pictures of concerned buildings**

		
Kindergarten - Bertinoro	High school Palazzo Studi- Forlì	Primary school - Forlimpopoli

- **General description of the pilot and its location**

The analysis concerned the buildings owned by the Municipalities of Bertinoro, Castrocaro Terme and Terra Del Sole, Civitella di Romagna, Forlì, Forlimpopoli, Meldola, Predappio.

The buildings being analyzed are mainly scholastic (classified as E.7 according to Presidential Decree 412/93 and subsequent amendments), with included gyms for some of them (category E.6 (2), and offices (E.2).

Only the Forlimpopoli and Predappio Administrations include in the present Service all buildings currently managed by an expiring Heat Service.

For the purposes of the elaboration of the Investment Plan 2017 year has been taken as energy baseline.

For each Energy Audits a wide number of improvements in terms of energy efficiency have been proposed.

- **Responsible project partner details**

Organisation name	AESS
Name of the STEPPING referent	Giulia Prampolini – Lisa Sentimenti
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- **Summary/Results Indicators**

No. of Municipalities/Public Bodies involved	7									
No. of buildings (bundled EPC)	63									
Degree Days	2.435									
Heated volume (m3)	309.748									
Usable area (m2)	60.214									
Total Investments needed (€)	6.302.000 €									
Loan by the Public Body? If yes, amount (€)?	No									
Available public funding/incentives considered (€)	40% National Incentive named “Conto termico (GSE)” 1.329.000 € from ROP ERDF Emilia-Romagna Region									
VAT (%)	22%									
Energy vector included? If yes, related value (i.e. €/standard cube metre of methane gas and or €/kWhe)	<table border="0"> <tr> <td>Methane</td> <td>Smc/y</td> <td>1.852.034</td> </tr> <tr> <td>Oil</td> <td></td> <td>795.206</td> </tr> <tr> <td>Cogeneration</td> <td>kWh/y</td> <td></td> </tr> </table>	Methane	Smc/y	1.852.034	Oil		795.206	Cogeneration	kWh/y	
Methane	Smc/y	1.852.034								
Oil		795.206								
Cogeneration	kWh/y									
Contract duration (years)	9-15 years									



O&M included? If yes, related value (€)	174.0173 €/Y			
Typology of ECM- Energy Conservation Measures (description)	A wide number: from new systems to envelope insulation interventions.			
Energy saving (%)	27,13%			
kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits)	Natural Gas (Smc) ante	Natural Gas (Smc) post	(kWh) ante	(kWh) post
	1.852.034	1.802.977	795.206	579.433
	19.421.724 ANTE kWht			
	18.907. 279 POST kWht			
	Savings kWhe: 215.773			
Saving kWht: 514.445				
Avoided CO2 emissions (kgCO2/y)	108.033 kg CO2/y (t)			

