

WP3 – Summary Results/Indicators of Investment Plans carried out by each STEPPING partner

- 3 pictures of concerned buildings



**Vouvalio Hospital -
Kalymnos**



**Technical School -
Limnos**





Primary School
Chrysomilia - Fournoi

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

The project is focusing in two large areas of the Aegean Archipelago, the North and South Aegean Regions, including 3 Municipalities in the North and 1 in the South. This division serves the purpose of including buildings of different architectural typology in different regions and different climate zones.

The Initial approach adopted by AEGEA was to look for buildings not supported by ESIF and that are fit for EPC, namely buildings that are energy intensive and are subject to multiple uses. (e.g. Hospitals/town halls). Yet the limited number of hospitals on islands, the fact that ESIF has been made available for the retrofitting of schools along with the general reluctance from municipalities to opt for EPC have resulted in selecting schools and opting for the combination of ESIF with EPC.

Another reason for selecting schools, is that together with hospitals, they receive the highest evaluation under the ESIF evaluation criteria. Therefore, to secure funding, submitting proposals for hospitals and schools was the only choice.

Visits were undertaken to 26 schools in 13 islands; some of them have been granted funding; others have submitted proposals that are still under evaluation. The Municipalities involved and the buildings selected are the following:



STEP UP TO ENERGY EFFICIENCY !



- Responsible project partner details**

Organisation name	AEGEA
Name of the STEPPING referent	Kostas Komninos
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- Summary/Results Indicators**

No. of Municipalities/Public Bodies involved	4
No. of buildings (bundled EPC)	11
Degree Days	1.115 combined Heating (base : 18 ° C) and Cooling Degree Days (base : 28,5 ° C)
Heated volume (m3)	29.250
Usable area (m2)	9.750
Total Investments needed (€)	2.395 k€
Loan by the Public Body? If yes, amount (€)?	Not available
Available public funding/incentives considered (€)	Up to approximately 90%
VAT (%)	24%
Energy vector included? If yes, related value (i.e. €/standard cube metre of methane gas and or €/kWhe)	No
O&M included? If yes, related value (€)	No



Typology of ECM- Energy Conservation Measures (description)	<p>Improvements in envelope insulation</p> <p>New heating systems</p> <p>Improvement in building's Energy Management</p> <p>Replacing lightning - new LED luminaires</p> <p>Solar DHW systems installed</p> <p>Windows and doors replacement with new Low-E frame and glass</p> <p>Sensors (light, movement) installed</p> <p>RES installation</p>
Energy saving (%)	79
kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits)	<p>Ante : 3 153 MWh / year</p> <p>Post : 663 MWh / year</p>
Avoided CO2 emissions (kgCO2/y)	578 795 kg CO2/year

