




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

- 3 pictures of concerned buildings

| | |
|--|---|
|  | <p>Vouvalio Hospital - Kalymnos</p> |
|  | <p>1° Primary School - Kalymnos</p> |
|  | <p>Vatheos Primary School</p> |

- General description of the pilot and its location

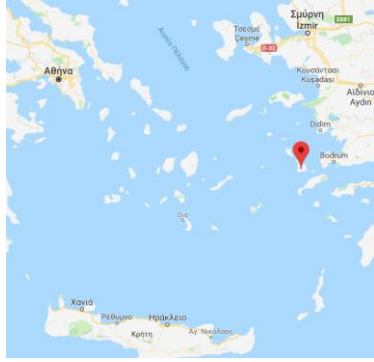


- The project is focusing in the South Region of the Aegean Archipelago, in the Municipality of Kalymnos. Kalymnos is one of the most populated islands of the Aegean with a high population density.

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 coupled with the general reluctance from municipalities to opt for EPC have resulted in selecting schools and opting for the combination of ESIF with EPC. Moreover, municipalities with an (island) Sustainable Energy Action Plan have been prioritized.

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.

In the case of Kalymnos Municipality, a hospital and two schools were selected:

| Municipality | Population | Province | Settlement | |
|---|------------|--------------|----------------|--|
| Kalymnos | 16.179 | South Aegean | Kalymnos Vathy |  |
| Buildings: <ol style="list-style-type: none"> 1. Kalymnos Hospital 2. Primary School of Kalymnos 3. Primary School of Vathy | | | | |

- **Responsible project partner details**

| | |
|-------------------|-------|
| Organisation name | AEGEA |
|-------------------|-------|



| | |
|-------------------------------|--------------------------|
| Name of the STEPPING referent | Alkisti Florou |
| e-mail | alkisti@aegean-energy.gr |

- **Summary/Results Indicators**

| | |
|--|---|
| No. of Municipalities/Public Bodies involved | 1 |
| No. of buildings (bundled EPC) | 3 |
| Degree Days | 1.115 combined Heating (base : 18 ° C) and Cooling Degree Days (base : 28,5 ° C) |
| Heated volume (m3) | 17625 |
| Usable area (m2) | 5875 |
| Total Investments needed (€) | 1034 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) | Improvements in envelope insulation |



| | |
|--|---|
| | <p>New heating systems</p> <p>Improvement in building's Energy Management</p> <p>Replacing lighting - 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 (%) | 55 |
| kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits) | <p>Ante : 2815 MWh / year</p> <p>Post : 1781 MWh / year</p> |
| Avoided CO2 emissions (kgCO2/y) | 515 496kg CO2/year |

