

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
Chryssomilia - 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:





| Municipality | Population | Province | Settlement | |
|---|---|-----------------|---|-------------------------------------|
| Limnos | 17.000 | North Aegean | Moudros | рета Пловдив Abgusyounokn K |
| Buildings: 1. Techr | iical School of | Moudros | Ελλάδα Σμύρνη Izmir Ο Αθήνα χαία χμιάα | |
| Psara | 446 | North Aegean | Psara | Todvárkoľo Canakaje AIBOAL AValik |
| Buildings: 1. Primary School of Psara 2. Local Infirmary 3. Multipurpose Hall 4. Municipal Hall | | | | Agrya Koua Kua |
| Fournoi Korseon | 1.313 | North Aegean | Chora Chrissomilia Thymaina | A Jobil Ayyak Zipipen Izmu Ceense |
| Buildings: 1. Primary School of Thymaina 2. Primary School of Chrysomilia 3. Primary School of Fournoi | | | | Adriva Kooser Rugada Didan |
| Kalymnos | 16.179 | South Aegean | Kalymnos Vathy | Abryc Koodynbo Alforo |
| 2. Prima | inos Hospital ry School of K ry School of V | • | Sodum Sodum Morrid Plagure High kein Ketti Fr Neukkon | |





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

