

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

- **3 pictures of concerned buildings**



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

The pilot in Malta included five public buildings with a proposal for their energy retrofitting and the financial strategic planning. Three schools, in three different localities (Qormi, Santa Lucja and Kirkop) were selected for the pilot, with significant differences in terms of energy consumption and building's construction techniques. Other two buildings owned by the Government, one being the Local Council Association building and the other the Birgu Local Council were object of the retrofitting proposals and the investment plan under the concept of the EPC contract. The investment plan bundles together the three schools and seeks the achievement of energy savings targets, the upgrade of the indoor comfort and financial return on investment. Since no EPC regulation is into force in Malta and that the public authorities has own funds to be allocated for the refurbishment, the pilot focused on how to use EPC models to create a tendering scheme that includes awards premium parameters for bidders that can offer the best quality-performance for energy savings.

- **Responsible project partner details**

<p>Organisation name</p>	<p>MIEMA - Malta Intelligent Energy Management Agency</p>
<p>Name of the STEPPING referent</p>	<p>Erika Massa</p>



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• **Summary/Results Indicators**

<b>No. of Municipalities/Public Bodies involved</b>	<b>5</b>
<b>No. of buildings (bundled EPC)</b>	<b>3</b>
<b>Degree Days</b>	<b>Heating degree days : 544</b>
<b>Heated volume (m3)</b>	<b>70000</b>
<b>Usable area (m2)</b>	<b>20500</b>
<b>Total Investments needed (€)</b>	c.a. <b>1,500,000 (only EE measures)</b>  c.a. <b>2,100,000 (including RES)</b>
<b>Loan by the Public Body? If yes, amount (€)?</b>	<b>no</b>
<b>Available public funding/incentives considered (€)</b>	<b>Yes, to be determined</b>
<b>VAT (%)</b>	<b>18</b>
<b>Energy vector included? If yes, related value (i.e. €/standard cube metre of methane gas and or €/kWhe)</b>	<b>no</b>
<b>O&amp;M included? If yes, related value (€)</b>	<b>no</b>
<b>Typology of ECM- Energy Conservation Measures (description)</b>	<ul style="list-style-type: none"> <li>• Intervention on the building envelope: replacement of glazed apertures, shading</li> </ul>



	<p>devices.</p> <ul style="list-style-type: none"> <li>• Intervention on roof insulation and wall insulation where possible</li> <li>• Climate-controlled Air-conditioned systems upgrade</li> <li>• Replacement of water boilers</li> <li>• PV panels installation (not in the energy saving calculation)</li> <li>• Upgrade of lighting system and control</li> </ul>
<b>Energy saving (%)</b>	<b>30.00% (excluding RES)</b>
<b>kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits)</b>	<p><b>Ante: 350000 kWh/year</b></p> <p><b>Post: 245000 kWh/year</b></p>
<b>Avoided CO2 emissions (kgCO2/y)</b>	<b>173252 kgCO2/y (excluding RES)</b>

