

WP3 – Summary Results/Indicators of Investment Plans carried out by the Regional Energy and Environment Agency from North Alentejo

- **3 pictures of concerned buildings**



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

In Portugal (North Alentejo region), the Investment Plan (IP) developed within the scope of the STEPPING project included 12 buildings under the responsibility of the 11 municipalities that comprise it. Energy audits were performed on all buildings in order to identify their energy consumption and the correct identification of energy efficiency improvement measures to be considered in the IP. A total of 63 improvement measures were recorded, enabling a reduction

in energy consumption of 854.880 kWh (38.6%). With a total investment of 726.000 euros, the joint implementation of the measures allows a return period of 3,7 years.

- **Responsible project partner details**

Organisation name	AREANATEjo – Regional Energy and Environment Agency from North Alentejo
Name of the STEPPING referent	Diamantino Conceição
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- **Summary/Results Indicators**

No. of Municipalities/Public Bodies involved	11 municipalities
No. of buildings (bundled EPC)	12 buildings
Heating Degree Days and Cooling Degree Days	The buildings are in the climatic zones I2 (Winter) V3 (Summer), with an average of 1300 .C days.
Heated volume (m3)	101.677 m3 (total of the 12 buildings)
Usable area (m2)	31.424 m2 (total of the 12 buildings)
Total Investments needed (€)	725.647,80 euros
Loan by the Public Body? If yes, amount (€)?	No.

Available public funding/incentives considered (€)	EPC only
VAT (%)	23%
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>Domestic Hot Waters (DHW) – Biomass – 6 measures</p> <p>DHW – Others – 1 measure</p> <p>Air Conditioning Systems – 6 measures</p> <p>Reactive Power – 4 measures</p> <p>Solar Photovoltaic Systems - Self-consumption – 11 measures</p> <p>Lighting Systems – 34 measures</p> <p>Solar thermal for DHW – 1 measure</p>
Energy saving (%)	38,6%
kWh ANTE and kWh POST implementation ECMs (not standard but resulting from the energy audits)	<p>Consumption ANTE: 2.212.579 kWh</p> <p>Consumption POST: 1.357.698 kWh</p>

Avoided CO2 emissions (kgCO₂/y)	402.000 kgCO ₂ eq./y
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