

Technical Assistance – Project description



<i>Location</i>	Alicante, Spain
<i>Beneficiary</i>	City of Elche
<i>Member of Covenant of Mayors Initiative</i>	✓
<i>Contribution</i>	EUR 782,367
<i>Project development services financed by eeef</i>	<ul style="list-style-type: none"> • Support an energy efficiency project and implement renewable energy installations as well as upgrade in the transportation area • The City plans to use agricultural waste from the region to burn in the boilers of the public buildings, replacing the currently used diesel boilers • City targets to install PV systems to produce electricity for own usage. The solar thermal installations are envisaged to cover at least 20% of the buildings demand for hot water and heating. • For upgrade 82 buildings in the City were pre-selected • The street lighting infrastructure should be renewed, while incorporating LEDs and installing remote management control systems • The City intends to replace 100% of police vehicles with hybrid vehicles, when the feasibility study has shown a positive outcome
<i>Timeframe for TA</i>	Expected to be completed by March 2015
<i>Description of the envisaged investment program</i>	<ul style="list-style-type: none"> • Installation of PV plants on the roofs of public buildings • Council vehicle replacement • Retrofitting of the street lighting infrastructure • Municipal buildings refurbishment • Establishment of the savings verification mechanism
<i>Investment required</i>	Expected investment of EUR 20.2m
<i>Expected results</i>	<ul style="list-style-type: none"> • Energy savings to be achieved (kWh) : <ul style="list-style-type: none"> - Public lighting: 16,088,279 kWh - Public buildings: 2,757,727 kWh - Council vehicles: 675,000 kWh Total: 19,521,006 kWh • PV electricity production: 1,727,147 kWh • Solar thermal energy: 610,729 kWh • Greenhouse gas emissions reduced/avoided in CO₂eq: <ul style="list-style-type: none"> - Public lighting: 7,078,840 kg CO₂ - Public buildings: 1,723,879 kg CO₂ - Council vehicles: 180,225 kg CO₂ - PV installations: 759,945 kg CO₂ - Solar thermal installations: 163,065 kg CO₂ Total: 9,905,954 kg CO₂

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	<ul style="list-style-type: none">• Jobs created/sustained:<ul style="list-style-type: none">- Analysis phase (1 year): 10 FTEs- Construction phase (1-2 years): 50 FTEs- Operation phase (10-15 years): 20 FTEs
<i>eeef's support for investment program</i>	eeef could at least finance €5m from the investment programme