



## Project Fact Sheet

### ***Provincial technical Assistance Resources for Investments and Development on Energy efficiency***

#### **Main information**

<b>Key Action:</b>	Mobilising Local Energy Investments
<b>Project coordinator</b>	Province of Teramo, Italy
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<b>Project's Partners</b>	ATS Paride Gran Sasso, Italy ATS Paride Costa Blu Nord, Italy ATS Paride Costa Blu Sud, Italy AG.EN.A. SCARL, Italy
<b>Project's website:</b>	<a href="http://www.provincia.teramo.it/paride">www.provincia.teramo.it/paride</a>
<b>Benefits:</b>	For Municipalities: <ul style="list-style-type: none"><li>• To build a bankable project</li><li>• To take advantage of joint procurement and implement EPCs.</li></ul> For citizens: <ul style="list-style-type: none"><li>• Reduction of light pollution</li><li>• Improvement of safety</li></ul>

<b>Keywords:</b>	Street lighting, Energy Performance Contract, Procurement
<b>Duration:</b>	01/10/2012 – 30/09/2015
<b>Budget:</b>	Euro 1.087.228,00 (EU contribution 74,99%)
<b>Contract number:</b>	IEE/11/869.SI2.616385

## Summary

Since September 2009, the Province of Teramo has been recognised as a supporting structure for the 47 Municipalities of its territory. All Municipalities joined the Covenant of Mayors and developed their Sustainable Energy Action Plans and the Municipal Baseline Emissions Inventories (BEIs). The project idea born from a deepened analysis made on local public energy consumption within BEIs reporting that almost 70% of local electricity energy consumption is due to street lighting. Therefore the **main PARIDE goal** concerns the energy requalification and retrofitting of public lighting of 32 Municipalities of Teramo province (representing a population of about 233.000 inhabitants), creating the preconditions to favour an estimated investment of about 16.5 millions of EUROS in the street lighting sector, in order to save energy, costs and greenhouse gas emissions.

Achieving this relevant results, PARIDE will contribute to:

- make a detailed inventory of the existing lighting stock;
- define tender specifications in order to select a procedure for the implementation of investments via private companies/ESCOs;
- launch one single tender divide into three lots, each one for one Municipalities group;
- sign contracts, to be financed by private companies/ESCOs implementing EPCs on public lighting;
- realize the model of the SMART CITY providing further services through a retrained lighting system and the use of ICT.

## Project's results

Result 1	To prepare 3 Energy Performance Contracts (one for each association of Municipalities)
Result 2	To define a common standard approach, resulting in a new way of managing lighting installations through private companies/ESCOs
Result 3	To replace: <ul style="list-style-type: none"> <li>• totally inefficient light lamps (approximately 27% of the total lamps stock) with higher efficiency lamps with the best technology available</li> </ul>

	<p>on the market;</p> <ul style="list-style-type: none"> <li>• outdated ballasts (approximately 88% of the total)</li> </ul> <p>and to introduce stepless dimming with the consequent possibility to reduce the luminous flux and the consequent energy consumption up to 30%</p>
Result 4	<p>On the long term:</p> <ul style="list-style-type: none"> <li>• to reduce electricity consumption of public lighting higher than 44%;</li> <li>• to reduce CO<sub>2</sub> emissions by over 6.800 tonnes per year;</li> <li>• to reduce primary energy consumption over than 2.600 toe per year.</li> </ul>
Result 5	<p>To transfer the PARIDE experience of Energy Performance Contracting model across Italy and Europe in order to be replicated by other local authorities.</p>

### **Lessons learnt**

Lesson 1	<p>Small and medium sized Municipalities need the support of an intermediary institution, such as the Province, to benefit and manage European funds. In this way the principle of subsidiarity is fully applied.</p>
Lesson 2	<p>Relevance of a supra-municipal coordination to facilitate the mobilisation of funds for investments in small and medium sized municipalities which, if not aggregated, could not make the upgrade of street lighting economically viable.</p>
Lesson 3	<p>Necessity of a common methodology for the assessment and energy audit of the public lighting systems in order to ensure a higher homogeneity in the quality of collected data functional to the successful of future tenders.</p>