



# Public lighting system renovation

Municipality of Tovo San Giacomo

- Ordinary maintenance agreement update
- Implementation of innovative LED lighting
- Acquisition of the property of replaced lamps



## Standard product / conventional tender

- Outdated lighting  
infrastructure
- Traditional lamps

## GPP (PRIMES) tender

- Ordinary maintenance  
agreement update
- LED technology

## Results

- CO2 savings 128t/year
- Energy savings  
265MWh/y
- Financial savings (if  
available) 60.000€

## Introduction to case

### 1.1 PITCH-TALK – SUMMARY

The municipality of Tovo San Giacomo implemented a GPP intervention in the field of Public Lighting in order to replace old lamps. Not all of them on municipal property.

Since a part of the lamps, the supports and posts were of Enel Sole and Enel Distribution property, a direct entrustment to Enel Sole was carried out by the municipality; there was no need of a public call but some interventions aimed at the energy improvement of the public lighting system were included in the technical specifications.

### 1.3 CASE CONTENT AND ISSUE

The municipality of Tovo San Giacomo joined the Covenant of Mayors and included an action on Public Lighting renovation in its Sustainable Energy Action Plan (SEAP). The PL system is almost entirely composed of old mercury vapour lamps, supports that need to be replaced and bright centres with high dispersion of light that are not in compliance with light pollution regulations.

### 1.4 SOLUTIONS APPLIED

In order to achieve its environmental policy targets and to respect the commitments related to the Covenant of Mayors adhesion, the municipality of Tovo San Giacomo decided to implement energy efficiency interventions on its Public Lighting system, replacing the existing mercury vapour and high temperature sodium vapour lamps with innovative LED technology equipment.

- *Subject matter: (what's in the title? what is it about?)* Public Lighting system renovation
- *Value of the contract:* about 350.000€
- *Type of procedure: (Open or restricted ev. Negotiated)* Negotiated
- *Type of contract: (service, supply, work contract?)* Supply and services
- *Nature of contract: (direct or framework contract (if latter, for how many years?)* direct
- *Division in lots (Was any part tendered separately to e.g. include SMEs?)* no
- *Other features (tendering on behalf of other entity? Variants?)*

## Procurement objectives

The Municipality decided to implement this GPP intervention in order to achieve its environmental policy targets and implement the actions included in its SEAP.

## Procurement approach

The intervention assigned to Enel Sole included:

- Ordinary maintenance agreement update
- Energy efficiency interventions through the replacement of the existing mercury vapour and high temperature sodium vapour lamps with innovative LED technology equipment.
- After 9 years all the replaced lamps will become property of Tovo San Giacomo Municipality
- Commitment by Enel Sole to realise interventions within 90 days from the date of the start of works, as defined in the “start of works minutes” with acceptance of the relevant penalty for delay.

The fee payment will be submitted to the municipal administration checking the energy and economical savings targets achievement.



## Criteria development

The reference criteria were defined thanks to the sharing of similar experiences implemented by neighbouring municipalities.

## Results

The following results are related to GPP interventions carried out by Tovo San Giacomo:

- Huge electricity consumptions reduction and 60% of related economical saving
- All the lamps become Municipal property.
- Cutting out light pollution
- Improvement of light with high colour rendering
- Maintenance interventions and reduction in costs
- Reduction of inefficiencies generated by lamps not in working order
- Low environmental impact
- Uniformity of light and plants
- CO2 emissions reduction in the atmosphere and achievement of CO2 targets foreseen by the Covenant of Mayors initiative to 2020.
- 



	CO2e emissions	Energy consumption
<b>Low Carbon Solution</b>	<b>152 tCo2/year</b>	<b>315 Mwh/year</b>
<b>Last Tender/or „worst case“</b>	<b>24 tCo2/year</b>	<b>50 Mwh/year</b>
<b>Total savings</b>	<b>128 Co2/year</b>	<b>265 Mwh/year</b>

## Lessons learned

Including green criteria in the GPP calls allows important results in terms of energy saving and CO2 emissions reduction.

## Contact

Municipality of Tovo San Giacomo

<http://www.comune.tovo-san-giacomo.sv.it/>

## About PRIMES



Across six countries in Europe; Denmark, Sweden, Latvia, Croatia, France and Italy, PRIMES project seeks to help municipalities overcome barriers in GPP processes, many of which lack capacity and knowledge.

PRIMES aims to develop basic skills and provide hands-on support for public purchasing organisations in order to overcome barriers and implement Green Public Purchasing. This will consequently result in energy savings and CO<sub>2</sub> reductions.– [www.primes-eu.net](http://www.primes-eu.net)

4



## About GPP 2020



GPP 2020 aims to mainstream low-carbon procurement across Europe in support of the EU's goals to achieve a 20% reduction in greenhouse gas emissions, a 20% increase in the share of renewable energy and a 20% increase in energy efficiency by 2020.

To this end, GPP 2020 will implement more than 100 low-carbon tenders, which will directly result in substantial CO<sub>2</sub> savings. Moreover, GPP 2020 is running a capacity building programme that includes trainings and exchange. – [www.gpp2020.eu](http://www.gpp2020.eu)



Co-funded by the Intelligent Energy Europe  
Programme of the European Union

The sole responsibility for the content of this case study lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EACI nor the European Commission are responsible for any use that may be made of the information contained therein.

## ***Disclaimer***



5

*The above text contains general information on the referred procurement procedure. This information is **for general guidance only and shall not be treated as legal advice**. In case you have any questions related to the procedure please contact the partner as indicated in this document.*