

How to get started

– Going Green in Public Procurement

Using the EU Green Public Procurement guidelines benefit the environment, the city and the citizens. Before getting into the actual purchase or procurement, there is a process of planning the renewal of the lighting system. This factsheet points at how to get started.

Co-operation and building knowledge

- ▶ Yes, public procurement can be complicated but also a strong muscle to achieve efficient solutions and change. Adding the “green” is a minor additional step.
- ▶ Involve the purchase or procurement specialist from the municipality – if you do not have one, hire one externally. Knowing your lighting system inside out is not enough.
- ▶ When involving a consultant, be sure to ask for reference projects, and to ask to be involved in the process. It is not a matter of course that the consultant has the newest and “state-of-the-art” experience and knowledge.
- ▶ Get inspiration from development projects, other municipalities, network etc.¹



Holistic approach

In order to take home the full benefit from the renewal of city lighting consider to do the tender on a whole lighting system instead of treating luminaires, management system and construction as separate deliveries.

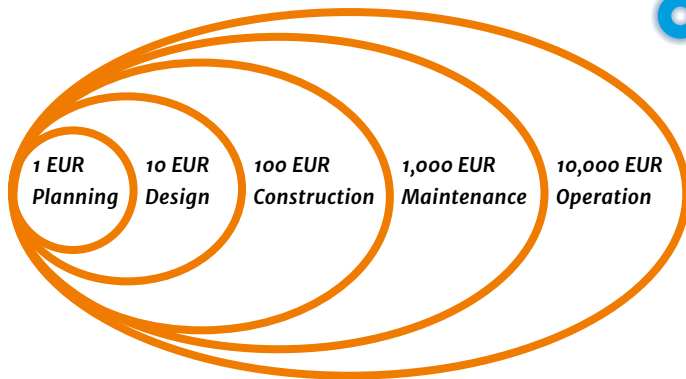
- ▶ Use goals for your lighting system as criteria as well:
 - On the bigger scale; increase safety, low energy use, protecting flora and fauna
 - On the practical scale; circularity, quality of light, type of management, ownership of data, design, energy efficiency, lighting profile, etc.
- ▶ Compromise and prioritise – energy efficiency, cost, quality, maintenance etc. For example, the lowest energy consuming luminaires may have visible LED-panels and a risk of glare.
- ▶ Many of the GPP criteria are technical demands – the city can have the lighting company or the consultant to suggest the criteria. It is always good with an explanation/visual examples on what the result will be for the lighting in the city.
- ▶ By going for the core criteria on the energy parameters you will match around 50% of the market, and with the comprehensive criteria around 25% of the market.

See next page for more information ▶

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Before going into the criteria in the Green Public Procurement on road lighting there are some steps to consider.

First step



- Use the necessary time to prepare and plan. The invested time and money will most likely pay off with a better and more sustainable solution. Be aware that a higher investment cost can give the best “Total cost of Ownership”.
- Know your current installation (age, type, lighting profile, optics, co-ordinates, luminaires, management, lampposts, installation, cabling, turn lockers etc.) .
- Compare the existing technical performance and cost factors with products available on the market.

Second step

- There will most likely be indications on major savings in energy costs and maintenance costs, but which solution is the best over a lifetime, considering not only the saved energy.
- In the phase of analysing the needs, and looking into a large investment as well as different lifetimes on different alternatives, please take a look at the LUCIA tool to do a lifecycle estimate.²
- Examples on different renewal types you need to decide on. Do you need a new installation, retrofit and redesign of an installation, simple retrofit of an installation, retrofit of controls only, or like-for-like relamping.
- The possibility of getting the right lighting quality and dimming possibilities should be considered before choosing the renewal type. The main purpose of the renewal should also be revisited.

Third step

- What kind of tender and contract are you preparing and is there a need for prior innovation before tendering (see planning and procurement factsheet #1)?
- Be aware that by using the lowest price as award criteria in the procurement process, you will most likely not get the best solution seen from an environmental and lifecycle perspective.
- What kind of lighting improvements do you want to achieve – e.g. the trade-off between blue light, colour rendering and ecological health effects?
- The bigger the change and investment the more relevant to look into the EU GPP criteria. Make sure to compare with national regulations and recommendations – be more ambitious but don’t compromise on legislation.

References:

1 https://ec.europa.eu/environment/gpp/pdf/GPP_Good_Practices_Brochure.pdf and https://ec.europa.eu/environment/gpp/case_group_en.htm

2 LUCIA economic assessment tool: <https://www.lucia-project.eu/resources-for-you/>

3 Utomhusbelysning -> LCC kalkyl: <https://beta.upphandlingsmyndigheten.se/om-hallbar-upphandling/ekonomiskt-hallbar-upphandling/lcc-for-langsigtigt-hallbara-inkop/lcc-verktyg/>