

# 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.<sup>1</sup>



### 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.

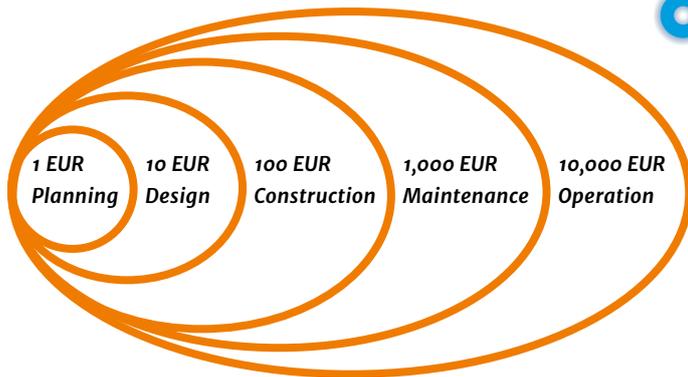
- ▶ Use goals for your lighting system as criteria as well:
  - On the bigger scale; increase safety, low energy use, protecting flora and fauna
  - On the practical scale; circularity, quality of light, type of management, ownership of data, design, energy efficiency, lighting profile, etc.
- ▶ Compromise 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, lamp posts, 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.<sup>2</sup>
- 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 criterias. 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](https://ec.europa.eu/environment/gpp/pdf/GPP_Good_Practices_Brochure.pdf) and [https://ec.europa.eu/environment/gpp/case\\_group\\_en.htm](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/>