



Press release of the 24 June 2015

STREET LIGHTING BRINGS IMMENSE ENERGY SAVINGS

City of Dormagen, Germany, reduces electricity use by 50 percent

The City of Dormagen in Germany has achieved energy savings for street lighting of some 50 percent since 2006 by moving to highly efficient bulbs. Dormagen officials expect energy savings to amount to 65 percent over 2006 levels upon completion of its lighting initiative in spring 2016, despite the expansion of its lighting system. The result: a CO₂ emissions reduction of 889,442 tonnes annually. The city's efforts illustrate just how effective relatively simple measures can be.

“Such successes are not uncommon in the area of street lighting,” comments Andreas Kress, senior expert for green public procurement at the city network, Climate Alliance. “Switching to LED lighting proves cost-effective and easily replicable, offering local authorities tangible energy savings.” In 2006, street lighting in Dormagen was responsible for 3,161,829 kWh of energy use. This number was brought down to 1,569,551 kWh in 2014.

Dormagen began its lighting initiative in 2007 and 2008 by replacing old mercury vapour lighting to more efficient sodium vapour high pressure lighting in 4,900 street lights using performance contracting. As of 2011, the city shifted to even more efficient LED lights, installing 607 by 2013 and subsequently announcing contracting for an additional 4,045 lights.

Special attention was paid to the tendering process, where Dormagen relied on the Sustainable Business Institute's “Financing Contracting” sample contract as a basis. In the tender a focus was placed not only on the net present value of the lights, as is typical, but also on the contract duration, product durability, length of warranty and polluting potential. By emphasising factors that affect the entire life-cycle of the products in question including the costs and benefits over this life-cycle, cities can paint a more realistic picture of their procurement strategies.

Efforts such as Dormagen's are currently being supported by the EU-funded project known as Green ProcA. Green ProcA offers information on green public procurement for public purchasers as well as free consultations and training sessions. Municipalities across Europe can follow Dormagen's example and take part in the project with so-called “lighthouse projects,” thereby receiving free assistance in the tendering process as well as in the use of life cycle cost calculation tools.

Further information:

Street lighting in Dormagen

gpp-proca.eu/bestpractice

The Green Proca project:

www.gpp-proca.eu

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THE CLIMATE ALLIANCE

Founded in 1990 with the aim of uniting European municipalities and the indigenous peoples of the Amazon Basin, Climate Alliance has been working for the benefit of the global climate for the past 25 years. Its member municipalities across Europe have committed to reducing greenhouse gas emissions locally by 10% every 5 years as well as to helping to protect the rainforests in partnership with the indigenous peoples of the Amazon region. Climate Alliance supports its members in their activities by developing CO2 monitoring instruments, organising opportunities for exchange, coordinating European projects with and for member cities and representing their interests at the national, European and international levels.

www.climatealliance.org



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