

EU GPP-Award

Winner 2016: Technische Betriebe Dormagen AöR -
Straßen (TBD), Germany

LED lamps for the energy-related renovation of the street lighting

From 2007 to 2008, the TBD – Technische Betriebe Dormagen AöR (technical operations Dormagen) have about 4,900 street lights converted from mercury vapor to sodium vapor high pressure lamps in Dormagen within a performance contracting. From 2011 to 2013 the TBD installed 607 LED lights – decided by the planning and environmental committee and funded by the Climate Initiative of the German Federal Ministry of Environment. For that, they conducted a light calculation and profitability analysis of the life cycle of the luminaires over 30 years and graded them as economically. Due to this positive experience and to open up further savings a financing contracting for additional 4,045 LED lamps was announced in July 2013.

The volume of order allowed to renounce an EU-wide publication. As a tender basis the TBD used, among other things, the sample contract “Financing Contracting” of the Sustainable Business Institute (SBI). The offers were evaluated on the basis of a dynamic economic calculation with subsequent cost-benefit analysis. Not only the present value, as the main criterion, but also the contract duration (max. 5 years), the durability of the products, commitment of warranty (min. 5 years) as well as the pollutant content were incorporated in the overall view.