

PHILIPS

Circular economy

Making garages safer, brighter & more efficient

Philips Lighting, 2014

25 garages in Washington D.C., USA, upgraded from outdated and inefficient light fixtures to state of the art LED technology through Light as a Service.

Over 15,000 lighting fixtures are converted to an innovative, custom-designed LED lighting solution that reduces energy usage by 68 percent, or 15 million kWatt hours per year and allows real time data on energy consumption. This service will not only make the garages brighter and safer for WMATA's 66,000 daily parking garage customers, it will save over 11,000 metric tons of CO2 emissions.

This Light as a Service solution provides WMATA with a way to improve both safety and user experience in their garages, with none of the up-front costs as the service is paid for through energy savings. As a result, the WMATA infrastructure was upgraded to the newest LED lighting technology, without long-term impact on capital and operating budgets. For Philips, this deal

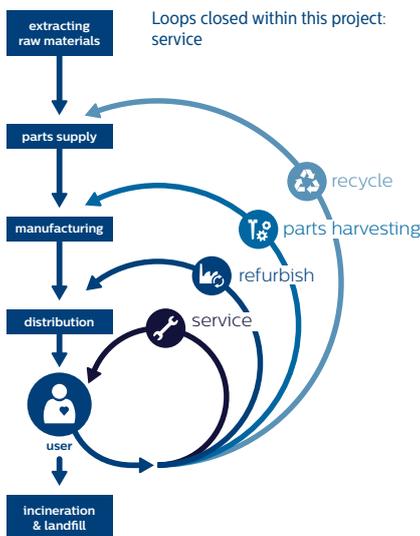
offers future opportunities in the form of a long term relationship with the customer. Furthermore, similar models might be attractive to other transit authorities as well.



"This high-efficiency LED lighting overhaul not only means increased safety and visibility for riders, but also a 68 percent reduction in energy consumption at these facilities."

Richard Sarles, CEO WMATA

The circular economy



The essential enablers



business models

11-year performance lighting contract with 1 year post-design acceptance and 10 year post-installation. Bi-monthly proactive maintenance and annual checks of the lighting are performed including recommendation of any new technologies



design

Smart design for durability, easy-maintenance and forward compatibility. LED Lighting fixtures are connected to the Philips wireless controls system that enhances energy savings and provides immediate response to all maintenance issues.



collaboration

Together with partners Green Generation Solutions, Twist HDM (LimeLight), and WeaverCooke, Philips was able to offer WMATA a fully customized lighting solution that caters to their social, environmental, and economic needs.



reverse logistics

Philips provides spare parts and extracts material value from end-to-life components through recycling.

