

The Philips logo is displayed in a white rounded rectangle on a dark blue background. The background of the entire page is a night-time photograph of a residential street with a tall street lamp on the right, a 20 mph speed limit sign, and three people standing on the sidewalk.

Case study

Public

Road and Street Lighting

Case study

Warrington rolls out Philips system to upgrade street lighting

Location: Warrington
Philips Lighting: Philips Mini Luma,
Philips Luma 1, Philips Starsense

Fast Facts

Customer

Warrington Borough Council

Location

Warrington

Philips Products

Philips Mini Luma, Philips Luma 1, Philips Starsense.

In embarking on a major project to upgrade its ageing street lighting and reduce energy costs, Warrington Borough Council is working closely with Philips Lighting in rolling out a replacement programme.

The project forms part of Warrington's Carbon Management Plan and supports the Council's commitment to tackle climate change by reducing carbon emissions. Philips Lighting has declared its commitment to Warrington's Climate Change Declaration and is working closely with the Council to help meet its objectives.



Before



After

“ This enhanced ability to control the lighting will enable us to vary light levels in line with how busy the roads are **while maintaining appropriate levels of illumination at all times**”

Barry Hughes,
Street Lighting Team Leader

“ Philips was selected on the basis of quality and price as well as their willingness to provide a 10 year guarantee. **This will ensure that as well as saving money on energy, our street lighting maintenance costs will be reduced significantly**”

Barry Hughes,
Street Lighting Team Leader



The lighting upgrade will improve street lighting for residents and revitalise deteriorating columns and lanterns, while also reducing energy and maintenance costs.

The three-year programme, due for completion in 2017, will involve replacement of around 18,000 lighting columns and lanterns, replacing the existing sodium light sources with LED. All of the new street lighting will be connected to a Philips Starsense central telemanagement system.

“The project was put out to tender and was subject to approval by the full Council,” recalled Street Lighting Team Leader Barry Hughes.

Before beginning the roll-out, the Council worked with Philips on small pilot projects to evaluate the different colour temperatures available, finally selecting 4000K neutral white light sources. Two pilots were also carried out with the Starsense system to demonstrate its functionality and reliability.

The early phases of the programme are focusing on residential areas and will be rolled out to traffic routes as the project progresses. The Philips Mini Luma lantern is being used in residential areas, with Luma 1 lanterns

providing the required illumination levels for traffic routes. Both lanterns feature advanced optics to ensure precise light distribution with minimum glare and no upward light, thereby minimising light pollution.

Connecting the new luminaires to the Starsense central management system will enable monitoring, control, metering and diagnosis of each individual luminaire

“For example, during winter when it gets dark in the afternoon we can bring the lighting on and then ramp it up to full output during the evening rush hour, and then reduce it again through the evening, eventually down to 50% of full output during the small hours. Also, the monitoring facility will enable us to detect any faults in the lighting and respond quickly to rectify them,” he continued.

The current lighting upgrade programme follows an earlier Salix-funded ‘Invest to Save’ project in 2010. This saw lighting in a number of streets in Orford upgraded to LED using Philips SpeedStar and Mini Iridium lanterns, as well as a Starsense central management system. The project delivered energy savings of around 60% based on reducing the installed electrical load, which were further improved through the use of the telemanagement system.



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