

The Philips logo is displayed in a white rounded rectangle at the top left of the page. The background of the entire page is a night-time photograph of a road intersection with streetlights and traffic signals.

Case study

Outdoor Lighting

Traffic lighting

Case Study

Somerset County Council

Location: Taunton, Somerset

Philips Lighting: MASTER CosmoWhite CPO-TT Xtra



Fast Facts

Customer
Somerset County Council

Location
Taunton Somerset

Philips Products
90W CosmoPolis CPO-TT Xtra
DynaVision Prog Xtreme Driver

PICTURE LEFT: Chris Watson, Philips; Harvey Siggs, Councillor for Somerset County and Cabinet Member for Highways & Transport; Geoff Dight, Head of Services for SCC; and Phil Green, Senior Street Lighting Engineer.

“Somerset is very pleased with this new equipment as it reduces energy and enhances safety - two high priorities for us - whilst offering an excellent return on investment at under 3 years.

For example, moving forward we have the ability to reprogram the system as well as add CMS. This upgrade has also reduced existing maintenance costs.”

Harvey Siggs

Councillor for Somerset County and Cabinet Member for Highways & Transport



Background

With the aim of tackling rising energy prices and reducing carbon emissions Somerset County Council began a review of its existing street lighting. Road safety was of paramount importance in evaluating any potential upgrade, with maintaining existing light levels a key requirement. The age and good condition of the current luminaires and columns were also taken into account and led to a decision to renovate existing stock by upgrading to a white light solution.

The Solution

Initially two pilot projects were identified to trial Philips proven white light solution, an HID lamp; the CosmoPolis CPO-TT Xtra (GES capped base). The first area identified was the A38 dual carriageway, “Tone way”, a key route into Taunton from the M5. The second pilot took place along ‘Silk Mills’, a trunk road in Taunton itself. In both of these trials, 150W high pressure sodium electromagnetic systems were replaced with Philips 90W CosmoPolis lamps, controlled with the Philips programmable multi step electronic driver with a dimmed programmed profile of 50% between 12:00am to 05:30am. CosmoPolis’s easy installation into the SON luminaire platform allowed for a simple switch from the existing

outdated technology, using the same lamp base holder and optic.

CosmoPolis lamps deliver extremely efficient white light and have a long lifetime providing significant energy savings, without compromising on light quality. The introduction of white light has helped to enhance safety and visibility on these busy roads. A further benefit of this HID lamp is the ability to enable dimming, allowing for additional energy savings to be achieved.

To ensure a smooth transition and ease installation, Philips developed pre-wired gear trays. In doing this, the installation time, and therefore the disruption to traffic in these areas, was greatly reduced.

Phil Green, Senior Professional Lighting Engineer for Somerset County Council, emphasises the extra benefits in installing the lamps, along with the DynaVision Prog Xtreme drivers commenting; “Our goal was to look beyond the short term, and with this solution there is an element of future proofing. For example, moving forward we have the ability to reprogram the system as well as add CMS. This upgrade has also reduced existing maintenance costs.”

The upgrade has resulted in energy savings of more than 55%, and an expected payback of less than 3 years. The initial roll out for 2014 will save Somerset County Council approximately

£75,000 in energy savings and achieve a reduction in carbon emissions as an extra benefit.

The white light transformation has been extremely well received and the success of these trials has resulted in the rollout of CosmoPolis into other areas of Somerset.



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