PHILIPS

Case study

Long Buckby Parish Council

Philips TrueForce LED SOX Lamps

Fast facts

Customer
Long Buckby Parish Council

Location
Long Buckby, Northamptonshire

Philips Products
Philips TrueForce LED SOX Lamps

Contractor
Aylesbury Mains Ltd.

> “The Philips LED Trueforce was a fairly obvious course of action for renewal of our lighting stock, delivering substantial ongoing savings. The small pilot area received a strongly positive response from the community, leading us to go ahead with the replacement of all the SOX lamps in one go.”

Long Buckby Parish Council Street Lighting Representative.

Background

Long Buckby is a large village in the North West of Northamptonshire, and is home to nearly two hundred street lighting units. The majority of the lighting units were comprised of older luminaires and gear running 35w & 55w Philips SOX (low pressure sodium) lamps. The Parish needed to address rising energy prices, and reduce carbon emissions, but required an affordable solution that utilised existing investments where possible. The age and good condition of the current luminaries and columns was taken into account, which led to the decision to renovate the existing stock by upgrading to a white light solution.

The Solution

The Philips TrueForce LED range offers LED lamp replacement for existing conventional lighting installations. With lamp size, physical connections and light distribution matching the existing solutions, these lamps provide the simplest upgrade solution for many applications. Bringing the benefits of reduced maintenance, lower energy usage, and white light with confidence that the required lighting performance will be achieved.

Initially the parish chose to trial white light conversions on two existing SOX lighting units; this allowed residents to view the light output and get used to the coloration change before discussions began to finalise the conversion process. Prior notification and communication to the parishioners via the village notice boards explaining the reasons for change were posted a couple of months before project commencement.

The product is an 18w or 26w Phillips TrueForce LED conversion to the existing 35w and 55w SOX lanterns. In essence the existing lamp and gear is removed and replaced with new gear, and LED lamp. The light is transformed from orange to a white light, with a daylight colour rendering. This means objects illuminated appear in near true colour. The light output is actually reduced from that of the SOX lamps, but due to the vastly improved quality of the light, it can appear brighter due to the human eye being able to recognise the colours being illuminated more easily. In addition to this benefit, the light distribution remains similar to that of the original SOX lantern, ensuring that illumination requirements are maintained. The installation is a quick and easy process and takes no more than ten minutes to install & test each lighting unit. This is vital to minimise disruption to traffic, especially on busier roads.

The conversion now in place means that maintenance costs are reduced as the new equipment is consuming 67% less energy than before. This has now reduced costs for the Parish to approximately £20 per unit, per annum.

The Parish council have subsequently received positive feedback. Residents feel the light output enables them to see with greater clarity after dusk, enhancing neighbourhood security. The Philips TrueForce LED lamps offer a cost-effective means of upgrading existing lighting to the benefits of LED lighting, whilst maximising the life of assets and minimising disruption. These lamps provide an alternative to new lighting installations as we approach the end of conventional lighting usage.

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