

Advertorial

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TOFCO LED GEAR TRAY SOLUTION FOR M6 TOLL ROAD

The M6 toll Road Lighting Refurbishment Project has been successfully completed, upgrading to LED, utilizing the existing columns and lanterns.

The M6 toll Road is a 27 mile motorway allowing drivers to bypass the notoriously busy M6 from Junction 3a to Junction 11A. Opened in December 2003, the M6 toll Road has become one of the most profitable roads in Europe.

TOFCO CPP Ltd, supplied a range of retrofit LED gear trays to exactly fit the existing lantern bodies. The project was designed to enhance night-time

visibility, reduce energy & carbon emissions, whilst utilizing the existing assets.

The initial lighting design was provided exclusively by high-pressure sodium (SON) luminaries, with wattages of 100W, 150W, 250W and 400W, on 10m, 12m, 15m and 18m columns, consuming 2,765,919kWh of energy per annum at a cost of over £310,000.

With the asset being regularly inspected, maintained and in excellent working order, James Hodson - Director of Operations M6 toll and Steve Warren - Motorway Maintenance Manager

M6 toll, were open to Philip Hawtrey of Mouchel Limited proposal to consider using a retrofit LED solution within the existing lantern.

TOFCO worked closely with Mouchel Limited, to achieve and exceed the latest BS 5489 (2013) lighting standards whilst developing a plug and play gear tray solution with the installation contractor Altitude Services.

Ease of installation was key to the success of the project, as the brief from the client was to provide a retrofit solution that could be quickly installed during night time working without closing the motorway.

Over a 3 month period Altitude Services converted over 1800 fittings to LED, without having to remove a single lantern. This was made possible by including the Altitude installation team at the design & development stage of the project with the TOFCO design engineers.

The TOFCO solution offered a plug and play LED gear tray that Altitude Services could install with relative ease,

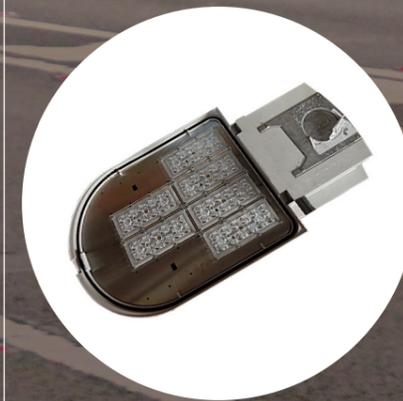


picking up on existing fixing within the lantern body and removing the need for any drilling of modification to the lantern on site.

Bob Payne, Managing Director, Sam Mills, Director and Wayne Martindale, Electrical Supervisor of Altitude Services all commented on the positive feedback from the installation team. Altitude installed a CMS node to each lantern, this was also supplied pre-wired allowing the fitter to plug it onto the gear tray.

Using the Nichia LED Chip set and Tridonic DALI driver TOFCO provided a range of solutions up to 28,000lmns, all with a 10 year manufactures guarantee.

With the completion of the Toll Plaza



LED lanterns, the project will deliver an overall energy saving of 63.4%, it will also result in the associated reduction in carbon emissions, thereby reducing the impact on the environment.

The switch to a cost effective LED retrofit solution has impressed the client with the end results and satisfied the financial part of the brief with a return on investment of less than four years.

Kevin Doherty, Commercial Director & Alastair Maltman, National Sales Manager of TOFCO CPP Limited are delighted to have partnered with Midland Expressway operators of the M6 toll, Mouchel Limited and Altitude Services in delivering a bespoke cost effective alternative solution.

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ALTITUDE SERVICES
STREET LIGHTING, MAINTENANCE & INSTALLATION

Please forward enquiries to: Alastair Maltman, Tofco CPP Limited, Meadowfield Industrial Estate, Ponteland, Northumberland, United Kingdom, NE20 9SD. T: +44 (0)1661 860001 alastairmaltman@tofco.co.uk