



# Highway Electrical News

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Citizen Engagement in the Smart Cities of the Future  
*A look at the EIU Report on public engagement in the development of smart cities*

## New Columns Light the Way for Energy Savings on Erskine Bridge



Mallatite has supplied aluminium lighting columns and LED road lanterns as part of the Erskine Bridge Lighting and Electrical Refurbishment Project for Transport Scotland. The project is set to enhance night-time driving visibility and also reduce energy usage by 70 to 80% with dimming.

The A898 Erskine Bridge is a large multi-span cable-stayed bridge spanning the River Clyde, Forth and Clyde Canals, and North Clyde railway line. Commencing 30th May 2016, Lightways (Contractors) Ltd completed Phase One in just 17 nights.

Phase One of the project was to improve lighting levels and reduce energy usage on the North and South approaches to the bridge. 56 12-metre aluminium columns complete with Aspect LED road lanterns were supplied for the South approach. A total of 128 Aspect LED lanterns were supplied to

upgrade the existing high mast columns on the North approach. Lightways (Contractors) Ltd have installed approximately 100 Mallatite aluminium columns and more than 280 TRT Lighting Ltd's Aspect LED road lanterns during the project.

By working at night and using traffic management, Lightways were able to keep one lane open in each direction, keeping the 42,000 vehicles that use the bridge each day moving.

Phase Two of the refurbishment project was to replace the majority of the twin armed columns on the deck of the bridge. All of the existing lanterns were upgraded to LED as part of the works. To deliver the project on schedule and budget it was imperative that the new columns utilise the existing deck foundations. Mallatite manufactured bespoke flange-plated columns to fit the existing founda-

tions, enabling Lightways to replace the initial 27 columns in just five nights completed in August, with a further nine replacements planned for October this year. In total, Lightways installed approximately 100 Mallatite aluminium columns and more than 280 TRT Lighting Limited's Aspect LED road lanterns during the project.

Alan Paterson, Managing Director, Mallatite Limited commented on the project:

"We are delighted to have partnered with Lightways (Contractors) Limited, Clayton Fourie Consultants, Scotland Transerv and Transport Scotland to deliver a bespoke value engineering solution where the travelling public has enjoyed minimal disruption and the "public purse" has benefited directly through savings generated from the scheme."