



Leicester City Council

OrangeTek - ARIALED with Telensa CMS

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“While many Councils are looking to make savings by switching off their street lamps, we are committing to long-term improvements that mean we will not have to resort to these archaic steps in Leicester. By investing in new technology and replacing all of the city's lamps with energy efficient LEDS, we can dramatically reduce our carbon footprint, slash the cost of our street lighting and ensure that the city's road network stays well lit around the clock.”

Leicester City Mayor, Sir Peter Soulsby

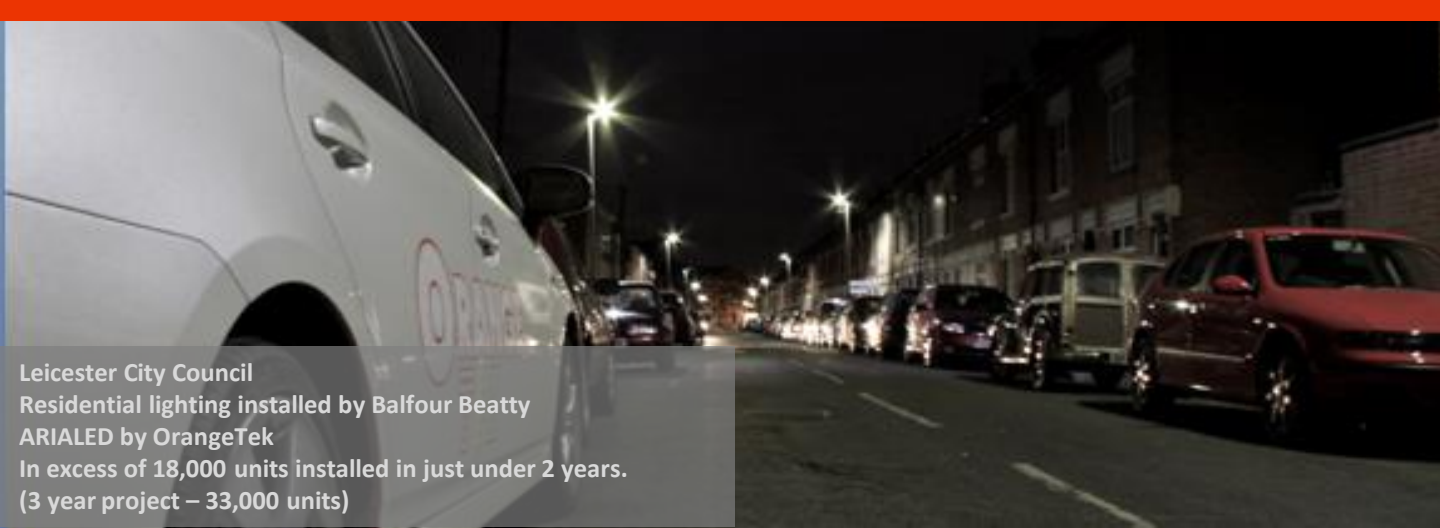


ORANGE
TEK

November 2014

Leicester City Council

Making energy savings OVER 65% with over 18,000 units installed



Leicester City Council
Residential lighting installed by Balfour Beatty
ARIALED by OrangeTek
In excess of 18,000 units installed in just under 2 years.
(3 year project – 33,000 units)

Project Requirements

Leicester City Council needed to make Financial savings whilst needing to reduce their Carbon emissions and Energy consumption in order to meet the targets set by the Carbon Reduction Commission (CRC). They also had an ageing stock of street lighting lanterns and needed to be replaced 33,000 lanterns.

Considering their carefully managed budget restraints, it was identified that the ideal solution was to use the advances in LED technology to help achieve the goals they had set themselves.

Question was: "Could they find the right lighting supplier with the appropriate level of quality and functionality that would meet both their lighting design needs as well as actually delivering on the reductions in Energy that was required?"

Project Solution

The solution was to replace their street lighting with LED technology and combine this with a Control & Monitoring System. These 2 technologies combined offered large savings in both Energy and Maintenance with the added benefit of being able to gather real time data, whilst being able to control their lighting remotely.

Following the contract award from Leicester City Council, we were requested to bring forward the launch of the **ARIALED** by approximately 3 months, which we successfully managed, enabling the Authority to adhere to their installation programme.

Project Developments

Leicester City have designed their entire scheme using existing column positions. Due to the excellent light distribution of the OrangeTek **ARIALED** lanterns, they have recognised significant reduction in power consumption, whilst reducing their ongoing maintenance costs.

LED luminaires have a much longer service life expectation, compared to traditional light sources, which further reduces the unnecessary ongoing maintenance costs associated with lamp changes and repeated site visits.

To date Leicester City Council have now installed / replaced in excess of 18,000 units with the OrangeTek **ARIALED** – (typically using a 60 LED OrangeTek lantern with a total power consumption of 66 watts) replacing 100 watt Son lamps (total power consumption around 140 watts). Leicester are currently experiencing energy savings in **excess of 65%** compared to their previous lighting solution, and have improved lighting uniformity and lighting levels..

Control & Monitoring Systems (CMS)

As part of OrangeTek's continued development program and innovation an agreement has been reached where the Telensa Central Management System (CMS) interface and protocols are included in the new range of OrangeTek LED drivers to facilitate dimming and fault finding. This will eliminate the requirement for the additional Telensa Dimming Module (TDM-A) interface unit to be installed in the luminaire, and ensure the communication between the CMS system and driver has the minimum chance of disruption or failure and increase the reliability for the customer.



BEFORE



AFTER

Note:

• Significant differences in Upward Light Output – where the OrangeTek ARIALed doesn't waste light above the horizontal and reduces light pollution. It's improved ability to put the light where its required improves lighting design solutions and means we don't waste energy on putting light where it's not needed.
Improved Colour Rendering and uniformity, whilst creating safer / cleaner environments.

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