

street lighting case study Highway Agency Area 14



Main Achievement/s:

- Substantial reduction in maintenance costs
- Significant energy savings through dimming

Background

The Highways Agency is an Executive Agency of the Department for Transport (DfT), and is responsible for operating, maintaining and improving the strategic road network in England on behalf of the Secretary of State for Transport. This effectively means that they are responsible for managing traffic, tackling congestion, informing road users, improving safety, minimising adverse impact on the environment and more.

In 2008, the maintenance contractor for Area 14, which encompasses the North East of England, embarked on an energy savings initiative for the A1(M).

The manager chose the Metrolight solution, which was introduced to him by John Wilkinson Ltd., a leading stockiest and supplier of street lighting and traffic solution to local authorities and contractors throughout the UK, for its energy saving potential and dimming capabilities.

Original Situation

The A1(M) lighting system comprised of:

- 250W Magnetic ballasts
- Operating 12 hours a day

Snapshot

Energy Savings
43%

Lamp Power

Reduced from 250w to 200w
(Through dimming)

Maintenance Costs

Reduction of 60%

Annual CO² Saved

2607 Metric Tons

Simple Payback Period

3.9 years

Total Annual Saving

£57,600

The Result

- Achieved energy savings of 43%
- Dimmable street lighting solution
- 250w ballasts dimmed to 200w
- A Total of 900 units were replaced by Urbis Lighting in three phases over one year
- Maintenance costs were slashed by more than 50%



“Metrolight’s solution and technology are cutting edge, enabling the Highway Agency to maximize energy savings through dimming while significantly reducing both their maintenance costs and carbon footprint. We will be recommending this system to other areas under the management of the Highway Agency and to municipalities, particularly those that are engaged in reducing their carbon footprint.”

Mr. Nick Alexander
John Wilkinson Ltd.



Features	Before Installation	After Installation	Savings
Fixture Power Consumption	250 Watts	200 Watts (Ballast dimmed from 250w 200w)	50 Watts
Operating Hours/Days	12/365	12/365	-
Total Annual Savings		\$57,600	
Simple Payback/ROI		3.9 Years	



Distribution Partner

John Wilkinson Ltd.
John Wilkinson Ltd., was established in 1972 by John Wilkinson to supply Local Authorities and Contractors with Street Lighting and Traffic Solutions throughout the UK. John Wilkinson is built on exceptional service, stock availability and quality products. For more information, call 0870 777 2792 or visit our website at: www.johnwilkinsonltd.com



OEM Partner

Urbis Lighting Ltd.
Urbis Lighting Ltd., is a member of the Schröder Group GIE and is one of the largest supplier of street lighting and exterior decorative lighting equipment in the UK. Their aim is to use their global strength to bring the latest technology to market. For more information, please visit our website at: www.urbislighting.com

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