

Birmingham Highways Maintenance and Management Service. LED Lighting

The Birmingham Highways Maintenance and Management Service (BHMMS), delivered by Amey in partnership with Birmingham City Council, is a 25-year private finance initiative to improve and maintain the city's highway network.

In the largest partnership of its kind in Europe, the service delivered improvements to Birmingham's roads, pavements, street lights and trees up during the first five years (the core investment period), with the improved standard maintained over the following 20 years of the contract until 2035.

The street lighting replacement scheme in Birmingham was a ground-breaking programme to upgrade the existing street lighting stock of around 95,000 street lights, of which 41,500 were replaced by 2015, with approximately 2000 replaced per year thereafter. All lights in the replacement programme for residential streets are being replaced with state-of-the-art Light Emitting Diode (LED) technology which cuts carbon emissions, reduces costs, improves safety and enhances communities lighting levels.

Energy consumption and carbon emissions are reduced by up to 60%, saving approx. 17,000t of carbon per year. The estimated annual energy saving is £3m.

Operational costs for LED luminaires are typically 70% less than sodium luminaires.

With reductions in both energy and maintenance, the overall lifetime saving achieved by this technology is expected to be in excess of £100m

Environmental benefits:

- Reducing energy use and light pollution : energy bills and carbon emissions will be **reduced by up to 60%**. This equates to an approximate reduction of carbon emissions by 17,000t per year
- Reduction in maintenance costs : Operational costs for **LED luminaires** are typically **70% less than sodium luminaires**.
- Community safety

