



In late 2013 the Belfast Energy Team undertook a review of their current production and external yard lighting with the aim of moving to a more reliable and energy efficient alternatives. After consultation with Light Footprint, it was decided to upgrade to LED Lamps and fittings in the production, vehicle workshop and external areas. All LED fittings had the daylight colour temperature of 5800K to maximise light output and give a 'truer colour' quality for an industrial site where colour coded products are the norm.

A year later after seeing the phase 1 forecasted savings materialise, Light Footprint undertook a 2nd lighting energy review, this time of the internal and office lighting stock. The aim of the project was twofold, firstly to replicate the levels of energy savings from the initial phase and secondly, to improve the light quality within the internal working environment. It was decided to upgrade to LED Lamps and fittings in the offices, corridors, stores and all other internal areas. In this phase the client opted for a 4500K Natural White Colour Temperature to create a slightly softer internal working light which again the staff felt was a vast improvement to the original fluorescent lighting.

Overall the Light Footprint LED product used in the projects have delivered an average saving across both phases of 68.98% in terms of electrical consumption, CO2 emissions and running costs, not to mention better lit working environments in all areas converted!



### PROJECT HEADLINES

|  |             |
|--|-------------|
| Estimated Annual Electricity Savings (%)   | 68.98%      |
| Estimated Annual Electricity Savings (kWh) | 145,005 kWh |
| Estimated Annual CO2 Savings (Tonnes)      | 67.8 T      |
| Payback                                    | 3.2 years   |

### AREAS CONVERTED

- Production Halls
- Stores & Workshops
- Offices & Staff Areas
- Corridors & Stairwells
- Vehicle Workshops
- Yard & Exterior Lighting

### LED PRODUCTS USED

- 11W ES Bollard Lamps
- T8 High Brightness Tubes
- 600 x 600 Panels
- 12W & 20W Bulkheads
- 80W & 100W High Bays
- 30W & 80W Floods