

**UNIVERSITY
OF NORTHUMBRIA
NEWCASTLE****PARTNER**
Robertson Group**TOTAL PROJECT SAVINGS**
£75k per year
on lighting & HVAC**ENERGY & CO₂ SAVINGS**
250 tons
of carbon

To find out how we can support you with your lighting and energy saving projects, please just give us a call on 0113 224 4666. We can provide energy surveys, projected energy savings and project support, plus much more.

As part of a performance energy contract, The Light Solution provided essential support to Robertson Group by undertaking full lighting audits of 3 of their buildings.

Fluorescent lighting was currently lighting the areas in question, but this was emitting a yellow light and a number of the fittings were in disrepair.

The University requested a point for point lighting replacement and that the overall lighting levels were improved.

The specification of the product was then based on an area by area basis, to ensure the lighting met the requirements of each room and by using low glare products - mainly 4000k in work areas and 3000k in rest areas - the light levels were dramatically improved and the areas given a modern, contemporary feel. Also, with the inclusion of lighting controls designed alongside the lighting scheme, the energy saving and flexibility of the areas were maintained.

All the lighting and controls were supplied over a 6-week period, and deliveries arranged to meet the requirements of the installation contractor. As the project progressed, additional areas were included and products specified and supplied to meet the deadlines of the client.

As part of the project, products were supplied by leading lighting brands such as Osram, Ledvance, Crompton, CP Electronics and Bell Lighting. The university are delighted with the results and the much-improved lighting;

We are getting great feedback from our staff who really like the bright white light compared to the old fluorescent lighting and the benefits of improved student experience, alongside helping us to meet our carbon target hopefully 2 years early.

Keith Slater - Carbon Manager

The orange light has been replaced and it's definitely a brighter light and as it's motion sensitive, the lighting only comes on when someone is looking at our collection giving us extra money saving.

Alexandra Talbot - Customer Experience Librarian



HILTON HOTEL
ST GEORGE'S PARK



 **PROJECT SPEND**
£41,235

 **ANNUAL ENERGY SAVING**
£35,894

 **PAYBACK**
1.15 yrs

The Light Solution were appointed to undertake a lighting survey of the entire hotel, with a view to changing from traditional fluorescent lighting to energy saving LED, but also to improve the overall light levels in both front and back of house areas.

Firstly, a full lighting audit of the hotel was undertaken, covering all areas and an ROI proposal was produced for a capital project. In total, 2349 lamps and fittings have been replaced in order to achieve the stated savings and the quality of light levels has been massively improved, whilst the ambience of public areas has not been compromised.

Using Britesource LED 600 x 600 panels, round panels and non-corrosive fittings, we were able to provide continuity throughout the main areas of hotel. Elsewhere, bedroom lamps were changed to LED, using Philips LED GLS and dimmable downlights were also supplied by Ledvance and Osram.

To help the hotel with the in-house conversion, the order was split into 'call off orders', to suit the installation process. Also, regular site visits were carried out to aid in the installation and overcome any on site issues.

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