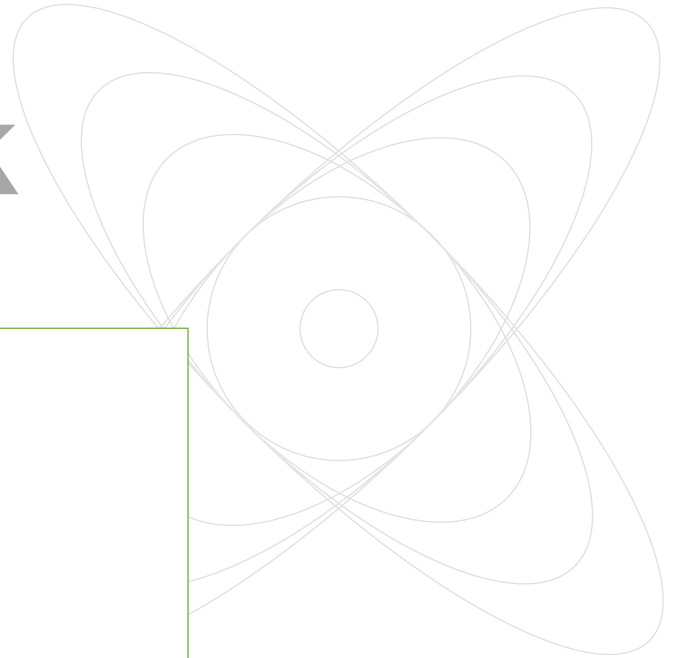


Case Study

BT Magna Park



- Customer: BT
- Technology: LED lighting
- Funding: CapEx
- Outcomes: Significant energy savings and improved working conditions



Energys Group's complete lighting overhaul at BT's Magna Park distribution centre enabled significant energy savings and improved working conditions.

Case Study

BT Magna Park



PROJECT BACKGROUND

Situated on the largest distribution park in Europe, BT's site at Magna Park is the company's main distribution centre, in addition to housing its fleet warehouse and associated administration offices. Having worked with BT on a number of other projects and sites, Energys Group was an obvious partner when it came to designing, specifying, manufacturing and delivering the project.

Highlighting the issues

There were a number of issues with the lighting across the site, particularly within the warehouse where a number of lights had ceased working all together, and lighting levels were inadequate. Due to the 13m height in the warehouse, they were difficult to maintain.

Alongside the need for energy savings and improved light levels, Energys needed to ensure minimal disruption to the work on the site which is operational 24/7.



SOLUTION

Design specification

Energys Group's design specification team worked closely with BT's own PM and FM teams to ensure products specified enabled optimal energy-saving, maintenance reduction and lighting improvement outcomes; including 5 year warranties.

In particular, the wattage of the high bay units required careful design to ensure that the light output was appropriate at floor level. Sensors were also carefully selected to ensure movement 13m below could be detected.

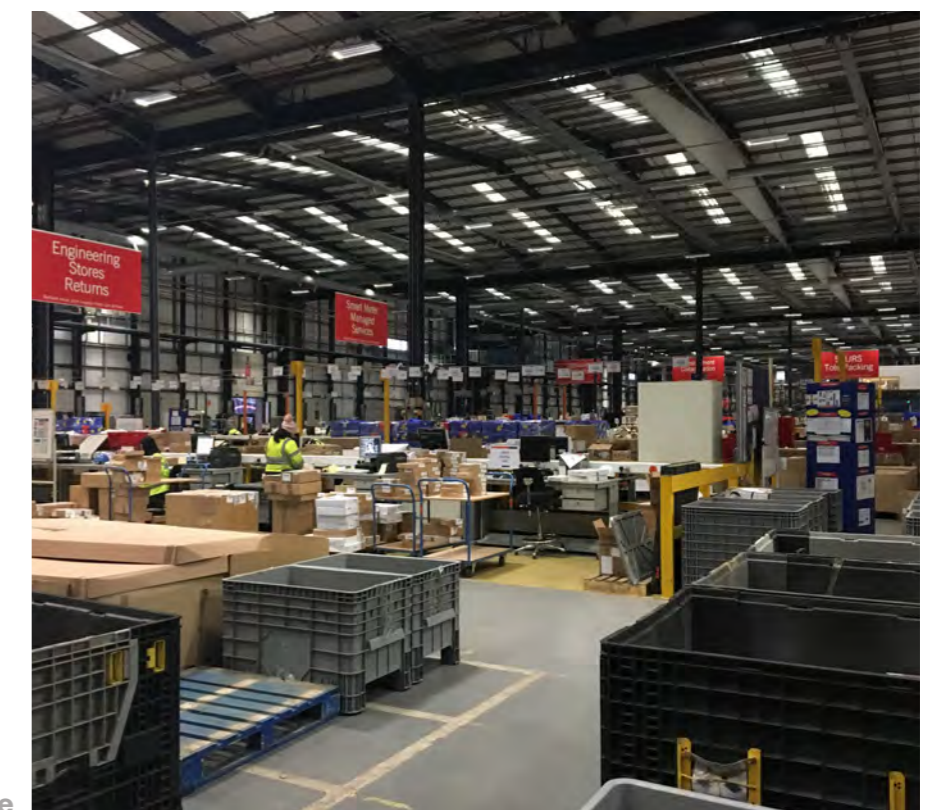
The existing warehouse Triple T5 1200mm high output tubes at 13m high changed to LED High Bays, resulting in improved lighting quality and energy savings. Existing fluorescent T8 tubes in the offices were changed to LED panels. In addition, movement sensors were added to warehouse and iDIM sensors to office areas to increase energy savings. The fleet workshop T8 tubes were changed to Energys Tri-Proof LED fittings.

The distribution centre's lighting was upgraded as part of BT's long-term corporate energy strategy.

Phased installation

All works were carried out in phases to ensure minimal disruption. The site is operational 24/7 which presented its own challenges, so a separate compound was created onsite away from BT's main site activities.

A programme of works was created and scheduled, although the team had to remain flexible to respond to any changes required. The BT managers of each specific work area were informed and kept apprised of activity, before and during the installation in each area. The installation took a total of eight weeks to complete.



Before

Case Study

BT Magna Park

Bill Coleman, the Energys Account Director for the project confirmed the savings results,

“the upgrade achieved the required BT ROI period of less than 2 years and with 1222MwH saved per annum to date. Not only have the energy savings requirements been met, but the required improvements in lighting levels have also been achieved, as commented on by staff across the site.”



After



For more information please contact:

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