

Case Study

Sector: Food Manufacturing

Significantly enhanced staff working conditions with rapid ROI

SERVICE: Low Energy Lighting

AES replaced old lighting across a Yorkshire food production factory, with high level and low level lighting which transformed the working environment to bring it in line with H&S regulations.

“ AES provided a first-class service in that they worked around us to ensure that there was no disruption to production. Although not our primary reason for commissioning the project, we were originally pleased that energy efficiencies would deliver a payback within 6 years. With the more recent spikes in energy prices, ROI is going to be achieved within 2 years!

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Low Energy Lighting

CHALLENGES

One of the UK's leading food manufacturers contacted AES because the lighting within their packing hall was lower than recommended levels from an employee welfare and H&S perspective. What's more it was important that production on site was not interrupted.



When AES was approached it was clear that we had to balance significant improvement in the luminous flux reading (brightness) around the whole designated area, whilst balancing the cost investment in the project.

SOLUTION

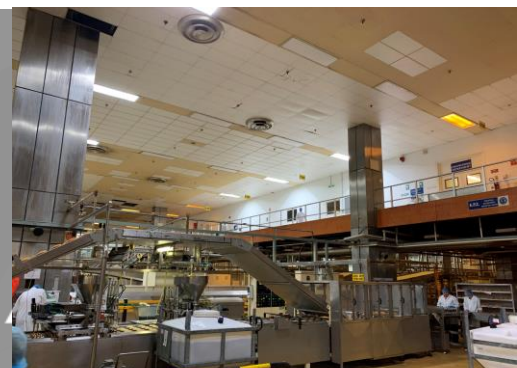
Through some careful calculations, AES worked out that through removing all of the old fluorescent yellow lighting, which was providing less than 100 lux (below recommended lighting levels) and replacing only one third of the light fittings with modern LED lighting, we could create a working environment with an average illuminance of 270 lux (ensuring all key areas of the production area were above recommended levels).

Whilst carrying out the project, for added safety and too minimise any further disruption, AES also installed a full emergency lighting scheme to replace its previous inefficient solution. Again this ensured that the customer was legally compliant in line with all H&S regulations.

The total installation also provide huge cost savings on energy running costs. When originally proposed, payback was calculated at 6 year , based on 0.6p per kw/h. However with energy costs increasing substantially (0.26p per kw/h) payback is now around 18 months.

ABOUT

This UK food manufacturer has 15 sites located across the country, employees over 4200 staff and turns over in excess of £900m. We specifically worked on the packing hall of one its Yorkshire sites who are responsible for making some of the UK most famous brands across a number of food categories.



Empowering Performance

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