

Scott Bader, Hazardous Area Lighting

Scott Bader is a multinational chemical company employing 600 people worldwide with manufacturing sites in Europe, Middle East, South Africa and has a turnover of 220 million Euros. The company was founded in 1921, and the first production plant was built in Northamptonshire in 1940. The company specialises in the manufacture of high quality synthetic resin and polymer products.

Several of Scott Bader's manufacturing sites have attained ISO14001 accreditation, and through the implementation of the ISO14001, the company has made a clear statement that environmental management is an integral part of the company agenda. One of the focuses of this agenda, was to improve the lighting within the Wollaston site.



Summary

Number of fittings – 40

Fittings used: Dialight
LED Safe Site Area Light
LED Safe Site Bulkhead
ATEX Emergency Bulkhead

Mounting height – 2.3 metres



Before

After

The key objectives were to find suitable low maintenance light fixtures that were certified for use in the hazardous environment, that could improve the quality of the lighting, that were reliable, durable and available in both standard and emergency mode, and could achieve energy savings. The Dialight SafeSite Series was selected by Darren McNulty, the Energy Manager at Wollaston, following extensive trials.

The Alkyd plant was selected as the initial area for lighting improvement, since the existing poor lighting represented a significant Health & Safety hazard. The impact of the replacement LED fittings was so noticeable that it has transformed a once gloomy corner of the site, into a crisp, clear and well-lit work area. The deployment of LED technology has created an energy efficient and environmentally friendly facility and further projects are now under consideration across the site. The Dialight Safe Site range is also being considered for installations in South Africa.

Darren McNulty confirmed "We are currently on track to make a 66% annual reduction in energy consumption for the lower floor lighting - despite increasing lamp numbers. We expect to save ~28,000 kWh. (thats' about 12t CO2e)"

Hazardous Area Lighting Case Study

REDUCE

operating & maintenance costs

FAST

return on investment

REDUCE

carbon footprint and costs of carbon tax

IMPROVE

light quality