

“96 European Tubes
**tonnes of carbon
saved annually**”



“It was very important for us to reach our carbon saving goals and Gemma Lighting helped us achieve that. We are completely satisfied with the service they provided and pleased with the quality of products installed.”

Glyn Jones, Operations Manager, European Tubes

European Tubes Work With Gemma Lighting to Reach Carbon Reduction Initiative

Summary

- European Tubes aimed to reach the targets of the carbon saving initiative; 'Wigan Best.'
- They required that the energy efficient lights were low in maintenance.
- The success of the initial project involving the site's warehouses led to Gemma installing their LED Ceiling Tile lights in the site's offices and LED Floodlights in outdoor areas.
- Overall, the project resulted in a reduction of 96 tonnes in carbon emissions per year.
- The lights also achieved a saving of £17,000 per annum in energy bills and £2,000 per annum in lighting maintenance bills.
- Gemma Lighting completed a total transformation of onsite lighting creating huge energy savings.

The challenge to reach Wigan 'BEST' energy saving targets.

European Tubes Limited are a carbon steel seamless tube stockholder located in Wigan, Lancashire. Established in 1989, they currently hold over 2,500 tonnes of stock in 4 warehouses that cover over 5,000 square metres.

European Tubes carried out work under 'Wigan BEST'; a carbon saving initiative for businesses in the area. 'Wigan BEST' aim to help local businesses save up to £4.5m per year in energy and procurement costs. As a part of this energy saving scheme European Tubes wished to find a reliable energy efficient LED lighting system.

Initially, they needed a new lighting system for four large warehouses to replace 50 400w SON high bay lights. The lights were located in hard to reach places, meaning the maintenance of their current lighting was a time consuming and costly task. Furthermore, the orange glow given off by

the existing lights was not good for visibility, which was vital for site safety. European tubes released a specification for a new lighting system that not only had to reach their energy saving goals but would also provide clear visibility and be of low maintenance.

Lighting solutions created using specialised knowledge of LED technology

Knowing how important it was to reduce carbon emissions on this project, Gemma Lighting carried out an onsite review in order to produce an energy saving report. The report showed how an LED system would allow the company to reach their environmental targets as well as achieve additional financial savings. Furthermore, Gemma's account manager took into account the size and nature of the warehouses to be lit, creating lighting plans that detailed the correct light distribution at the lowest possible energy consumption. The product recommended was the Sovereign high bay LED light that replaced the existing fittings as a 1:1 replacement. Using 88w as opposed to the existing 400w fittings they consumed significantly less energy. The new lights have a service life of 10 years which was ideal to reduce the costly maintenance bills. In addition to this the LED light gave off a clear white light similar to daylight, improving the working conditions.

Success leading to further projects on outdoor flood lights and office ceiling tiles

Pleased with the work done so far, European Tubes were keen to commission Gemma Lighting to initiate further projects on their factory site. In the office areas 42 32w Venus LED Ceiling Tiles replaced the existing 47 173w ceiling tiles, creating even further energy savings. Moreover, office staff were pleased with the natural white glow given off by the new lighting system, creating

excellent visibility at their desks.

Focusing next on the outside areas of the factory site, Gemma's account manager created lighting plans to replace 13 250w sodium floodlights that were consuming a great deal of unnecessary energy. These were subsequently replaced 1:1 with 13 Spitfire LED Floodlights that use around 60w each. They created a white light that clearly lit the entire area specified at much lower energy consumption.

Huge savings in energy bills, maintenance bills and reduced carbon emissions

As a result of the new LED installations European Tubes saved £17,000 per year in energy bills, £2,000 per year in lighting maintenance bills and a reduction of 96 tonnes of carbon emissions per year. This meant that European Tubes had reached their energy saving targets. Staff noted how the new lights greatly improved their working conditions, which contributed to the satisfaction of the work done. Gemma Lighting are delighted with the results of this project and look forward to continuing their work with a range of organisations to reach energy saving targets.

Advantages of LED lights

1. More power to light not power to heat = **save on energy bills by up to 90% and reduce carbon emissions.**
2. LED has at least 10 years life = **save on lighting maintenance costs**
3. Zero light overspill = **no light pollution to surrounding areas**
4. Pure white light (close to daylight) = **excellent visual acuity for CCTV**
5. Instant light (100ms switch on time) = **perfect for motion sensors/saving energy when not in use**
6. Impact resistant casing = **safe from vandalism**

About Gemma Lighting

Gemma Lighting LTD was formed to create an innovative concept for everyday lighting requirements. Drawing on 25 years of experience in LED technology, the team at Gemma Lighting LTD continues to design, develop and manufacture a new generation of environmentally friendly LED lighting suited for their customer's individual needs.

LED lighting is Gemma Lighting's only product – giving them a specific knowledge and interest in developing new ideas. Gemma Lighting design and manufacture their LED lights in the UK and can proudly say that they adhere to the high UK standards of manufacturing. Gemma's area account managers provide full project support for end users, wholesalers and distributors alike.

For more information on Gemma Lighting's products please contact the sales team **0844 8565201**