

“80 Premier Veg
tonnes of carbon
saved annually”



“Through Gemma’s quality service Premier Veg have achieved a significant reduction in their energy bills and carbon emissions. All staff at the factory have noticed a great improvement in the lighting and feel the benefit of a better working environment. We are looking forward to working with Gemma Lighting on further projects.”

Mr David Sharp, Contract Manager for Premier Veg, Periam & Williamson

Premier Veg Achieve Great Energy Savings through Sustainable Lighting

Summary

- Under direction from a major supermarket chain, Premier Veg required an energy saving LED lighting system for their sorting and packing area.
- The lights needed to succeed in the quality of manufacture where others had failed.
- The success of Gemma's installation and customer service led to further projects in the Cold Stores. Overall creating energy savings of; 143,000 Kwh per year, £16,000 in energy bills per year and 80 Tonnes in carbon per year.
- Pleased with the results so far, Premier Veg are looking forward to working with Gemma Lighting on more of the site's outdoor and indoor areas.

The challenge to reduce energy consumption

Premier Veg grow, pick and package vegetables at their factory in Boston, Lincolnshire. After signing a contract to supply a major supermarket chain, the site undertook an expansion. The supermarket chain specified that Premier Veg use energy saving lights in their factory, beginning in the sorting and packing area. The existing regular strip lights used an unnecessary amount of energy of 145 circuit watts each. Furthermore, the staff sorting the produce in this area found the lighting insufficient and the flickering caused irritation. As a result of this, Premier Veg sent out a specification for a sustainable lighting installation that would be appropriate for the work in this area. They had previously trialled LED lighting with another company that failed due to poor manufacturing and so looked to Gemma Lighting for a reliable and cost efficient lighting solution.

A tailored solution to improve

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.

working conditions

On visiting and assessing the site, Gemma Lighting's account manager produced lighting plans for a new LED lighting system. In contribution to this, an energy saving report was created to show how the investment in LED lights would be repaid through energy efficiency savings. The Victory vapour proof light was recommended as it illuminates with a white light similar to daylight. This suited the customer's specification for clearer visibility in the area. The Victory uses 64 circuit watts; this meant that the fitting gave a 56% energy reduction when compared to the original fitting's 145 circuit watts. Unlike the previous lighting system, there was no risk of lights breaking through fault. The new LED lighting system was installed after a successful trial fitting at the Premier Veg factory site.

A successful result leading to an installation in the cold stores

The improvement in the quality of light in the packing area meant that Premier Veg were keen to begin another project with Gemma Lighting in the factory's cold stores. Using Gemma's extensive knowledge of LED technology, they created a lighting plan tailored to suit the conditions of the cold store. The Victory LED vapour proof light and Star LED bulkhead were ideal for the specification for several reasons; the LED does not diminish in cold areas, it has an instant strike up for periods of activity and the LED's performance inherently increases as the temperature in the cold store drops. Furthermore, due to Gemma Lighting's high standard of manufacturing the lights can be relied on to work to their full capacity for at least 50,000 hours.

Impressive savings resulting in the payback of investment

It was apparent from the energy saving report that the new LED system saved Premier Veg £16,000 a year in energy bills. The reduction in

energy consumption simultaneously reduced the company's carbon footprint by 80 Tonnes a year. This was important for Premier Veg in order for them to reach the targets set by the supermarket chain that they supplied.

Premier Veg working with Gemma Lighting in the future

The success of the second installation led onto the planning of projects for the rest of the factory site that will use a range of Gemma Lighting's products. The areas to be given new lighting installations include; the hopper room, the dispatch room, the yard, the tractor workshop and in the office block. The projects will use Gemma's Star bulkheads, Spitfire floodlights, Victory vapour proofs and Venus ceiling tiles. All of which will provide the same impressive results as the previous projects on site.

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**