



The ONLY SYSTEM
with a Patented
DESIGN

HELPING MANUFACTURING & ENGINEERING SITES REDUCE ENERGY & SAVE COSTS.

Manufacturers are starting to take steps to reduce their energy consumption and CO₂ emissions associated with their operations. Some companies remain cautious about implementing energy saving technologies because of the perceived effects these technologies might have on equipment and operating efficiency. The Powerstar voltage optimisation system is a proven and reliable technology, manufactured in the UK to the highest efficiency.

The Powerstar team's project-led approach ensures the delivery of a turnkey solution from project launch to completion, safeguarding manufacturing operations from disruption.

Powerstar's patented technology reduces machinery maintenance costs due to improved power quality. This increases long term reliability and reduces down-time without affecting equipment performance.

BENEFITS OF POWERSTAR

- ✔ **HV & LV range of voltage optimisation systems available**
- ✔ **Unique, patented design offering highest levels of efficiency**
- ✔ **Average savings of 12%-15% on annual electricity consumption**
- ✔ **Typical payback periods of 2-3 years**
- ✔ **Guaranteed savings**
- ✔ **Increased lifespan of onsite equipment and reduced maintenance costs**
- ✔ **100% reliability record, no recorded failures in over 13 years of installations**
- ✔ **Up to 15 years warranty* and a 50 years lifespan**

OUR GLOBAL CLIENT LIST INCLUDES



Pegler Yorkshire



* 10 years warranty outside of UK, Cyprus and Australia

CASE STUDIES & TESTIMONIALS



TRELLEBORG

Global engineering group, Trelleborg gained annual financial savings of **£17,683** with a **11.2%** reduction in energy after their installation of a Powerstar MAX unit. The savings were **160,751kWh** with **78.8** tonnes of CO₂ saved per annum. Incoming voltage is also now at a new, corrected level for the equipment on site, prolonging it's lifespan.



From the installation of Powerstar, Olam International made **14.1%** savings in kWh with a reduction of **203.1 Tonnes** of carbon emissions. Guaranteed savings of **8.7%** were given to Olam and this was beaten by 5.4%, resulting in greater electricity and CO₂ emissions savings than was first anticipated. Olam found the correct voltage lessened wear and tear to onsite machinery and equipment.



Powerstar was installed at the Rotherham based Newburgh Precision with a **10.0%** reduction in energy consumption, a total of **156,360kWh** savings per annum. This has resulted in annual financial savings of **£14,079**. Since installation, there has been a reduction in motor drive failures due to over voltage and quality of the electricity supply has improved with return on investment **3 years 2 months**.



The results from the on/off testing at Polyflor demonstrated annual energy consumption savings of **34,619kWh**, representing a **12.8%** reduction in Polyflor's annual energy consumption. The testing also showed that Polyflor could realise annual financial savings of **£3,635** by installing the Powerstar system. Polyflor is a major manufacturer of commercial floorcoverings, operating successfully throughout the world.



The installation of Powerstar has delivered Swann Morton, a world leader in the manufacture of surgical blades, scalpels and handles an annual electricity consumption saving of **9.9%**, and has reduced site CO₂ by **102.5** tonnes. Financially, Swan Morton are benefiting from reductions in electricity costs of **£11,559** per annum.



"It was fantastic that we were able to purchase from a local business. It was great to receive the loan from the Carbon Trust, but more importantly this does appear to be an extremely elegant solution to reducing energy consumption, with no adverse impact and indeed a potential positive benefit to equipment life." Chris Rea, Aeseal Managing Director.

Contact us and find your local Powerstar office or distributor details at

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HV SYSTEM



LV SYSTEMS



Powerstar is manufactured in the UK by EMSc (UK) Ltd