

CASE STUDY



PALRAM POLYCARB – Plastics Manufacturer

THE CLIENT

PALRAM Polycarb is a leading manufacturer of semi-finished extruded thermoplastic sheets and finished products used in the construction, advertising and agriculture industries.

THE CHALLENGE

The production plant runs a significant amount of machinery and as a result has high levels of electricity consumption. PALRAM sought a solution that would meet three key criteria:

- Achieve costs savings through reduced consumption
- Ensure machinery runs more efficiently
- Reduce the plants carbon footprint

THE SOLUTION

After a thorough analysis of the plants electrical characteristics and voltage profile, the Powerstar team were able to establish what the best engineering solution would be for the site to provide quantifiable savings.

A 1,500kVA Powerstar voltage optimisation system was installed, this UK manufactured system was supplied with 15 years warranty and an expected 50 year life span, with an 100% savings guarantee.

THE BENEFITS

The installation of Powerstar resulted in electricity consumption savings of 6% per year and annual reductions in electricity costs of £18,000.

As a result of the Powerstar system cleaning and conditioning the power supply, harmonic distortions were smoothed and maintenance costs lowered due to the correct load being supplied to the on site machinery.

The HMI (Human Machine Interface) feature of the Powerstar system allows PALRAM to monitor consumption levels in real time and take further steps to reduce consumption.

KEY FIGURES

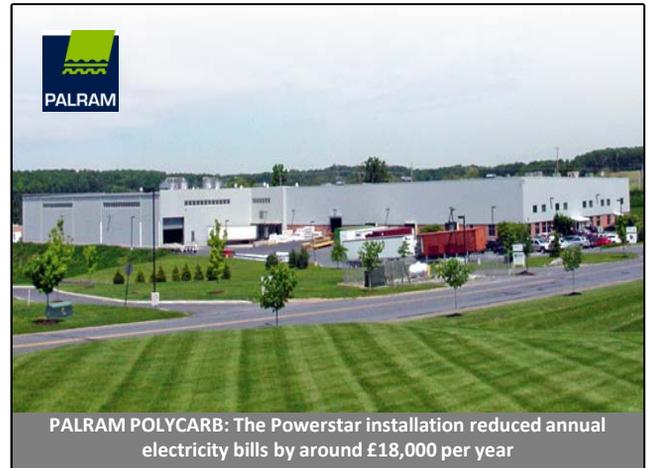
- **Annual consumption savings: 6%**
- **Annual financial savings: £18,000**
- **Return On Investment: Under 2 years**

CUSTOMER QUOTATION

"With continual monitoring we expect to see savings in excess of the 6% guarantee – a great level of return on investment. We are now able to produce up to 50 tonnes more product with the same kWh usage and are well on track to achieve payback in 20 months which is quite phenomenal.

Importantly, by reducing energy consumption, Powerstar is also helping PALRAM's commitment to help conserve the environment."

Matthew Healey
Technical Manager, PALRAM Polycarb



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