

CASE STUDY



VOLTAGE OPTIMISATION IN MANUFACTURING

Introduction

Based near Manchester, Polyflor is a major manufacturer of commercial floor coverings, operating successfully throughout the world.

Polyflor strive to be an environmentally and economically sustainable business, being as carbon neutral as possible.

As part of this drive the company turned to Powerstar to determine if voltage optimisation could form a key part of these sustainability strategies.

The Challenge

Following a site survey, the Powerstar team were able to identify the ideal solution for the site based on the characteristics and demands of the building – determining the site had a 269,827kWh annual load applicable for savings with voltage optimisation, from which installation of the Powerstar system would guarantee energy consumption savings of 9%.

To verify these guaranteed savings Polyflor requested an on/off testing at the site to compare data both with the Powerstar on and without the Powerstar.

Both periods were run over duplicate days to ensure like for like comparisons could be made

The Solution

The results from the on/off testing evidences annual energy consumption savings of 34,619kWh, representing a 12.8% reduction in Polyflors annual energy consumption.

The testing also evidenced that annual financial savings to Polyflor for installation of the Powerstar system would be £3,635.

Savings & Benefits

Key Figures

Reduction in energy consumption: **12.8%**
Savings of kWh achieved per year: **34,619 kWh**
Annual financial savings: **£3,635**

Benefits

The installation of the Powerstar unit was done quickly with no disruption to operations. Polyflor saw reduction of energy consumption straightaway along with prolonged equipment life.



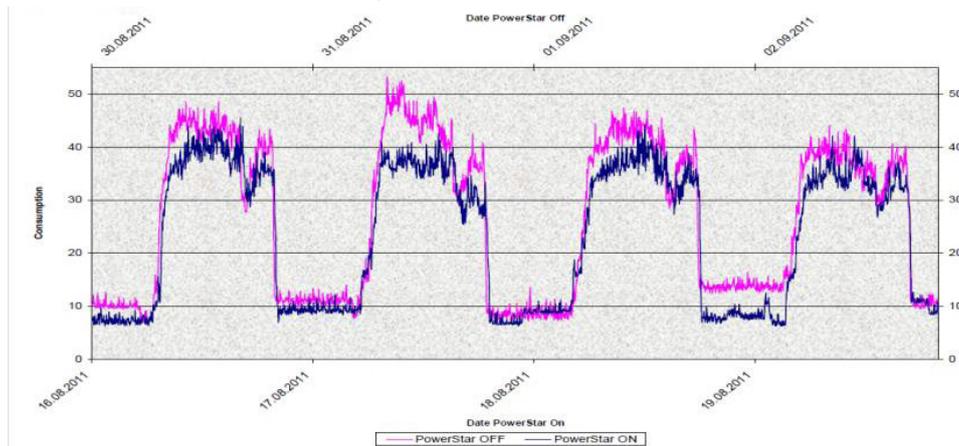
CASE STUDY

Customer Quotation

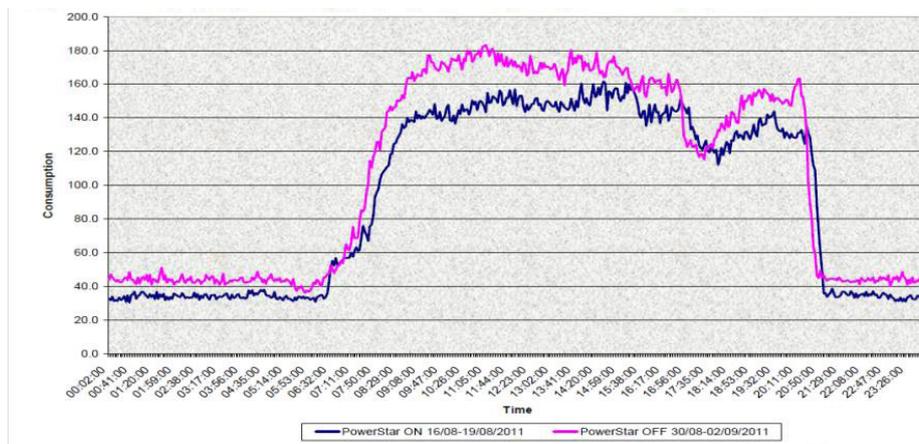
“ By quickly identifying the waste and developing the specific solution for our company, the Powerstar team has helped us to reduce our impact on the environment and substantially lower our electricity bills. ”

John Whitesmith, Manufacturing Director, Polyflor PLC

Graph 1. Consumption Comparison Powerstar - The graph shows that there is a clear and sustained reduction in consumption when the Powerstar unit was in use at Polyflor.



Graph 2. Average Daily Consumption Pattern Comparing Powerstar system On & Off - The graph below shows a clear and prolonged reduction in daily energy consumption when Powerstar was on.



Other Case Studies

There are a range of case studies and client testimonials available on our website, please visit www.powerstar.com for further information.

Further Information

Please contact the Powerstar Marketing department on 0114 2576 200 or email marketing@powerstar.com

www.powerstar.com