CASE STUDY

powerstar

BEATSON CLARK

DELIVERING THE DIFFERENCE

Beatson Clark

INTRODUCTION

Founded in 1751 in Rotherham, South Yorkshire, Beatson Clark is proud of its long heritage. Originally manufacturing glass containers for the pharmaceutical industry, they diversified into the food and beverage markets throughout the 1970's and 1980's.

Today they have an in-house design team that offers a concept to completion service for bespoke glass packaging covering all elements from initial design through to manufacture and decoration.

The food industry is now Beatson Clark's biggest market ; however, they still remain the UK's largest manufacturer of pharmaceutical glass containers.

THE CHALLENGE

Beatson Clark was looking at ways to reduce its energy consumption and entrusted Powerstar to recommend a viable solution.

With the site's manufacturing capabilities able to reach production of approx. 514 millions units a year, the challenge for the Powerstar team was to work with Beatson Clark to identify the loads used in the manufacturing process and electrical consumption.

Furthermore, with a workforce of approximately 350 employees, calculating a time when the analysis and installation would not impact the day to day operations on site was imperative.

THE SOLUTION

After thorough assessment, the voltage recorded on site was an average of 231.2V. Powerstar recommended a Powerstar HV MAX system to replace TX9, an existing 1985 HV/LV transformer.

Powerstar HV MAX combines a super low-loss amorphous core HV/LV transformer with integrated variable voltage optimisation technology, which offers significant efficiencies and reduced losses compared to conventional transformers.

LITE MAX HV MAX

SAVINGS AND BENEFITS

The electronic-dynamic voltage optimisation technology within the HV MAX system stabilised, conditioned and optimised the voltage by 10V.

Following post-installation analysis of the electricity consumption, Beatson Clark recorded higher than guaranteed kWh consumption reduction of 8.9%.

This equates to an annual saving of 661,554kWh and a reduction of 295.46 tonnes of carbon emissions, providing a return on investment of 2 years and 6 months.

KEY FIGURES

- **Annual Consumption Saving: 8.9%**
- **Annual CO_2 Reduction: 295.46 tonnes**
- **Payback Period: 2 years 6 months**

Beatson Clark: produce glass containers for the food and pharmaceutical industry

Beatson Clark: striving for superior performance in both quality and service