

Baked Goods – West Yorkshire

INTRODUCTION

The baked goods company operates in 50 countries to provide safe, nutritious, and affordable food and that is great value for money. The company has been supplying freshly baked goods for over 30 years.

THE CHALLENGE

As part of a large international group that works with fresh produce daily, environmental sustainability is of primary concern to this company. Therefore, efforts are continuously invested into becoming more environmentally friendly and so far the group has achieved great milestones such as 50% of its energy being supplied by renewable fuel sources, and 82% of its waste being recycled.

Due to this focus on sustainability, the client was looking for further ways to reduce its energy consumption as well as its carbon emissions, and voltage optimisation was identified as an appropriate technology to provide these benefits.

THE SOLUTION

Following analysis of the site, Powerstar identified that the voltage supplied was both unnecessarily high for the equipment on site, and prone to fluctuations. Powerstar also found that the current CRGO distribution transformer was old, and further efficiencies could be achieved by replacing it with a newer, amorphous core transformer.

Powerstar offered a combined solution to lower electricity consumption, reduce CO₂ emissions and provide energy cost savings through its HV MAX amorphous core distribution transformer with integrated electronic-dynamic voltage optimisation.

LITE MAX HV MAX

SAVINGS & BENEFITS

Replacing its existing inefficient transformers with a Powerstar HV MAX system increases the efficiency of the HV infrastructure, and the optimisation and stabilisation of the incoming voltage produces significant reductions in energy consumption.

Powerstar provided a guaranteed annual consumption saving of 7.2%. However, savings analysis performed after installation showed that the site is actually benefitting from an annual consumption saving of 9.2%, and its annual carbon emissions have been reduced by 231.65 tonnes.

Furthermore, by stabilising and optimising the incoming voltage, on-site equipment is further protected from voltage spikes and dips, which can cause problems in the supply and result in the premature burnout of electrical equipment.

KEY FIGURES

➤ **Annual Consumption Saving: 9.2%**

➤ **Annual CO₂ Saving: 231.65 tonnes**

➤ **Payback Period: 2 years 10 months**



The client has reduced its carbon emissions by a further 231.65 tonnes with Powerstar HV MAX