



£74,162
Year 1 savings delivered

428
Tons CO2 offset

Case study: Cheese Manufacturer

Background

With annual energy costs in excess of £1 million per annum and growing, this cheese manufacturer faces considerable pressure to combat energy cost increases. Optimised Energy have worked with this client for several years, managing their Climate Change Agreement and acting as a broker for their energy purchasing. With rising energy costs, we were given the opportunity, initially for 12 months to help identify and implement ways to improve energy efficiency through capital projects, data analytics and best practise.

Challenge

As one of the UK's most respected cheese manufacturers serving retail, wholesale, food service and export markets to exacting standards, energy efficiency is not always forefront. Identifying capital projects that met rigorous investment criteria and did not impact production operation or output was tasking. The site's processing departments share the main energy infrastructure, so implementing opportunities in these areas without disruption were challenging to ensure operational excellence and profitability are maintained.

Quick Facts

Site processes 350,000 litres of milk/day

Operation is temperature critical due to food safety and hygiene

Extensive steam and condensate systems

Cold stores for product maturation

Throughput varies on time of year

[See the solution overleaf](#)

Solution

Our engineers carried out an initial investment grade feasibility study to identify and quantify projects that met investment criteria.

We then used our network of technology specialists for detailed proposals, delivered competitive tenders on qualifying projects and worked with contractors to deliver solutions.

As part of the longer term energy strategy our engineers developed a full technical and financial business case for a CHP installation. This 3.5 year payback project is currently underway.

Results

The output of our analysis and project identification has resulted in 11 feasible projects, including 1 requiring significant investment. Currently seven out of eleven have been completed with a blended.

All projects are measured and verified according to International Performance Measurement and Verification Protocol (IPMVP). Energy consumption and costs are now discussed regularly at management meetings with full visibility and opportunities are being raised by site for Optimised Energy to investigate and progress.

This manufacturer has continued to benefit from Optimised Energy's managed energy services approach, as we dovetail energy saving projects with their energy procurement and compliance strategies to enhance both environmental and economic sustainability.

About Us

Energy intensive manufacturing environments need an integrated approach to supply and demand side energy management. At Optimised Energy we focus on squeezing the most out of existing assets, while improving operability through change management and ultimately energy efficiency retrofits. For the energy that is critical to production, we ensure that it is procured cost effectively, and as close to net-zero as possible through a individually developed trading and risk management strategies. Our Compliance team will look out for you every step of the way to keep you compliant from the myriad of legislative obligations facing industry.

▶  Optimised Recovery

▶  Optimised Compliance

▶  Optimised Procurement

Technologies Delivered	Annual Savings
Motor VSD	£692
Steam trap replacement	£12,240
Thermal insulation (hot)	£20,441
Compressed air leak repairs	£16,741
Thermal insulation (chilled)	£11,603
Condensate recovery	£21,000
RO water recovery	£8,780
Hotwell improvements	£6,515
Steam metering	£17,917
Sub-metering optimisation	£17,500

-7.6%
Year 1 cost savings delivered

11
Projects identified

Optimised Energy
109-112 Lancaster House
Amy Johnson Way
Blackpool
FY4 2RP

Tel: 01253 209000
Email: info@optimisedenergy.com

