

Hilton Meats sees a 7% reduction in its electricity bill with **PowerSave™**

“ Claude Lyons provides excellent back-up service and warranty for the **PowerSave™** plant, which has proven itself to be both efficient and effective at reducing energy costs on site. ”

Henry Devlin, Maintenance Manager, Hilton Meats Cookstown



HMC's annual electricity bill has fallen by £4,500.

▶ Background

Hilton Meats Cookstown (HMC) is a dedicated de-boning plant that processes approximately 2,000 quarters per week.

Founded in 1989, HMC is based in Northern Ireland's Mid Ulster and has approximately 80 employees. Operating from an ultra modern factory with a refrigeration plant, a variable speed air compressor, lighting and process heating, HMC is purpose-built to meet exacting European and customer requirements. The company is committed to quality – the plant is accredited to ISO 14001 Environmental Quality Standard, European Food Safety Inspection Services (EFSA) Grade A Standard and is an approved producer of the Assured British Meat Standards Manual.

The company installed the PowerSave™ ESS as part of its continuing drive to reduce its energy costs and carbon footprint.

▶ How it works

The PowerSave™ ESS is an innovative voltage control technology that maintains a regulated electricity output where mains supply voltage fluctuates.

Electrical equipment is designed to accept a wide range of input voltages, but if the actual supply voltage is higher than the minimum requirement, the equipment will often consume excess power – for example, a 230V linear appliance operating at 240V will consume approximately 9% more energy than necessary.

The PowerSave™ ESS reduces the input mains voltage, balances the phase voltages and regulates the output so that equipment doesn't consume more power than necessary. It is installed on the main electrical incomer to the HMC factory, and the plant manager has the ability to set the voltage level. A by-pass switch was also installed to allow for occasional maintenance.

▶ Added value

By reducing supply voltages to a controlled, minimum level, the ESS allows equipment to operate at optimum efficiency. This results in lower energy bills, longer-lasting equipment and reduced carbon footprint.

“ We opted to go for the **PowerSave™** equipment due to the voltage stabilisation capability, which regulates the output voltage $\pm 1\%$ of the set point. ”

Henry Devlin, Maintenance Manager, Hilton Meats Cookstown

Why PowerSave™

HMC selected the ESS because of its ability to regulate the output voltage $\pm 1\%$ of the set point.

The company chose the ESS through energy management company Hughes Energy Systems. Unlike most voltage reduction devices, which reduce the supply voltage by a fixed percentage, the ESS dynamically adjusts the amount by which the voltage is reduced.

This is particularly effective for sites like the HMC factory which have a large number of everyday appliances. With the ESS, HMC was able to reduce voltage from more than 240V from the national grid down to 216V, resulting in significant savings.

Outcome

The ESS unit has reduced voltage by approximately 10% at the HMC factory. With this reduction, HMC's annual electricity bill has fallen by £4,500 – a saving of approximately 7%.

As a result of the energy and financial savings, combined with the extended longevity of its plant and the equipment, HMC elected to install another PowerSave™ unit at its Foyle Proteins factory.

Claude Lyons

PowerSave™ is an innovative technology that helps organisations make some of the biggest financial savings possible on their energy bills by reducing and regulating the mains voltage used to power electrical equipment. PowerSave™ products are proven, highly efficient and guaranteed to deliver a return on investment with minimal ongoing maintenance requirements.

PowerSave™ provides two voltage control product families: the Energy Saving Transformer (EST) and the Energy Saving Regulator (ESS). The EST, ideal for sites with a reasonably stable voltage supply, reduces voltage by between 3% and 12%. The ESS provides a solution where mains supply quality fluctuates, maintaining a regulated output even during power dips, and delivering energy savings of up to 25%.

PowerSave™ is a division of UK-based Claude Lyons, the longest established company specialising in voltage control technologies. Backed by over 75 years of experience in the field of high quality power control solutions, the technology is very much of its time as organisations look for new ways to save money and demonstrate their commitment to the environment.

For further information please email contact@claudelyons.co.uk
or visit www.powersavetechnology.co.uk

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