

Riverford Organic Vegetables reduces energy consumption by 11% with **PowerSave™**

“ The Powersave™ ESS is saving us up to around £8,000 annually. It has already paid for itself, as well as significantly reducing our carbon footprint. ”

Jason Gipson, Facilities Manager, Riverford Organic Vegetables.



Riverford's annual electricity bill has fallen by £8,000.

▶ Background

Riverford Organic Vegetables is one of the UK's best-loved vegetable box schemes. The company send out around 45,000 boxes a week to a loyal band of customers who share their commitment to fresh, seasonal food, produced with a respect for the customer, staff, farmers and the environment. The family business is national, with sister farms across the country including butchery and dairy sites.

From the start, the business has been committed to minimising its environmental impact, from the way food is grown through to how it is packed and delivered. Over recent years, they have been working to give this respect for the environment a more rigorous foundation, completing a two-year study on reducing environmental impacts with Exeter University. Riverford installed the Powersave™ ESS as part of this sustainable development project.

▶ How it works

The PowerSave™ ESS is an innovative voltage control technology that maintains a regulated electricity output where mains supply quality 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 voltage and regulates the output so that equipment doesn't consume more power than necessary.

▶ 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.

“ Installing the PowerSave™ ESS has been such a successful investment that ideally we would like one installed on all of our sites. ”

Jason Gipson, Facilities Manager, Riverford Organic Vegetables.

▶ Why PowerSave™

After observing rising electricity costs with trepidation, Riverford Vegetables wanted a money-saving solution, which would fit in with their environmentally friendly ethos.

The company recognised that in business much environmental effort is guided by the need to gain marketing advantage over delivering genuine benefit. Their desire for a truly effective long-term environmental solution led them to Claude Lyons' voltage optimisation technologies.

Unlike most voltage reduction devices, which reduce the supply voltage by a fixed percentage, the ESS continuously and automatically adjusts the amount by which the voltage is reduced.

Riverford Vegetables turned to the PowerSave™ ESS because it provides a solution that is accurate under variable conditions. Because it regulates the new output voltage, it ensures that equipment never receives more or less than the required minimum voltage for correct operation – even during power dips or surges.

▶ Outcome

The ESS unit has reduced voltage by approximately 11% for Riverford Organic. With this reduction, Riverford's annual electricity bill has fallen by around £8,000 annually.

Riverford has also been impressed by the thorough ongoing preventative maintenance service provided by Claude Lyons since the installation of Powersave™. Claude Lyons recently completed one of their standard inspections at the site to check that everything was running efficiently and to date no maintenance work has been required.

As a result of these energy and financial savings, Riverford would ideally like to have units installed on all of their farm sites.

▶ 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 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 up to 25%.

PowerSave™ is a division of UK-based Claude Lyons, the longest established company specialising in voltage control technologies. Backed by more than 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

E&OE issue 1 SD-025