

powerdown220

The UK's Leading Voltage Optimisation Specialist

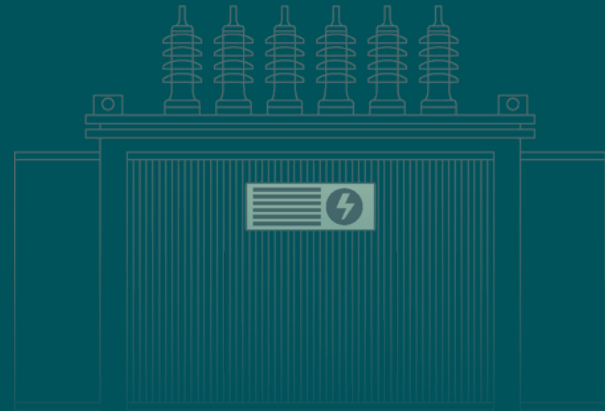
**Voltage Optimisation Working in the Food and
Drink Production Industry**

www.powerdown220.co.uk





powerdown220



LEADING
SPECIALISTS



Voltage Optimisation Cuts Costs and Carbon across the Food & Drink Production Industry

Voltage Optimisation (VO) has been used extensively in the food & drink industry for a number of years to reduce energy costs on-site. Because of high energy consumption requirements and rising energy costs VO is quickly becoming one of the most popular energy savings technologies, with many food & drink companies approaching Powerdown220 to reduce energy costs and carbon emissions.

Whilst there is a difference in savings across all electrical equipment in food manufacturing based on its voltage dependency, VO tends to make consistently high savings on equipment such as: motors found in all types of chilling and freezer compressors, evaporator fans, mixing and mincing machines, automated and manual manufacturing assembly lines, material handling conveyors, fixed speed oven fans and oven exhaust ventilation.

Whilst VO does not make a saving on LED lighting for example, it does help to protect the equipment and make it last longer, with an increase in the equipment lifespan of up to 46%, as stated by (UK wiring regs BS7671).

Calculating a hotel savings for VO is a fairly straightforward process, our technical team completes a full on-site technical survey, to confirm the exact savings made at any particular site.

Once we complete technical survey we are able to offer a full savings guarantee, meaning if we don't deliver the savings promised, we will remove the equipment and offer a full refund.

The brochure includes many of case studies which highlight the amazing results UK companies ranging from confectioners to vegetable growers are experiencing from optimised voltage.



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Kinnerton Confectionery Cuts Costs With Voltage Optimisation



"We sincerely appreciate the responsiveness and the way that you conduct business. We have recommended your company to others because of our satisfaction with your service."

Graham McKinley, Site Facilities and Service Engineer, Kinnerton Confectionery

Guaranteed Energy Savings Against Rising Energy Prices

Confectioner Kinnerton faced a huge increase in their kwh rate from their energy supplier, with their annual costs increasing 116 per cent owing to the energy crisis. They turned to voltage optimisation to protect their business from spiralling energy cost rises and benefit from its rapid payback and stable long-term results.

Following a full technical survey, we guaranteed that the Voltage Optimiser would deliver a minimum saving of 7.22%, which was further underpinned by the Powerdown220 Savings Guarantee. With these figures in mind they were able to budget and plan, helping to protect against their increase in energy costs.

As well as the Savings Guarantee offering Kinnertons 100 per cent of their money back in the event that savings were lower than projected, the confectioner is now saving 7.52% on their energy bills following installation.



A Stable Power Supply and a 40-tonne Reduction in Carbon

In addition, Kinnerton is also benefiting from a more stable power supply on-site, with their equipment only drawing the energy that it needs to run at its optimal level, rather than having to work harder due to excess energy from the grid.

As a result, the voltage optimiser will help increase the lifespan of the equipment and save on future expenditures by reducing ongoing maintenance and replacement costs across the site. The voltage optimiser has also reduced Kinnerton's carbon footprint and saved over 40 tonnes of harmful carbon emissions a year.





Powerdown220 Improves Energy Efficiency at Monaghan Mushrooms



Monaghan Mushrooms approached Powerdown to find ways of reducing their energy bills and carbon footprint, by improving energy efficiency.

Monaghan Mushrooms are one of the largest mushroom producers in the world and are committed to the production of mushrooms in a sustainable way.

They committed further to sustainability by optimising their voltage on-site, and as a result reduced their energy consumption by 7.68% and reduced their annual carbon emissions by 221,937 KG.

"Just wanted to drop you an email and express my gratitude and thanks to the installation team of the voltage optimiser here at Monaghan Mushrooms, Whitley. An absolute joy to work with a professional and hard working team. Please pass on my thanks to them both. A credit to your organisation."

Multi-Site Engineering Manager, Monaghan's Mushrooms

Annual Spend: **£1,055,278**

Project Cost: **£82,780**

Annual Savings: **£81,045**

Annual Carbon Reduction: **221,937 KG**

Percentage Savings: **7.68%**

Payback: **12 Months**





Mademoiselle Desserts Reduce Energy Consumption by 9.83%

Mademoiselle Desserts based in Taunton manufacture a range of deserts for a variety of brands across the UK. After our technical team undertook a site survey, we guaranteed them a 9.83% energy saving through installing an EMC1000i Voltage Optimiser.

Annual Spend: £724,980

Annual Savings: £71,268

Percentage Savings: 9.83%

Annual Carbon Reduction: 38,092 KG

Payback: 8.8 Months



Charles Jackson Grain reduced their electricity bill by £39,044 per year.

Annual Spend: £349,044

Annual Savings: £39,964

Percentage Savings: 10.44%

Annual Carbon Reduction: 90,551 KG





Agrial Fresh Produce & Florette Salads Reduce Annual CO2 BY 408,000 KG

Agrial Fresh Produce is one of the latest companies to complete a Voltage Optimisation project with Powerdown220. Agrial Fresh Produce is a major player in the fresh vegetable market, delivering products to supermarkets, restaurants, and food service sectors.

Powerdown220 installed 5 Voltage Optimisers at 3 UK sites, Scunthorpe, Lichfield (Florette), and Wigan. Pre-installation we undertook voltage dependency surveys of each site, where we established that we would make significant savings on their production equipment.

The average voltage across the three sites was recorded at 244v putting them two volts higher than the UK average. Having voltage at this level was resulting in huge energy costs, decreased working life of electrical equipment, and higher carbon output.

Machines installed: **5**

Annual Carbon Reduction: **408,051 KG**

Number of sites: **3**

Average Carbon Reduction Per Site: **136,017 KG**





Deli 24 Reduce Energy Costs by £26,730

Deli 24, based in Milton Keynes is a food manufacturer, that uses High Pressure Processing Technology. Which is a food processing method that has minimal effect on the flavour and nutritional attributes of food & drink.

Due to the majority of processing and refrigeration machinery on site having fixed speed motors, we were able to identify large savings on these types of equipment.

Annual Spend: £271,921

Annual Savings: £26,730

Percentage Savings: 9.83%

Annual Carbon Reduction: 16,608 KG

Payback: 21 Months



Blue Sky Botany Reduce Consumption by 10.44%.

Annual Spend: £93,820

Annual Savings: £9,799

Percentage Savings: 10.44%

Annual Carbon Reduction: 9,251 KG

Payback: 13.5 Months



Get in touch with us today to find out how much your business could be saving!

You can keep up to date with the latest Voltage Optimisation industry news on our website.

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