

# Case Study #07

Voltage Power Optimisation



## 3663 has carbon all boxed up

**Why it is interesting:** As one of the country's leading wholesale food and logistics companies 3663 has a large estate with heavy energy consumption, and tough emissions legislation targets. For 3663, we installed across 17 sites without disruption to day to day operations.

### 3663, part of The Bidvest Group Ltd.

#### Annual Savings

kWh:	2,786,777
CO <sub>2</sub> kg:	1,519,407
£:	186,714
NOx kg:	3,155

#### Don't take our word for it...

*"The company's superb reliability record gave us confidence that, even though the technology is installed in such a critical part of our operations, we were doing so with little risk.*

*In the current economic climate it is hard to fault a technology that gives such immediate savings with the security of a guarantee."*

Gary Cox  
Head of Property Management



#### Further information

For information on this, or any of our case studies, please contact:

020 7262 6004  
enquiries@  
powerperfector.com

Food distribution company 3663 have an industry reputation for leading the way on sustainability issues and have been committed to this philosophy for over 15 years. They achieved ISO 14001 certification in 2003 and for the past four years have exceeded their targets for reducing carbon emissions.



Innovative technologies and solutions have been key to helping 3663 manage their carbon emissions. For example, by engaging their clients they have been able to leverage large volumes of used cooking oil which is processed into bio-diesel for their logistics operations. Allied to significant emissions from haulage fuel, refrigeration emissions will also be considerable due to high energy consumption. 3663 has taken a holistic approach to reducing energy consumption by improving warehouse build specifications as well as adopting new technologies such as Voltage Power Optimisation.

VPO® has been firmly adopted by 3663 and installed at 17 sites across its estate. This continuous investment in energy efficiency is paying dividends as 3663 was the recipient of the Environment Award at the 2011 Motor Transport Awards.

Joanna Pegg, Fleet Controller at 3663, commented about the Motor Transport Awards: *"We've invested more than £800,000 in voltage optimisation equipment for our depots, decreasing electricity consumption with an expected saving of eight per cent against last year."*

The average saving across the 17 sites equates to 8.5 per cent. Having exceeded expectations the company is now looking at further opportunities with **powerPerfector**.



There are two core reasons why **powerPerfector** was selected by 3663:

### Ideal Loads

The types of electrical loads at 3663 are well suited to Voltage Power Optimisation. The equipment used for warehousing and refrigeration see good savings as most lighting, air conditioning and chiller units are inductive loads, whilst the long operational hours increase the level of savings.

The **powerPerfector** reduces the voltage 'pressure' on equipment. As a result electronic equipment and motors will be subject to reduced wear and tear and an improved lifespan. The financial benefits of not replacing equipment are difficult to quantify, but anecdotally our clients suggest a maintenance spend reduction of 10 per cent is not uncommon.

"A 230V rated lamp used at 240V will achieve only 55% of its rated life (Failing after 550 hours instead of 1000 hours)"

Electricians guide BS7671

The technology's power conditioning benefits mean that operations at 3663 sites are better protected than before the installation.



### No risk solution

The second reason 3663 chose **powerPerfector** is that we offer the most resilient and reliable solution available.

The adoption of any new technology within your business carries an element of risk, this may be a failure to meet the savings promised or an operational risk if the technology fails.

**powerPerfector** has mitigated those risks. Not only was 3663 procuring a technology that came with an unblemished reliability record in over 4,000 UK installations and tens of thousands worldwide, the engineering, measurement and verification and project management processes surrounding the technology lead the industry.

What is more, our performance guarantee is calculated using independently verified data. This gave 3663 the security that they will see return on investment.

Claire Bodsworth, Property and Environment Manager said: *"Not only does **powerPerfector** supply excellent, effective energy efficiency technology, it also offers an outstanding service experience. The quality of the engineering has been first class, with a large number of units installed swiftly and painlessly with no disruption to day-to-day operations."*

By carefully and comprehensively evaluating **powerPerfector's** VPO® solution, 3663 were able to invest in their whole estate and are now seeing the benefits not only in financial or carbon terms, but also in a secure electrical supply.

There are a range of case studies and client testimonials available on our website, please visit [www.powerperfector.com](http://www.powerperfector.com) for further information.