



HELPING COLD STORAGE FACILITIES SAVE MONEY AND REDUCE THEIR CARBON FOOTPRINT. **GUARANTEED**

WHY POWERSTAR FOR COLD STORAGE SITES?

It is estimated that between 10% and 20% of a cold storage facility's annual energy bill could be saved by using technologies to improve the efficiency of refrigeration units.

As a result, companies are focusing on improving energy efficiencies by introducing sustainable, high-efficiency, energy-saving devices which not only safeguard the environment, but also result in welcome energy cost savings. One such technology is Powerstar, a proven and reliable voltage optimisation system that optimises a sites electricity consumption to reduce energy use.

Powerstar offers:

- **Average savings of 12%-15% on energy consumption**
- **Reduced maximum load demand, in turn reducing electricity bills**
- **Reduced carbon emissions**
- **Significantly reduced harmonics**
- **Improved power factor by up to 20%**
- **Increased life expectancy of equipment and reduced maintenance costs**
- **No moving parts, therefore zero maintenance**

POWERSTAR SAVINGS ARE 100% GUARANTEED

When it comes to voltage optimisation solutions there is no one-size-fits-all solution – each building is different, with its own unique infrastructure and specific load requirements. As such, installing the right type of system is essential.

We recognise that in order to provide the optimum savings for our clients it is important we gain a core understanding of their business operation and identify the specific characteristics of each building so that we can identify the tailored, bespoke solution for each site.

Savings Guarantee

Powerstar comes with up to 10 years warranty, this includes parts and labour.

We guarantee savings as a percentage of kWh, as per our proposal. In the case we propose for example 10% but you achieve 9%, we will provide a one-off payment to compensate the loss.

This is an offer the company can securely make due to confidence in the manufacturing quality and expertise of delivery.

CASE STUDIES

SWIRE COLD STORAGE

The Site

This Melbourne-based facility opened in March 2008 and handles a variety of frozen foods including vegetables and seafood. The issue facing Swire was how to squeeze more efficiency and cost savings from a site that was already energy efficient.

The Survey

A full site survey was performed to determine the loading characteristics of the site equipment and voltage measurements were taken capturing maximum, minimum and average values every 2 minutes for a week to calculate the maximum, minimum and average voltages at the site.

The Savings

As a result of the site analysis a 1000kVA Powerstar unit was installed. This provided a 20v reduction, dropping the voltage from an average 248v to 223v and resulting in a **13%** saving on annual electricity consumption, as well as a reduction in CO₂ emissions of 490 tonnes.

Customer Quotation

"Now that the voltage level has been specifically adapted to accommodate the exact needs of the Swire Laverton site, the potential for the electrical equipment to fail has also been drastically reduced, thus lessening maintenance costs on major electrical components."

Sam Czyczelis,

General Manager,
Engineering Services



TDG STORAGE SOLUTIONS

TDG Storage Solutions, one of Europe's largest logistics companies, has 18 temperature controlled sites in the UK. As refrigeration facilities are high users of energy, TDG Refrigeration Services was particularly keen to identify practical, cost effective ways to lessen the company's impact on the environment, whilst at the same time reduce energy costs.

To help it achieve the savings the company installed a Powerstar 225kVa unit.

The Powerstar system provides energy consumption savings in the region of **86,875kWh** and financial savings of **\$9824.16 AUD**. This equates to a reduction of **3,341kWh**, representing a 10% improvement in power consumption



SERGURO LOGISTICS

Providing temperature controlled supply chain solutions to suppliers in the food service, Seguro Logistics operate circa 50,000 pallet spaces of cold storage. Powerstar was chosen due to proven results and reliability of the system - gained from over 10 years of successful installations.

Following the installation of Powerstar at Seguro Logistics, energy savings of **14.74%** have been established at the site, which is almost **6%** higher than the guaranteed **8.9%** figure. The reduction in energy consumption will also save Seguro **\$10767.28 AUD** on their annual electricity bill.



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