

**powerstar**<sup>®</sup>  
100% British Engineered. 100% Guaranteed Results.

**CASE STUDY**

**Charles F Stead**



## Charles F Stead

### Background

Charles F Stead is one of the most respected tanners of suede leather in the world today. They specialise in the tanning, dyeing and finishing of high grade suedes and speciality leathers with interesting grains.

A well-established and world respected tanner of suede and leather the company roots date back to 1895, and the company is now a prominent member of the Yorkshire business community.

### The Customer

With more than 100 years experience in the leather industry, Charles F Stead combine English tradition with the expertise of a family run leather tannery in Leeds to provide unique and distinctive products.

Their customer base includes a variety highly prestigious brands such as Clarks , Timberland, Tods and Merrell to name only a few.

Charles F Stead are also proud winners of the Queens Award for export achievement, the most dignified accolade for UK exporters. The award was achieved for having consistently exported more than 65% of their products to North America, Europe and Japan.

### The Challenge

Charles F Stead are strong ambassadors of sustainability and are committed to improving their environmental performance.

As part of their overall environmental management system, Charles F Stead sought to reduce their carbon emissions and cut their impact on the environment without reducing operational capabilities.

An important factor in the selection of a technology to assist with their environmental performance was a solution that matched with the same traditions as their in being British, high quality manufacture and offering a unique and distinctive benefit.

Reliability and unobtrusiveness was also paramount in their selection.



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## Charles F Stead

### The Solution

Having scoured the available energy efficiency technologies on the market, Charles F Stead identified voltage optimisation as an ideal solution due to the wealth of documented installations and savings results available.

EMSc (UK) Ltd, designer and manufacturer of the Powerstar voltage optimisation system were chosen to carry out a full site survey at the Leeds site.

The UK manufactured Powerstar system, is provided with guaranteed savings and clear warranty periods which gave reassurance to Charles F Stead that proposed results would be achieved.

The project-led, engineering approach outlined by EMSc (UK) Ltd's Powerstar team also demonstrated to Charles F Stead that the Powerstar team were committed to providing the best solution for their business.

### The Results

The installation of Powerstar at Charles F Stead in Leeds, Yorkshire, took place on the 24<sup>th</sup> November 2012.

The installation was carried out by Advanced Electrical whom work with EMSc (UK) Ltd on a regular basis. The installation was seamless and caused minimal disruption to business operations.

Post install, electrical equipment at Charles F Stead is running more efficiently and impressive savings have been achieved.

Analysis of savings was carried out on the 7<sup>th</sup> March 2013.

Year on year savings present a **20.74% kWh energy reduction.**

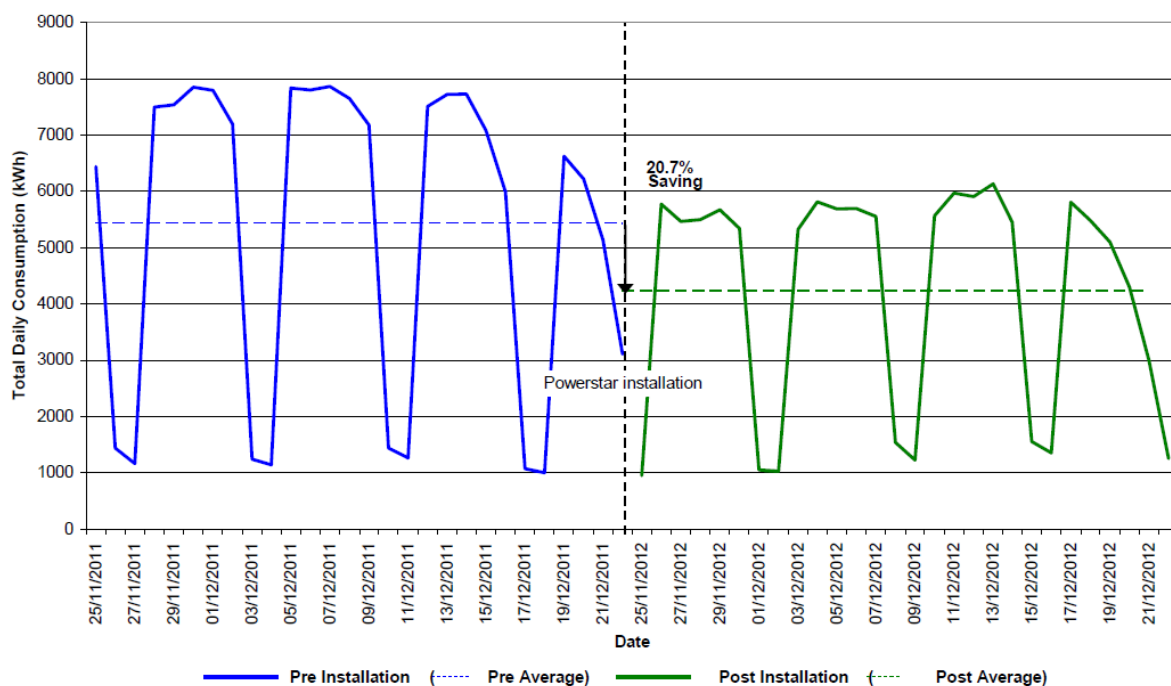
*“We saw voltage optimisation as a major step in our continual need for improvement on our environmental performance. We are very pleased with this energy reduction, which not only help our targets, but has a significant impact on our costs too.”*

**Colin Hodgson, Operations Director**

## Charles F Stead

### Savings Analysis

Figure 1: Total daily consumption (kWh) pre and post Powerstar installation



The above graph shows the total daily consumption pre and post-Powerstar installation one year apart at Charles F Stead.

The blue line represents the average consumption pre-Powerstar installation and the green represents average consumption post-Powerstar install.

The 20.7% energy saving is clear to see.



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