

Case Study:
**NORTH EAST
LINCOLNSHIRE COUNCIL**



A UNIQUE VOLTAGE OPTIMISATION SYSTEM



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Powerstar is an approved energy savings system. This product may qualify for an interest-free Energy Efficiency Loan from the Carbon Trust. Powerstar® is a registered Trademark by EMSc (UK) Limited.

Registered with the DTI MAS as a Centre of Expertise in Manufacturing.

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INTRODUCTION

North East Lincolnshire Council is keen to reduce its carbon footprint and has recently released its Environmental Sustainability Framework. Furthermore the Council is in the process of implementing a carbon management plan that will help reduce its carbon footprint and contribute to their efforts of tackling climate change. The Council regards tackling the causes of climate change as serious business, as not only does saving energy and carbon have positive effects on the environment, but also economises the way in which the Council uses the public's money.



THE CUSTOMER

North East Lincolnshire Council is responsible for the Cleethorpes, Grimsby and North East Lincolnshire districts. The Council is set amongst an ideal location for both business and pleasure due to its smooth balance of coast and countryside. One major sector in the North East Lincolnshire region is renewable energy, a sector which The Council regards as positively beneficial for the local area.



THE CHALLENGE

As the representing authority of three joining areas, the Council is keen to play a leading role in successfully reducing its carbon footprint and energy costs without such means affecting the functioning of equipment. Powerstar's challenge was to impress The Council with their ability of achieving The Council's aims to the highest capabilities, proving that they are the most economical and practical solution to their problems.



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THE SOLUTION

When EMS was brought on board it soon became apparent that Powerstar was the most compatible solution for The Council's aims. Not only would Powerstar control The Council's incoming voltage supply, effectively increasing their energy savings and lowering their CO₂ emissions, Powerstar would also ensure that The Council is protected against damaging transients (power spikes) and expensive maintenance costs. Following an in depth site survey, The Council is now on its way to reaching Powerstar's prediction of **saving 24.72% of eligible energy.**



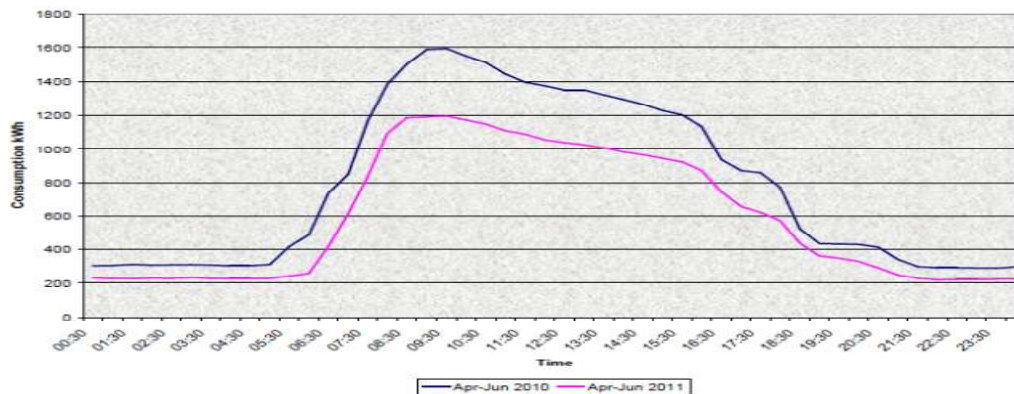
THE BUSINESS BENEFITS

Over the course of a year The Council is set to **save 57,853kwh and £6,094 off its annual electricity bill.** Such a considerable reduction in kwh's will set North East Lincolnshire Council on a promising path of becoming a more green, eco friendly Local Authority.



SAVINGS ANALYSIS

Figure 3: Savings comparing April & May & June 2011 to April & May & June 2010



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