

CASE STUDY



VOLTAGE OPTIMISATION IN GOVERNMENT BUILDINGS

Introduction

London City Hall is one of the country's most prestigious buildings and due to its predominant stature, environmental commitment and support are considered mandatory measures of practice.

Every angle of energy efficiency is looked upon by means of lowering the carbon emissions produced by the Greater London Authority (GLA). Even the shape and alignment of the building contributes to an energy strategy that helps the building run on a quarter of the energy consumed by a typical high specification office building.

The Customer

London City Hall is home to the Greater London Authority accommodating the Mayor of London, the London Assembly and over 600 permanent GLA employees. Popularly recognised as one of London's modern landmarks, the building sits between London Bridge and Tower Bridge on the south bank of the Thames.

The Challenge

The GLA was keen to implement a carbon reduction regime that originated from the UK itself. This decision came from London City Hall's commitment of supporting UK based companies in regards to innovation, entrepreneurship and environmental excellence.

GLA however were adamant that their sourcing of a UK based company could not compromise on quality, experience, knowledge and expertise and insisted that they opted for one of the most efficient and credible solutions on the market.

Powerstar were called upon to prove how their voltage optimisation unit would meet the City Hall's set criteria.

Savings & Benefits

Key Figure

Savings of Kwh achieved per annum: **13.6%**

Benefits

Aside from reducing the GLA's carbon footprint, the established savings have also reduced the electricity costs associated with the building by a considerable amount



The London City Hall



The famous staircase inside London City Hall

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The Solution

From investigating a range of suitable energy saving solutions capable of delivering the appropriate efficiency, London City Hall were particularly intrigued by the effects of voltage optimisation.

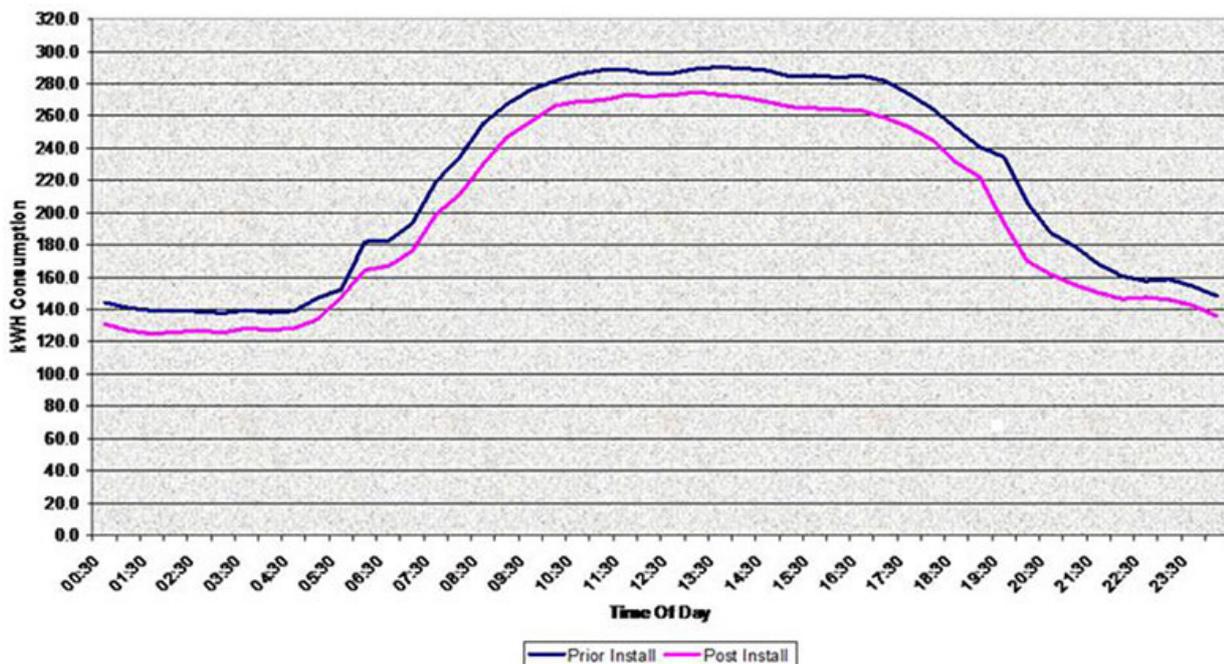
By reducing the average voltage from 242V to a supply that more accordingly matches the electrical start up of equipment used within the building, significant reductions in carbon emissions can and have been achieved.

Powerstar prides itself on delivering an engineering solution that is individually tailored to suit the needs of each customer. With all components designed, manufactured and locally sourced within the UK, the end result of a Powerstar installation is just as impressive as the innovative process of construction.

With unrivalled results in energy savings and a dedicated team with over 150 years combined experience in design and manufacturing, the patented Powerstar voltage optimisation unit proved to be the ideal solution for the GLA.

Savings Graph

Table 1. Average consumption by half hour comparing pre and post Powerstar install.



Other Case Studies

There are a range of case studies and client testimonials available on our website, please visit www.powerstar.com for further information.

Further Information

Please contact the Powerstar Marketing department on 0114 2576 200 or email marketing@powerstar.com

www.powerstar.com