

CASE STUDY



VOLTAGE OPTIMISATION IN HEALTHCARE

Introduction

Widnes Health Care Resource Centre opened in 2006 and is operated by the National Health Service (NHS). The Centre is also home to Oaks Place Surgery, a small GP practice that has been based in Widnes for the past 30 years providing patient centred care.

The aim of the centre is to promote and deliver effective comprehensive primary health care services to the highest available standard for all individuals from a friendly and supportive environment.

The Challenge

The health of the environment and of people is damaged by pollutants released and resources used in delivering health care. Reducing carbon dioxide emissions is a useful proxy measure of reduced environmental impact. A report released in September 2013 reinforces the scientific basis for taking action to accelerate progress on reducing man-made carbon emissions to protect health both now and in the future.

The NHS has a goal of reducing carbon emissions 34% by 2020, required to align with the Climate Change Act target. There is still a 28% reduction required due to progress made between 1990 and 2013 and the NHS are looking for quick but effective methods to help further this progress.

The Solution

Voltage Optimisation from Powerstar was shown as a quick, effective and efficient method of reducing carbon emissions at the site along with making savings on electrical consumption and energy costs.

A Powerstar 226kVA system was installed at the site, eliminating **46.8 tonnes** of carbon dioxide every year giving a return on investment of **2 years and 3 months**.

Savings & Benefits

Key Figures

Annual reduction in energy consumption: **15.7%**
Tonnes of Carbon Dioxide saved: **46.8 tCO₂**
Annual financial savings: **£8,385**

Benefits

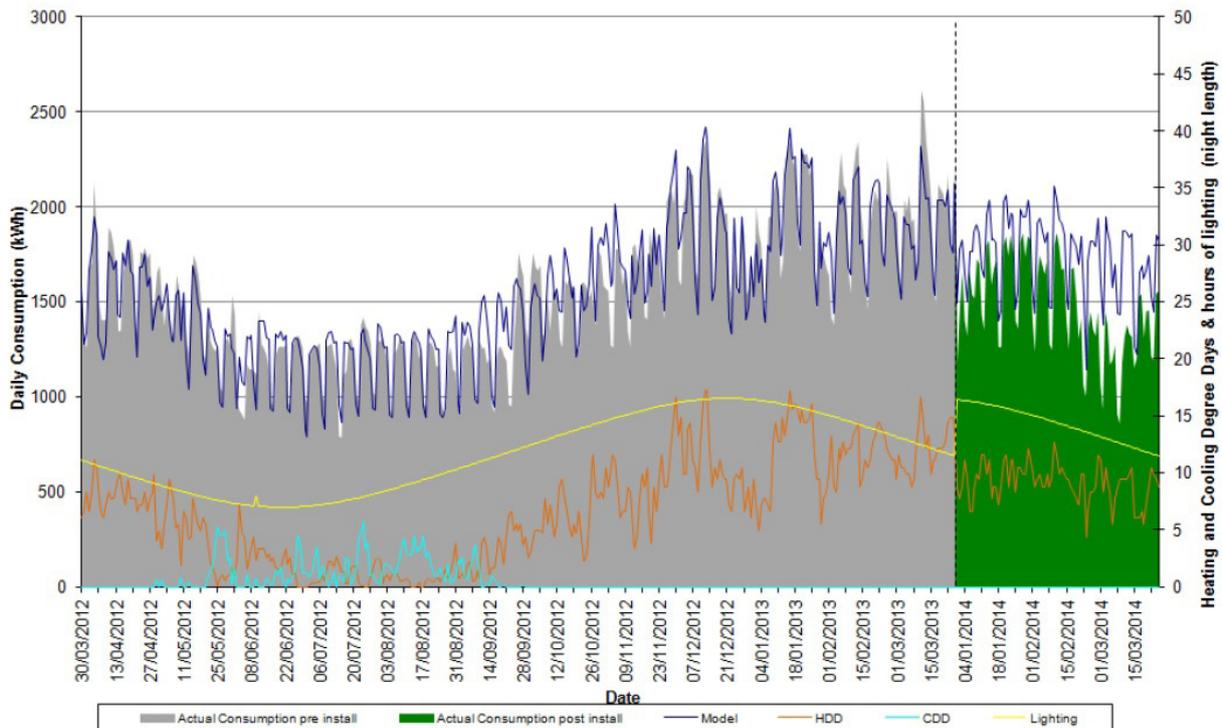
The reduction in energy consumption of **15.7%** eclipsed the guaranteed saving of **9.7%** provided pre-installation by **6%** with a annual saving of **86,445kWh**.



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Savings Graph

Table 1. Pre install and post install actual consumption and regression model forecast without Powerstar



Customer Quote



Kevin Wood, Assistant Operations Manager, Renova Developments Limited (Installers of the Powerstar Unit)

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

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