

What can Voltage Optimisation do for me?



Reduce your carbon footprint



Reduce your electricity Bills



Extend the Lifespan of your electrical appliances



Reduce your energy consumption



# INCREASING ENERGY PRICES EATING INTO YOUR PROFITS?



## Riverside Housing - Ivy Court Nursing Home CASE STUDY



A full survey was undertaken by matt:e to assess the current electrical loads being used by the nursing home. The survey was carried out in two parts. The first part of the survey was to indicate potential savings and involved a survey of the types of load on site

(lighting, heating, motors etc) in order to build a load profile and accurately predict savings.

For the second phase of the site survey, we installed monitoring equipment to determine the Voltage Optimisation equipment specification and install feasibility.

The results of the monitoring indicated an **average voltage of 244 volts**. However, during periods of higher usage the voltage dropped to 238 volts and it was therefore determined VO equipment with a subtractive of **20 volts** would be sufficient to achieve a satisfactory level of savings.

### THE RESULTS AFTER INSTALLATION

For accuracy, the analyzer was set to record in 10 minute intervals across a 7-day period, giving a total of 1,010 measurements.

CONDITION	MEASUREMENTS	INTERVALS	AVERAGE VOLTAGE	TOTAL KWH
Bypass 1	1,010	10 minutes	243 volts	1,371.3 Kwh
Save 1	1,010	10 minutes	223 volts	1,142.0 Kwh
Bypass 2	1,010	10 minutes	243 volts	1,436.1 Kwh
Save 2	1,010	10 minutes	222 volts	1,074.1 Kwh

Combined Kwh (Bypass) = 1,371.3 + 1,436.1 = 2,807.4 Kwh  
Combined Kwh (Save) = 1,142.0 + 1,074.1 = 2,216.1 Kwh

**OVERALL SAVING: 21.16%**



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