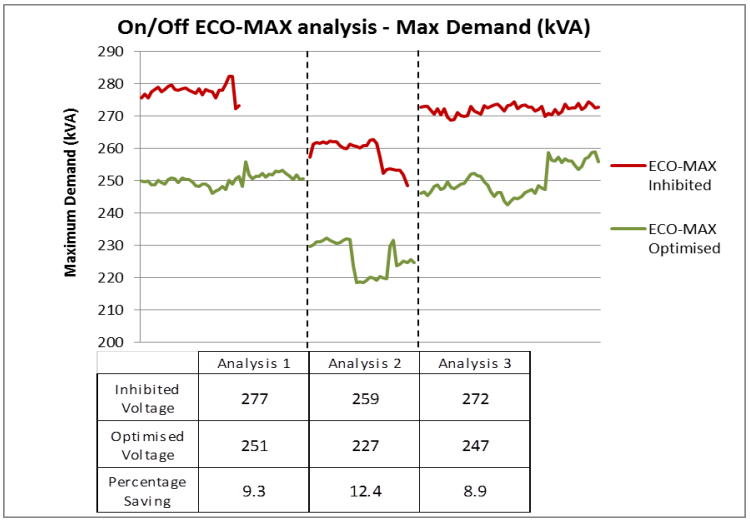
GW Energy Ltd - CASE STUDY

ECO-MAX-POWER EMP800i
KP Foods – Consett, Durham

Project Summary

Installation of 1 x EMP800i Voltage Optimiser and Power Factor Correction equipment on the supply at KP Foods, Consett.

10.2% average energy savings achieved by the ECO-MAX Voltage Optimisation Unit



	Analysis 1	Analysis 2	Analysis 3
Inhibited Voltage	277	259	272
Optimised Voltage	251	227	247
Percentage Saving	9.3	12.4	8.9

Graph A shows the On/Off post installation analysis carried out at KP Foods.

This shows that the maximum demand (kVA) was reduced by an average of 10.2% by the implementation of ECO-MAX Voltage Optimisation.

KP Foods manufacture high quality savoury snacks. They pride themselves on having a thorough environmental management system and make a conscious effort to reduce their impact on the environment, constantly seeking improvements to minimise their environmental impact.

GWE established the voltage and load profile, and proposed that implementing a VO project would significantly reduce CO2 emissions on site (over 93 tonnes per year), minimising their carbon footprint as well as yielding energy cost savings.

The ECO-MAX-POWER 800A Unit (including 'Brownout' under voltage inhibit) and Power Factor Correction equipment was installed on 29th September 2012. Voltage on site was reduced by 7%. The overall project cost was £28,635.31, with a payback period of 24.6 months.

GWE anticipated consumption savings of 9.24%. This was exceeded in subsequent post install analysis, and average savings of 10.2% were recorded.

KP were satisfied with the results of the installation, and felt confident that the ECO-MAX optimiser was contributing to their environmental targets. KP have also found that due to the reduction in voltage spikes and fluctuations, electrical equipment has a longer operational life and works more effectively at the reduced voltage.

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ECO-MAX Works - Orgreave Road - SHEFFIELD - S13 9LQ - 0114 293 9935 - www.gwenergy.co.uk - sales@gwenergy.co.uk