

enistic



**PLUMB
CENTER**
a **WOLSELEY** company

ENISTIC HELP WOLSELEY GROUP CUT ENERGY BILL BY 80%

working in partnership with  **QE Global**

“ The system Enistic provided us did exactly what we needed - it was fantastic. ”

QEGLOBAL

Background

A Wolseley Plumb Center branch in Leamington Spa wanted to trial converting in-store lights from tube to LED. They commissioned QE Global, a leading UK designer and manufacturer of LED lighting technology, to refit parts of the store with the LED lighting. Enistic were then approached to deliver an Energy Management system that would provide them with the level of data needed to validate a permanent switch to LED lighting.

How We Did It

- Branch Survey
- Energy Management Equipment Fitted
- Relux Design
- Under Mezzanine, Trade Area,, Office and Counter Area LED Lighting Units Installed & Linked to Energy Management System

The Enistic Energy Management system was key to the LED light conversion trial. Without this key software none of the in-depth data would have been available to Wolseley; and they would not have been able to measure both their existing lighting or the LED trial system.



A WOLSELEY BRAND TRADE CENTRE

The energy management system was fitted April 2012 and monitored 7 lighting circuits over 4 areas:

- Mezzanine Level
- Office Area
- Trade Counter
- Trade Area

The system accurately recorded and measured KWh usage every 30 seconds as well as recording levels of CO2 and the cost of each running circuit. Both Wolseley and QE Global could view the system online and could generate reports from the live data. The installation was completed during normal branch opening hours with no inconvenience to the branch colleagues or clients of the trade centre.

Outcome

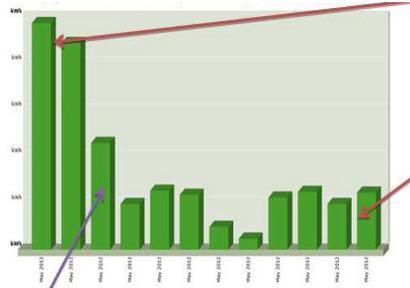
The Energy Management system from Enistic validated the savings that could be made by installing energy efficient lighting, and proved the return on investment. The results we measured proved how inefficient the Plumb Center's old tube lighting was and how much it was costing Wolseley.

The Enistic Energy Management system quantified massive energy savings of 64.75%, which cut daily lighting costs by up to 80% and, in addition, reduced the trade centre's CO2 emissions by up to 80%.

QE Global are now fitting a full electrical installation for a new branch and refitting the existing branch completely with energy efficient LED lights.

Before & After Reports

UNDER MEZZANINE BEFORE AND AFTER

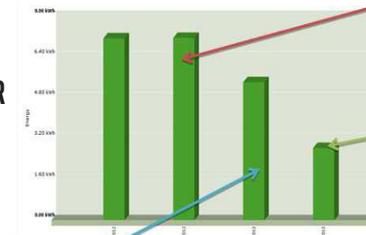


EXISTING	KWH	CO2	COST
Usage per Day	9.73	5.22kg	£1.04

AFTER INSTALL	KWH	CO2	COST
Usage per Day	1.97	1.06kg	£0.20

CHANGE OVER DAY

OFFICE AREA BEFORE AND AFTER

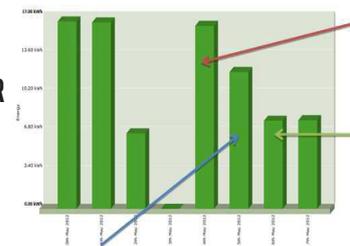


EXISTING	KWH	CO2	COST
Usage per Day	7.12	3.83kg	£0.71

AFTER INSTALL	KWH	CO2	COST
Usage per Day	2.83	1.52kg	£0.27

CHANGE OVER DAY

TRADE COUNTER BEFORE AND AFTER

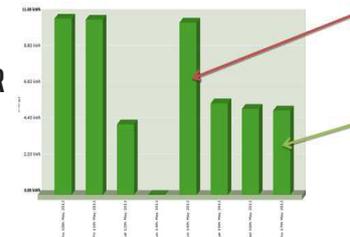


EXISTING	KWH	CO2	COST
Usage per Day	16.54	8.88kg	£1.65

AFTER INSTALL	KWH	CO2	COST
Usage per Day	7.83	4.18	£0.78

CHANGE OVER DAY

TRADE AREA BEFORE AND AFTER



EXISTING	KWH	CO2	COST
Usage per Day	10.71	5.75kg	£1.07

AFTER INSTALL	KWH	CO2	COST
Usage per Day	5.13	2.76	£0.51



What Happened Next

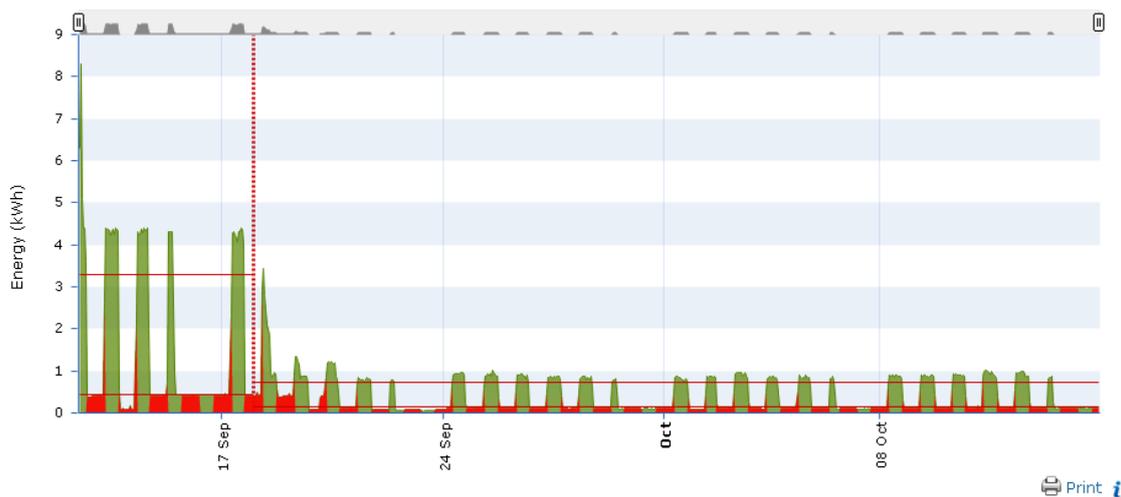
Following on with the work we did with the initial Wolseley Centre, we were asked to monitor the lighting in a further Plumb Center branch in Hertfordshire.

We installed our equipment on site to monitor 6 different areas:

- Incoming Feed
- The Office and WC
- The Counter
- Racking Area
- Trade Area
- Warehouse

Our smart meters monitored the data, whilst the energy management software, Energy Manager Online, provided reports and analysis. Not only could the software show us how and where the energy was used, it provided Wolseley with figures on exactly how much their energy was costing them and the amount of CO2 the site produced.

LED Lighting Refit



Average saving 71%

	Before	After	Saving	% saved
Working hours	3.28 kWh	0.73 kWh	2.55 kWh	78%
Non-working hours	0.45 kWh	0.16 kWh	0.28 kWh	63%
Total / Average	4.01 kWh	0.89 kWh	2.83 kWh	71%