



Case Study



Blackpool Pleasure Beach opt for enercom AMR

Introduction

Following a review by Utilities Auditing on behalf of the Carbon Trust, Blackpool Pleasure Beach Ltd decided to focus their efforts towards determining exactly where energy was being used beyond the main incomers. Consequently following the purchase and initial use of a power quality analyser to obtain readings, the long term strategy lead to the installation of an M&T system, utilising Enercom's automatic reading system (AMR)

The objectives for Blackpool Pleasure Beach

- To determine energy use across the site
- To identify/control high use loads
- To identify/resolve abnormal base loads
- To ensure minimal disruption during installation
- To ensure data is readily available/accessible

The Solution

By using Enercom's Automatic Meter Reading (AMR) System, Blackpool Pleasure Beach is able to collect half- hourly data from designated energy meters, thus enabling the targeted monitoring of energy across the site. The AMR System consists of a series of Multilog data loggers strategically placed throughout the Pleasure Beach estate collecting pulses from the relevant energy consuming plant and equipment.



Data Provision for Energy Management

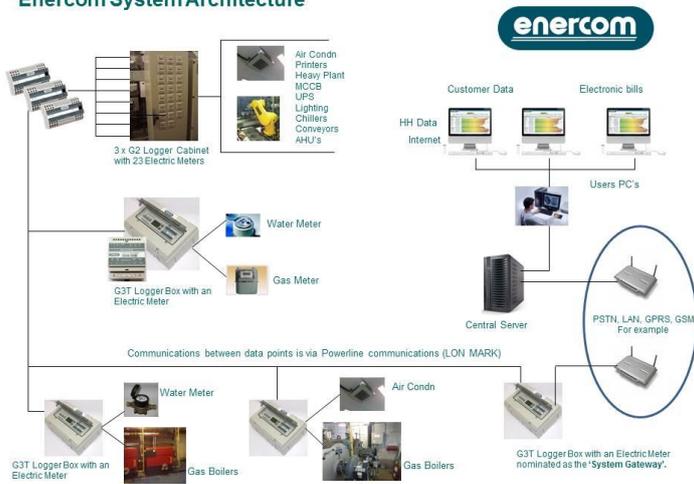
The Multilog units receive meter pulses from energy meter (any type of meter: gas, electric, water, oil, heat etc.), and convert the pulse count into a kWh energy usage figure for each half hour (or other programmed unit and time period) and stores the time-stamped values from 6 months to 7.5 years depending on the logger used.

Multilog controller software running on the host PC initiates regular automatic downloads of the half hourly data and copies it into "easy to use" CSV/ASCII files for interpretation by either Enercom MC Web Software or another preferred aM&T Software or even into a Building Management System (BMS) for analysis.



The software ensures the data arrives complete, if communication is interrupted during data download the software initiates multiple retrievals until all the data for that period is collected. The system has proven to be robust and reliable in operation. The Multilog system also provides useful raw data such as instant meter readings, date and time-stamped kWh values, energy use profile charts and the means to easily view, analyse and copy data from a Web-Browser application into Microsoft applications such as excel.

Enercom System Architecture



The Outcome

Blackpool Pleasure Beach recognises that energy efficiency is high up on the business agenda. To that end they continue to extend the M&T system throughout the park. Energy use can now be monitored from the desktop and easily analysed to initiate repairs and help reduce cost.

Testimonial

"Enercom have worked with Blackpool Pleasure Beach to help install an effective M&T system. They always provide excellent service with knowledgeable and efficient support".

Kevin Barratt
Blackpool Pleasure Beach

Many Thanks to Kevin Barratt and Anne Froggett at Blackpool Pleasure Beach for the provision of data and materials used in this case study.

Convenient and Clean Installation

Multilog units are equipped for communication over a variety of media including existing single or multiphase mains cables, using an in-built PLT-22 Powerline interface and twisted pair using an in-built LONworks communications chip. This means that installation is clean and convenient; thus the need to drill walls and lift carpets/floorboards for cabling/network is negated. Disruption to power supplies is minimalized and any work can be carried out during normal hours.

Where network components or host PC is remotely situated, communications can be extended via internal telephone networks or PSTN using dial-up modem or TCP/IP Ethernet LAN interface to the Multilog "gateway" unit. This system provides minimum disruption to the client. System expansion is easily accommodated to suite client needs, and where continuous plant operation necessitates a phased approach can be implemented as required.