Case Study



Manufacturing Facility for a Multi National Health & Hygiene Company

In 2006 Autometers were approached by leading global health and hygiene company to advise on they could monitor & Log their energy consumption remotely without the requirement to "walk around". Autometers attended site and established the following:

Customer Requirement

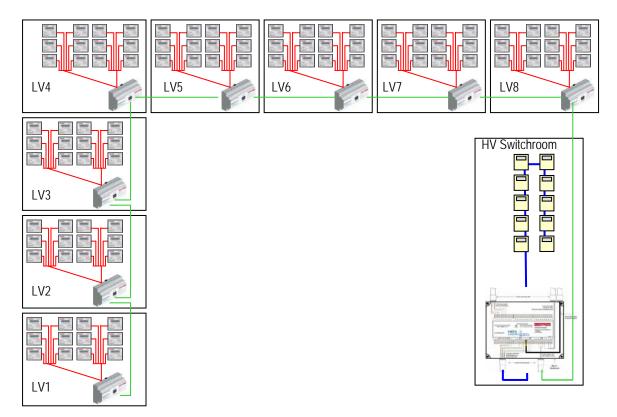
To enable existing HV & LV kWh meters to be remotely read, logged and have the ability to view historical 30 min profiles.

Installation

10 HC meters – Areva Micon Units located in the HV distribution Room. 106 LV Meters – Various Types with Volt free Pulse outputs all located in 8 off LV Switch boards.

Solution

- Protocol conversion to be written to enable Micon Devices to be read by HC1 via MODBUS.
- Fit HCC(16 Channel CANBUS collector) in each of the switchboards. Wire pulses from each meter into HCC and network HCCs back to a Master Collector HC1 on a CANBus network.



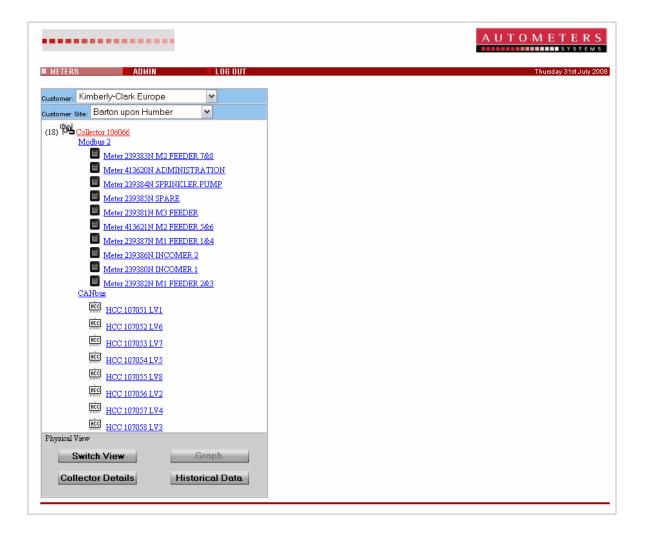
All Protocol conversions were completed, Horizon equipment fitted. All installation and cabling between devices was carried out by client nominated contractors. Once completed Autometers were commissioned to check, the installation & Coms/Pulse wiring and to instigate the HC network onto the Horizon Website.

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Below is a copy of the "physical" Screen configuration from the network connected. Modbus 2 = 10 HV Micon devices

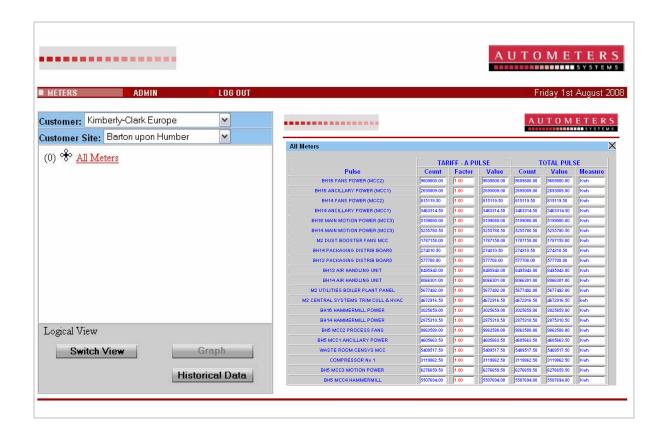
CANbus = 8 HCC Pulse collectors each accepting up to 16 pulse inputs from kWh meters.



As the Client Objective was to be able to read, view, Log, analyze data from all meters, an ALL METERS collector was created in the Logical View. This enabled kWh registers from all 106 meters to be viewed, exported to excel etc from a single point.

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Using the data collected from the Horizon System the client was able to establish areas and times of high load consumption and Max Demands. This analysis enabled production Machinery start times to be offset to ensure Max Demand was kept to a reduced level. This combined with the 30 Min kWh profile produced by the system enabled the energy buyers to discuss their usage and demand levels with various energy providers and a cost saving of over £100,000 in the first year of installation to be achieved.