

Case Study

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Case Study: Food & Drink Testing Services (Sub Metering)

The Challenge

Catalyst is working with a leading provider of food and drink testing services in the UK to identify opportunities to add value to their existing energy policy. This policy, already in place, outlines the need to control energy consumption across all activities to: avoid unnecessary expenditure; improve cost-effectiveness, productivity and working conditions; as well as protect the environment. As such Catalyst was tasked with identifying key recommendations to implement this through reviewing and studying existing practices.

The Solution

Catalyst identified an opportunity to look at controlling energy consumption through sub-metering. The solution would involve installing automated metering and monitoring software allowing the customer to:

- Identify avoidable energy and gas use and cost
- Engage stakeholders in energy and water use to aid achievement of the above
- Ensure reduction targets are met

Understand and map energy and utility consumption across the site(s) and by functional area Identify opportunities for efficiency improvements.

- Measure and verify efficiency projects
- Use real time and historical reporting to drive ownership and responsibility for utility use to each department, team or shift
- Help with building a business case for future investment in energy-saving technologies
- Provide the ability to produce reports for regulatory compliance

The solution proposed has been installed in many hundreds of sites throughout the world, and is manufactured in the UK. Utilising this radio technology provides accurate data collection at a much reduced cost.

The Outcome

Following a survey, Catalyst will install meters, which will have 153MHz radio transmitters connected. This radio frequency is licensed to the manufacturer of the radio equipment so it cannot interfere or be interfered with by other frequencies used on site.

Each meter will send the kWh consumption every 15 mins to a centrally located data collection unit. This will send the data from every meter via GPRS to the remote server so the data can be used using intuitive web based software. Typically, Catalyst would expect payback to be between three and six months.



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