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Enistic Case Study

Energy-Efficient Office Planning at Cheltenham
Borough Council

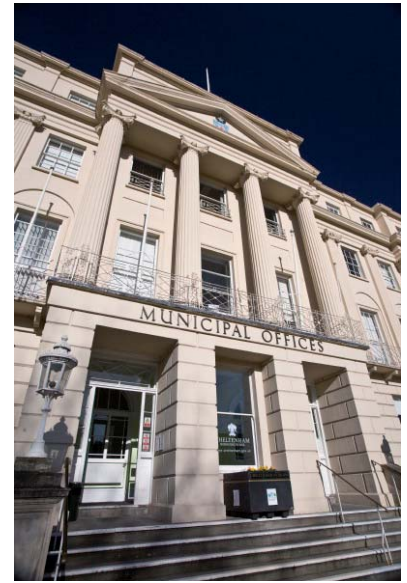
The Client

Cheltenham Borough Council is a local authority located in Gloucestershire, UK. Enistic equipment was installed in its Municipal Offices, which house approximately 350 staff.

The Project

The Council's current energy consumption is 600,000kWh. As part of a larger project involving an accommodation strategy review, the management team wanted to monitor and understand their energy usage with a view to making savings.

Chris Wilkins, Building Surveyor at Cheltenham Borough Council, said: *"The critical thing for us was to ascertain how efficiently we are using our building and to look at the energy and cost implications of different layouts such as single-occupancy offices, small open plan shared workspaces and larger open plan spaces."*



The Council contacted **Fulcrum Projects**, a Bristol-based authorised reseller of Enistic solutions, for advice on a system that could monitor lighting, PCs and all the other devices that might be plugged in to a workstation. In addition, they were keen to understand the energy impact of kitchen fridges, microwaves and instant hot water heaters.

Mike Matthews, Sales Director at **Fulcrum Projects**, said: *"Cheltenham Borough Council clearly had concerns about their energy consumption and were looking for a way of identifying both where they were performing well and also areas of potential wastage. I recommended Enistic's combined hardware and software solution because it would provide them with the granularity of data needed and give them access to a range of reporting and analysis tools. The Council also wanted to export data into Excel, which can easily be done using Enistic's Energy Manager software."*

The Solution

The Council installed a number of single smart sockets and 5-way smart strips to capture information about the energy usage of individual appliances and of employee workstations. That information was wirelessly relayed to a Smart Energy Controller, which in turn transmitted data to Enistic's class one data centre. Council staff could then monitor and analyse their energy usage using the Energy Manager reporting software.

The Results

After a six month period of data collection, the Council had a clear picture of energy usage in its municipal offices and could identify several areas of wastage. The monitoring programme also revealed that some of their timer controls, which had previously been installed to reduce energy consumption, were actually faulty and have since been repaired.

Future Development

Following the successful completion of the project within the initial test area, the equipment has now been moved to another council property, to help identify more potential energy savings and in order to compare the efficiency of different buildings.

The Client's Verdict

Chris Wilkins, Building Surveyor at Cheltenham Borough Council, summed up the project by saying, *"Enistic's products delivered exactly what the project set out to achieve. We were able to use the raw data to better inform us of specific energy usage throughout our property portfolio."*

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