



Energy Bureau drives energy reduction success for General Electric

Project Summary:

We deployed our online virtual energy manager service, 'Energy Bureau', at one of General Electric's main offices in London driving improvements in building management efficiency.

The use of an automatic meter reading system (AMR) on the electric, gas and water meters enabled us to analyse this data and highlight areas where improvements in building efficiency could be achieved. It also allowed GE to qualify for an early action metric for AMR under the forthcoming Carbon Reduction Commitment regulations (CRC) in the UK.

The Client's Challenge:

"GE's focus to reduce energy consumption, cost and carbon footprint is a fundamental element of our ecoimagination strategy.

In partnership with WSP we undertook a pilot exercise to quantify the benefits of proactive monitoring and the implementation of AMR technology.

Measuring usage and having the ability to report on the impact of any improvements we make to our operational management regimes, by introducing energy efficiency solutions, is vital for developing policies aligned to further energy reduction targets. Any improvements need to consider environmental impact as well as actual bottom line savings in both financial and carbon terms. The key is to obtain a simple retrofit/interface that would provide a smart metering type solution to pin point areas for focus without costly replacement of the current utility meters. In addition, we wanted to pilot an AMR solution to assess the benefits of rolling this out as part of GE's CRC approach."

Gary Cracknell - GE Technical Services EMEA.

Our Work:

WSP interfaced with the existing site utility meters at GE's London office. Through our virtual energy manager service the consumption profiles were analysed and a remote analysis report was generated. This highlighted areas of reduction opportunity and also offered suggestions to GE on what issues to focus on to achieve these savings.

The on-site facilities team was engaged and after evaluating the report the building management system was realigned. Various energy reduction strategies were introduced so that the site systems were controlling the building to its maximum efficiency. The building now benefits from a more aligned energy profile. This is being maintained through an 'alarm' facility within our web based Energy Bureau which acts as GE's dedicated virtual energy manager, and sends instant alerts if unexpected energy usage occurs.

The Outcome:

Although the site teams are still investigating opportunities associated with the water profiles, the savings in electricity and gas consumption currently being realised by GE are in excess of £31,000 per annum within a payback of just three weeks. Not only have WSP helped GE reduce its consumption, costs and carbon footprint this has also helped GE receive the London Green 500 award.

Contact:

Bill Negus
T. +44 (0)161 886 2626
E. energy.bureau@wspgroup.com

