

Case Study:

Hilton Hotels – London Gatwick



Hilton London Gatwick Airport is linked by a direct covered walkway to the South Terminal, and offers air-conditioned, soundproofed rooms and an on-site gym. The Hilton features a 24-hour fitness centre, 2 bars and a Costa Coffee shop. The Garden Restaurant serves breakfast and an evening buffet, whilst Amy's Restaurant offers intimate modern dining.

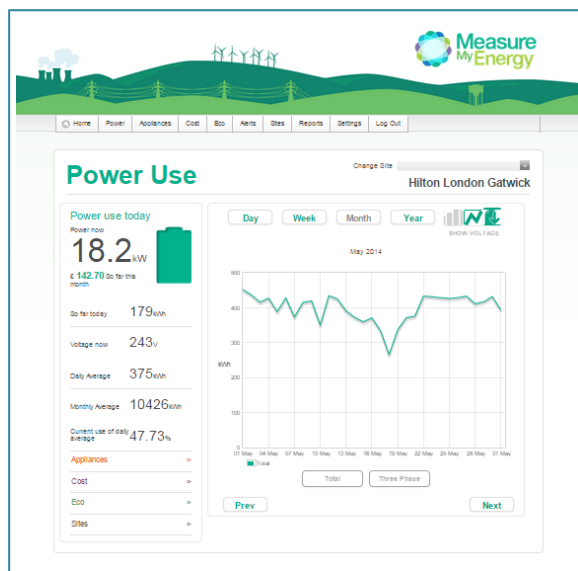
Hilton London Gatwick approached energy consultancy GCI Ltd to assist them in reducing the energy consumption at their hotel. This project would focus on the hotel's main plant facilities – air handling (cooling & heating) for the hotel's various common areas. Before any of this work could be considered, there was a need to fully understand exactly how the energy was currently being used, and if any waste could be eradicated. GCI Ltd created a tailored solution, including the MeasureMyEnergy Global Energy Management (GEM) service.

MeasureMyEnergy supplied five Power Distribution Monitors (PDM) to monitor 54 individual circuits that supply electrical power to the various extractor fans, boiler controls, water pumps that are supplied by the main plant room, as well as the building's two main chillers.

Hilton London Gatwick



Evidenced Reductions



The PDMs collect this data and send it to the MeasureMyEnergy Cloud Platform, where it is processed and then displayed within the GEM Portal.

Here, the information is grouped, allowing the Facilities Management Team to quickly and easily identify patterns or concerns with the electrical power consumption of individual items, such as a hot water pump, or areas, such as the kitchen.

As well as providing valuable data to prove the cost savings achieved by other investments, such as burner management units, the Hilton London Gatwick's Facilities Management Team Members were able to identify important maintenance issues such as broken down extractor fans. They have also been able to reduce the excessive consumption of the hotel's kitchen ovens, highlighted by the MeasureMyEnergy system, by comparing the usage data with their daily demand.

Overall, the project has seen Hilton London Gatwick reduce energy consumption in these areas by over 27%.

“Working on the advice of GCI, fitting specific equipment to our boilers, plant equipment and refrigeration equipment has significantly reduced the amount of energy consumed at the hotel, using MeasureMyEnergy which they recommended, has not only helped to prove the savings we were aiming to achieve, but has highlighted other areas of potential savings.

Using the system has identified areas where the BMS was not working as it should and highlighted where plant equipment was beginning to fail. This meant that maintenance costs were reduced as a direct result of using the system. I believe it is a great asset to reducing energy in the hotel and would thoroughly endorse its use in any commercial property.”

Elliott Porter - Chief Engineer London Hilton Gatwick Airport