



## Case Study for Burner Management Units at London Hilton Gatwick Airport Hotel



GCI Limited



The Green Consultancy Inc. Limited (GCI) were engaged by Hilton to advise on how they could reduce the energy consumption at the London Hilton Gatwick Airport hotel.

One of the recommendations was to install Burner Management Units (BMU) to the hotel boilers.



This technology is designed to alter the firing pattern of the boilers to improve their energy efficiency without impairing the performance of the boilers.

The BMU's used are the only BMU's in the UK which are certified by the Buildings Research Establishment (BRE). The BRE conclusion after testing the units state that the BMU's will save a minimum of 16% of gas consumption of standard atmospheric boilers.

This is effectively a guarantee of the performance of the units.

The BMU's also have the ability to monitor their own performance and send information regarding the savings being made back to a designated Laptop or PC.

**9 BMU's were installed on the boilers at the hotel for a total cost of £16,200.**

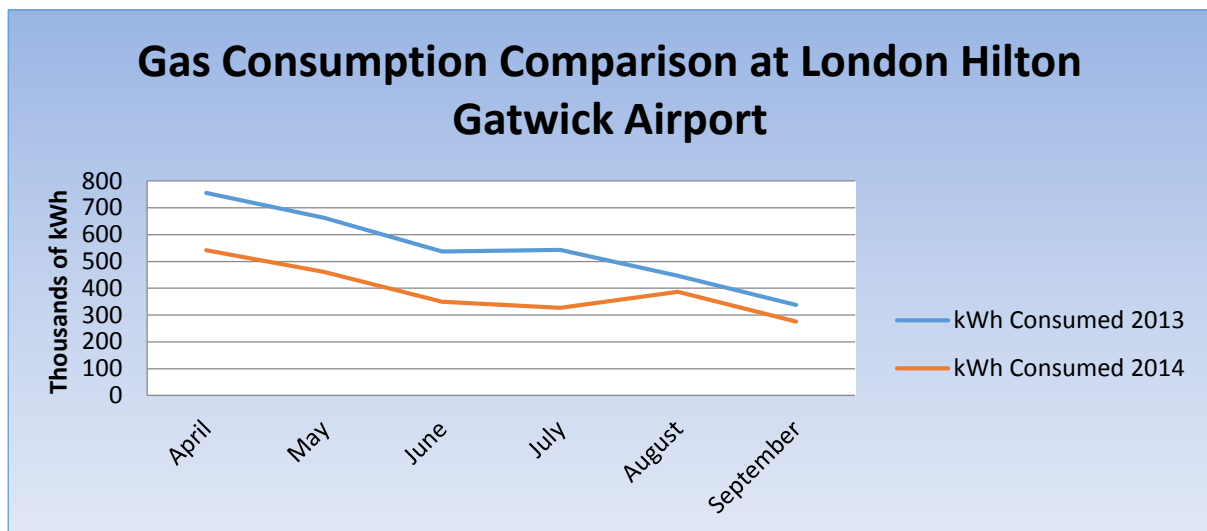
**The estimated return on investment for the hotel was a very impressive 3.8 months!**



**Below are the savings made on gas consumption over the 6 months period of April 2014, to September 2014 in comparison to the same months in 2013.**

April	28.21%
May	30.36%
June	35.01%
July	39.78%
August	13.23%
September	18.34%

**The actual return on investment was only 6 weeks!**



Elliott Porter, the Chief Engineer of London Hilton Gatwick Airport said this about the Burner Management Units Installed.

*“Working on the advice of GCI, we installed the BMU’s to our boilers. As we use a huge amount of gas at the hotel and monitor consumption daily, we could see the immediate effect their installation had made.*

*They are by far the most impressive piece of energy saving equipment I have seen, and the savings which they have made are nothing short of amazing. Hilton Head office even asked us to double check our monthly gas meter readings we submitted as they didn’t believe we could have made such a reduction. They are now convinced!*

*I wouldn’t hesitate to recommend the installation of these BMU’s on any commercial boiler which they are suitable for.”*