

Case Study for Burner Management Units at The Westbury Mayfair Hotel



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The Green Consultancy Inc. Limited were engaged by the Chief Engineer at The Westbury Mayfair Nik Kastrati, to advise on how they could reduce the gas consumption at the hotel.

The recommendation of Mark Buckland at GCI was to install Burner Management Units (BMU) to their boilers.



This technology is designed to alter the firing pattern of the boiler 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 Building Research Establishment (BRE).

The BRE conclusion after testing the units over several months, the BMU demonstrated savings on a test rig to in excess of 16% of gas consumption at low loads and high economy savings factors.

The actual savings are dependent on the nature of the load, the size of the system, heat emitters and boiler in relation to the load, the type of system that the boiler is serving and the type of boiler the BMU is fitted.

The Westbury Mayfair Hotel

Being sceptical of a technology which claims to offer such great savings, Nik was cautious as to the perceived savings the units would make.

With the units having the ability to store the savings report which it generates, we advised Nik that we would be able to demonstrate savings without the need for degree day and regression analysis.

Three months after installation, Nik had advised us that he had seen a noticeable reduction in their month gas bills, and was keen to see exactly how much the units had actually saved.

From the downloads we carried out, we were able to see that the units had saved between 16.7% and 39% across the seven boilers the units were installed on.

Due to the different loads for each boilers the financial saving since installation was 18.9%

Nik, said this about the Burner Management Units installed.

“Mark from Green Consultancy Inc. Limited contacted me to discuss reducing our gas consumption. As I get so many calls from people advising me that they will help me save thousands of pounds I was somewhat sceptical.

However, because the units had a BRE certification, I was somewhat reassured as I am aware of their rigorous testing facilities.

The results from the downloads and in our gas bills are better than I had hoped and would recommend these units to anyone thinking of installing them as they are relatively inexpensive and have a short ROI.

I have subsequently recommended Mark to other chief engineers I know at other hotels in London.