

Case Study for Burner Management Units at Arora Hotel Manchester



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The Green Consultancy Inc. Limited were engaged by the Chief Engineer at Arora hotel Manchester, Peter Angerman 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 a number of 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.

An impressive feature of the BMU's is its ability to monitor it's own performance. This information can then be accessed on line using a PC, laptop, tablet or smart phone.

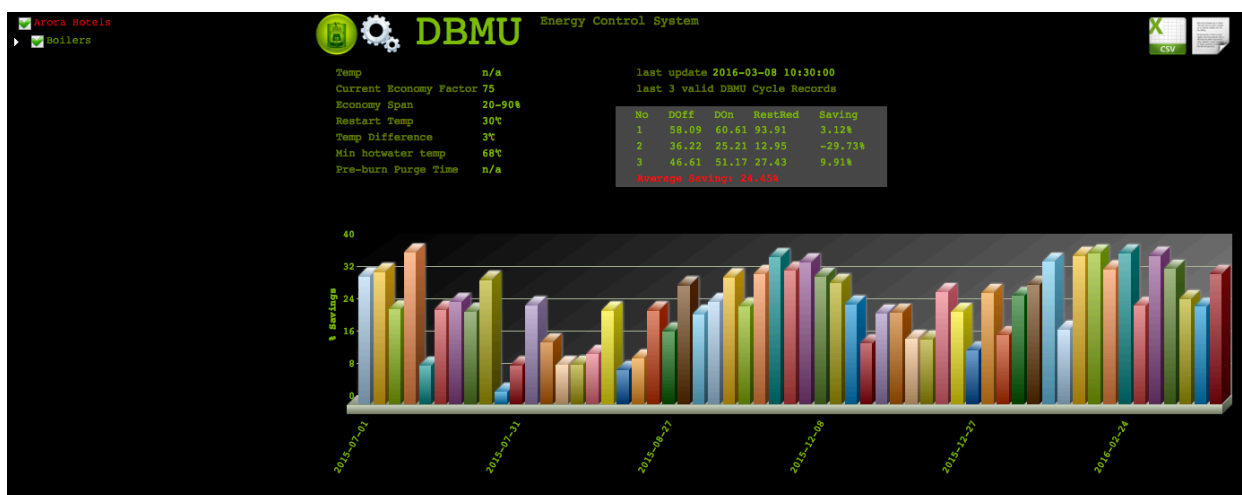
Arora Hotel Manchester

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

Fortunately, the units are fitted with wireless monitoring which generates a real time savings report of how much gas the units are savings.

The cost of the installation of the 4 BMU's totalled £7,600, and had an estimated return on investment of only 5.23 months!

Below is a recent screen print of the monitoring on the units with the savings the have made to date.



As you can see, the savings the units have made in the seven months since their installation is an excellent 24.45%.

This means the actual return on investment is only 3.4 months!

Peter, said this about the Burner Management Units installed.

"Mark from Green Consultancy Inc. Limited contacted me to discuss possible gas saving. I was a bit sceptical at the beginning thinking surely it cannot be that simple. After careful consideration I decided to give it a go. The Installation was smooth and completed by a professional engineer. Few days later I was able to access a user friendly portal to check the average saving.

This is a product I would definitely recommend."