

# SERVIER SAVE WITH M2G

GEM-Utilities Ltd

Jan 2016



GEM's M2G Advanced Boiler Control (ABC) system delivers savings ranging 8% - 22%, in addition to current Building Management Systems (BMS). Paybacks are normally under 12 months.

With no maintenance requirements and a 5-year product warranty, M2G is proving a valuable business addition. M2G is easily transferrable to replacement boilers as part of asset lifecycle plans. Project savings are analysed by GEM to the industry standard IPMVP and externally audited to satisfy all the stakeholders involved.

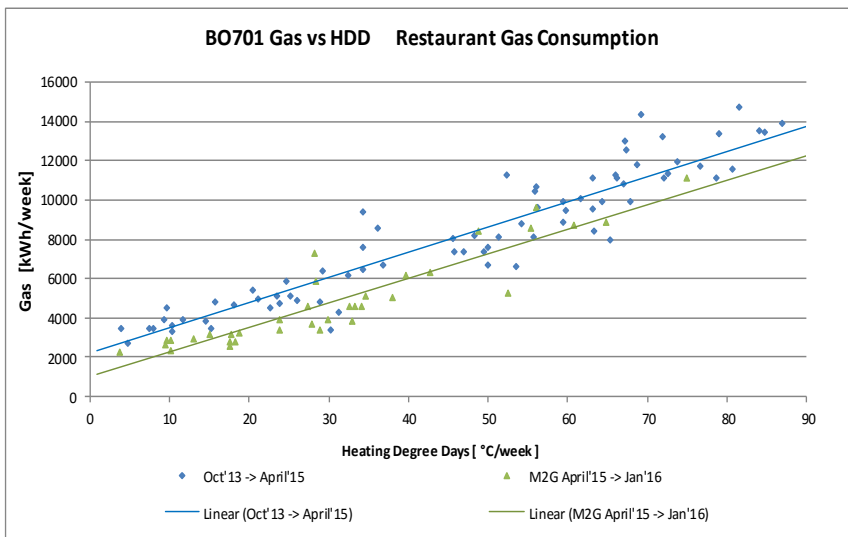


*"We continue to see impressive savings on the Restaurant boiler since May 2015 setup ..."*

*Elton Fortune  
Project Engineer Servier*

**M2G is designed to eliminate all Boiler Nuisance Activity created at low load conditions.**

- 1. Dry Cycling:** Boilers fire up to replace localised predictable heat which is lost during the boiler rest cycle.
- 2. Short Cycling:** The minimum turndown output from the boiler/ burner configuration is higher than the load which appears and the boiler short cycles.
- 3. Short Circuiting:** The lag boiler is electrically but not hydraulically isolated by the BMS and a parasitic load appears on the lead boiler due to dilution losses.



**Servier Case Study:** Weekly HDD regression analysis showing before and after M2G performance to IPMVP. Savings are estimated at 17% annualised. These were un-tapped energy savings which led to a repeat order from Servier for M2G for other buildings on site.

## Applications

M2G is suitable for Low-Medium temperature hot water boilers **up to 125 °C including** Atmospheric, Forced Draught, Single-Stage, 2-Stage, Modulating Boilers, Modulating Burners, Condensing Boilers and Oil Fired Pressure Jet Burners. M2G is suitable for Natural Gas, Oil and LPG.

**No steam application.**

GEM Clients Include ...



**Contact:**

[www.gem.ie](http://www.gem.ie)

[info@gem.ie](mailto:info@gem.ie)