



**P1 / 10% savings guarantee**



**P2 / No maintenance, 5-year product warranty**



**P3 / Boiler size unlimited, no down time during installation**



**P4 / Payback normally between 4—10 months**

# M2G Boiler Control



## M2G Case Study....Maldron Hotel Tallaght Dublin

### More information available

W: [www.gem.ie](http://www.gem.ie)  
T: 1890 882 888  
E: [info@gem.ie](mailto:info@gem.ie)  
M: 087 7974359



Gem Utilities  
GEM UTILITIES

*“This new technology will enable savings in commercial heating systems that we previously thought were not possible”*





### The Maldron Hotel Tallaght.

A modern and stylish hotel in the heart of South Dublin, the Maldron Hotel in Tallaght, is a 119 guest bedroom hotel furnished and designed to modern standards and comfort.

Many bedrooms feature wall to ceiling glass windows or balconies with panoramic views of the Dublin Mountains. The Maldron Hotel Tallaght doors open onto Tallaght Business Park, The Square Shopping Center & Tallaght Hospital.

A fully integrated BMS controls the HVAC and boiler plant. The heating plant consists of #2 high efficiency condensing modulating Rendamax boilers which service the Hotel heating, the domestic hot water (DHW) and Hotel Leisure Centre.

2 x M2G load controls were installed to the boilers in Jan 2012

## Maldron Hotel Tallaght M2G 6 Months Performance Post Installation with Weather Correction

	Gas Paid	KWh	Hotel Occu-	Club		Monthly kWh/HDDkWh/HDD			
	€		pancy	Members	Rooms	HDD	kWh/HDD	Diff	%Diff
<b>2011</b>									
Jan	9447	258965	56%	1389	2073	360	719.35		
Feb	7556	206605	63%	1431	2109	233	886.72		
March	8199	209515	77%	1527	2855	290	722.47		
April	5826	141796	73%	1497	2588	152	932.87		
May	5469	120660	75%	1479	2763	132	914.09		
June	5355	122231	71%	1524	2535	108	1131.77		
<b>2012</b>									
Jan	7462	211252	54%	1809	2007	300	704.17	-15	-2.11%
Feb	6878	187919	71%	1803	2445	281	668.75	-218	-24.58%
March	6194	161568	76%	1760	2794	253	638.61	-84	-11.61%
April	6559	159370	69%	1759	2458	224	711.47	-221	-23.73%
May	6242	138217	79%	1697	2925	264	523.55	-391	-42.72%
June	5265	108667	83%	1612	3164	171	635.48	-496	-43.85%
2011	41852	1,059,772	69%	1475	2487		831.19		
2012	38599	966,993	72%	1740	2632		647.68		
Diff	-7.77%	-9%	3%	18.01%	5.83%		-22%		

### Summary

Saving @ 22% based on current costs

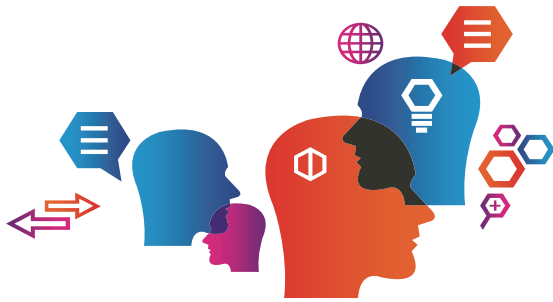
€8,492 6 Months Savings

€1,415 Avg. Monthly Saving

Payback 3 Months

M2G

€4,500

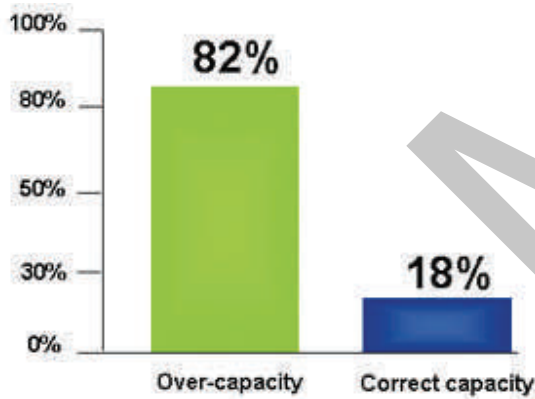


The money for the M2G boiler load control is already in your budget..... Currently you are paying it over to your gas or oil supplier because of over-consumption on your boilers

## Why is M2G required?

### The inherent problem

1. All boilers, no matter how modern, waste heat as a consequence of standing losses, i.e. they fire up to replace their own heat loss.
2. When installed, over 80% of commercial boilers have over capacity for their application i.e. the boiler's maximum thermal output is rarely utilized.
3. Over capacity creates "nuisance cycling" i.e. boilers firing unnecessarily to recover boiler heat loss without contributing to "true" building load.
4. This results in wasteful energy consumption and CO2 emissions which can be eliminated by M2G boiler optimization.



Source: European Energy Institute

## Advance Innovation while controlling costs



### M2G ... the Headlines

- Immediate savings
- No plumbing required
- Savings guaranteed of 10%
- No maintenance
- 5-year product warranty
- Average savings of 20%
- #1 selling boiler load control in Ireland
- Suitable for all boiler types
- Suitable for all heating systems
- Fast return on investment (ROI)
- Suitable for Gas/Oil/LPG
- Significantly reduced Co2 Tax

### What our clients say .....

*'Our first quarter savings showed savings of 36%' Sean Lally Clarion Hotels Limerick*

*'M2G has contributed 20% reduction in oil cost'. Eoin o Mahony Manager Mallow LC*

*'We can confirm a 20% reduction in our Hotel LPG bill' Conor O Toole, GM, Blarney Golf Resort*

*'M2G is making a large impact on the college utility bills' Eamon Comerford RSCI*

*'The actual savings produced was between 15% - 30%' Technical Director Calor Gas NI*

*'We have been very impressed with the M2G units... they have lived up to all expectation' Paul Eggleton, Energy Manager O2.*

**GEM clients include...** Bank of Ireland, Dunnes Stores, Tesco, DELL, Microsoft, RTE, Department of Defence, National Maternity Hospital, Eircom, Ulster Bank, O2, Superquinn, NUI Maynooth, Dublin City Council, Stryker Howmedica, Merit Medical, Irish Prison Service.