

Viessmann Case Study



12 Helene St. North
Mississauga, ON

Waterloo, Ontario
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Boiler Room Retrofit Incorporating Viessmann High-Efficiency Heating Equipment

1 Installation Details

- Vitorond 200, VD2 triple-pass cast iron boilers
- Weishaupt modulation gas burners
- Dekamatik digital boiler controls
- Multimatik custom control panel
- Vitocell-H 300 Stainless steel DHW storage tanks
- Vitosol 300 Vacuum tube solar collectors

The system was commissioned in November 2003.



2 Results

Year	Gas Usage m ³	Difference m ³	% Change	Heating Degree Days	Difference Degree days
2002	215,603			3630	
2003	209,694	-5,909	-2.7%	3551	-79
2004	160,738	-48,956	-23.3%	3798	247
2002 vs 2004		-54,865	-25.4%		168
Degree day corrected			-26.6%		

There is a **26.6% reduction in fuel consumption** when the years 2002 and 2004 are compared and corrected for the difference in heating degree days. These years represent the year prior to the retrofit and the first full year after the retrofit. Since the commissioning of the solar system at this site, a total of 156,963,000 Btu's of solar energy have been collected (as of January 9, 2006).

