

56 Main St.
Markham, ON

Waterloo, Ontario
January 2006

Boiler Room Retrofit Incorporating Viessmann High-Efficiency Heating Equipment

1 Installation Details

- Vitogas 100, GS10 cast iron boilers
- 2-stage Low NOx gas burners
- Vitotronic 100 boiler controls
- Vitocell-H 300 Stainless steel DHW storage tanks
- Vitosol 300 Vacuum tube solar collectors
- Solartrol control system

The system was commissioned in October 2003.



2 Results

Year	Gas Usage m ³	Difference m ³	% Change
2002	16,534		
2003	16,486	-48	-0.3%
2004	12,708	-3,778	-22.9%
2002 vs 2004		-3,826	-23.1%

There is a **23.1% reduction in fuel consumption** when the years 2002 and 2004 are compared. 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 214,541,000 Btu's of solar energy have been collected (as of January 9, 2006).

