

Energy Performance Case Study



Greenwood Commons, Vancouver, BC

56%

Gas Savings

51%

Hot Water Savings



98 tons/yr

GHG Savings

3.7 yrs

Payback Period

Building Information

Type: Multi-unit residential strata
Units: 126
Year Built: 2006
Energy Installation Completed: 2007
Building Developer: UBC Properties Trust

Mechanical Systems:

- 2 gas fired boilers
- heated make up air unit
- in-suite electric base board heaters
- geothermal heat exchange

Energy Management Systems Installed

- Controls on the domestic hot water boilers
- Controls on the makeup air unit for hallway fresh air
- In-suite metering for domestic hot water
- Optimization of the geothermal system



Installation Cost: \$121,000
 Annual Savings: \$32,368²
 Payback Period: 3.7

years

Energy Savings	Natural gas Use per year	Hot water Use per year
Before EMS	3,528GJ	12.14 million L ¹
After EMS	1,562GJ	5.93 million L
Total savings	1,966 GJ (56%)	6.2 million L (51%)

¹Baseline water use based on national average of 330 litres per person per day

²Savings based on \$9.5/GJ avg.

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