

Energy Performance Case Study



District Main, Vancouver, BC

50%

Gas Savings

59%

Hot Water Savings



64 tons/yr

GHG Savings

4.2 yrs

Payback Period

Building Information

Type: Mixed use residential strata
Units: 51
Year Built: 2007
Energy Installation Completed: 2007
Building Developer: Kevington Bldg Corp.

Mechanical Systems:

- 2 gas fired boilers
- 1 heated make up air unit
- Electric baseboards
- Waste heat recovery system

Integrated Energy Management System

- Intelligent controls on the heating and cooling systems
- Controls on the makeup air unit for hallway fresh air
- In-suite metering for domestic hot and cold water
- Waste heat recovery system completed during phase 2

Energy Savings	Natural gas Use per year	Hot water Use per year
Baseline	2,268 GJ	10.24 million L ¹
After EMS	1,229 GJ	4.21 million L
Total savings	1,139 GJ (50%)	6.0 million L (59%)



Installation Cost: \$78,700
 Annual Savings: \$18,800²
 Payback Period: 4.2 years

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

²Savings based on \$9.85/GJ avg. last 3 years

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