

EndoTherm[®]

CASE STUDY: Point Grey Golf & Country Club
Vancouver BC, Canada



The performance of EndoTherm was piloted by Point Grey Golf & Country Club in Point Grey, Vancouver, Canada.

Installation took place at the club house which is a multi-use facility including a restaurant, fitness club and wedding/conference venue. Heat to the 30,000 sq ft. building is provided by a 1.825 MBTU boiler. EndoTherm was installed in early April 2017.

Due to the availability of comparison data it was decided to run a direct comparison of the six months post EndoTherm install data (April-October 2017) with the corresponding data from the same period in 2016.

RESULTS

Period	2016		2017	
	Usage (GJ)	Heating Degree Days (HDD)	Usage (GJ)	Heating Degree Days (HDD)
Sept – Oct	497.10	214	382.3	231.4
Aug – Sep	264.90	96.7	273.2	61.4
Jul – Aug	325.40	32.1	295	34.2
Jun – Jul	382.60	54.2	291.5	39.1
May – Jun	292.90	104.2	281.8	108.8
Apr – May	304.30	156.2	394.4	218.9
Total	2067.20	657.40	1918.20	693.80

The usage in 2017 was lower than the same period in 2016 despite the HDD being higher (higher HDD data equals colder average temperature). Compensating for this difference in temperature the saving was 12.1%.

Based on a unit price of \$8.50 (CAD) per GJ, a total of \$2239.40 (CAD) was saved, delivering ROI within the six month pilot. A reduction in gas consumption is also directly correlated to a reduction in carbon emissions. A single Gigajoule (GJ) is equivalent to 51kg of CO₂ emissions therefore 13,428kg of CO₂ was saved, equivalent to the emissions of a car driving for 32,449 miles.

12.1
%

TOTAL SAVINGS

FINANCIAL SAVING



\$2,239

CO₂ SAVING

13,428 kg

KEY INFORMATION

Installed: April 2017
Trial period: 6 Months

Boiler spec
1.825 MBTU Boiler