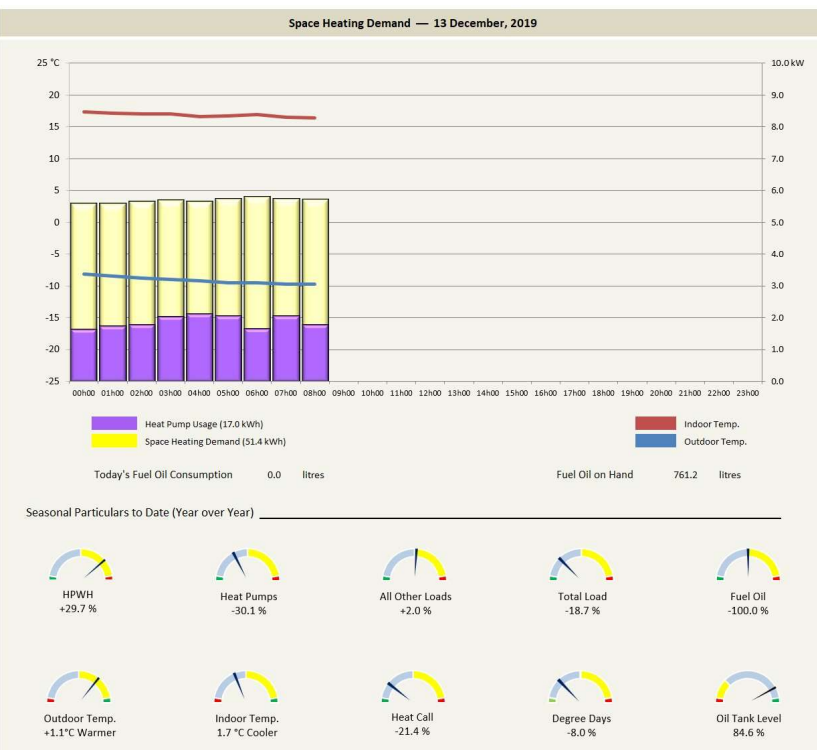


2019 - 2020 Heating Season		2018 - 2019 Heating Season		2017 - 2018 Heating Season	
Average Daily Temperature (01 October — 13 December)	5.8 °C	Average Daily Temperature (01 October — 31 May)	2.2 °C	Average Daily Temperature (01 October — 31 May)	4.2 °C
Maximum	19.0 °C	Maximum	22.1 °C	Maximum	28.4 °C
Minimum	-9.7 °C	Minimum	-15.7 °C	Minimum	-15.3 °C
Total Space Heating Demand (01 October — 13 December)	3,948.3 kWh	Total Space Heating Demand (01 October — 31 May)	20,404.6 kWh	Total Space Heating Demand (01 October — 31 May)	19,235.7 kWh
Daily Maximum	119.3 kWh	Daily Maximum	160.4 kWh	Daily Maximum	169.3 kWh
Daily Minimum	0.0 kWh	Daily Minimum	0.0 kWh	Daily Minimum	0.0 kWh
Heating Degree Days (Base 18°C)	903.5 °C	Heating Degree Days (Base 18°C)	3,843.2 °C	Heating Degree Days (Base 18°C)	3,358.0 °C
Temperature Above 15°C	71 hours	Temperature Above 15°C	169 hours	Temperature Above 15°C	530 hours
Between 10°C and 15°C	408 hours	Between 10°C and 15°C	679 hours	Between 10°C and 15°C	786 hours
Between 5°C and 10°C	502 hours	Between 5°C and 10°C	1,320 hours	Between 5°C and 10°C	1,149 hours
Between 0°C and 5°C	465 hours	Between 0°C and 5°C	1,514 hours	Between 0°C and 5°C	1,821 hours
Between -5°C and 0°C	261 hours	Between -5°C and 0°C	1,084 hours	Between -5°C and 0°C	932 hours
Between -10°C and -5°C	54 hours	Between -10°C and -5°C	837 hours	Between -10°C and -5°C	413 hours
Between -15°C and -10°C	0 hours	Between -15°C and -10°C	226 hours	Between -15°C and -10°C	199 hours
Hours Below -15°C	0 hours	Hours Below -15°C	3 hours	Hours Below -15°C	2 hours
Average Daily Consumption (01 October — 13 December)	20.2 kWh	Average Daily Consumption (01 October — 31 May)	32.2 kWh	Average Daily Consumption (01 October — 31 May)	29.2 kWh
Heat Pump Water Heater	2.0 kWh	Heat Pump Water Heater	1.3 kWh	Heat Pump Water Heater	1.3 kWh
Upper Heat Pump	7.0 kWh	Upper Heat Pump	13.1 kWh	Upper Heat Pump	11.1 kWh
Lower Heat Pump	5.1 kWh	Lower Heat Pump	11.4 kWh	Lower Heat Pump	10.1 kWh
Combined Heat Pumps	12.1 kWh	Combined Heat Pumps	24.4 kWh	Combined Heat Pumps	21.2 kWh
All Other Loads	6.2 kWh	All Other Loads	6.5 kWh	All Other Loads	6.8 kWh
Fuel Oil Use	0.0 litres	Fuel Oil Use	0.8 litres	Fuel Oil Use	0.8 litres
Total Household Consumption (74 days)	1,493.3 kWh	Total Household Consumption (243 days)	7,820.7 kWh	Total Household Consumption (243 days)	7,099.1 kWh
Heat Pump Water Heater	144.3 kWh	Heat Pump Water Heater	308.4 kWh	Heat Pump Water Heater	304.5 kWh
Upper Heat Pump	520.1 kWh	Upper Heat Pump	3,177.5 kWh	Upper Heat Pump	2,695.2 kWh
Lower Heat Pump	373.8 kWh	Lower Heat Pump	2,760.7 kWh	Lower Heat Pump	2,444.8 kWh
Combined Heat Pumps	893.8 kWh	Combined Heat Pumps	5,938.2 kWh	Combined Heat Pumps	5,140.0 kWh
All Other Loads	455.2 kWh	All Other Loads	1,574.1 kWh	All Other Loads	1,654.5 kWh
Fuel Oil Use	0.0 litres	Fuel Oil Use	195.8 litres	Fuel Oil Use	203.0 litres
Space Heating Costs (2019 - 2020)		Space Heating Costs (2018 - 2019)		Space Heating Costs (2017 - 2018)	
Heat Pumps (893.8 kWh at \$0.15603/kWh)	\$ 139.46	Heat Pumps (5,938.2 kWh at \$0.15603/kWh)	\$ 926.53	Heat Pumps (5,140.0 kWh at \$0.15331/kWh)	\$ 788.02
Fuel Oil (0.0 litres at \$0.879/litre)	\$ -	Fuel Oil (195.8 litres at \$0.879/litre)	\$ 172.12	Fuel Oil (203.0 litres at \$0.689/litre)	\$ 139.88
Combined Operating Cost	\$ 139.46	Combined Operating Cost	\$ 1,098.65	Combined Operating Cost	\$ 927.90

Seasonal Energy Use (01 October — 13 December)	
Heat Pump Water Heater	144.3 kWh
2018 - 2019	111.3 kWh
2017 - 2018	100.8 kWh
Upper Level Heat Pump	520.1 kWh
2018 - 2019	734.4 kWh
2017 - 2018	591.9 kWh
Lower Level Heat Pump	373.8 kWh
2018 - 2019	544.8 kWh
2017 - 2018	383.3 kWh
Combined Heat Pump	893.8 kWh
2018 - 2019	1,279.2 kWh
2017 - 2018	975.2 kWh
Miscellaneous Loads	455.2 kWh
2018 - 2019	446.3 kWh
2017 - 2018	496.8 kWh
Total Load	1,493.3 kWh
2018 - 2019	1,836.8 kWh
2017 - 2018	1,572.7 kWh
Fuel Oil Consumption	0.0 litres
2018 - 2019	29.7 litres
2017 - 2018	0.0 litres
Space Heating Demand	3,948.3 kWh
2018 - 2019	5,020.9 kWh
2017 - 2018	4,272.0 kWh
Average Outdoor Temperature	5.8 °C
2018 - 2019	4.7 °C
2017 - 2018	8.0 °C
Average Indoor Temperature	16.0 °C
2018 - 2019	17.7 °C
2017 - 2018	19.5 °C



16 — 17	Average Temp °C	Low °C	High °C	Hours < -15°C	Space Heating Demand (kWh)			Heat Pumps (kWh)		Energy Consumption (kWh)			Total Load
					Daily Min.	Daily Max.	Total	Main Floor	Lower Level	Heat Pumps	DHW	Misc.	
October	10.5	-0.4	21.4	0	0	66	819	0	40	40	50	239	329
November	5.6	-1.5	13.2	0	16	79	1,641	183	136	320	44	233	597
December	-1.3	-15.7	10.2	9	51	181	3,077	590	290	860	46	277	1,203
January	-1.3	-18.0	8.6	12	52	174	3,075	690	296	987	44	240	1,271
February	-2.2	-15.5	9.0	2	56	161	2,944	543	556	1,099	32	240	1,371
March	-1.6	-16.8	9.4	12	54	169	3,129	589	653	1,242	43	264	1,548
April	6.4	-4.5	20.4	0	8	87	1,501	226	231	457	50	209	716
May	11.4	2.6	31.4	0	2	55	736	45	107	151	53	205	409
Avg. / Min. / Max.	3.4	-18.0	31.4	35	0	181	16,923	2,866	2,309	5,175	362	1,907	7,444

17 — 18	Average Temp °C	Low °C	High °C	Hours < -15°C	Space Heating Demand (kWh)			Heat Pumps (kWh)		Energy Consumption (kWh)			Total Load
					Daily Min.	Daily Max.	Total	Main Floor	Lower Level	Heat Pumps	DHW	Misc.	
October	12.4	-2.1	22.3	0	0	51	580	103	32	135	44	179	359
November	5.3	-5.6	19.2	0	0	108	1,730	337	227	564	40	231	835
December	-0.9	-13.7	12.0	0	31	171	2,985	555	481	1,036	35	228	1,299
January	-2.7	-15.3	13.9	2	13	175	3,361	695	568	1,263	37	279	1,579
February	0.3	-13.2	10.2	0	50	164	2,493	327	289	616	27	205	848
March	1.5	-9.0	11.5	0	53	123	2,512	403	494	897	35	222	1,154
April	5.2	-6.0	17.8	0	11	98	1,739	259	236	557	39	207	803
May	12.2	2.4	28.4	0	6	43	624	17	54	71	48	189	308
Avg. / Min. / Max.	4.2	-15.3	28.4	2	0	175	16,024	2,695	2,444	5,139	305	1,740	7,185

18 — 19	Average Temp °C	Low °C	High °C	Hours < -15°C	Space Heating Demand (kWh)			Heat Pumps (kWh)		Energy Consumption (kWh)			Total Load
					Daily Min.	Daily Max.	Total	Main Floor	Lower Level	Heat Pumps	DHW	Misc.	
October	9.2	-2.6	18.9	0	0	78	1,163	115	92	207	45	192	444
November	3.4	-10.1	18.3	0	6	137	2,278	386	268	654	46	184	884
December	-2.4	-12.2	13.1	0	53	144	3,518	633	450	1,083	44	169	1,296
January	-3.0	-14.4	10.4	0	74	157	3,693	696	440	1,137	23	169	1,328
February	-4.5	-15.1	6.7	1	85	160	3,484	704	513	1,218	27	151	1,396
March	-0.4	-15.7	13.6	2	67	156	3,247	563	457	1,020	32	176	1,228
April	5.6	-3.2	17.4	0	22	93	1,702	79	320	399	41	287	727
May	9.1	0.2	22.1	0	24	58	1,221	0	220	220	50	247	517
Avg. / Min. / Max.	2.1	-15.7	22.1	3	0	160	20,405	3,177	2,761	5,938	308	1,574	7,821

19 — 20	Average Temp °C	Low °C	High °C	Hours < -15°C	Space Heating Demand (kWh)			Heat Pumps (kWh)		Energy Consumption (kWh)			Total Load
					Daily Min.	Daily Max.	Total	Main Floor	Lower Level	Heat Pumps	DHW	Misc.	
October	9.8	0.0	19.0	0	1	55	731	21	37	58	58	248	365
November	4.0	-6.2	18.9	0	9	111	2,060	296	214	510	60	147	717
December	0.1	-9.7	12.2	0	0	119	1,157	203	123	326	26	60	412
January	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg. / Min. / Max.	4.6	-9.7	19.0	0	0	119	3,948	520	374	894	144	455	1,493