



Facility information			
Burlington Seniors' Centre			
Facility type	Commercial/Institut	Address	2285 New St
Type	Public building	City/Municipality	Burlington
Description	Rec Centers & Pools	Province/State	ON
Facility size	16,523 ft²	Country	CA

Facility Targets for 2020

Target Electricity Reduction **10%** from 2019

Target Natural Gas Reduction **3%** from 2019

Resulting Carbon Reduction **3.7**  
% from 2019

Progression to Targets

Current electricity reduction to date is **5.3%** from 2019

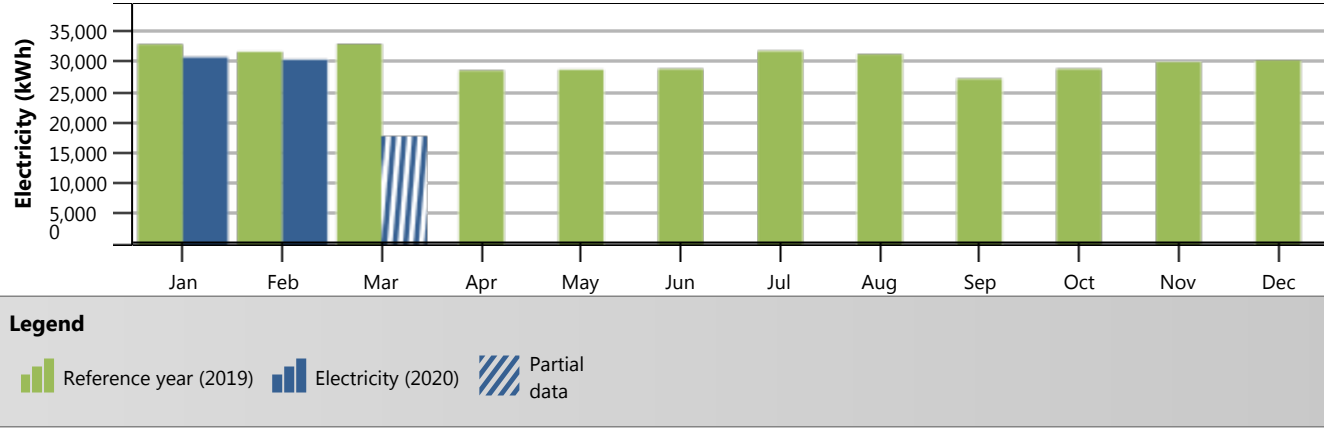
Current natural gas reduction to date is **10.6%** from 2019

Resulting in a **10.4%** reduction in GHG emissions from the facility from 2019 levels

Total Energy Use YTD (Natural Gas and Electricity)

	Fuel consumption	Fuel cost	GHG emission
	kWh	\$	tCO <sub>2</sub>
Reference period - 2019	871,762	78,157	107
Actual - 2020	357,093	19,756	54.9
Savings	514,670	58,401	51.8
%	59%	74.7%	48.5%

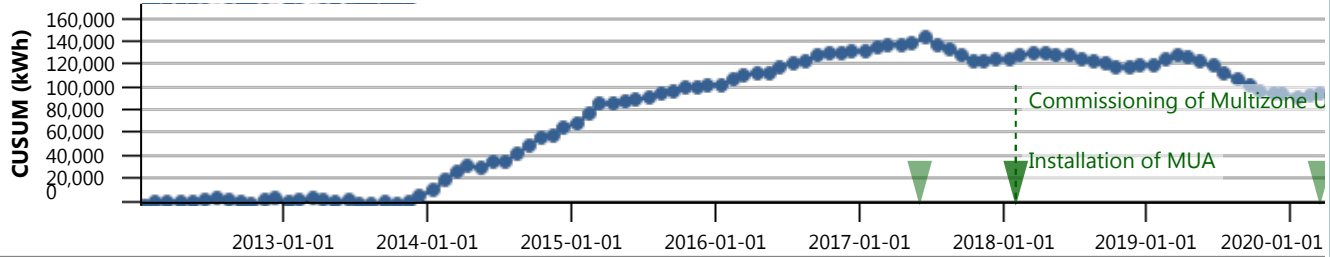
Performance - Electricity Consumption (2019 vs 2020 YTD)



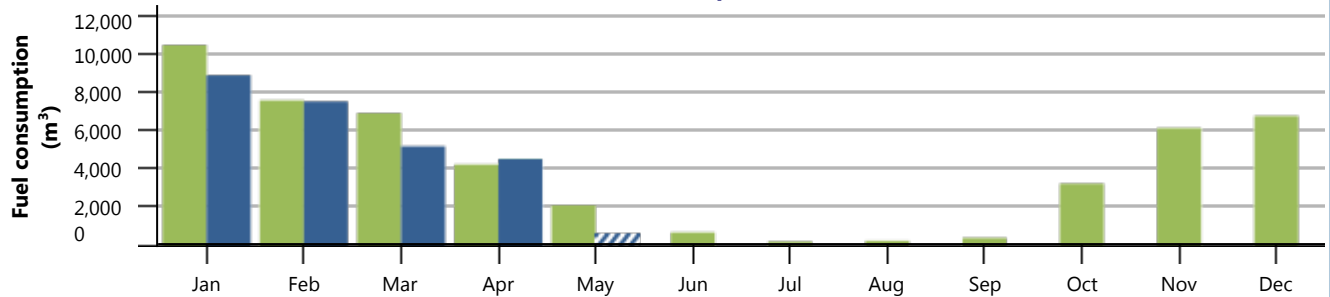
Performance - Electricity Consumption (2019 vs 2020 YTD)

	2019-2020	2020-2021		
	Reference year kWh	Electricity kWh	Difference kWh	Difference %
Jan	32,847	32,847	2,135	6.5%
Feb	31,610	31,610	1,287	4.1%
Mar	32,899	32,899	15,453	47%
Apr	28,539	28,539		
May	28,665	28,665		
Jun	28,805	28,805		
Jul	31,748	31,748		
Aug	31,215	31,215		
Sep	27,186	27,186		
Oct	28,809	28,809		
Nov	29,925	29,925		
Dec	30,240	30,240		
Total	362,487	362,487	18,875	19.4%

## Performance - Electricity - HDD - CDD - CUSUM



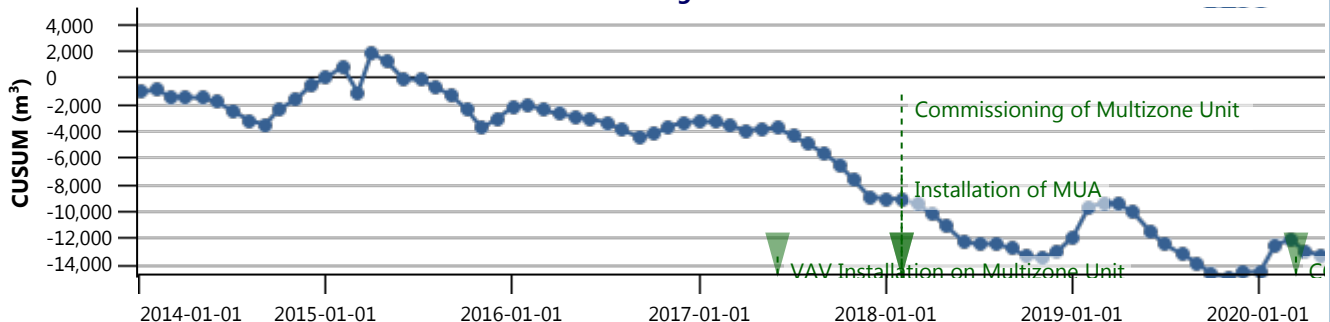
## Performance - Natural Gas Consumption (2019 vs 2020 YTD)



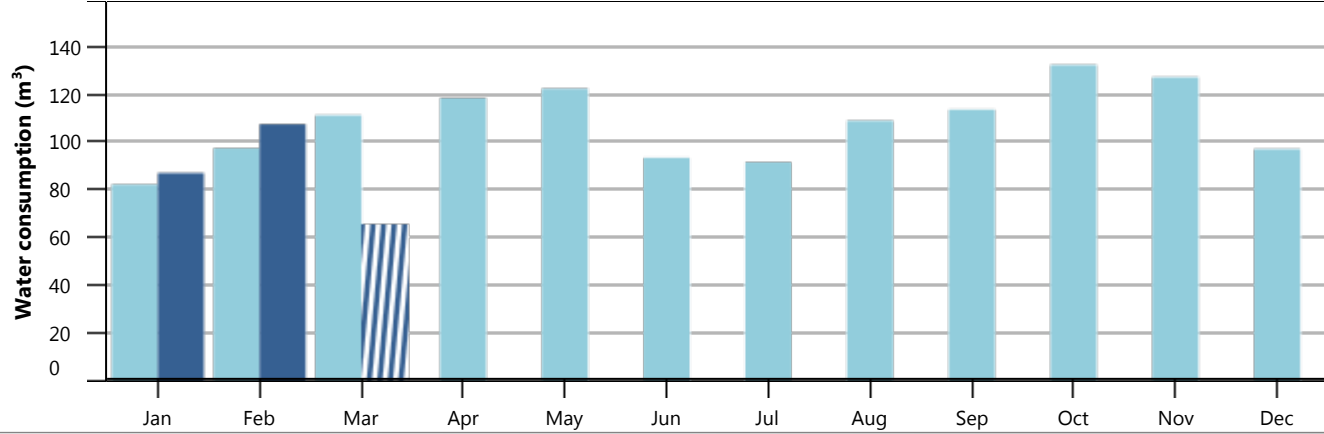
## Performance - Natural Gas Consumption (2019 vs 2020 YTD)

	2019-2020	2020-2021		
	Reference year m³	Fuel consumption m³	Difference m³	Difference %
Jan	10,500	10,500	1,583	15.1%
Feb	7,591	7,591	52.5	0.69%
Mar	6,926	6,926	1,744	25.2%
Apr	4,223	4,223	-293	-6.9%
May	2,094	2,094	1,493	71.3%
Jun	658	658		
Jul	180	180		
Aug	218	218		
Sep	373	373		
Oct	3,225	3,225		
Nov	6,140	6,140		
Dec	6,777	6,777		
Total	48,905	48,905	4,579	14.6%

## Performance - Natural gas - HDD - CUSUM



Performance - Water - Monthly bar graph



Legend



Performance - Water - Monthly bar graph

	2019-2020	2020-2021		
	Reference year	Water consumption	Difference	Difference
	m³	m³	m³	%
Jan	82.1	82.1	-4.8	-5.9%
Feb	97.4	97.4	-10.1	-10.4%
Mar	111	111	46.1	41.5%
Apr	118	118		
May	122	122		
Jun	93.3	93.3		
Jul	91.5	91.5		
Aug	109	109		
Sep	114	114		
Oct	132	132		
Nov	127	127		
Dec	97	97		
Total	1,296	1,296	31.2	10.7%

Operations Notes on Water Usage

**January 2020** - The hot water pipe that started leaking in the ceiling by the South entrance in January. By the time we were able to get someone here to repair it, it had burst and the water had to be shut off for a few days. After it was repaired, we had brown water coming out of the taps for about a week so we had to run water allover the building for about 10 minutes each morning till it ran clear. When the problem lasted more than a few days, I had Richardson's come out to assess the cause.

**March 2020** - hot water holding tank was causing some of the brown water from rusty sediment that was stirred up from the pipe leak repair. Our tank had to be drained and flushed and all the lines flushed out as well.

**May 2020** - We also had the roof flooded last week to help find a leak, this also would have used a lot of water and will no doubt reflect on the next report.

**Summer months** - Something else to consider for water usage here at BSC, is the watering of the garden at the South entrance. This garden has a sprinkler system installed that runs from our water supply for the building. This gets turned on by RPF, a couple times per week for an hour or so each time to water the garden and could show a spike in our usage for the Summer. There is also the herb garden at the South end of the building which we also water from our building.