



Corporate Environmental
ACTION PLAN (CEAP)

CORPORATE ENVIRONMENTAL ACTION PLAN (CEAP)

2020 PROGRESS REPORT

AURORA

■ WATER CONSERVATION

Objective W1: Reduce Town owned facility water consumption

Objective W2: Reduce the uncontrolled and inadequately controlled storm water areas with respect to both quality and quantity by following recommendations of the Town's Comprehensive Storm water Management Master Plan



- Town Operations installed 1,150 water meters in 2020 as part of its water loss reduction
- Replaced 167 sanitary laterals as part of its water loss reduction strategy (W1);
- Applied low impact development techniques during construction of the 2020 road reconstruction projects (bio-swales and enhanced oil/grit separator) (S1 and W2).;



■ SUSTAINABLE URBAN DEVELOPMENT

Objective S1: Foster a sustainable green development and alternate methods of transportation to improve the quality of life of Aurora's residents and Town staff

- Enacted the new Site Alteration By-law regulating the quality of fill imported to sites and sediment controls for pollution prevention (S1);
- In an effort to promote sustainable transportation for Town staff, the Town participated and maintained the Annual Smart Commute designation Award, maintaining the Gold Standard every year since 2012 (S1).



■ WASTE REDUCTION & DIVERSION

Objective D1: Implement sustainable construction practices to reduce waste, incorporate sustainable design and reclaim or recycle materials

Objective D2: Reduce waste going to landfill disposal

- Included recycled concrete material as a provisional item as part of 2020 road reconstruction project procurement to encourage sustainable construction and building practices for Town infrastructure (D1);
- Integrated energy efficiency and waste disposal wording and requirements in Facilities' procurement documents (D1);
- As part of the Town's Waste Reduction Strategies, the Town has set 2018 as a base year for tracking Community-level waste diversion rates (D2):
 - 2018: 65%
 - 2019: 65%
 - 2020: 64%;
- Implemented an public education campaign on the 3 waste bag limit, using mobile signs, door knockers, educational material on the Town's Website, in person events, use of the Recycle Coach App, local ads, Town social media (D2);
- Increased the number of multi-residential buildings within the Town's recycling program (D2);



■ BIODIVERSITY & NATURAL HERITAGE

Objective B1: Enrich Aurora's ecology by protecting and preserving biodiversity



- Planted 1,500 trees and shrubs on Aurora lands (B1);
- Added a new adopt-a -park partner that created a butterfly/bee habitat garden to encourage neighbours to grow species in their yards that can sustain bees/butterflies (B1);
- Maintained the partnership with York Region for invasive species control where Phragmites were targeted on regional frontage adjacent to Aurora parkland. Arboretum completed extensive buckthorn removal in park (B1);

■ CLIMATE CHANGE & ENERGY

Objective C1: Prepare a Climate Change Adaptation Plan

Objective C2: Implement the Provincial Climate Change Plan Actions

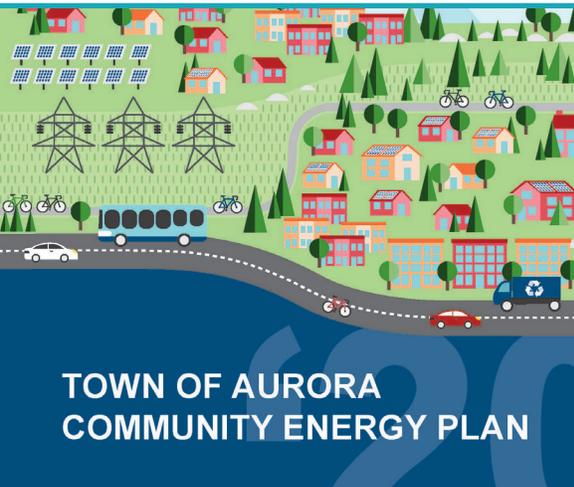
Objective C3: Reduce the town's greenhouse gas emissions by town staff and at town facilities. * Actions pulled from the Provincial Climate Change Plan

- Council approved the Anti-Idling Policy, which aims to limit idling from residents, businesses and Town staff, with a strong focus on public and staff education (C3);
- Council approved the budget for the Climate Change Adaptation Plan, to start in 2021 (C1);
- Continued energy use tracking at Town Facilities (C3):
 - 2018: 23,180,806 equivalent kilowatt-hours
 - 2019: 24,641,678 equivalent kilowatt-hours
 - 2020 19,860,541 equivalent kilowatt-hours;
- Made operational changes at Town facilities to reduce energy consumption during shutdowns due to COVID-19 pandemic; resulting in 16% reduction in greenhouse gas emissions compared to 2018 (C3);
- Generated 703,406 kilowatt-hours of electricity from Town solar rooftop systems (C3);
- Continue monthly Building Performance meetings with Facility staff and Energy and Climate Change Analyst, to discuss ongoing energy projects, operational changes, energy consumption, trends, best practices for energy conservation, new technologies, utility incentives etc (C3);
- Investigated technology to improve energy efficiency at SARC using the Building Automation System innovation (C3);
- Official Plan Review had its kickoff in 2020 and is incorporating recommendations from the Community Energy Plan, updates to the Municipal Act and the Green Development Standard to include climate change considerations (C2).



ENVIRONMENTAL AWARENESS

Objective A1: Encourage the stewardship of Aurora’s natural resources and advance green initiatives by promoting community involvement



- Hosted a public consultation on Community Energy Plan (CEP) occurred in October 2020 where the importance of a CEP was presented, energy inventory, reduction targets and strategies discussed, and public feedback sought (A1).

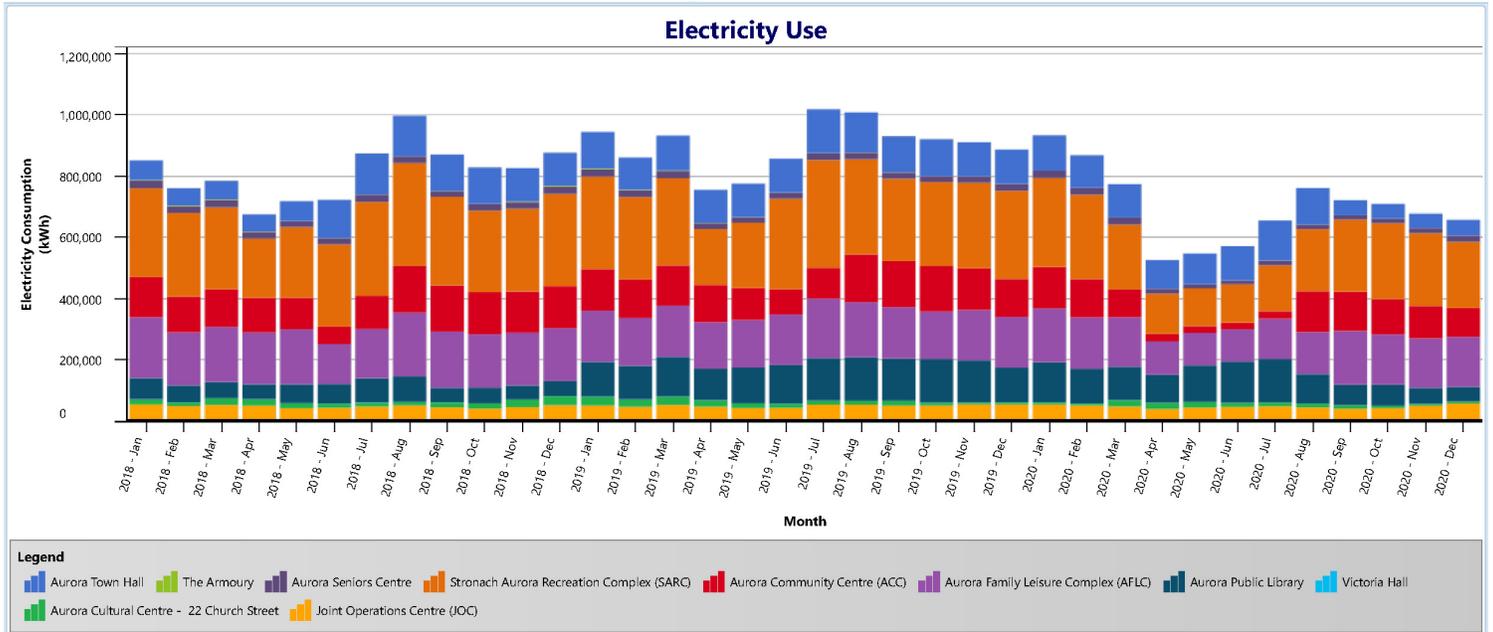
- Participated in the Climatewise Business Network’s Mayor’s Energy Challenge, where Mayor Mrakas challenged local businesses to report energy and water consumption under Ontario’s Energy and Water Reporting and Benchmarking (EWRB) program to support building owners and managers in making decisions on how to improve their building’s efficiency. The education campaign consisted of a video by the Mayor, news conference with local municipalities, social media promotion and the creation of a Town Website to support businesses on their reporting.



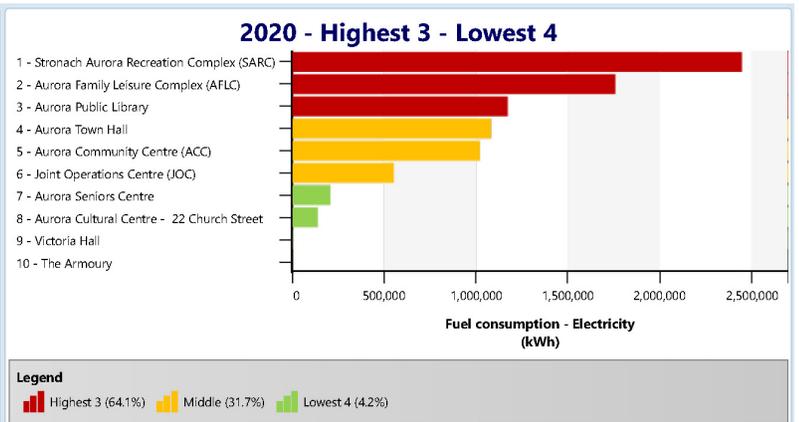
ANNEX 1

2020 BUILDING ENERGY PERFORMANCE AT TOWN FACILITIES

Annex 1 - 2020 Energy Performance from Town Facilities

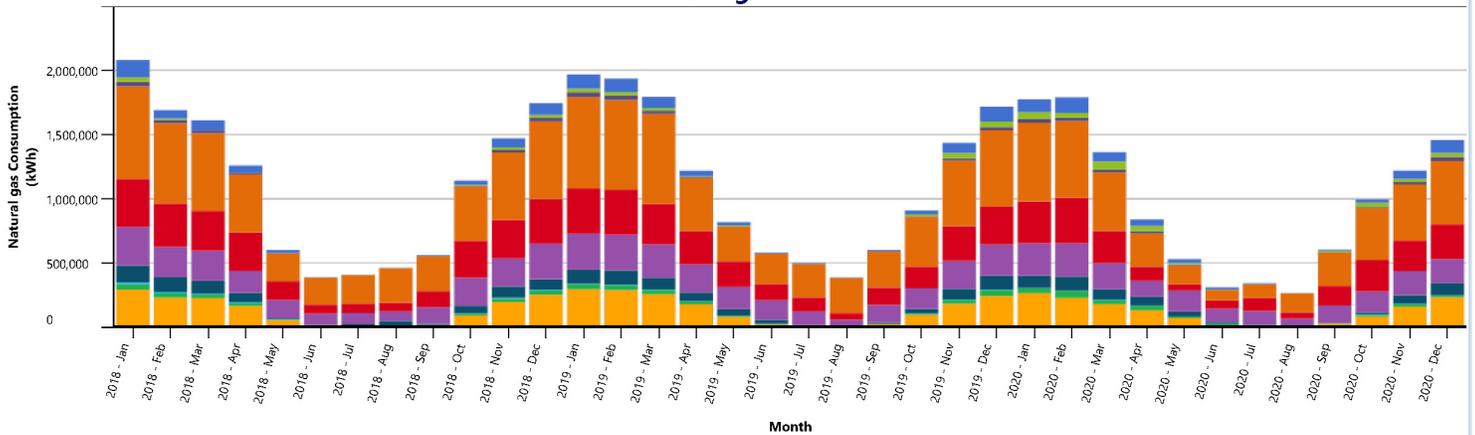


	Comparison - 2018 2020			
	Reference 2018	Fuel consumption Actual 2020	Difference kWh	Difference %
Stonach Aurora Recreation Complex (SARC)	3,292,409	2,446,174	846,235	25.7%
Aurora Family Leisure Complex (AFLC)	2,100,942	1,758,285	342,657	16.3%
Aurora Public Library	709,184	1,173,178	-463,994	-65.4%
Aurora Town Hall	1,147,487	1,082,799	64,688	5.6%
Aurora Community Centre (ACC)	1,465,961	1,021,692	444,269	30.3%
Joint Operations Centre (JOC)	561,820	553,853	7,967	1.4%
Aurora Seniors Centre	264,918	208,668	56,250	21.2%
Aurora Cultural Centre - 22 Church Street	208,338	139,971	68,366	32.8%
Victoria Hall	7,210	3,545	3,665	50.8%
The Armoury	14,350	670	13,679	95.3%
Total	9,772,619	8,388,836	1,383,783	14.2%



Annex 1 - 2020 Energy Performance from Town Facilities

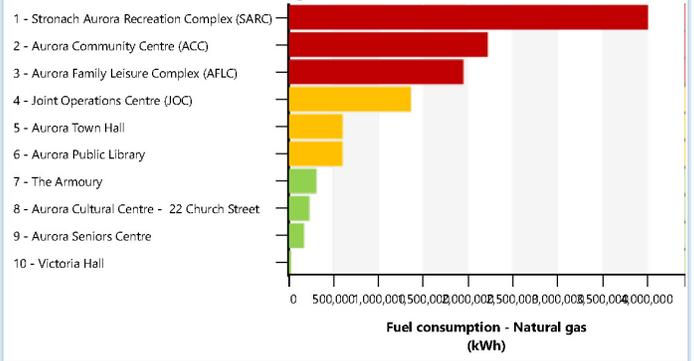
Natural gas Use



Comparison - 2018 | 2020

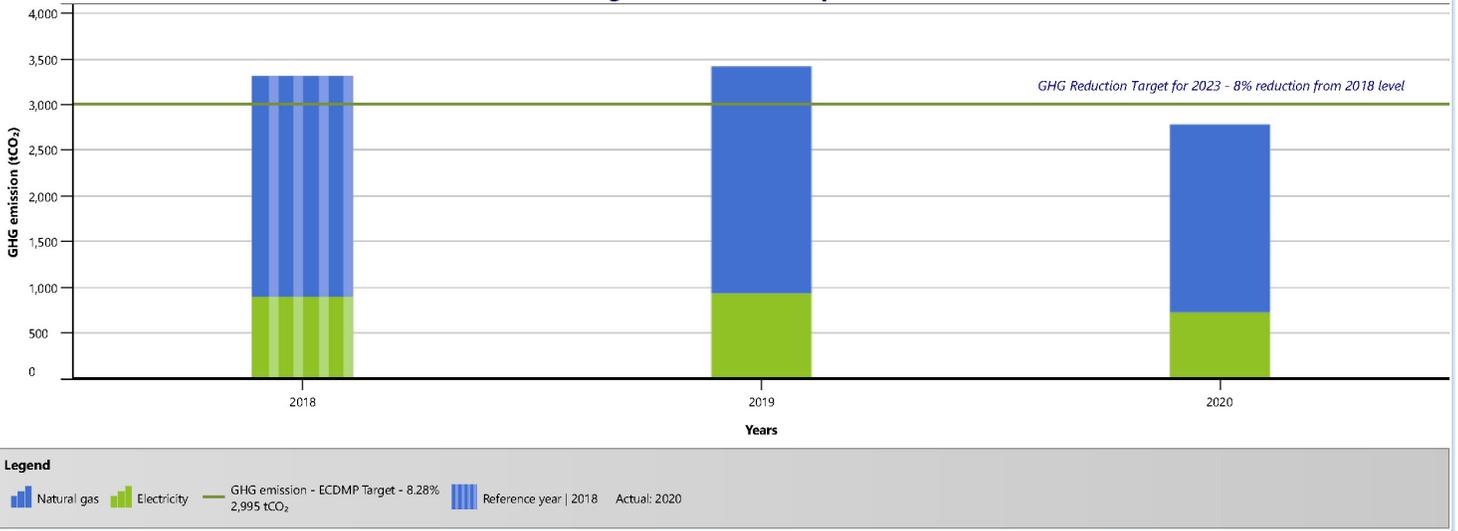
	Fuel consumption			
	Reference 2018	Actual 2020	Difference	Difference %
	kWh	kWh	kWh	%
Stonach Aurora Recreation Complex (SARC)	5,159,204	4,007,697	1,151,507	22.3%
Aurora Community Centre (ACC)	2,753,596	2,220,916	532,680	19.3%
Aurora Family Leisure Complex (AFLC)	2,176,837	1,948,771	228,066	10.5%
Joint Operations Centre (JOC)	1,506,699	1,361,979	144,719	9.6%
Aurora Town Hall	561,685	600,684	-38,999	-6.9%
Aurora Public Library	732,276	599,581	132,695	18.1%
The Armoury	95,403	308,417	-213,015	-223%
Aurora Cultural Centre - 22 Church Street	205,682	228,680	-22,998	-11.2%
Aurora Seniors Centre	160,793	170,098	-9,305	-5.8%
Victoria Hall	56,015	24,882	31,133	55.6%
Total	13,408,188	11,471,705	1,936,482	14.4%

2020 - Highest 3 - Lowest 4



Annex 1 - 2020 Energy Performance from Town Facilities

Greenhouse gas emissions compared to 2018



Comparison - 2018 | 2020

	GHG emission			
	Reference 2018	Actual 2020	Difference	Difference %
	tCO ₂	tCO ₂	tCO ₂	%
Natural gas	2,405	2,058	347	14.4%
Electricity	903	724	178	19.8%
Total	3,308	2,782	526	15.9%

Greenhouse gas emissions compared to 2018



2020 - Highest 3 - Lowest 2

