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Town of Aurora  
**Information Report**  
No. PDS21-063

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**Subject:** Corporate Environmental Action Plan 2020 Progress Report

**Prepared by:** Natalie Kehle, Energy and Climate Change Analyst

**Department:** Planning and Development Services

**Date:** October 19, 2021

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**In accordance with the Procedure By-law, any Member of Council may request that this Information Report be placed on an upcoming General Committee or Council meeting agenda for discussion.**

## **Executive Summary**

The Corporate Environmental Action Plan (CEAP) is a five-year plan that outlines environmental sustainability action items directed at staff at the corporate level. An annual progress report is presented to the Environmental Advisory Committee (EAC) and to Council.

- The CEAP 2020 Progress Report show cases the Town's actions towards environmental sustainability and supports Council's commitments to the environment.
- Town staff implemented a tracking sheet to monitor progress and encourage accountability.

## **Background**

The Corporate Environmental Action Plan (CEAP) is a five-year action plan that allows The Corporation of the Town of Aurora to achieve its environmental goals for the period 2018 to 2023. The 2010 CEAP and the 2018 version received input from three Advisory Committees, staff and senior management.

The purpose of the CEAP is to protect and enhance the natural environment, promote environmental sustainability, integrity and conservation of resources and create a practice of environmental stewardship within the community. The CEAP is intended to provide corporate direction on key strategic environmental initiatives that will be

initiated over the next five years. The CEAP was developed to assist Council to plan for and implement specific actions to improve the Town's environmental performance and sustainability for future generations. The success of the Plan requires a coordinated approach to implementation that includes all of the Town's departments.

The overall themes in the CEAP cover:

- Water Conservation;
- Sustainable Urban Development;
- Waste Reduction and Diversion;
- Biodiversity and Natural Heritage;
- Climate Change and Energy; and
- Environmental Awareness

## **Analysis**

**The CEAP 2020 Progress Report show cases the Town's actions towards environmental sustainability and supports Council's commitments to the environment.**

Aurora Council made two important environmental commitments in recent years; the Town joined the Blue Dot movement in 2016 and declared a climate emergency in 2019. The Blue Dot movement is a campaign based on the idea that everyone in Canada deserves the right to a healthy environment, including clean air and water, and a say in decisions that affect our health and well-being.

In October 2019, the Town Council joined 457 Canadian municipalities and declared a Climate Emergency. Those cities, have established a goal of reducing GHG emissions by 80% by 2050, as per the Paris Accord. The declaration solidifies the Town's commitments to implementing all the environmental plans completed or under development, such as the Corporate Energy Conservation and Demand Management Plan, the Corporate Environmental Action Plan, the Community Energy Plan, the Natural Heritage System Study and the Climate Change Adaptation Plan.

In October 2020, the Town Council approved the Anti-Idling Policy, taking an important step towards decreasing the community's greenhouse gas emissions and improving both outdoor and in-cabin air-quality, with an extension education campaign scheduled in 2021.

Though 2020 brought many challenges due to the COVID19 pandemic, staff continued to effectively implementation of the CEAP. The following is a summary of the Town's 2020 successes from the CEAP Progress Report (a more detailed summary of the

Town's environmental objectives by theme and the Town's initiatives are found in Attachment 1):

- 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;
- Installed 1,150 water meters as part of its water loss reduction strategy;
- Replaced 167 sanitary laterals as part of its water loss reduction strategy;
- Applied low impact development techniques during construction of the 2020 road reconstruction projects (bio-swailes and enhanced oil/grit separator);
- Enacted the new Site Alteration By-law regulating the quality of fill imported to sites and sediment controls for pollution prevention;
- 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;
- Planted 1,500 trees and shrubs on Aurora lands;
- 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;
- 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;
- Council approved the budget for the Climate Change Adaptation Plan;
- Continued energy use tracking at Town Facilities: 23,180,806 equivalent kilowatt-hours in 2018, 24,641,678 equivalent kilowatt-hours in 2019 and 19,860,541 equivalent kilowatt-hours in 2020;
- Made operational changes at Town facilities to reduce energy consumption during shutdowns due to COVID19 pandemic; resulting in energy cost avoidance;
- Continued 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;
- Integrated energy efficiency and waste disposal wording and requirements in Facilities' procurement documents;
- Investigated technology to improve energy efficiency at SARC using the Building Automation System innovation;
- Hosted a public consultation on Community Energy Plan (CEP) where the draft CEP was presented, energy inventory, reduction targets and strategies discussed, and public feedback sought;

- Participated in the ClimateWise Business Network's Mayor's Energy Challenge, where Mayor Mrakas challenged local businesses to report energy and water consumption to support building owners and managers in making decisions on improving building efficiency.
- Generated 703,406 kilowatt-hours of electricity from Town solar rooftop systems;
- Continued tracking Community waste diversion rates: 65% in 2018, 65% in 2019 and 64% in 2020;
- Implemented a 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;
- Increased the number of multi-residential buildings within the Town's recycling program;
- The Official Plan Review was initiated in 2020 and will incorporate recommendations from the Community Energy Plan and the Green Development Standards study to include climate change considerations.

**Town staff implemented a tracking sheet to monitor progress and encourage accountability.**

The Progress Report consists of a summary document, highlighting the achievements for 2020 (see Attachment 1), and a separate tracking document, used by staff to monitor the progress of the action items (see Attachment 2).

The CEAP is reported annually, presented to Council and EAC and then posted on the Town's website. Ideally, reports are presented by mid-year for the previous reporting year. This timeframe allows staff to collect, verify, input and analyze all the data needed for tracking and reporting. Since the CEAP monitors facility energy consumption, utility bills often get adjusted or corrected and require additional time to finalize the data.

The CEAP 2021 Progress Report is scheduled to be presented to Council in September 2022.

**Advisory Committee Review**

The Environmental Advisory Committee (EAC) commented on the draft CEAP 2020 Progress Report on September 22, 2021. Staff were seeking the Committee's feedback and suggestions regarding the progress report and the associated tracking sheet.

The Committee sought clarification regarding incorporating ecological design in landscaping of parks, and staff advised that ecological park designs is the target for all new park designs and retrofits.

The Committee and staff discussed about means of mitigating invasive species and access to information for residents and business owners regarding environmental initiatives. Staff advised that informational booths to increase awareness regarding invasive species will be held at the Aurora Farmer's Market beginning in 2022 and other environmental public engagement initiatives are being explored. The Committee provided further suggestions such as: developing educational videos on means to manage invasive species to be posted on the Town website and other social media platforms, information pamphlets for business owners, and installing signage to encourage people to be more environmentally aware.

The Committee and staff further discussed the anti-idling initiatives, the associated anti-idling policy, and its parameters and effectiveness. Staff advised that the public education campaign is ongoing which includes installation of mobile signs, providing resources and tips through social media, and the involvement of the By-Law Enforcement to educate residents and business owners where necessary.

The Committee referred to the various community campaigns and sought clarification on tracking the response metrics and effectiveness of the initiatives, and staff provided clarification. The Committee suggested that successes of the initiatives, campaigns, and various action items should be including in future progress reports and be made available for members of public.

## **Legal Considerations**

None

## **Financial Implications**

A key action item arising from the Town's recently approved Fiscal Strategy is the undertaking of a review of the alignment between its many strategic and master plans and its long-term operating and capital plans to ensure sufficient resources are available to achieve each plan's deliverables. These alignment reviews are scheduled to take place over the coming few years; with the CEAP scheduled for review in late 2023. Funding availability relating to the delivery of all remaining outstanding Corporate Environmental Action plan actions cannot be effectively determined until the conclusion of the noted alignment review.

## **Communications Considerations**

The Town will use “inform” as the level of engagement for this report. The actions that the Town has taken in support of the CEAP will be promoted by way of the regular Council Highlights media release, as well as through the Town’s website and social media.

## **Link to Strategic Plan**

The CEAP 2020 Progress Report is aligned with Aurora’s Strategic Plan, which is based on the three pillars of sustainability – environment, community, economy – and establishes a vision for Aurora as “an innovative and sustainable community where neighbours care and businesses thrive”.

## **Alternative(s) to the Recommendation**

None

## **Conclusions**

The CEAP Progress Report celebrates the Town’s environmental initiatives and helps track action plan items. The tracking sheet pilot is considered a success and will continue for future progress reports.

## **Attachments**

Attachment 1 – Corporate Environmental Action Plan 2020 Progress Report  
Attachment 2 - Corporate Environmental Action Plan 2020 Tracking Sheet

## **Previous Reports**

PDS21-115, Corporate Environmental Action Plan 2020 Progress Report, September 22, 2021

## **Pre-submission Review**

Agenda Management Team review on September 30, 2021

## **Approvals**

**Approved by David Waters, MCIP, RPP, PLE, Director, Planning and Development Services**

**Approved by Doug Nadorozny, Chief Administrative Officer**



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**

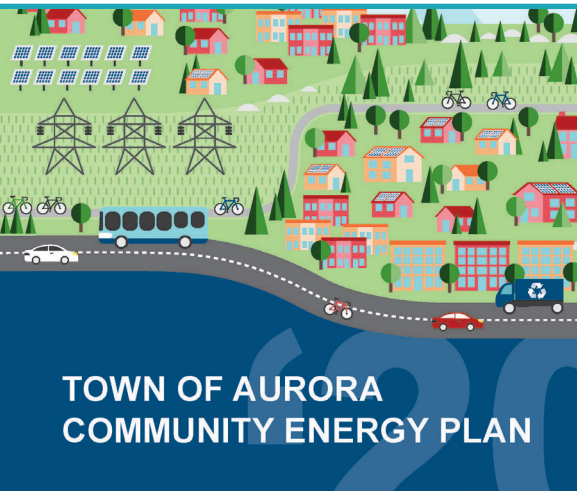
**Objective C3: Reduce the town's greenhouse gas emissions by town staff and at town facilities. \* Actions pulled from the Provincial Climate Change Plan**

- 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**



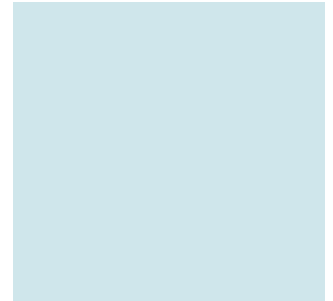
- Hosted a public consultation on Community Energy Plan (CEP) occurred in October 2020 where the importance of a CEP was presented, energy inventory, reduction targets and strategies discussed, and public feedback sought (A1).

- 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.



FOR MORE DETAILS:

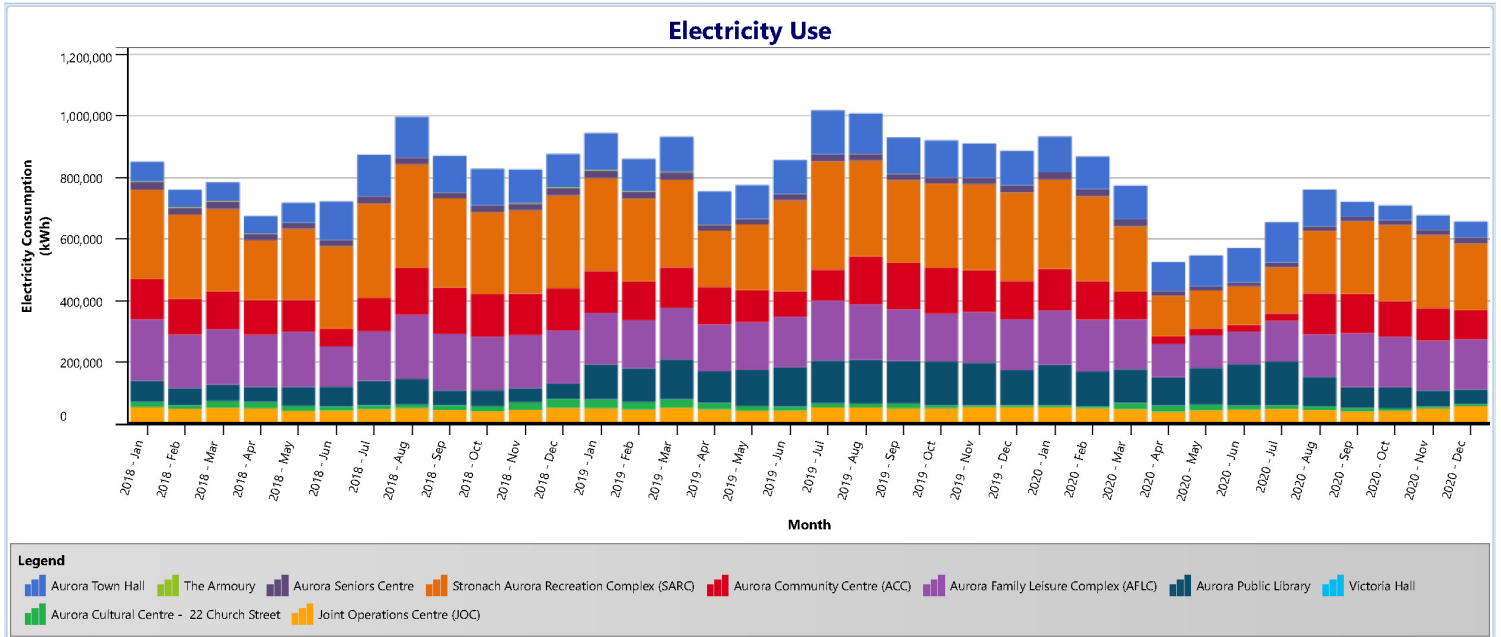
[windfallcentre.ca/climatewise/mayorschallenge](http://windfallcentre.ca/climatewise/mayorschallenge)  
[windfallcentre.ca/benchmarking](http://windfallcentre.ca/benchmarking)



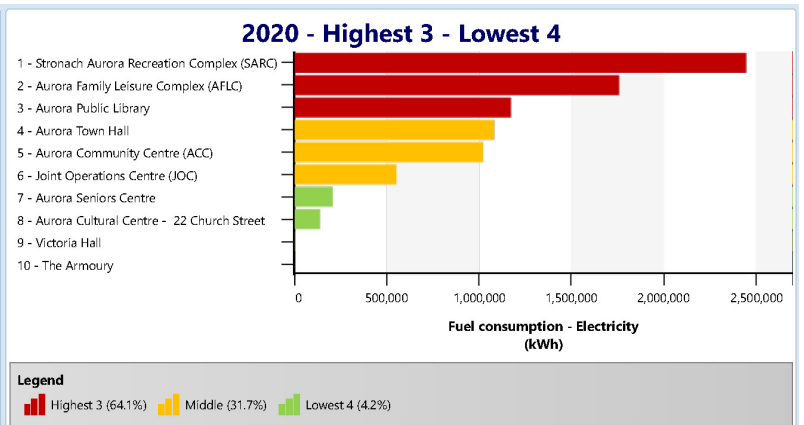
# ANNEX 1

## 2020 BUILDING ENERGY PERFORMANCE AT TOWN FACILITIES

Annex 1 - 2020 Energy Performance from Town Facilities

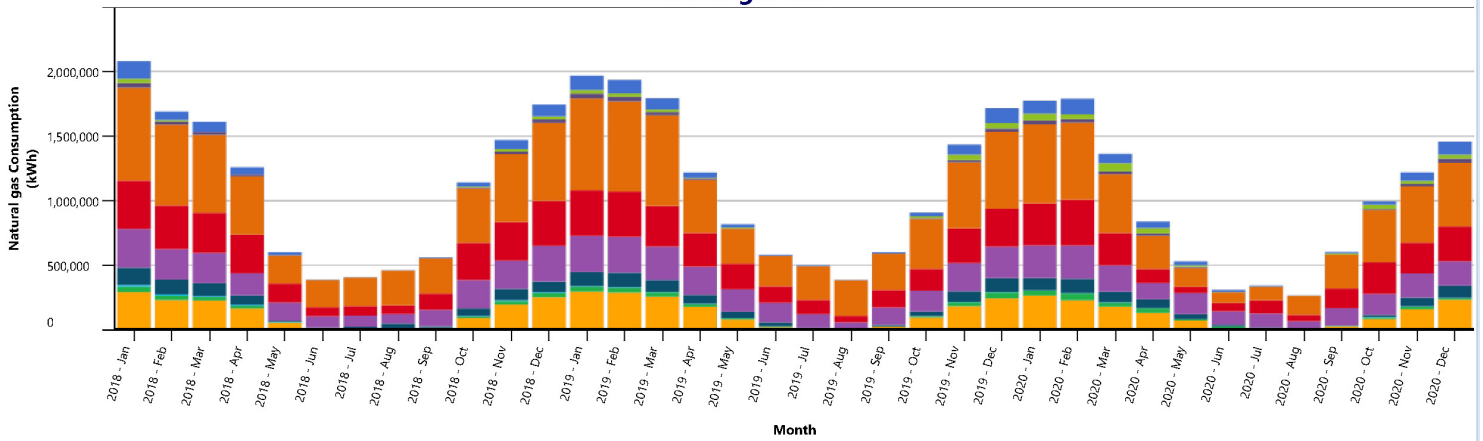


	Comparison - 2018   2020			
	Reference   2018	Actual   2020	Difference kWh	Difference %
Stonach Aurora Recreation Complex (SARC)	3,292,409	2,446,174	846,235	25.7%
Aurora Family Leisure Complex (AFLC)	2,100,942	1,758,285	342,657	16.3%
Aurora Public Library	709,184	1,173,178	-463,994	-65.4%
Aurora Town 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%
<b>Total</b>	<b>9,772,619</b>	<b>8,388,836</b>	<b>1,383,783</b>	<b>14.2%</b>



Annex 1 - 2020 Energy Performance from Town Facilities

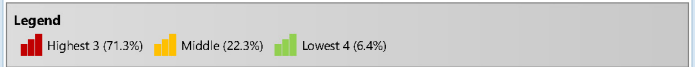
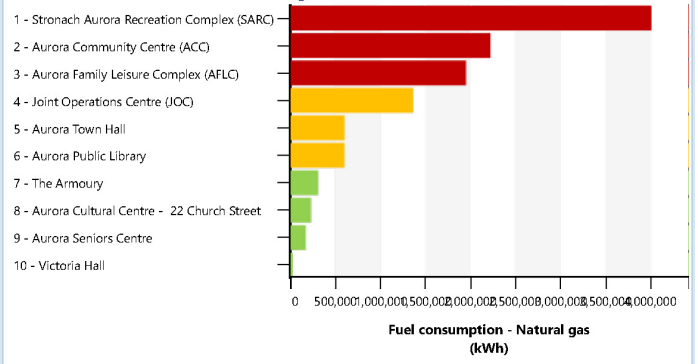
Natural gas Use



Comparison - 2018 | 2020

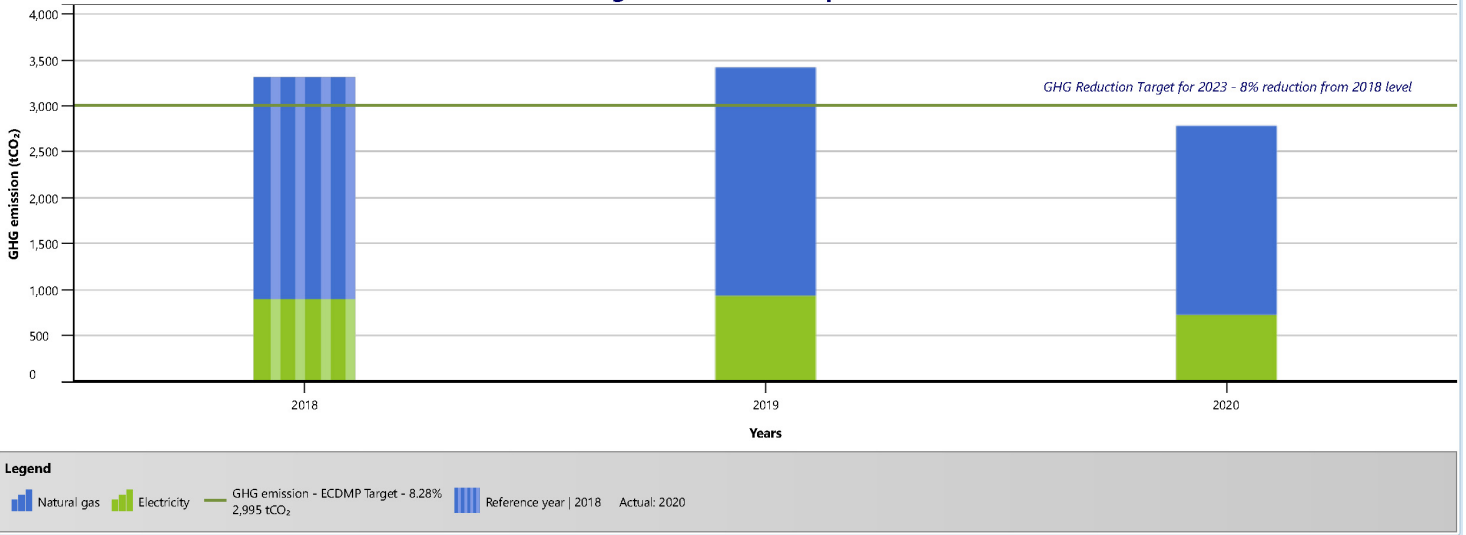
	Fuel consumption			
	Reference   2018	Actual   2020	Difference	Difference %
	kWh	kWh	kWh	%
<b>Stronach Aurora Recreation Complex (SARC)</b>	5,159,204	4,007,697	1,151,507	22.3%
<b>Aurora Community Centre (ACC)</b>	2,753,596	2,220,916	532,680	19.3%
<b>Aurora Family Leisure Complex (AFLC)</b>	2,176,837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

2020 - Highest 3 - Lowest 4



Annex 1 - 2020 Energy Performance from Town Facilities

### Greenhouse gas emissions compared to 2018



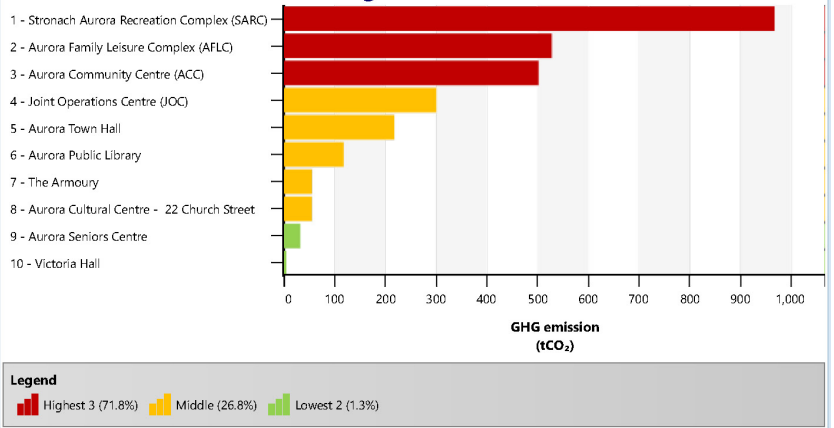
### Comparison - 2018 | 2020

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

### Greenhouse gas emissions compared to 2018



### 2020 - Highest 3 - Lowest 2



**ATTACHMENT 2 - CORPORATE ENVIRONMENTAL ACTION PLAN 2020 TRACKING SHEET**

Area	Item #	Actions	Responsibility	Measures/ Key Performance Indicator (KPI)	Tasks (Target)	Timeline	KPI result for 2020, please mention updates to the listed initiatives under column "D"
WATER CONSERVATION Objective W1: Reduce town owned facility water consumption	1	Action 1: Reduce corporate water consumption (CWC)	CMS -Facilities	CWC Facility Total	Develop annual CWC reduction targets.	Q1 2020	No update for 2020
WATER CONSERVATION Objective W1: Reduce town owned facility water consumption	2	Action 1: Reduce corporate water consumption (CWC).	OPS- Parks	CWC Parks Total	Add CWC to Progress Report	Q2 2020	No update for 2020
WATER CONSERVATION Objective W1: Reduce town owned facility water consumption	3	Action 2: Implement a water loss reduction strategy	OPS - Water	# of Water meters installed per year	Add KPI's to Progress Report	Ongoing	The Town changed 1150 water meters in 2020
WATER CONSERVATION Objective W1: Reduce town owned facility water consumption	4	Action 2: Implement a water loss reduction strategy	OPS - Water	Sanitary sewer Km relined per year	Add KPI's to Progress Report	Ongoing	0 km - The Town only relines as needed and nothing has come up in the last several years. Though some sanitary mains have been replaced through Capital Projects that are managed by Engineering.  - The Town replaced 167 sanitary laterals, which are the sewer pipes that carries wastewater from homes property lines (toilets, sinks, showers, laundry, floor drains, etc.) to the public sanitary sewer main.



<p>WATER CONSERVATION Objective W2: To 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</p>	5	<p>Action 1: Investigate ways to enhance and optimize the functioning of the current storm water management facility inventory</p>	PDS – Engineering	# of storm water ponds enhanced & optimized from their current function	(1 to 2 ponds enhanced & optimized from their current function)	2023 Q4	<p>1) A comprehensive investigation undertaken by LSRCA is ongoing with respect to the Town's SWM pond inventory. This will result in a series of recommendations related to the ponds' O&amp;M, clean-up, retrofit and enhancement; 2) Tamarac SWM dry pond is currently under construction and is being enlarged by York Region, completion anticipated in 2021</p>
<p>WATER CONSERVATION Objective W2: To 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</p>	6	<p>Action 2: Improve storm water quality in all new road reconstruction projects.</p>	PDS – Engineering	Km's of road treated by oil grit separators or Low Impact Development controls	As opportunity arises as determined during design of road reconstruction projects	Ongoing Progress to be reported yearly in Q1	<p>Bio-swales are being constructed on Johnson Road and Holman Crescent, Davidson Road and Bailey Crescent as well as an enhanced oil/grit separator on Davidson Road, as part of 2020 road reconstruction projects, completion anticipated in 2021</p>

<p>WATER CONSERVATION Objective W2: To 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</p>	7	Action 3: Encourage at source storm water management control measures on private property.	PDS – Planning / PDS – Engineering	# of source storm water management control measures on private property installed that the Town is aware of / year	Encourage residents to install private LIDs such as rain barrels during public engagement & design of road reconstruction projects	Ongoing Progress to be reported yearly in Q1	0; Town is unaware of any storm water management control measures on private property being installed in 2020
<p>WATER CONSERVATION Objective W2: To 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</p>	8	Action 4: Investigate new practices that may enhance pollution prevention	PDS – Engineering	# of new practices implemented to enhance pollution prevention	(5 new practices to enhance pollution prevention by 2023	2023 Progress to be reported yearly in Q1	- Town's new Site Alteration By-law was enacted in December of 2019 it regulates the quality of fill imported to sites and erosion and sediment controls used on sites to ensure no sediment contaminates adjacent properties or streams.

<p>SUSTAINABLE URBAN DEVELOPMENT</p> <p>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.</p>	<p>9</p>	<p>Action 1: Promote Sustainable Transportation to Town staff</p>	<p>PDS – Engineering / CS – HR</p>	<p>Annual Smart Commute designation Award (Maintain Gold Standard)</p>	<p>Annual update on Progress Report Q1</p>	<p>Ongoing</p>	<p>- Update from HR on the development of flex work and telecommuting policies. Staff presented to ELT in 2020 an updated flex work policy. The decision by ELT at the time was noting that most staff are working remotely, we should re-assess our draft policy based on the Future of Work post-pandemic. Currently staff are working with York Region municipalities to develop a common framework for safe return to work as well as for the development of policies that will include a telecommute or hybrid model. We expect the updated policies to be in place by the end of 2021 - 2020 Smart Commute Gold Workplace Designation</p>
<p>SUSTAINABLE URBAN DEVELOPMENT</p> <p>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.</p>	<p>10</p>	<p>Action 2: Implement Sustainable features in the construction or reconstruction of Town infrastructure including buildings, facilities and roads</p>	<p>CMS -Facilities / PDS – Engineering</p>	<p># and types of sustainable features installed on construction projects</p>	<p>(1 sustainable feature per construction project, when feasible)</p>	<p>Ongoing, as construction projects arise.</p>	<p>Bio-swales are being constructed on Johnson Road and Holman Crescent, Davidson Road and Bailey Crescent as well as an enhanced oil/grit separator on Davidson Road, as part of 2020 road reconstruction projects, completion anticipated in 2021</p>

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.	11	Action 3: Set up new areas for additional community gardens in Aurora.	OPS- Parks	# of community gardens	Continue to explore opportunities to add additional community gardens as appropriate	Ongoing	No updates for 2020
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.	12	Opportunity: Apply for green infrastructure grant funding.	FS - Finance	# of Town projects funded/year	(2 Town projects funded)	2023 Q2 Progress to be reported yearly in Q1	No projects in 2020
WASTE REDUCTION and DIVERSION Objective D1: Implement sustainable construction practices to reduce waste, incorporate sustainable design and reclaim or recycle materials.	13	Action 1: Implement sustainable construction and building practices for all Town infrastructure including buildings, facilities and roads	PDS – Engineering	# and types of sustainable construction practices implemented that will reduce waste	Development of best practices	2021 Q4	Recycled concrete material was included as a provisional item that Contractors could use as part of 2020 road reconstruction projects. However, no Contractor's utilized this option in 2020.

WASTE REDUCTION and DIVERSION Objective D1: Implement sustainable construction practices to reduce waste, incorporate sustainable design and reclaim or recycle materials.	14	Action 1: Implement sustainable construction and building practices for all Town infrastructure including buildings, facilities and roads	CMS -Facilities	# and types of sustainable construction practices implemented that will reduce waste	Implementati on of best practices	As opportunity arises	No update for 2020
WASTE REDUCTION and DIVERSION Objective D1: Implement sustainable construction practices to reduce waste, incorporate sustainable design and reclaim or recycle materials.	15	Action 1: Implement sustainable construction and building practices for all Town infrastructure including buildings, facilities and roads	OPS - Roads	# and types of sustainable construction practices implemented that will reduce waste	Update tender specifications to promote sustainable construction practices and waste reduction where feasible	2019 Q1 Progress to be reported yearly in Q1	Roads continues to reuse construction materials as much as possible. Contractors are required to reuse interlocking on driveways, catch basin/manhole frames and lids and tactile plates if they are in good condition. Soil that is not disposed of by the contractor is transferred to the JOC where it is tested and disposed of as waste or cover for landfills. Other materials such as concrete and asphalt are all recycled at specific recycling locations.
WASTE REDUCTION and DIVERSION Objective D1: Implement sustainable construction practices to reduce waste, incorporate sustainable design and reclaim or recycle materials.	16	Action 2: Develop a Green Procurement Policy for the Town of Aurora and its contractors.	FS - Procurement	Develop KPI as part of the Green Procurement Policy	Prepare a Green Procurement Policy for Council consideration	2020 Q1	Procurement is planning a Modernization project for Town-wide procurement practices. Green procurement will be reviewed and incorporated into the new policy. Project expected to start in 2021.

<p>WASTE REDUCTION and DIVERSION Objective D2: Reduce waste going to landfill disposal.</p>	17	Action 1: Implement Waste Reduction Strategies.	OPS- Solid Waste	% reduction of waste from facilities community/ year	Develop baseline to measure the opportunities to reduce waste from Town facilities/ year	2020 Q1 Progress to be reported yearly in Q1	<p>Community Waste Diversion Tracking: 2018 Aurora's diversion rate: 65% 2019 Aurora's diversion rate: 65% 2020 Aurora's diversion rate: 64%</p> <p>Front end multi-residential recycling program tracking: 2019 Multi-res participation: 28 buildings 2020 Multi-res participation: 29 buildings</p> <ul style="list-style-type: none"> <li>- Education Campaign for 3 bag limit through, mobile signs, door knockers, Website, in person events, recycle coach app, local ads, Town social media.</li> <li>- Annually increasing the number of multi-residential buildings within the Town's recycling program, through building superintendent (95 gallon tote service or front end recycling), providing education material, through waste calendar, schedule of tote pickup and education flyers.</li> <li>- Continued education through the Recycle Coach App which also provides insight to staff into search items for ongoing education campaigns.</li> <li>- Current Waste By-law requires residents to source separate recyclables and organic materials, including electronic waste and batteries. By-law amendment is looking to add bag tag limit and textiles (2021).</li> <li>- Bulky items and appliances being considered for future By-law update.</li> <li>- Facilities waste audit is being requested once staff and programs are running again, possibly 2021.</li> </ul>
<p>BIODIVERSITY and NATURAL HERITAGE Objective B1: Enrich Aurora's ecology by protecting and preserving biodiversity.</p>	18	Action 1: * Encourage ecological design in landscaping of parks and retrofit projects.	OPS- Parks	Add 1 ecological design feature in new parks and park retrofits / year	Consideration of ecological design in all new park design and retrofits	Progress to be reported yearly in Q1	Grasslands in Arboretum actively maintained to discourage tree growth

BIODIVERSITY and NATURAL HERITAGE Objective B1: Enrich Aurora's ecology by protecting and preserving biodiversity.	19	Action 2: Improve natural heritage significant wildlife habitat.	OPS- Parks	List existing partnerships and note partnerships as they occur	Ongoing partnerships with schools, Arboretum, Adopt-aPark and bird box program	Ongoing Progress to be reported yearly in Q1	No updates for 2020
BIODIVERSITY and NATURAL HERITAGE Objective B1: Enrich Aurora's ecology by protecting and preserving biodiversity.	20	Action 3: Implement the Urban Forest Management Plan	OPS- Parks	Track the # of trees planted on Town property / year	Plant an average of 1000 trees or shrubs / year on Town property.	Progress to be reported yearly in Q1	Approximately 1500 trees and shrubs
BIODIVERSITY and NATURAL HERITAGE Objective B1: Enrich Aurora's ecology by protecting and preserving biodiversity.	21	Action 4: Implement the Invasive Species Act in partnership with York Region and the Province.	OPS- Parks	Complete 1 invasive species pilot project per year. Apply for 1 grants per 3 years	Document partnership with other organizations	Progress to be reported yearly in Q1	Region targeted Phragmites on regional frontage adjacent to Aurora parkland. Arboretum completed extensive buckthorn removal in park.
CLIMATE CHANGE and ENERGY Objective C1: Prepare a Climate Change Adaptation Plan	23	Action 1: Identify climate change risks by completing a vulnerability risk assessment of key departmental priorities.	PDS – Engineering All relevant departments to contribute to risk assessment Creation	Completion date of each climate change risk assessment	Apply for funding, document proposal approvals	2020 Q3 for first risk category 2021 Q3 for second category	A risk and vulnerability assessment of Town assets is part of the Climate Change Adaptation Plan. Council approved the project in 2020 with a project start date in 2021.

CLIMATE CHANGE and ENERGY Objective C1: Prepare a Climate Change Adaptation Plan	24	Action 2: Develop a Climate Change Adaptation Action Plan that will assist the Town to mitigate the risks of climate change. The Plan would benefit from climate change planning partnerships with other municipalities, conservation authorities and York Region.	PDS – Engineering	The preparation of a climate change action plan approved by Council	consultant fee - 2020 budget	2021 Q1	2020 Budget was approved by Council for a Climate Change Adaptation Plan to start in 2021.
CLIMATE CHANGE and ENERGY Objective C2: Implement the Provincial Climate Change Plan Actions	25	Action 1: *Province Propose amendments to Municipal Act.	PDS - Planning	RMOY is the approval authority for Official Plan, amendments & municipal consolidation	Update the Town of Aurora's Official Plan	Ongoing	Official Plan Review project planning occurred in 2019, with plans to start in 2020. The project plans to incorporate changes to the Municipal Act.
CLIMATE CHANGE and ENERGY Objective C2: Implement the Provincial Climate Change Plan Actions	26	Action 2: *Require electric charging in surface lots.	PDS - Planning	Develop KPI as part of GDS	Add this requirement to the Town's Development Policy	2021 Q4	To be developed as part of the Green Development Standard - project to start in 2021.
CLIMATE CHANGE and ENERGY Objective C2: Implement the Provincial Climate Change Plan Actions	27	Action 3: *Set green development standards.	PDS - Planning	Develop KPI as part of GDS	Prepare Green Development Standards (GDS) for Council	2020 Q4	The Green Development Standard - project to start in 2021.



CLIMATE CHANGE and ENERGY Objective C2: Implement the Provincial Climate Change Plan Actions	28	Action 4: *Eliminate minimum parking requirements over the next 5 years for municipal zoning bylaws.	PDS - Planning	Develop KPI as part of GDS	Add this requirement to the Official Plan policy. Encourage TDM to replace	2024 Q4	OP Review will consider the parking requirement. Reduced parking in the Promenade due to space restrictions.
CLIMATE CHANGE and ENERGY Objective C2: Implement the Provincial Climate Change Plan Actions	29	Action 5: *Make climate change mitigation and adaptation mandatory in municipal official plans.	PDS - Planning	Develop KPI as part of GDS	Add this requirement to the Official Plan policy	2021 Q4	Official Plan Review to start in 2020 and will incorporate recommendations from the Community Energy Plan, updates to the Municipal Act and the Green Development Standard.
CLIMATE CHANGE and ENERGY Objective C3: Reduce the town's greenhouse gas emissions by town staff and at town facilities. * Actions pulled from the Provincial Climate Change Plan	30	Action 1: Implement an anti-idling initiative.	CS – HR: Organization of training timing OPS -Fleet FS- procurement	Full time staff completing anti-idling training / year.	Year 1 include full time staff who drive Town vehicles. Train remainder of staff.	All Staff trained by Q2 2020.	· Council approved the Anti-Idling Policy, which aims to limit idling from residents, businesses and Town staff, public campaign kickoff in August 2021 to align with back to school. - Town staff training for anti idling will be incorporated into the Town's Green Fleet Action Plan, under development.
CLIMATE CHANGE and ENERGY Objective C3: Reduce the town's greenhouse gas emissions by town staff and at town facilities. * Actions pulled from the Provincial Climate Change Plan	31	Action 2: *Develop a Green Fleet Plan.	PDS – Engineering / OPS - Fleet	Develop a KPI in process of preparing the Green Fleet Plan	Prepare a Green Fleet Plan Add to 2020 budget	2021 Q3	Under development, expected in 2021.

<p>CLIMATE CHANGE and ENERGY</p> <p>Objective C3: Reduce the town's greenhouse gas emissions by town staff and at town facilities.</p> <p>* Actions pulled from the Provincial Climate Change Plan</p>	<p>32</p>	<p>Action 3: Improve energy efficiency of existing building and business operations</p>	<p>CMS -Facilities</p>	<p>Estimated Annual energy savings of newly implemented energy retrofits in Town owned facilities</p>	<p>Implement facility energy and water conservation measures within the Capital Plan</p>	<p>List new energy conservation measures implemented on Progress Report yearly in Q1</p>	<p>Energy Use Tracking at Town Facilities: Base year: 2018 2018: 23,180,806 equivalent kilowatt-hours 2019: 24,641,678 equivalent kilowatt-hours 2020: 19,860,541 equivalent kilowatt-hours</p> <ul style="list-style-type: none"> <li>- Monthly Building Performance meeting setup 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.</li> <li>- Prepared TOR for LED lighting retrofits at Town facilities (2021 project)</li> <li>- Integrated energy efficiency and waste disposal wording/ requirements in Facilities' procurement documents</li> <li>- Investigated a new technology for improving energy efficiency at SARC using the Building Automation System.</li> <li>- Due to COVID 19, facilities made operational changes to reduce energy consumption during the shutdownn. Using the Town's energy management software, staff were able to estimate energy avoidance from the energy conservation measures: 4,000,000 equivalent kilowatt-hours (23% savings).</li> </ul>
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<p>CLIMATE CHANGE and ENERGY Objective C3: Reduce the town's greenhouse gas emissions by town staff and at town facilities. * Actions pulled from the Provincial Climate Change Plan</p>	33	Action 4: Consider all green infrastructure options as part of new corporate builds.	OPS - Parks / OPS - Roads / CMS - Facilities / PDS – Engineering	# of green infrastructure options included in new corporate projects	List chosen green infrastructure items implemented on Progress Report	Ongoing, as construction projects arise.	No update for 2020
<p>ENVIRONMENTAL AWARENESS Objective A1: Encourage the stewardship of Aurora's natural resources and advance green initiatives by promoting community involvement</p>	34	Action 1: Promote the use of reusable water bottles in conjunction with the new water bottle filling stations. Communication campaign is aimed at the community including staff and should include but may not be limited to the following:	PDS – Engineering	# of existing community events sharing reusable water bottle information	Prepare messaging to share at existing community based events.	First awareness campaign to take place in 2018	No update for 2020 due to events being canceled due to the COVID19 Pandemic.

<p>ENVIRONMENTAL AWARENESS Objective A1: Encourage the stewardship of Aurora's natural resources and advance green initiatives by promoting community involvement</p>	35	Action 2: Increase overall community awareness of climate change:	PDS – Engineering / CAO - Communications	# of existing community events sharing Climate Change information	Prepare messaging to share at existing community based events.	2019 Q3	<ul style="list-style-type: none"> <li>- Public consultation on CEP occurred in October 2020 where the importance of a CEP was presented, energy inventory, reduction targets and strategies discussed, and public feedback sought.</li> <li>- Council Approved the Anti Idling Policy in October 2020, which includes a robust public education campaign for Anti-Idling, launching in September 2021</li> <li>- Town Website updated to include Climate Change initiatives and Town Climate Change Plans</li> <li>- Participated in the ClimateWise Business Network's Mayor's Energy Challenge, where Mayor Mrakas challenged local businesses to report energy and water consumption to support building owners and managers in making decisions on improving building 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 with their reporting.</li> </ul>
<p>ENVIRONMENTAL AWARENESS Objective A1: Encourage the stewardship of Aurora's natural resources and advance green initiatives by promoting community involvement</p>	36	Action 3: Develop an urban forest communication plan that delivers key messages to target audiences within the community	OPS – Parks / CAO - Communications	annual # of trees planted	Continue to promote planting and naturalization projects	1000 trees planted / year	New adopt-a -park partner established who created a butterfly/bee habitat garden on Town blvd to encourage neighbours to grow species in their yards that can sustain bees/butterflies

ENVIRONMENTAL AWARENESS Objective A1: Encourage the stewardship of Aurora's natural resources and advance green initiatives by promoting community involvement	37	Action 4: Develop a community based communications strategy to help protect and enhance our biodiversity	OPS – Parks / CAO - Communications	# of public outreach campaigns promoting and protecting biodiversity	Increase signage Increase partnerships	Ongoing	No updates for 2020
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