

EB-2025-0014
Oshawa PUC 2026 Cost of Service
POLLUTION PROBE - HEARING COMPENDIUM

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1-SEC/CCMBC-25a	2
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1-SEC/CCMBC-25

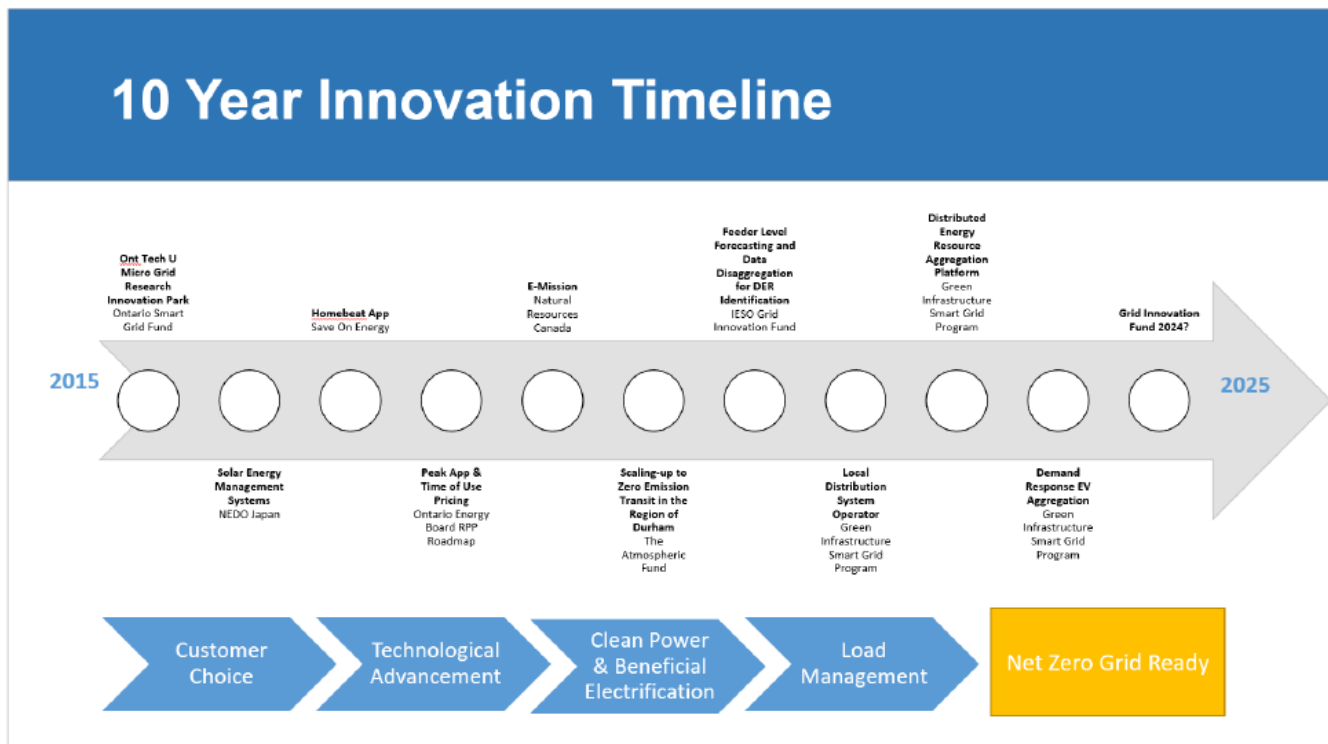
Ref. 1: Exhibit 1, p.114

Question(s):

- Please provide a copy of the “review of past innovation projects” referred to.
- Please provide copies of the last three “monthly opportunity scans” referred to.

Oshawa Power Response

- On June 19, 2024, the Oshawa Power management team gathered to review past innovation projects, the lessons learned through their execution and the new process for implementing innovation projects within the project management office. While much of the discussion was verbal, the following slide captures the overview of past projects and how they fit within the policy themes of their time. Going forward, Oshawa Power intends to review lessons learned at the time of project close, to ensure better implementation of learnings.



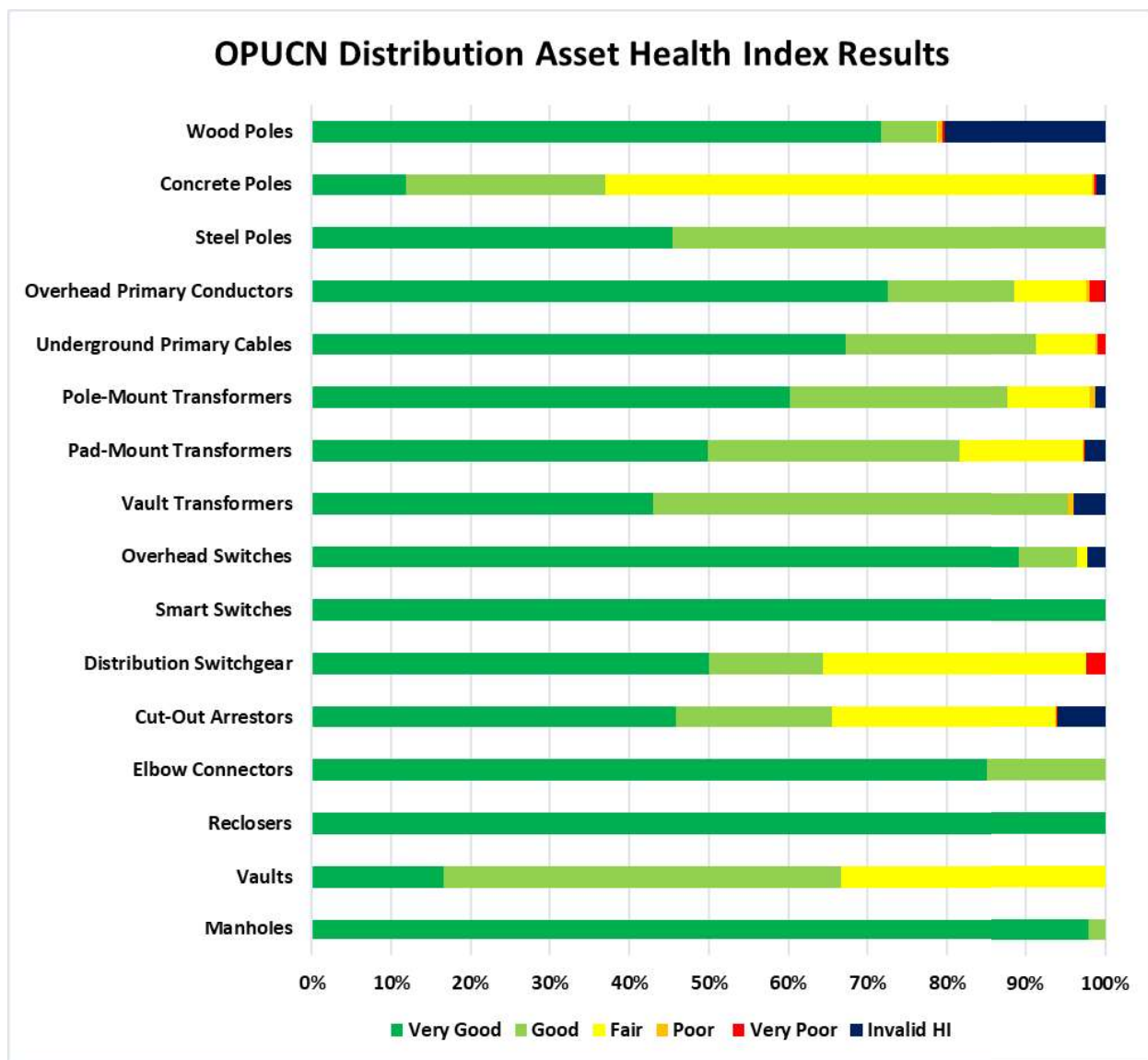


Figure E - 1: Distribution ACA Results

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2097.

The Regional Municipality of Durham

MINUTES

REGIONAL COUNCIL

Wednesday, March 24, 2021

The Council of The Regional Municipality of Durham met in the Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:30 AM. Electronic participation was offered for this meeting.

Regional Chair Henry assumed the Chair.

1. Traditional Territory Acknowledgment

Regional Chair Henry read the following land acknowledgement:

We are currently located on land which has long served as a site of meeting and exchange among the Mississaugas Peoples and is the traditional and treaty territory of the Mississaugas of Scugog Island First Nation. We honour, recognize and respect this nation and Indigenous Peoples as the traditional stewards of the lands and waters on which we meet today.

Mayor Carter spoke about the fatal residential fire on March 22nd in the City of Oshawa. He extended condolences to the families, friends and neighbours affected by this tragedy. He thanked those who assisted including the Oshawa and Toronto fire services, DRPS and RDPS, the Toronto Heavy Urban Search and Rescue Unit, and everyone who has reached out to assist those displaced by the fire including the faith communities, and citizens. He extended a special thank you to Pauline Hopley from the Region's Social Services department, who has gone above and beyond in offering assistance. He asked that thoughts and prayers be with those affected.

Regional Chair Henry welcomed recently appointed Mayor Grant from Brock Township to the meeting.

2. Roll Call

A roll call was taken by the Regional Clerk and the following members were present:

Councillor Anderson

Councillor Ashe

Councillor Carter

Councillor Chapman

Councillor Collier, left the meeting at 1:00 PM on municipal business

Councillor Crawford

Councillor Dies
Councillor Drew
Councillor Foster
Councillor Grant
Councillor Highet
Councillor Kerr
Councillor Leahy
Councillor Lee
Councillor Marimpietri
Councillor McLean
Councillor Mitchell
Councillor Mulcahy
Councillor John Neal
Councillor Joe Neal
Councillor Nicholson
Councillor Roy, left the meeting at 1:30 PM on municipal business
Councillor Ryan
Councillor Smith
Councillor Wotten
Councillor Yamada
Regional Chair Henry

*** all members of Council, except the Regional Chair, participated electronically**

All members of Council were present with the exception of Councillors Barton and Pickles.

Councillor Barton attended the meeting at 10:03 AM
Councillor Pickles attended the meeting at 10:10 AM

3. Declarations of Interest

Councillor Foster made a declaration of interest under the Municipal Conflict of Interest Act with respect to Item 12.1 under Other Business, Litigation Update Regarding the Host Community Agreement Dispute with the Municipality of Clarington (2021-A-6). He indicated that it relates to potential litigation between The Municipality of Clarington and Durham Region.

Councillor Anderson made a declaration of interest under the Municipal Conflict of Interest Act with respect to Item 12.1 under Other Business, Litigation Update Regarding the Host Community Agreement Dispute with the Municipality of Clarington (2021-A-6). He indicated that it relates to potential litigation between The Municipality of Clarington and Durham Region.

4. Adoption of Minutes

Moved by Councillor Chapman, Seconded by Councillor Yamada,
(67) That the minutes of the Regular Regional Council meeting held on
February 24, 2021, be adopted.
CARRIED

Moved by Councillor Chapman, Seconded by Councillor Yamada,
(68) That the minutes of the Closed Regional Council meeting held on
February 24, 2021, be adopted.
CARRIED

Moved by Councillor Chapman, Seconded by Councillor Yamada,
(69) That the minutes of the Committee of the Whole meeting held on March
10, 2021, be adopted.
CARRIED

5. Presentations

5.1 Chief Todd Rollauer, Durham Regional Police Services, re: Quarterly Update to Regional Council

Councillor Drew, Chair of the Durham Regional Police Services Board, provided a brief update including acknowledgement of former Chair Ashe for his leadership over the past two years. Chair Drew advised that the Board intends to pursue two key priorities this year: the Action Plan to Enhance Trust and Confidence in Policing, and the selection of the next Chief of Police. Chair Drew further advised that the Board and Police Association have ratified an agreement to amend the collective agreement with members of the DRPS, the agreement is for 5 years until 2024.

Chief Todd Rollauer, Durham Regional Police Services (DRPS) appeared before Council to provide a quarterly update. Highlights of his presentation included:

- Governance
- Policing in 2021
- Body Worn Cameras
- Youth in Policing
- Diversity Advisory Council
- Calls for Service – increase year over year
- High Volume Calls
- Crime Indicators
- Gun Crime
- Property Crime
- Stolen Vehicles
- Cost of Policing

- 2018 Costs
- Population vs. Budget
- Population vs. Staffing
- Pop (population) to Cop
- Local Council meetings

Chief Rollauer responded to questions from the members of Council.

5.2 Ian McVey, Manager of Sustainability re: 2021 Climate Change Update and Corporate Climate Change Action Plan (2021-A-3)

Ian McVey, Manager of Sustainability appeared before Council with respect to the 2021 Climate Change Update and Corporate Climate Change Action Plan, Report 2020-A-3. Highlights of his presentation included:

- Regional Corporate Influence over Greenhouse Gas (GHG) Emissions
- Corporate Carbon Management Framework
- Recommended Corporate Targets
- Carbon Budget Management Process
- Annual Carbon Budget Reporting – Sample Key Performance Indicators
- Implementation Governance
- 2019 Corporate GHG Inventory Update
- Proposed/Potential Short-term Corporate GHG Reduction Priorities to 2025 & 2030
- Facilities GHG Reduction Analysis
- Climate Finance Strategies
- Durham Community Energy Plan Update
- Durham Community GHG Emissions Profile
- Proposed Community GHG Targets
- Implementation Priority: Residential Retrofits
- Durham Home Energy Savings Program – Implementation Timeline
- Implementation Priority: Green Development
- Implementation Priority: Electric Vehicles

I. McVey responded to questions from the members of Council.

Moved by Councillor Marimpietri, Seconded by Councillor Anderson,
(70) That the rules of procedure be suspended in order to permit the delegations from Alyssa Scanga, Wendy Bracken and Linda Gasser.
CARRIED ON A 2/3rds VOTE

6. Delegations

6.1 Alyssa Scanga, on behalf of Climate Justice Durham re: Corporate Climate Action Plan (2021-A-3)

Alyssa Scanga appeared before Council on behalf of Climate Justice Durham (CJD) with respect to the Corporate Climate Action Plan. She advised that she is an environmental science student at Trent University and a member of Climate Justice Durham, formerly Fridays For Future Whitby, which is a grassroots, multi-generational group of community members advocating for meaningful climate action in Durham.

A. Scanga advised that the group would like to endorse the Corporate Climate Action Plan and suggest some possible improvements. She stated that overall, it is a progressive and detailed plan to reduce Durham Region's corporate greenhouse gas emissions, and the group endorses the ambitious GHG reduction targets, the Carbon Budget approach, the integration with existing Regional planning and budgeting processes, and the annual update reports.

A. Scanga added that suggested improvements to increase the effectiveness of this plan include a greater focus on adaptation measures which could include reflective or green roofs, permeable pavement, improved stormwater management, shade structures, and additional trees.

A. Scanga stated that adaptation measures are an extremely important piece of the Region's response to the climate crisis. She added that CJD recommends a parallel Climate Adaptation Plan be prepared for Council approval before the end of 2021.

A. Scanga stated that this plan makes an effort to treat climate mitigation as a budget issue, but this is difficult to do without a method of understanding the real cost of climate change. She also stated that CJD believes that for budgetary purposes, the US government's figure of \$100 USD, or \$125 CAD per tonne of CO₂ equivalent, would be a useful proxy value to estimate the savings from reduced GHG emissions for the Region to use in its cost-benefit analysis.

A. Scanga added that the Region needs to set a Net-Zero Carbon Standard for New Facilities starting immediately for all new facilities (owned and leased). For reference, this is Tier 4 of the recently approved Whitby Green Standard. If the Region intends to achieve its target of being net-zero by 2045, she stated that it is imperative that the building stock meet this standard.

6.2 Wendy Bracken re: Communications CC-10 and Durham York Energy Centre Operations – Long Term Sampling System Update (2021-WR-5)

Wendy Bracken appeared before Council with respect to Council Correspondence #CC-10 and Report #2021-WR-5: Durham York Energy Centre Operations – Long Term Sampling System Update.

W. Bracken advised that L. Gasser, K. Meydam and herself sent correspondence regarding Report #2021-WR-5 which provided a detailed history of concerns around dioxin and furan emissions and what is happening with the sampling system at the Durham York Energy Centre (DYEC).

W. Bracken requested that Council not accept the recommendation to receive Report #2021-WR-5 for information and that Council refer the Report and CC #10 to staff and direct staff to respond in writing to the concerns raised, specifically to the request that AMESA data be provided as requested in CC #10. She also requested that staff provide a written report back to Council addressing their concerns.

W. Bracken stated that AMESA sampling is essential, as dioxins and furans emissions are very toxic. She added that stack tests done once or twice a year are not sufficient. She explained that when the major exceedance happened in 2016, dioxins and furans during that stack test were found to be over the limits, but in the control room there was no indication that there was a problem.

W. Bracken stated that what is being proposed in Report 2021-WR-5 is insufficient. She added that the Report suggests having monthly data summarized and presented as a 12-month rolling average. She explained that the point of AMESA is to provide data in-between stack tests.

W. Bracken advised that she submitted a Freedom of Information (FOI) request in May 2019 for the monthly data for the first 5 years, and she has not received it yet. She added that when she asked for the data at WMAC meetings she was told the results go directly to Covanta and staff do not look at them. She believes Durham Region residents are paying for this monitoring and it is unacceptable that staff are not reviewing the monthly reports.

W. Bracken responded to questions from the members of Council.

6.3 Linda Gasser, Whitby Resident re: Communications CC-10 and Durham York Energy Centre Operations – Long Term Sampling System Update (2021-WR-5)

Linda Gasser, Whitby Resident, appeared before Council with respect to Council Correspondence #CC-10 and Report #2021-WR-5: Durham York Energy Centre Operations – Long Term Sampling System Update.

L. Gasser referred to page 69 in the Council agenda and referenced the following paragraph from Council Correspondence #CC-10:

“The objective for the installation and testing of the AMESA system is to generate additional Dioxins and Furans data to monitor the performance of the plan and its APC system. In addition, the Owners expect that after further investigation the AMESA system will be used to monitor Dioxins and Furans between the scheduled stack tests. This will provide for an additional mechanism to better protect the public.”

L. Gasser stated that the long-term sampling system is intended to monitor incinerator operations over longer periods, between stack tests as it provides real time emissions. She added that to only offer a rolling average and a summary of the monthly data does not tell the owners and the public what they need to know about trends at the incinerator over monthly periods, between stack tests. She further added that AMESA is intended to compliment the other monitoring systems, and this is a long standing issue that has not been addressed.

Moved by Councillor Chapman, Seconded by Councillor Leahy,
(71) That Council recess for 15 minutes.

CARRIED

Council recessed at 11:37 AM and reconvened at 11:56 AM

The Regional Clerk conducted a roll call following the recess and all members of Council were present.

7. Reports related to Delegations/Presentations

7.1 2021 Climate Change Update and Corporate Climate Change Action Plan (2021-A-3)

[CARRIED]

Moved by Councillor Leahy, Seconded by Councillor Marimpietri,
(72) A) That Regional Council approve new short, medium, and long-term targets to reduce corporate greenhouse gas (GHG) emissions, namely:

- 20 per cent GHG emissions reduction by 2025, below 2019 levels,
- 40 per cent GHG emissions reduction by 2030, below 2019 levels,
- 100 per cent GHG emissions reduction by 2045, below 2019 levels;

- B) That Regional Council approve the Durham Region Corporate Climate Action Plan which identifies how climate change considerations will be embedded across all elements of Regional business, included as Attachment #1 to Report #2021-A-3, and as outlined in Report #2021-A-3;
- C) That Regional Council endorse 2025, 2030 and 2050 community GHG emissions targets, as outlined in Report #2021-A-3, as follows:
- 10 per cent GHG emissions reduction by 2025, below 2019 levels,
 - 30 per cent GHG emissions reduction by 2030, below 2019 levels,
 - 100 per cent GHG emissions reduction by 2050, below 2019 levels; and
- D) That a copy of Report #2021-A-3 and the Durham Region Corporate Climate Action Plan be sent to local area municipalities, the Ministry of Environment, Conservation and Parks, the Ministry of Energy Northern Development and Mines, Infrastructure Canada, Environment and Climate Change Canada, the Federation of Canadian Municipalities, and the Association of Municipalities of Ontario (AMO).

CARRIED

Moved by Councillor Anderson, Seconded by Councillor Wotten,

- (73) That the order of the Agenda be altered to consider Item 8, Council Correspondence #CC 10 at this time, and that Council Correspondence #CC 10 be referred to the consideration of Item 7.2, Report #2021-WR-5.

CARRIED

7.2 Durham York Energy Centre Operations – Long-Term Sampling System Update (2021-WR-5)

[CARRIED ON A RECORDED VOTE]

Moved by Councillor Joe Neal, Seconded by Councillor Barton,

- (74) That Report 2021-WR-5 of the Commissioner of Works be received for information.

CARRIED LATER IN THE MEETING
ON A RECORDED VOTE
(See Following Motion)

Moved by Councillor Joe Neal, Seconded by Councillor John Neal,
(75) That that Report #2021-WR-5 of the Commissioner of Works and Council Correspondence Item #CC-10 be referred to staff, and that staff report to Council on the concerns raised in Council Correspondence Item #CC-10, including the request that AMESA data be managed as per numbers 1 to 4 on page 73 of the Council Agenda.

MOTION DEFEATED
ON THE FOLLOWING RECORDED
VOTE:

Yes

Councillor Anderson
Councillor Dies
Councillor Grant
Councillor John Neal
Councillor Joe Neal
Councillor Nicholson
Councillor Wotten

No

Councillor Ashe
Councillor Barton
Councillor Chapman
Councillor Collier
Councillor Crawford
Councillor Drew
Councillor Foster
Councillor Highet
Councillor Kerr
Councillor Leahy
Councillor Lee
Councillor Marimpietri
Councillor McLean
Councillor Mitchell
Councillor Mulcahy
Councillor Pickles
Councillor Roy
Councillor Ryan
Councillor Smith
Councillor Yamada
Regional Chair Henry

Members Absent: Councillor Carter

Declarations of Interest: None

The main motion (74) of Councillors Joe Neal and Barton was then put to a vote and CARRIED ON THE FOLLOWING RECORDED VOTE:

Yes

Councillor Ashe
Councillor Barton
Councillor Carter
Councillor Chapman
Councillor Drew

No

Councillor Anderson
Councillor Crawford
Councillor Dies
Councillor Lee
Councillor John Neal

Councillor Foster
Councillor Grant
Councillor Highet
Councillor Kerr
Councillor Leahy
Councillor Marimpietri
Councillor Mitchell
Councillor Mulcahy
Councillor Pickles
Councillor Roy
Councillor Ryan
Councillor Smith
Regional Chair Henry

Councillor Joe Neal
Councillor Nicholson
Councillor Wotten

Members Absent: Councillor Collier
Councillor McLean
Councillor Yamada

Declarations of Interest: None

8. Communications

CC 07 Correspondence from the Township of Brock re: Lake Simcoe Region
Conservation Authority Appointment

Moved by Councillor Smith, Seconded by Councillor Leahy,
(76) That Brock Councillor Cria Pettingill be appointed to the Lake Simcoe
Region Conservation Authority for the Township of Brock.
CARRIED

CC 08 Investigation Report from Ben Drory, ADRO Investigator, ADR Chambers
Ombuds Office re: Complaint Reference Number MUN-11695-0920

Moved by Councillor Grant, Seconded by Councillor Smith,
(77) That the Investigation Report from Ben Drory, ADRO Investigator, ADR
Chambers Ombuds Office re: Complaint Reference Number MUN-11695-
0920 be received for information.
CARRIED

CC 09 Correspondence from the Township of Brock re: Appointment of John Grant,
Mayor, Township of Brock

Moved by Councillor Smith, Seconded by Councillor Mulcahy,
(78) That Council Correspondence #CC 09 from the Township of Brock
regarding the appointment of John Grant, Mayor, Township of Brock be
received for information.
CARRIED

- CC 10 Correspondence from Linda Gasser on behalf of Wendy Bracken, Kerry Meydam and Linda Gasser re: Staff Comments/Responses at Works Committee & Report 2021-WR-5 DYEC Operations, Long-Term Sampling System Update (for Dioxins and Furans)
-

This matter was considered earlier in the meeting. See motion (73) on page 8.

9. Committee Reports and any related Notice of Motions

9.1 Report of the Finance and Administration Committee

2. The Regional Municipality of Durham's Accessibility Advisory Committee's 2020 Annual Report and 2021 Workplan (2021-A-4)

[CARRIED]
 - A) That Report #2021-A-4 of the Chief Administrative Officer be received for information as The Regional Municipality of Durham's Accessibility Advisory Committee's 2020 Annual Report; and
 - B) That the Regional Municipality of Durham's Accessibility Advisory Committee's 2021 Workplan be approved.
3. Appointment of the Regional Fire Coordinator and Deputy Fire Coordinator (2021-A-5)

[CARRIED]
 - A) That Clarington Fire Chief Gord Weir be re-appointed Regional Fire Coordinator, effective February 1, 2021;
 - B) That Pickering Deputy Fire Chief Stephen Boyd be appointed Deputy Regional Fire Coordinator, effective February 1, 2021;
 - C) That honoraria for these positions be provided as per the annual Regional budget; and
 - D) That Corporate Services – Legal Services be requested to prepare the appropriate by-law to replace By-law 26-2009 to permit the option to appoint a Deputy Fire Chief as the Regional Fire Coordinator or Deputy Regional Fire Coordinator.
4. The Remuneration and Expenses in 2020 of Members of Regional Council and Regional Council Appointees to Local Boards, as Required by Section 284(1) of the Municipal Act, 2001, S.O. 2001, c. 25 (2021-F-6)

[CARRIED]

That Report #2021-F-6 of the Commissioner of Finance be received for information.

5. Unflood Ontario: Call to Action Resolution
[CARRIED]

That the Region of Durham join the Unflood Ontario Network and commit to the following:

- Having the Region of Durham listed in the Unflood Ontario “About Us” section under the following wording: “Our Network: The following groups and individuals are working together to “unflood” Ontario by educating and engaging the public about the impact of floods and the multiple benefits of Natural Infrastructure”;
- Using the Region's communications channels to promote and share, where feasible, Unflood Ontario communications content (eg. the videos, reports, social media messaging, etc.) starting on April 19th (the launch date); and
- Exploring with Unflood Ontario any collaboration opportunities to promote Natural Infrastructure;

Acknowledging Unflood Ontario will:

- Provide the Region with a communications schedule and timely access to content to ensure the Region has sufficient time to plan and distribute Unflood Ontario content in a way that best assists the Region;
- Work with the Region to meet any communications special needs and/or opportunities; and
- Help the Region further its goals related to flood reduction and Natural Infrastructure.

Moved by Councillor Foster, Seconded by Councillor Collier,
(79) That the recommendations contained in Items 2 to 5 inclusive of Report #3 of the Finance and Administration Committee, be adopted.

CARRIED

Item 1 of Report #3 of the Finance and Administration Committee was considered earlier in the meeting. See Item 7.1 on page 7.

9.2 **Report of the Health and Social Services Committee**

1. End of Mortgage Service Manager Task Force Recommendations
(2021-SS-3)
[CARRIED]

- A) That Regional Council endorse the End of Mortgage Service Manager Task Force position paper, Municipal Recommendations to Continue Investing in Local Housing and Homelessness System and its recommendations and priorities; and
- B) That a copy of Report #2021-SS-3 of the Commissioner of Social Services be forwarded to the Minister of Municipal Affairs and Housing and local Members of Provincial Parliament (MPPs).

Moved by Councillor Chapman, Seconded by Councillor Pickles,

(80) That the recommendations contained in Item 1 of Report #2 of the Health and Social Services Committee be adopted.

CARRIED

9.3 Report of the Planning and Economic Development Committee

1. CP Railway Traffic Information and Data (2021-P-6) [CARRIED]

That Regional Council endorse the following draft resolution contained in Attachment #1 to Report #2021-P-6 of the Commissioner of Planning and Economic Development requesting that CP Rail reconsider its decision to stop providing railway traffic information and data to the public:

Whereas sound is considered by the Environmental Protection Act to be a contaminant which causes negative effects on human health;

Whereas the Provincial Policy Statement (PPS) states that planning for land uses in the vicinity of rail facilities should be undertaken in a manner that ensures that rail facilities and sensitive land uses are appropriately designed, buffered and/or separated from each other;

Whereas the PPS also directs municipalities to avoid land use patterns and development which may cause environmental or public health and safety concerns;

Whereas, Environmental Noise Assessment Studies, prepared in accordance with Ministry of Environment, Conservation and Parks guidelines require accurate and up-to-date data to accurately assess the impacts of railway noise on new development and identify appropriate mitigation measures;

Now therefore, be it resolved that the Region of Durham is requesting that CP Rail reconsider its decision to cease providing railway traffic information to the noise consultants; and

That a copy of this motion be forwarded to CP Rail; the area municipalities; the Minister of Transport; Durham MPs and MPPs; the Association of Municipalities Ontario (AMO); and the Federation of Canadian Municipalities (FCM).

2. Committee Appointments

[CARRIED]

- A) That Councillor Highet be appointed to the Durham Agricultural Advisory Committee;
- B) That Councillor Highet be appointed to the Golden Horseshoe Food and Farming Alliance;
- C) That Councillor Joe Neal be appointed as an alternate to the Durham Agricultural Advisory Committee;
- D) That Councillor Yamada be appointed as an alternate to the Golden Horseshoe Food and Farming Alliance; and
- E) That Councillor Lee be appointed to the Durham Regional Local Housing Corporation.

Moved by Councillor Ryan, Seconded by Councillor Joe Neal,

- (81) That the recommendations contained in Items 1 and 2 of Report #2 of the Planning and Economic Development Committee be adopted.

CARRIED

9.4 **Report of the Works Committee**

1. Municipality of Clarington Resolution #GG-029-21 Regarding Energy from Waste-Waste Management Advisory Committee (EFW-WMAC) Terms of Reference (2021-WR-4)

[CARRIED]

- A) That the motion (#GG-029-21) from the Municipality of Clarington to amend the Terms of Reference for the Energy from Waste-Waste Management Advisory Committee such that the Committee's recommendations go to Regional Council instead of the Regional Municipality of Durham's Works Committee not be approved; and
- B) That the Municipality of Clarington be notified of Regional Council's decision.

3. Correspondence from the Town of Ajax dated February 24, 2021, re: Gas-Fired Electricity

[CARRIED]

- A) That the correspondence from the Town of Ajax dated February 24, 2021, re: Gas-Fired Electricity be received for information;

And further that:

- B) That the concerns of the Town of Ajax regarding the projected increase in greenhouse gas emissions be endorsed; and that the Province be requested to review all options to avoid any increase in greenhouse gas emissions.

4. The Regional Municipality of Durham's Drinking Water Systems 2020 Summary Report (2021-W-11)
[CARRIED]

- A) That the 2020 Summary Report for the Regional Municipality of Durham Drinking Water Systems be received for information;
- B) That receipt of Report #2021-W-11 of the Commissioner of Works be confirmed by resolution of Regional Council; and
- C) That a copy of this resolution be forwarded to the Ontario Ministry of the Environment, Conservation and Parks' York-Durham District Office to indicate the conditions of Schedule 22 of Ontario Regulation 170/03 have been fulfilled.

5. Confidential Report of the Commissioner of Works – Litigation or Potential Litigation, including matters before Administrative Tribunals, affecting the Regional Corporation, with respect to a s. 24 Settlement Agreement under the Expropriations Act, R.S.O. 1990, c. E.26, for Lands Acquired to Facilitate the Reconstruction of Regional Road 2 (Kingston Road), in the City of Pickering (2021-W-12)
[CARRIED]

That the recommendations contained in Confidential Report #2021-W-12 of the Commissioner of Works be adopted.

6. Memorandum from Ralph Walton, Regional Clerk/Director of Legislative Services dated February 25, 2021, re: Resolution adopted by Regional Council at its meeting held on February 24, 2021
[CARRIED]

- A) That the memorandum from Ralph Walton, Regional Clerk/Director of Legislative Services dated February 25, 2021, re: Resolution adopted by Regional Council at its meeting held on February 24, 2021 be received for information;

And further that:

- B) That notwithstanding the current Durham Region Council position supporting the Lake Simcoe option, the Council of the Regional Municipality of Durham requests that if the Province orders the Lake Ontario solution in lieu of the Lake Simcoe option, then the Minister of the Environment Conservation and Parks (MECP) Order that ALL environmental benefits and conditions proposed for the UYSS related to the Lake Simcoe option, including best management practices and science for the Great Lakes and consultations with First Nations, be required at the Duffin Water Pollution Control Plant (DWPCP) and that the Province lead the research and study to advance best practices related to nutrient management for the Great Lakes; and

That taxpayers and users in Durham must be protected from any financial implications of this decision including the costs of the accelerated expansion of the Duffin Creek WPCP due to the addition of this unplanned capacity requirement.

Moved by Councillor Mitchell, Seconded by Councillor Marimpietri,
(82) That the recommendations contained in Items 1, and 3 to 6 inclusive of Report #3 of the Works Committee be adopted.

CARRIED

Item 2 of Report #3 of the Works Committee was considered earlier in the meeting. See Item 7.2 on pages 8 to 10.

9.5 Report of the Committee of the Whole

1. Environmental Registry of Ontario Posting #019-2833 Launching the Minister's 10-Year Review of the Lake Simcoe Protection Plan
(2021-COW-3)
[CARRIED]
-

- A) That Report #2021-COW-3 be endorsed and submitted to the Minister of Environment, Conservation and Parks as Durham Region's response to the Lake Simcoe Protection Plan 10-Year Review;
- B) That the province affirm, revise and update the Lake Simcoe Protection Plan as necessary to:
- i) Continue to employ an ecosystems approach and subwatershed approach to the LSPP because these principles remain important to understand cumulative impacts on the watershed while focusing specific actions to the unique needs and priorities of different areas of the watershed;

- ii) Complete systematic tracking and progress reporting of each of the targets of the LSPP and identify whether changes have been observed on a watershed/subwatershed level;
- iii) Consider assigning timelines and performance measures to the targets in the LSPP;
- iv) Produce a supplemental report that provides an update on the implementation of the Strategic Actions of the LSPP;
- v) Update the LSPP to reflect the changing health of the watershed based on the changing context of the watershed and ongoing advances in watershed science, particularly as they relate to the impacts of climate change;
- vi) Update the stormwater management policies of the LSPP to reflect the considerable research and advancements in industry knowledge of Low Impact Development;
- vii) Update the LSPP to consider and be consistent with the 2017 updates to Greenbelt Plan and Oak Ridges Moraine Conservation Plan, the 2019 update to the Growth Plan and the South Georgian Bay Lake Simcoe Source Protection Plan;
- viii) Provide support to the Lake Simcoe Region Conservation Authority to analyze the results of the Phosphorus Offsetting Policy to determine how well the remediation actions are working and how long the offset lasts;
- ix) Consider the following specific to private sewage systems:
 - a. Oversee the implementation, monitoring and completion of all mandatory maintenance inspections;
 - b. Define program parameters, develop an inspection template and extend cost covering and supplements to municipalities to ensure each municipality is acting consistently;
 - c. Fully fund or subsidize the cost of mandatory maintenance inspections to ensure timely completion and increased public support for the program, especially among those with properties not only on Lake Simcoe, but on its tributaries;
 - d. Facilitate grants, subsidies or loans for private homeowners to remediate sewage systems proactively; and

- e. Improve messaging and outreach to homeowners to increase understanding of the program;
- x) Focus the next phase of LSPP implementation on more significant sources of phosphorus such as, stormwater and agricultural/rural runoff and invasive species, and that the existing phosphorous loading caps for water pollution control plants be maintained;
- xi) Implement any new initiatives and measures in a phased approach, allowing for flexibility given the broad range of local partners and available resources;
- xii) Establish a LSPP implementation committee that would serve to increase collaboration and communication among the various stakeholders;
- xiii) Produce supplemental material to the Minister's 10-Year Report that is directed at property owners, including the development of a dedicated website to report on the health of Lake Simcoe that uses plain language and is accessible to residents;
- xiv) Develop an education and outreach campaign for individuals and businesses within the Lake Simcoe watershed to foster a broader understanding of Lake health, key areas of concern and the impacts of LSPP policies and programs;
- xv) Provide presentations to stakeholders to facilitate a more collaborative approach toward implementing the LSPP;
- xvi) Support enforcement efforts related to the activities of private residents, agriculture/businesses and recreational enthusiasts;
- xvii) Contribute financially to the development and coordination of local/Regional climate change data to ensure consistency in data, objectives and performance measures;
- xviii) Develop a comprehensive financing strategy for the next decade of implementation of the LSPP that is consistent with the principles of the existing financing strategy;
- xix) Re-institute funding for land stewardship programs and retrofits to stormwater management systems;
- xx) Recognize that the current economic challenges related to COVID-19 bring some risk that future progress in achieving LSPP targets and objectives may be set back; and

- C) That a copy of Report #2021-COW-3 of the Commissioners of Planning & Economic Development and Works be forwarded to the Townships of Brock, Scugog and Uxbridge; Lake Simcoe watershed municipalities; Lake Simcoe Region Conservation Authority; Durham Environmental Advisory Committee; Durham Agricultural Advisory Committee; and Durham Region Roundtable on Climate Change.
2. Enterprise Maintenance Management System Project Update (2021-COW-5)
[CARRIED ON A RECORDED VOTE]
- A) That this update on the Enterprise Maintenance Management project be received;
- B) That an amendment to the contract with 6362222 CANADA INC., the system integrator for the implementation of the Enterprise Maintenance Management System, to an overall contract upset limit of \$5,785,000* be approved; and
- C) That the Commissioner of Finance be authorized to execute any amendments to the agreement in a form acceptable to the Corporate Services Department – Legal Services.
*includes all fees and are before applicable taxes.

Moved by Councillor Marimpietri, Seconded by Councillor Leahy,
(83) That the recommendations contained in Item 1 of Report #2 of the Committee of the Whole be adopted.
CARRIED

Moved by Councillor Marimpietri, Seconded by Councillor Leahy,
(84) That the recommendations contained in Item 2 of Report #2 of the Committee of the Whole be adopted.
CARRIED ON THE FOLLOWING
RECORDED VOTE:

Yes

Councillor Anderson
Councillor Ashe
Councillor Barton
Councillor Carter
Councillor Chapman
Councillor Crawford
Councillor Dies
Councillor Drew
Councillor Foster
Councillor Grant
Councillor Highet
Councillor Kerr

No

Councillor Joe Neal

Councillor Leahy
Councillor Lee
Councillor Marimpietri
Councillor McLean
Councillor Mitchell
Councillor Mulcahy
Councillor John Neal
Councillor Nicholson
Councillor Pickles
Councillor Roy
Councillor Ryan
Councillor Smith
Councillor Wotten
Councillor Yamada
Regional Chair Henry

Members Absent: Councillor Collier

Declarations of Interest: None

10. Notice of Motions

- 10.1 Motion to Permit the Finance and Administration Committee and Committee of the Whole to Meet During the Rescheduled March Break to the week of April 12, 2021

[CARRIED]

Moved by Regional Chair Henry, Seconded by Councillor Foster,
(85) Subject to a 2/3rds majority vote, that due to circumstances arising from the COVID-19 pandemic and the rescheduling by the Province of March Break to the week of April 12, 2021, the rules of procedure be suspended in order to permit the Finance and Administration Committee and Committee of the Whole to meet during the week of April 12, 2021.
CARRIED ON A 2/3rds VOTE

Moved by Councillor Yamada, Seconded by Councillor Leahy,
(86) That Council dispense with notice in order to introduce a new motion.

CARRIED on a 2/3rds VOTE

- 10.2 Motion to Add Pharmacies in Durham Region to the Government of Ontario's Pilot Project to Deliver the AstraZeneca Vaccine

[CARRIED]

Moved by Councillor Yamada, Seconded by Councillor Leahy,
(87) Whereas the Biden administration is finalizing plans to send 1.5 million doses of the AstraZeneca COVID-19 vaccine to Canada as a loan;

And whereas according to the Government of Canada's Covid-19 tracker, at approximately 10:00 AM on March 24, 2021, 4,327,334 doses had been administered. In addition, 3,688,286 of Canadians have received at least one dose of an approved COVID-19 vaccine. 639,048 Canadians are fully vaccinated against COVID-19, having received both required doses;

And whereas according to the Government of Ontario, 325 pharmacy sites, including Shoppers Drug Mart, Rexall and independent pharmacies, offer the AstraZeneca vaccine to eligible Ontarians 60-65 in Toronto, Windsor-Essex, and Kingston, Frontenac, Lennox & Addington;

And whereas ensuring that Durham Region residents have local access to vaccines is crucial to mitigating the spread of COVID-19;

Therefore be it resolved that:

Pharmacies in Durham Region be added to the Government of Ontario's pilot project immediately; and

That a copy of this motion be sent to the Premier of Ontario, the Minister of Health, Ontario Opposition Leaders, Durham Region MPPs and all eight local municipal Councils.

CARRIED

11. Unfinished Business

There was no unfinished business to be considered.

12. Other Business

- 12.1 Litigation Update Regarding the Host Community Agreement Dispute with the Municipality of Clarington (2021-A-6)
[CARRIED ON A RECORDED VOTE]

Moved by Councillor Ashe, Seconded by Councillor Crawford,

(88) A) That Report #2021-A-6 of the Commissioner of Corporate Services be received for information; and

- B) That external legal counsel be retained as set out in the attached Confidential Memorandum (Attachment #1 to Report #2021-A-6) to provide litigation advice and counsel in respect of the Host Community Agreement Dispute with the Municipality of Clarington.

CARRIED ON THE FOLLOWING
RECORDED VOTE:

<u>Yes</u>	<u>No</u>
Councillor Ashe	None
Councillor Barton	
Councillor Carter	
Councillor Chapman	
Councillor Crawford	
Councillor Dies	
Councillor Drew	
Councillor Grant	
Councillor Highet	
Councillor Kerr	
Councillor Leahy	
Councillor Lee	
Councillor Marimpietri	
Councillor McLean	
Councillor Mitchell	
Councillor Mulcahy	
Councillor John Neal	
Councillor Nicholson	
Councillor Pickles	
Councillor Roy	
Councillor Ryan	
Councillor Smith	
Councillor Wotten	
Councillor Yamada	
Regional Chair Henry	

Members Absent: Councillor Collier
Councillor Joe Neal

Declarations of Interest: Councillor Anderson
Councillor Foster

12.2 Appointment of Councillor John Grant to Planning & Economic Development
Committee

[CARRIED]

Moved by Councillor Smith, Seconded by Councillor Ryan,
(89) That Councillor John Grant be appointed as a member of the Planning &
Economic Development Committee.
CARRIED

13. Announcements

Various announcements were made relating to activities and events within the
Region and area municipalities.

14. By-laws

12-2021 Being a by-law to authorize the execution of an agreement with Her Majesty the Queen in right of the Province of Ontario as represented by the Minister of Transportation for the Safe Restart Agreement – Phase 2 Municipal Transit Funding.

This by-law implements the recommendations contained in Item #3 of the 7th Report of the Finance & Administration Committee presented to Regional Council on October 28, 2020

Moved by Councillor Ashe, Seconded by Councillor Lee,
(90) That By-law Number 12-2021 be passed.

CARRIED

15. Confirming By-law

13-2021 Being a by-law to confirm the proceedings of Regional Council at their meeting held on March 24, 2021.

Moved by Councillor Ashe, Seconded by Councillor Lee,
(91) That By-law Number 13-2021 being a by-law to confirm the proceedings of the Council of the Regional Municipality of Durham at their meeting held on March 24, 2021 be passed.

CARRIED

16. Adjournment

Moved by Councillor Grant, Seconded by Councillor Kerr,
(92) That the meeting be adjourned.

CARRIED

The meeting adjourned at 1:51 PM

Respectfully submitted,

John Henry, Regional Chair & CEO

Ralph Walton, Regional Clerk



The Regional Municipality of Durham Report

To: Finance and Administration Committee
From: Chief Administrative Officer
Report: #2021-A-3
Date: March 9, 2021

Subject:

2021 Climate Change Update and Corporate Climate Action Plan

Recommendation:

That the Finance and Administration Committee recommends to Regional Council that it:

- A) Approve new short, medium, and long-term targets to reduce corporate greenhouse gas (GHG) emissions, namely:
- 20 per cent GHG emissions reduction by 2025, below 2019 levels,
 - 40 per cent GHG emissions reduction by 2030, below 2019 levels,
 - 100 per cent GHG emissions reduction by 2045, below 2019 levels.
- B) Approve the Durham Region Corporate Climate Action Plan which identifies how climate change considerations will be embedded across all elements of Regional business, included as Attachment #1, and as outlined in this report;
- C) Endorse 2025, 2030 and 2050 community GHG emissions targets, as outlined in this report;
- 10 per cent GHG emissions reduction by 2025, below 2019 levels,
 - 30 per cent GHG emissions reduction by 2030, below 2019 levels,
 - 100 per cent GHG emissions reduction by 2050, below 2019 levels.
- D) That a copy of this report and the Durham Region Corporate Climate Action Plan be sent to local area municipalities, the Ministry of Environment, Conservation and Parks, the Ministry of Energy Northern Development and Mines, Infrastructure Canada, Environment and Climate Change Canada, the Federation of Canadian Municipalities, and the Association of Municipalities of Ontario (AMO).

Report:**1. Purpose**

- 1.1 This report presents the Corporate Climate Action Plan (the Plan) for consideration and adoption. The Plan responds to Regional Council's declaration of a climate emergency in January 2020 and provides the framework required for Durham Region to reduce GHG emissions associated with Regional corporate operations.
- 1.2 The report includes:
- a. Updates for Regional Council on the results of the 2019 corporate GHG inventory, and progress in implementing the Region's corporate climate change initiatives since the 2018-2019 Climate Change Update Report to Council (Report #2019-A-34);
 - b. Recommended new short, medium, and long-term GHG emissions reduction targets for the Region of Durham's corporate operations;
 - c. A proposed Corporate Climate Action Plan, which identifies how climate change considerations will be embedded across all elements of Regional business;
 - d. Updates for Regional Council on the results of the 2018 community GHG inventory, and progress in implementing the Region's community climate change initiatives since the 2018-2019 Climate Change Update Report to Council; and
 - e. Recommended updates to short, medium, and long-term community GHG emissions reduction targets for the Region of Durham.

2. Background

- 2.1 Climate change is an unprecedented global social, economic, and environmental challenge. It poses a serious threat to quality of life, jobs and the physical and natural assets upon which Durham Region residents depend. There is broad scientific consensus that human induced GHG emissions in our atmosphere are on track to surpass critical thresholds and pose a significant risk to human well-being. If GHG emissions are not reduced soon, communities around the world are expected to be impacted by more floods, windstorms, heat waves, and wildfires which will erode social systems, impact natural resources, damage communities and ecosystems, and limit our ability to respond and recover.
- 2.2 Analysis conducted in 2019 as part of Durham's Future Climate Study indicates that Durham Region will not be immune to these climate impacts. Temperatures in Durham Region have already increased between 1 to 2°C since the middle of the

20th century and, under a “business as usual” trajectory, the warming trend is projected to continue. By the 2050’s, average annual temperatures are projected to rise by an estimated 3°C in Durham Region over mid-20th century levels, leading to a dramatic increase in extreme heat and precipitation events which will exacerbate existing health risks for vulnerable residents. Without mitigation measures, these conditions may disrupt critical infrastructure systems leading to economic impacts. Expected economic and environmental impacts underscore the urgency to address GHG emissions in Durham Region as part of the collective global effort to address the climate crisis.

- 2.3 Although current climate trends are alarming, there is great economic opportunity in advancing expeditiously towards a low-carbon future, including job creation, cost savings, air quality improvements, and more comfortable and durable buildings and infrastructure. Modelling conducted as part of the Durham Community Energy Plan’s low carbon pathway to 2050 indicated upwards of \$20 billion in cumulative energy cost savings from reduced energy consumption, and 210,000 direct person years of employment generated as a result of low carbon investments.¹

3. Previous Reports and Decisions

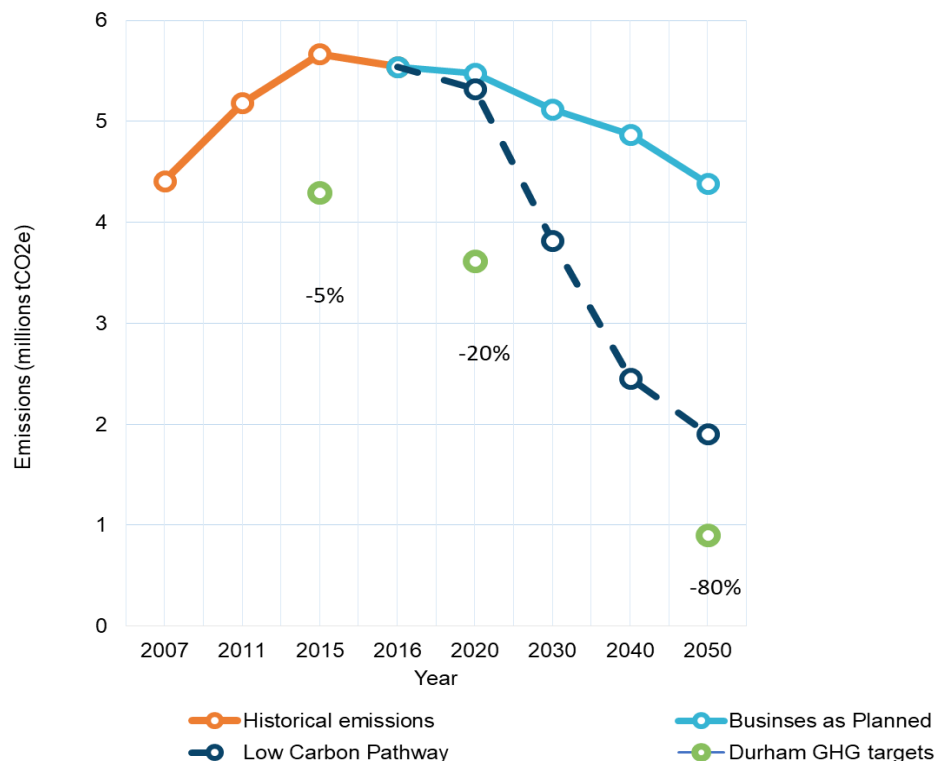
- 3.1 Regional Council declared a climate emergency in January 2020 for the purposes of naming, framing, and deepening our commitment to protecting our economy, our ecosystems, and our communities from climate change. This declaration was a key decision point in more than a decade of Regional Council decisions supporting the need to focus on climate action as a critical priority guiding Regional policy, investment, and operations.
- 3.2 In 2009, Regional Council:
- a. Unanimously adopted the position that: “Scientific evidence overwhelmingly supports the conclusion that human activities are fundamentally altering the conditions for life on earth. Climate change and associated global warming is recognized as a severe threat to global systems with the potential for catastrophic outcomes” (Report #2009-J-37); and,
 - b. Directed that corporate climate change initiatives be integrated into the Region’s Businesses Planning and Budgets, Asset Management, and Risk Management programs, processes, and reporting requirements.
- 3.3 In 2010, Regional Council adopted community GHG emission reduction targets consistent with the Intergovernmental Panel on Climate Change (IPCC) consensus on levels of decarbonization necessary to limit global warming to below 2°C and prevent catastrophic climate change (Report #2010-J-24):

¹ Durham Region (2019). *Durham Community Energy Plan*. Page 3. Available online: <https://www.durham.ca/en/citystudio/resources/Durham-Community-Energy-Plan-Part-1.pdf>

- 5 per cent below 2007 levels by 2015,
- 20 per cent below 2007 levels by 2020,
- 80 per cent below 2007 levels by 2050.

- 3.4 In 2011, Regional Council approved both the implementation of annual Climate Change Update reporting and a corporate climate change operational protocol to ensure a robust, repeatable, consistent, and verifiable corporate carbon footprint (2007 baseline) and the ongoing monitoring of climate change and the carbon implications of Regional programs, plans, and initiatives (Report #2011-J-26).
- 3.5 In 2012, Regional Council endorsed the Durham Community Climate Change Local Action Plan (LAP) (Report #2012-J-32) which established a long-term vision of “Durham Region is a carbon-neutral, sustainable, prosperous and resilient community with a high quality of life” and a mission to “work with our community to develop and advocate innovative policies, strategies and actions that address the threat of climate change.”
- 3.6 Implementation of programs outlined in the LAP was limited, as evidenced by Figure 1 showing the trend of community wide GHG emissions to 2016 against the targets adopted by Regional-Council in 2010 (shown as green dots).

Figure 1 - Durham Community-wide GHG emissions (Historical & Future Projections)



- 3.7 In 2014, Regional Council approved the Region's first Climate Five-year Adaptation Plan, subsequently updated through the Business Planning Cycle, including Asset Management Planning (Report #2014-J-1).
- 3.8 In 2016, Regional Council approved the Durham Community Climate Adaptation Plan which included 18 proposed programs across seven theme areas to address resilience to climate impacts (Report #2016-COW-103).
- 3.9 In 2019, Regional Council approved:
 - a. the Durham Community Energy Plan, which included a modelled Low Carbon Pathway based on the implementation of six priority programs (Report #2019-A-19). These two plans replaced the 2012 LAP as the guiding documents for community climate action in Durham Region, and;
 - b. the Region's Asset Management Policy, which commits to consideration of climate adaptation and mitigation as a key aspect of Asset Management Planning (Report #2019-COW-16).
- 3.10 In February 2020 Council directed staff to develop a Low Carbon Fleet Strategy, (Notice of Motion 9.1) as part of the Corporate Climate Action Plan.
- 3.11 In June 2020 Regional Council approved an investment plan for the \$5 million Climate Mitigation and Environmental Initiatives reserve fund, (Report #2020-A-14), as well as a proposed conceptual program design for the Durham Home Energy Savings Program (D-HESP) (Report #2020-A-12).

4. Corporate Energy and Emissions Update

- 4.1 Durham Region has taken concrete steps to reduce corporate GHG emissions since the last Climate Change Update Report was presented to Council in November 2019. Key initiatives of note include:
 - a. Investment in electric buses – As part of an electric bus pilot project Durham Region Transition (DRT) is developing specifications for battery electric buses and charging infrastructure, together with key project components such as training, re-tooling, software, and performance monitoring, all of which are essential steps to support the procurement of the vehicles in 2021 and to prepare for their launch in 2022. DRT staff plan to complete a full electric vehicle feasibility study in 2021 that addresses the facility infrastructure requirements, operating and financial impacts to transition to a fully electric vehicle fleet, including a multi-year vehicle acquisition plan.
 - b. Durham Regional Police Service – Successfully piloted hybrid pursuit vehicles in 2019 and have been procuring hybrid vehicles every year since.
 - c. Electric vehicle (EV) charging infrastructure – As part of a collaborative funding application with Whitby, Clarington, Ajax and Oshawa PUC Networks, the Region has been conditionally approved for \$160,000 in funding from

Natural Resources Canada (NRCan) for the installation of 32 Level 2 EV charging stations across 9 Regional facilities. Installation is expected to be complete by the end of 2021, enabling charging of electric vehicles in public spaces and community based GHG emissions reductions.² These new EV charging stations are in addition to the six EV chargers previously installed at Headquarters and one at DRT East.

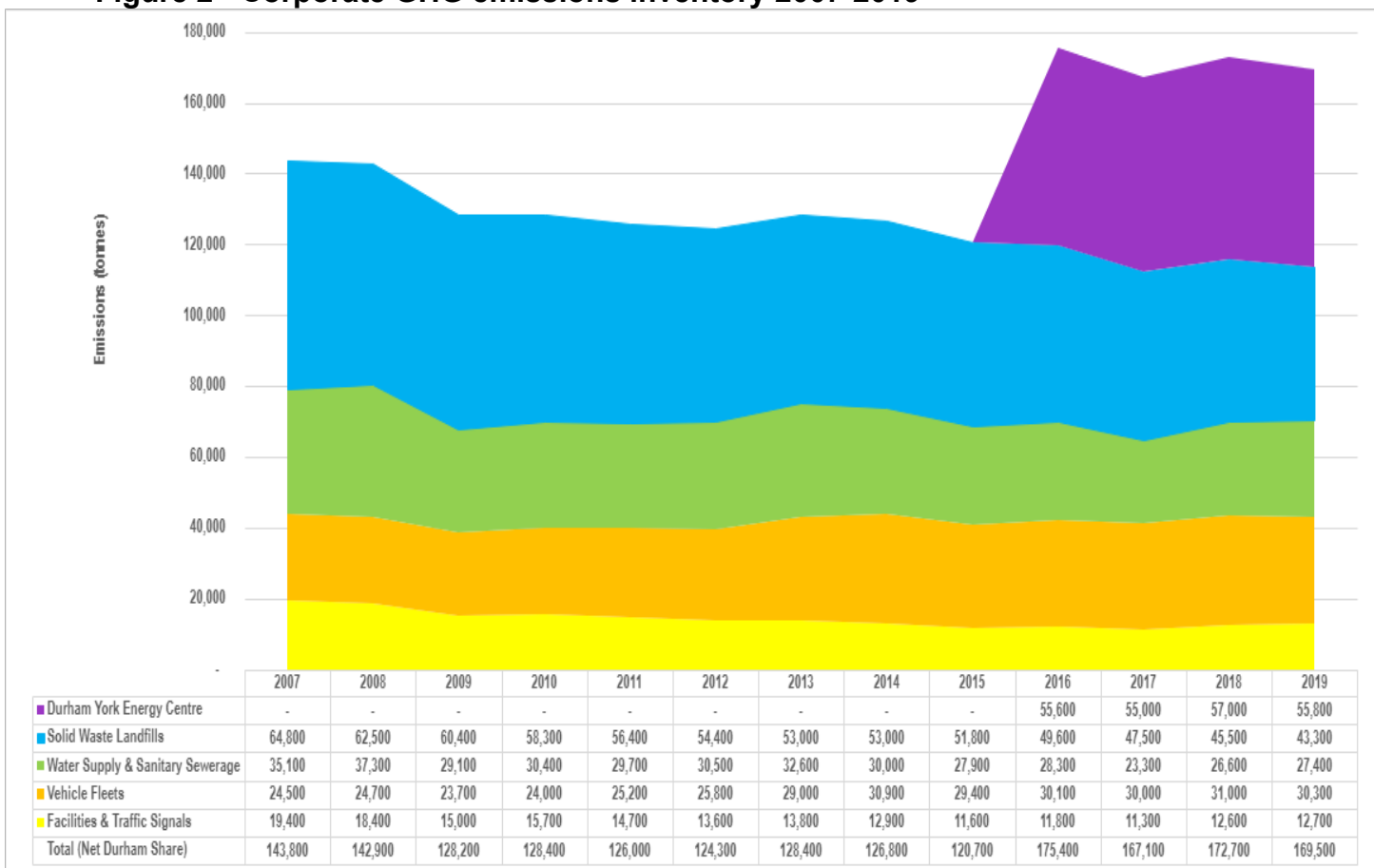
- d. Blackstock landfill mining pilot project - Mining at the Blackstock landfill was completed in January 2019, with final restoration including grading, planting and habitat creation completed in fall 2020. A total of approximately 30,000 metres cubed of waste was removed from the site (Report #2020-INFO-9). With the removal of waste from the site, the landfill GHG emissions from 2020 onward are now assumed to be zero.
- e. Facilities retrofits – 155 King St, Oshawa (DRLHC Seniors Building) – A comprehensive building envelope upgrade combined with low carbon mechanical systems is projected to reduce electricity consumption by 62 per cent. The retrofit is projected to reduce natural gas consumption by 80 per cent, resulting in GHG emissions reductions of 137 tonnes of CO₂e per year.
- f. New facilities – Works Department’s Design Construction and Asset Management (DCAM) Group completed preliminary low carbon designs on four new facilities that are planned to be delivered over the coming years:
 - Beaverton supportive housing project – this new facility is being planned to operate without fossil fuels which would be the first of its kind in the Regional portfolio. A high-performance envelope combined with high efficiency heating and cooling equipment and other interventions mean that this building is projected to operate at close to 20 per cent above Ontario Building Code (OBC) energy requirements. Staff are exploring opportunities for a rooftop solar PV system at the site which would produce close to 20 per cent of annual building energy needs.
 - Region of Durham Paramedic Services Station and Training Facility in Seaton – this facility is being designed with a geothermal heating and cooling system, as well as efficient ventilation, lighting and above-OBC levels of insulation. It is projected that the building’s energy consumption will be reduced by 36 per cent and GHG emissions by 71 per cent as compared to a similar building built to the OBC energy requirements. Staff are exploring the potential for rooftop solar PV generation which would further reduce energy demand and GHG emissions.
 - Clarington Police Complex (CPC) Phase 2 (two buildings) - CPC Phase 2 is being designed with a highly efficient building envelope, low carbon

² Total NRCan funding under the contribution agreement is \$296,408 for 60 EV charging stations across all co-applicant locations.

heating and cooling systems (including geothermal) and rooftop solar PV electricity generation. At a minimum, the design-based case specifications are required to meet OBC; however, design components were improved where possible. It is projected that these buildings will reduce energy consumption by approximately 35 per cent, GHG emissions by 70-80 per cent and energy costs by 55 per cent as compared to OBC minimum required performance.

- 4.2 Many of these investments are supported by capital funding available through the Region's Climate Mitigation and Environmental Initiatives Reserve Fund, as well as leveraged funding from senior government sources, as outlined in Attachment #2 and #3.
- 4.3 An update of the Corporate GHG Inventory is provided in Figure 2. This graph provides historical corporate GHG emissions grouped by sector, noting the tonnes of carbon dioxide equivalent (tCO₂e) for 2007 to 2019. The preliminary 2019 data will serve as the baseline for evaluating future progress towards proposed corporate GHG emissions targets.

Figure 2 - Corporate GHG emissions inventory 2007-2019

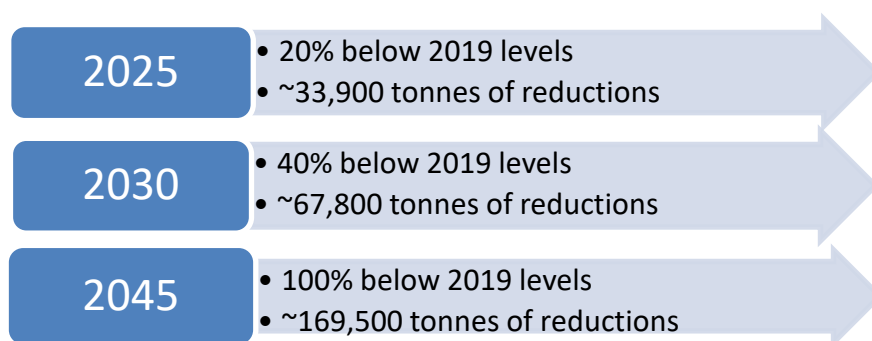


- 4.4 Overall, the corporation has made substantial progress with GHG reductions in key areas. From 2007 to 2015, the Region decreased GHG corporate emissions by 25,600 tCO₂e or 15.9 per cent, due to energy and fossil fuel avoidance as well as the provincial phase out of coal-powered plants in 2013-2014, which reduced corporate-wide electricity-related emission intensity.
- 4.5 With Durham York Energy Centre (DYEC) operations beginning in 2016, net corporate GHG emissions rose by 53,700 tCO₂e. However, it is critical to note that DYEC operations largely eliminated long-haul waste trucking to and disposal in distant landfill sites outside of the Region. The related emissions avoidance and reductions are not reflected in the corporate GHG inventory due to the chosen calculation methodology, including contracted third-party fleet and landfill emissions for managing Region-generated waste are not included in the Region's corporate GHG footprint. Further, landfills are not required to calculate and report on GHG emissions under the Ontario GHG reporting program. A lifecycle analysis completed by the Region estimates a net GHG reduction benefit associated with DYEC as compared to the landfill disposal alternative (see Attachment #4). Nonetheless, waste management operations present a long-term challenge for corporate decarbonization that will require innovative solutions.

5. Recommended Corporate GHG reduction targets

- 5.1 As part of Council's climate emergency declaration, staff were directed to establish recommended short-term, medium-term, and long-term GHG reduction targets for the Regional corporation that position Durham Region as a leader in the effort to reduce GHG emissions.
- 5.2 While emissions from Regional operations are a small percentage of overall GHG emissions in Durham Region (estimated at approximately three per cent of total), Regional capital investment and service provision plays a critical role in influencing community wide GHG emissions. Leading by example is necessary to set the pace, spur innovation, and catalyze community action. The Plan includes a long-term corporate target to achieve net zero emissions reductions by 2045. This target aligns with the federal government target as well as leading public and private sector organizations.
- 5.3 Figure 3 identifies the short- and medium-term targets that the Region would need to meet to stay on a trajectory to achieve the net zero by 2045 target. Numerical values are subject to change over time.

Figure 3 - Durham Region Corporate GHG emissions reduction targets



5.4 In support of this recommended reduction pathway, Regional staff have identified and are investigating potential short-term GHG emissions reduction opportunities to support achievement of the proposed 2025 target as outlined in Figure 4.

Figure 4 - Potential Short-term Corporate GHG Reduction Priorities to 2025

Operating Area	GHG Reduction Initiative(s)	Potential GHG reduction impact by 2025
Solid Waste	Internal utilization of renewable natural gas generation from anaerobic digestion and other Regional processes (e.g. sanitary sewerage)	0-7,500 tCO ₂ e
Solid Waste	Landfill biocover pilot	12,000 tCO ₂ e
Facilities	Deep energy retrofits of existing DRLHC buildings in corporate portfolio (155 King St., Oshawa, 850 Green St. Whitby, 655 Harwood Ave., Ajax, 315 Colborne St., Whitby, and 1910 Faylee Cres., Pickering)	1,000-2,000 tCO ₂ e
Fleet – Four Fleet Groups including Paramedics, Police, Transit, and Works	Pursue battery electric and hybrid electric vehicles for all corporate-owned fleets, where operationally feasible. With an estimated baseline of approximately 28,500 tCO ₂ e in 2019, this target represents a 7% to 14% GHG reduction by 2025.	2,000-4,000 tCO ₂ e
Total		15,000– 25,500 tCO₂e
GHG emissions reduction target		33,900 tCO₂e
% of target		44% to 75%

- 5.5 Assuming successful implementation of these potential opportunities, the Region will have achieved between 44 to 75 per cent of its 2025 target. The above initiatives as well as additional GHG emissions reduction opportunities will be identified through subsequent asset level decarbonization studies and be coordinated as part of the Annual Business Planning and Budget Cycle and Asset Management Plan and be subject to approval as part of the annual Business Plans and Budgets.

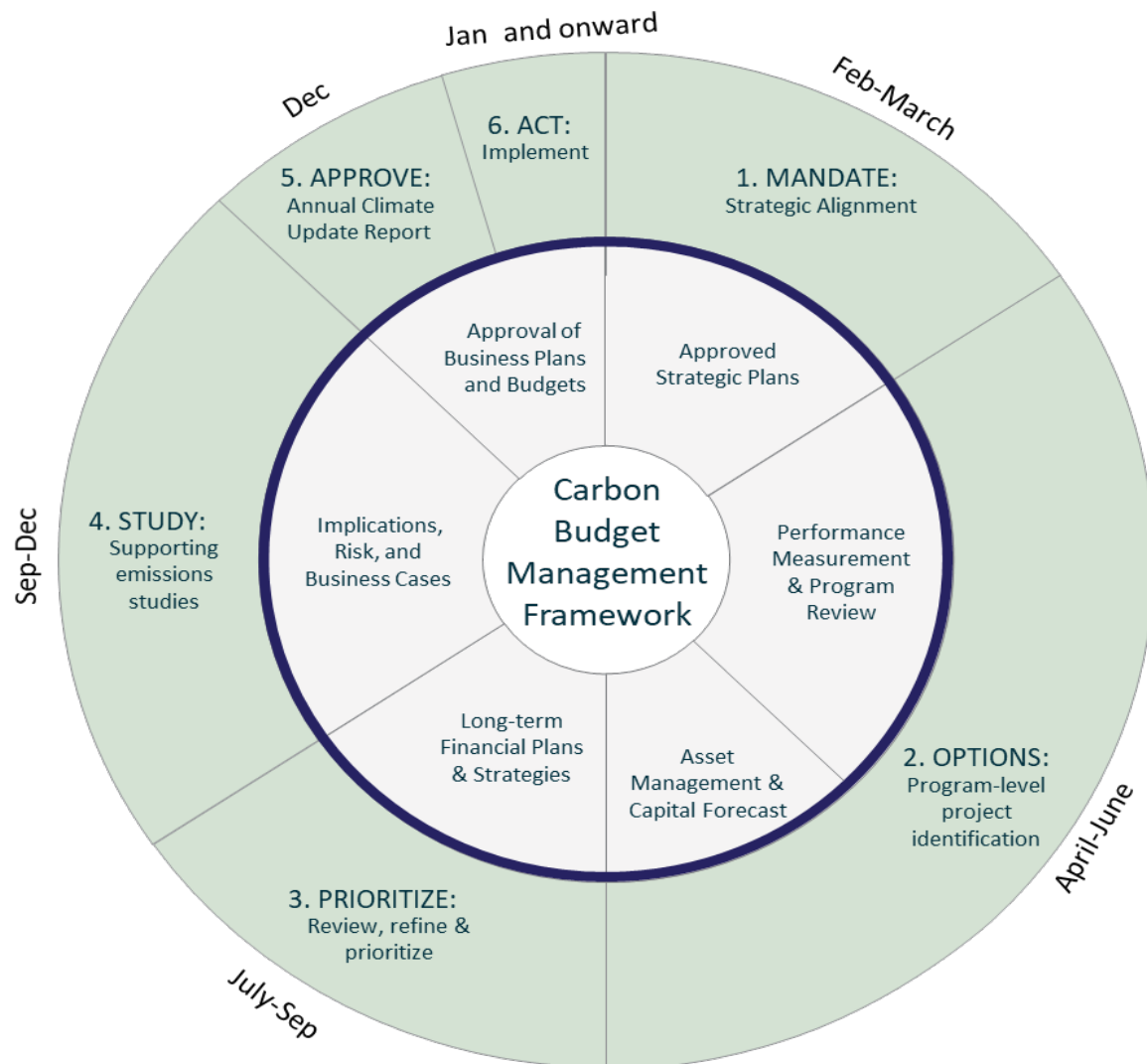
6. Corporate Climate Action Plan

- 6.1 The Corporate Climate Action Plan proposes a comprehensive approach to reducing GHG emissions from the Region's corporate operations.
- 6.2 As identified by the IPCC, significant action and investment are required in the next 10 years. The next five years are critical to putting Durham Region on the path to meet GHG emissions reduction targets. The Plan identifies a total of five priority actions for the next five years (2021-2025) that can be embedded into Regional operations:
- a. Establish a carbon budget management framework that formalizes climate lens in capital investment planning and forecasting, and robust annual monitoring and reporting of progress against Council-approved targets.
 - b. Implement a strategic governance framework to further build corporate capacity, align priorities, and share accountability in meeting the Region's targets.
 - c. Continue to improve asset portfolio standards and policies in facilities and fleet to support systemic decarbonization; pursue viable pacesetter pilot projects across corporate GHG sectors to close the gap to near and mid-term corporate GHG targets (see Figure 4 above for examples).
 - d. Continue to leverage senior government funding and consider innovative financing and risk management approaches as part of a corporate climate financing strategy, once related five-year operational and 10-year capital and operational plans are developed, assessed, and costed. Attachment #3 provides an overview of recently leveraged funding.
 - e. As part of the revitalization of the Durham Strategic Energy Alliance (DSEA), lead the creation of a Corporate Energy Managers community of practice to share successes and lessons learned across Durham-based organizations with a low carbon or net zero mandate. Corporately, Regional staff can learn about local best practices, showcase successes, and potentially collaborate on green technologies.
- 6.3 The CCAP provides a framework for addressing climate mitigation and GHG reductions. Future iterations of the Plan will also integrate corporate climate

adaptation and resilience as part of a renewal of the Corporate Climate Adaptation Plan.

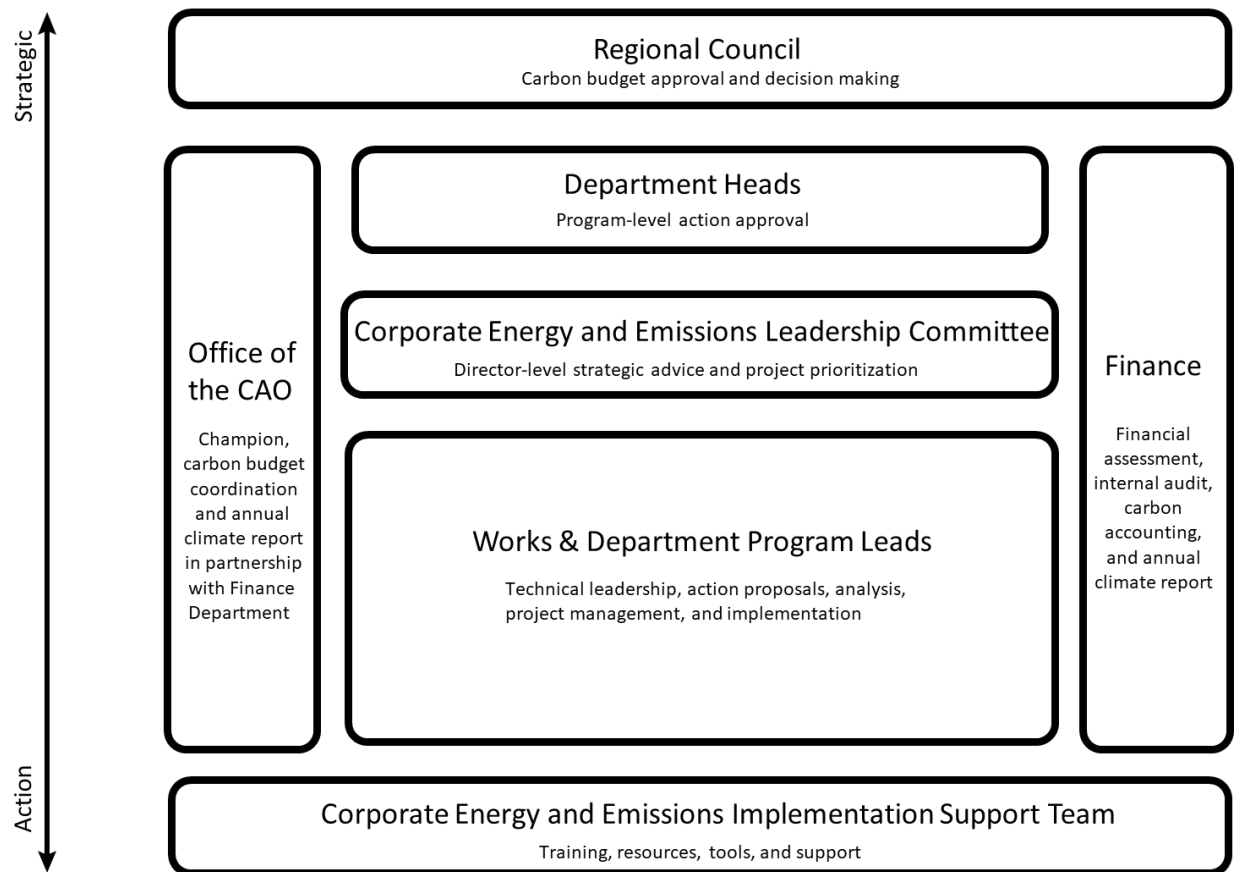
- 6.4 The Plan, provided in Attachment #1, includes the following key procedural elements:
- Corporate GHG emissions reduction targets outlined above in Section 0.
 - Carbon Budget Management Framework, designed to integrate with the annual business planning and budget cycle, as outlined in Figure 5 below and described in more detail in the attached Plan. While the carbon budget management framework is positioned as an annual process, it is recognized that most projects will likely require multiple years to plan, study, procure, design, and implement and therefore that realized emissions reductions will increase over time.

Figure 5 - Proposed Durham Carbon Budget Management Framework



- c. The governance structure of the Carbon Budget Management Framework including roles and responsibilities for Regional staff and Council, is outlined in Figure 6 below. Additional Regional staff resources will likely be required to fully implement the proposed governance structure, including technical expertise in Works department to manage low carbon facilities retrofits and fleet electrification infrastructure integration.

Figure 6 - Carbon Budget Implementation Governance Structure



6.5 In addition to these procedural and governance elements, the Plan provides recommendations on the decarbonization pathway for the Region's fleet and facilities portfolios, including:

- a. Solid Waste – Building on the success of the 2018-2019 Blackstock Landfill mining project (see Section 4.1d) implement innovative landfill bio-cover pilot on the closed Oshawa landfill. Staff will continue to investigate the potential to utilize RNG as part of the Region's natural gas purchases as a strategy for achieving material GHG emission reductions in Regional facilities. The investigation will consider RNG volumes, enabling framework, regulatory approval, associated agreements, financial implications and will be the subjective of future Council reports. Furthermore, staff will investigate opportunities to influence emissions related to contracted third party emissions associated with waste haulage.

- b. Facility retrofits – Prioritize deep energy retrofits for facilities with major equipment reaching end of life before 2030 and strive to carry out each action. Aligning with a corporate net zero trajectory would require an average of three to four deep energy retrofits of existing facilities per year, starting in late 2022 (with feasibility studies and design work starting in 2021). Noting that not every facility can accommodate deep retrofits due to inherent limitations, each facility will require an investigation and associated design phase prior to implementation. Project management capacity and expertise within the Works Department Design, Construction and Asset Management (DCAM) Group will be expanded to coordinate and deliver portfolio-wide deep retrofits at a pace required to align with the corporate net zero trajectory.
 - c. Facilities new builds – Finalize the Durham Building Standard, which incorporates recent experience with the design of energy efficient new corporate buildings (see Section 4.1f), and provides updated construction standards to align with corporate carbon reduction commitments and Regional Council approvals.
 - d. Fleet – Given an average estimated 10-year fleet vehicle lifespan, achieve substantial emissions reductions to 2025 and 2030 by shifting annual vehicle procurement (both new and replacement) towards low and zero carbon options, with a focus on fleet electrification, where operationally feasible. In direct support of the Region’s climate commitments, Durham Region fleets will adopt low-carbon mobility solutions, deploy supporting infrastructure in facilities including necessary building system upgrades and modernize fleets with a goal of moving towards 75 per cent of annual average unmodified light duty vehicle purchases being zero carbon or hybrid between 2022-2025, and 100 per cent between 2026-2030. For the Region’s medium and heavy-duty fleets, including DRT’s bus fleet, timelines for electrification require further analysis with a focus on understanding necessary facility infrastructure requirements and operating impacts.
 - e. Water Supply and Sanitary Sewerage Infrastructure – In 2021, the Environmental Services Branch within the Works Department will initiate a study to develop climate action strategies for the Regional water supply and sanitary sewerage systems. These strategies, once developed, will provide a more comprehensive roadmap for GHG emissions management.
- 6.6 The Plan provides direction for the development of a Climate Financing Strategy which will position the Plan’s funding needs in the Region’s ten-year capital forecast. It also seeks to mitigate impacts to the tax base and user rates through pursuit of and advocacy for external funding from senior levels of government and other public and private sector sources.
- 6.7 Finally, the Plan provides direction for the development of a Region-wide Corporate Energy Managers community of practice, as part of a broader Durham Strategic Energy Alliance (DSEA), to encourage knowledge sharing and

collaboration with public and private sector organizations in the Region with a shared decarbonization commitment.

7. Durham Community Energy Plan Update - Implementation Update

7.1 Durham Region has taken concrete steps to drive implementation of the Durham Community Energy Plan (DCEP) since the last Climate Change Update report was presented to Council in November 2019. Key initiatives include:

7.2 Durham Home Energy Savings Program D-HESP (Community Deep Retrofit Program)

- a. Durham Community Energy Plan's Low Carbon Pathway called for retrofits of nearly all the residential, commercial, and institutional buildings in the Region between 2020-2050. The Pathway calls for a focus on deep, whole-building retrofits that deliver 40-50 per cent energy savings.
- b. In 2020, staff developed a conceptual program design for D-HESP which relies on partnerships with local energy utilities, lending institutions, and contractors to deliver a one-stop-shop service platform for homeowners, as outlined in [Report #2020-A-12](#).
- c. In July 2020, the Region applied to the Green Municipal Fund (GMF) for support of program start-up and the initial four years of operations to 2025. In January 2021, the Region received a conditional notification of almost \$1.9 million in grant funding for program administration and \$1.5 million in funding for a loan loss reserve fund to support private sector lending by lending institutions. Staff are negotiating a funding agreement with the GMF, and other necessary agreements with local utilities, lending institutions and other partners to enable program launch in 2021.
- d. This program is anticipated to support more than 1,000 home energy retrofits by 2025 and establish the program architecture to enable scale-up to commercial and institutional building sub-sectors over time.

7.3 E-Mission Electric Vehicle Joint Venture

- a. The Durham Community Energy Plan's Low Carbon Pathway called for a joint strategy between the Region, area municipalities, and utilities to support electric vehicle uptake, including coordinated infrastructure investments, educational activities, and municipal policies relating to charging stations and incentives.
- b. Throughout 2020, Regional staff worked with local municipalities and utilities on two successful rounds of funding applications to NRCan's Zero Emissions Vehicle Incentive Program (ZEVIP).
- c. ZEVIP Round 1 funding will support the installation of 60 publicly available charging stations across the Region, 32 of which are on Regional property.

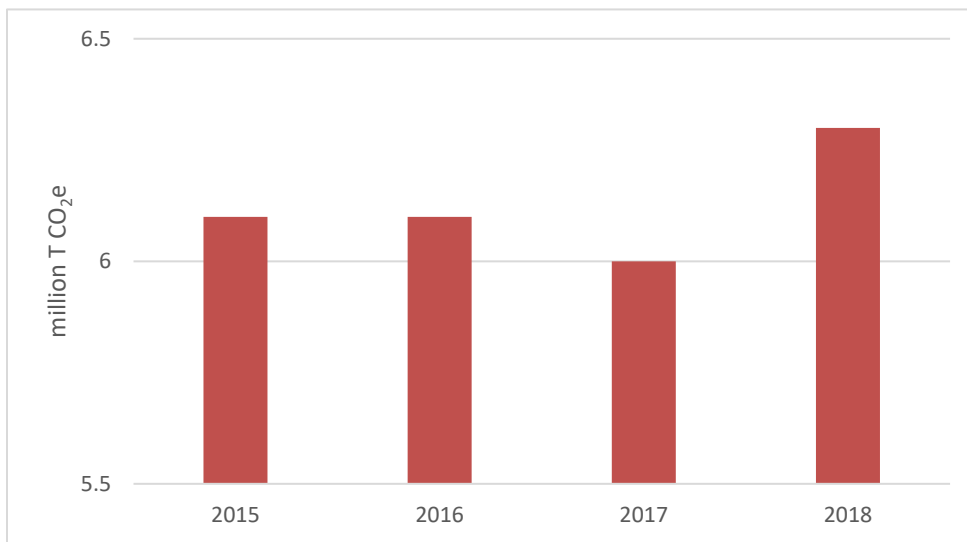
These stations will be installed through 2021 (See Attachment #2 for more details).

- d. ZEVIP Round 3 funding will support the implementation of an education and awareness campaign in collaboration with Oshawa Power and Utilities Corporation (OPUC) and Elexicon Energy. The campaign will include a branded web platform, mobile EV test drive events, and partnerships with local auto dealers to mobilize awareness of EV options for residents.

8. Community GHG Inventory Update

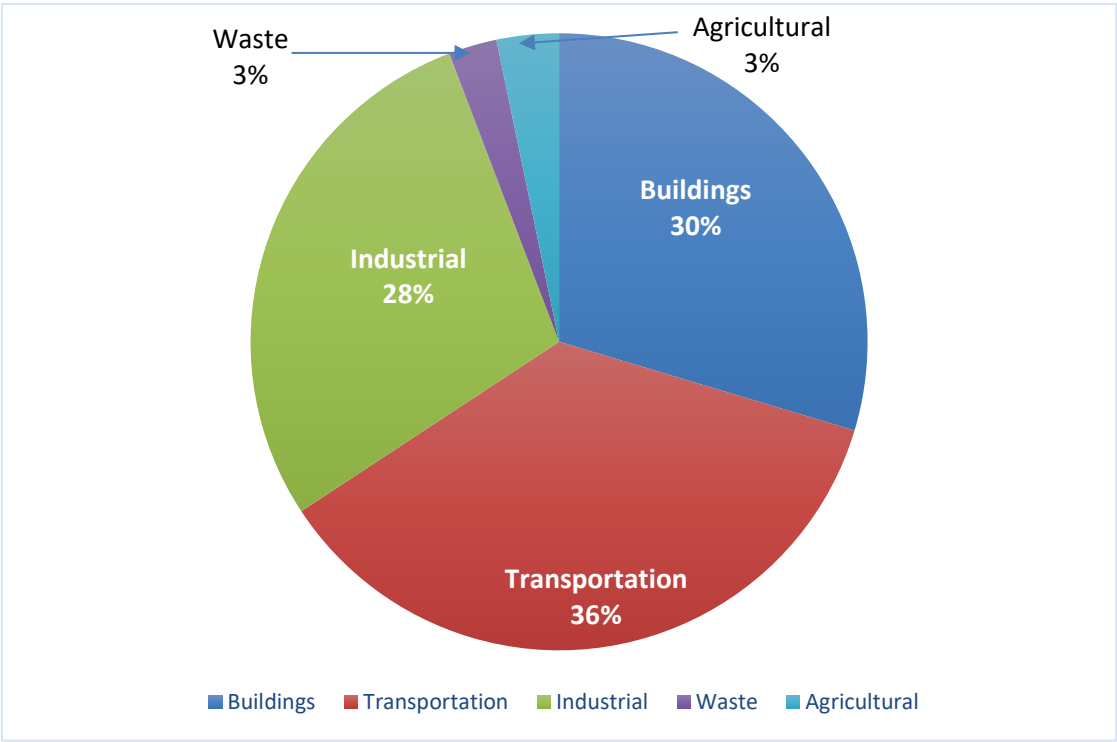
- 8.1 The Atmospheric Fund (TAF) has developed a GHG emissions inventory for the Greater Toronto and Hamilton area, with data at the single-tier and upper-tier municipal level. The most recent version of this inventory, covering 2018 community wide emissions, shows Durham Region emitted 6.3 megatonnes of CO₂e, which represents approximately 5 per cent increase over 2017 levels, largely due to increased energy consumption (natural gas and electricity) (See Figure 7 below).
- 8.2 Note that TAF GTHA inventory data is not directly comparable to the low carbon pathway (Figure 1 in this report) as it includes industrial emissions associated with St. Mary's Cement Facility in Bowmanville which alone was responsible for 1.5 M tCO₂e in 2018.

Figure 7 - Durham Region Community GHG Emissions 2015 - 2018



- 8.3 As shown in Figure 8, the largest sources of community GHG emissions are transportation and buildings, both of which increased between 2017 and 2018, even when normalized for population growth and weather.

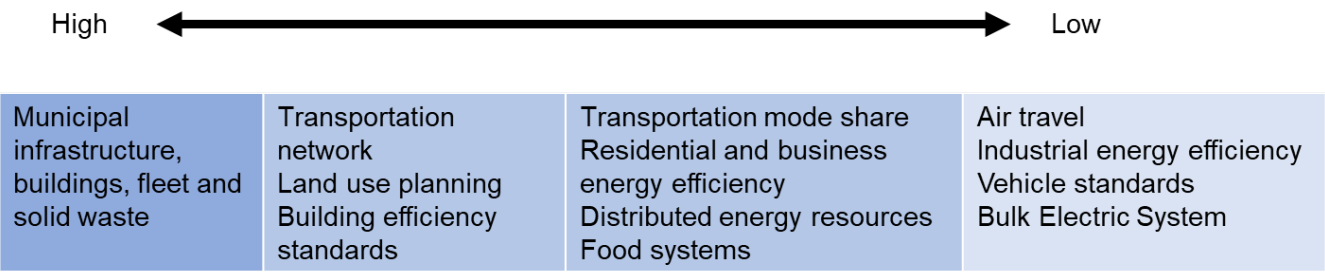
Figure 8 - 2018 Durham Community GHG emissions by sector



9. Proposed Updated Community GHG Reduction Targets

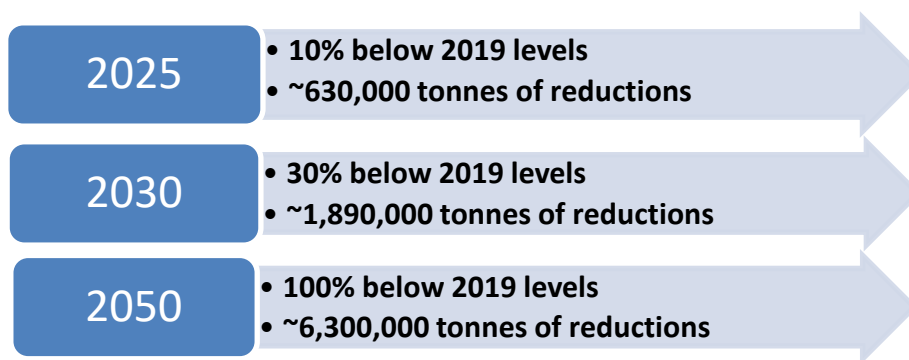
9.1 The Regional Municipality of Durham does not directly control emissions beyond its own operations, but has influence through its role in land use planning (e.g. Regional Official Plan) through the provision of infrastructure (e.g. transit, solid waste, etc.), and through community mobilization initiatives developed in partnership with local area municipalities, and energy utilities (e.g. tree planting, building energy retrofits, etc.) (See Figure 9 below). As part of a broad community mobilization strategy it is recommended that Regional Council continue to set community targets, monitor GHG emissions regularly, and communicate those results to the community. This is consistent with municipal actions across much of the country and responds to the IPCC’s call for action.

Figure 9 - Regional Corporate Influence over GHG Emissions



- 9.2 Durham's current community GHG reduction targets, referenced in Section 3.3, were set prior to the Paris Agreement and the release of the IPCC's Special Report on Global Warming of 1.5°C. Furthermore, the recently passed Canadian Net Zero Emissions Accountability Act legally binds the federal government to a process to achieve net zero emissions by 2050.
- 9.3 As directed by Regional Council's climate emergency declaration and presented in Figure 10, community GHG emission reduction targets are recommended to be aligned the Region's corporate targets and those set by senior levels of government.³ It is recognized that meeting these community targets will require sustained policy and investment by all levels of government and community stakeholders, including residents, businesses, large industry, and broader public sector entities.

Figure 10 - Proposed Revision to Community-wide GHG emissions reduction targets



10. Next Steps and Reporting

- 10.1 Over the next five years, Regional staff will advance projects aligned with the Corporate Climate Action Plan (CCAP), the DCEP, and the Energy CDM Plan (2020-2024). To lead the way, staff will bring reports to relevant committees on the five-year priority projects, as required.
- 10.2 In addition to individual project reports, staff will provide an annual update on the CCAP and DCEP that includes:
- Annual corporate and community GHG inventories;
 - An assessment of how the Region is tracking towards community and corporate targets;
 - An update on the identified corporate and community implementation priorities;

³ The Government of Ontario has established a target to reduce emissions by 30 per cent below 2005 levels by 2030. The Federal Government has established a legislated target of net zero emissions by 2050.

- d. Recommendations to advance additional identified priorities to close the gap to the 2025 corporate and community GHG reduction targets; and
 - e. Budget, staffing, resource pressures and challenges. Any associated funding/budget considerations will be brought forward as part of the annual business planning and budget process.
- 10.3 Detailed estimates of financial resources required to implement the GHG targets are being developed. Specific projects to address the corporate GHG reduction targets are being identified as part of the Region's five year operating and ten-year capital forecast. Finance staff will continue to develop a financing strategy for Council's consideration as part of the annual business planning and budget process, that continues to leverage available senior government funding and considers innovative financing and risk management approaches aligned with affordability, operational, and environmental objectives.
- 10.4 A full review and update of the CCAP, including the guiding principles, GHG emission reduction targets, and priority actions will be completed in 2025. At the same time, the Durham Community Energy Plan (DCEP) and Durham Community Climate Adaptation Plan will be reviewed with a view to merging the three action plans into one comprehensive document.
- 10.5 [Durham's climate change website](https://durham.ca/ClimateChange) (durham.ca/ClimateChange) will link to updated documents as they are approved. Where possible, relevant data will be made available through the Region's Open Data portal to ensure transparency of information.

11. Consultation

- 11.1 The Corporate Climate Action Plan was developed over a 10-month process with input from Regional staff from the CAO's Office, Works, Finance, Planning and Economic Development, Health and Social Services departments, as well as Durham Region Transit, and Durham Regional Police and Paramedic Service.
- 11.2 Staff made four presentations throughout the latter half of 2020 to the Works, Finance, Corporate Services and Social Services departmental leadership teams.
- 11.3 Staff from the Office of the CAO and Finance Department met regularly through Q1 2021 to identify and operationalize opportunities to align the carbon budget management framework with the annual business planning and budget process to ensure efficiency and integration for business units across the corporation.

12. Relationship to Strategic Plan

- 12.1 This report addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Goal 1 - Environmental Sustainability
 - Priority 1.1: Accelerate the adoption of green technologies and clean energy solutions through strategic partnerships and investment;

- Priority 1.4: Demonstrate leadership in sustainability and addressing climate change;
- Priority 1.5: Expand sustainable and active transportation.

13. Conclusion

- 13.1 In response to Regional Council's 2020 declaration of a climate emergency, this report provides recommended responses in the form of:
- a. GHG emissions reduction targets for the Regional corporation that position it as a leader in the community-wide effort to mitigate climate change;
 - b. A Corporate Climate Action Plan that identifies how climate change considerations will be embedded across all elements of Regional business;
 - c. Near-term implementation priorities for the next five years to support achievement of the proposed 2025 corporate GHG reduction target; and
 - d. Updated community targets, based on the modelling conducted for the DCEP, and aligned with federal government's recently legislated net zero by 2050 commitment.
- 13.2 For additional information, contact: Ian McVey, Manager, Sustainability, at 905-668-7711, extension 3803.

14. Attachments

Attachment #1: Durham Region Corporate Climate Action Plan

Attachment #2: Climate Initiatives Investment Update

Attachment #3: External funding confirmed by the Region between Nov 2019-February 2021 to enhance Climate Projects

Attachment #4: Realized Benefits of the Durham York Energy Centre and Government Positions Supporting Energy-from-Waste

Respectfully submitted,

Original signed by

Elaine C. Baxter-Trahair
Chief Administrative Officer

Attachment #1

Durham Region Corporate Action Plan

Presented as a second document.

Attachment #2

Summary of Climate Mitigation and Environmental Initiatives Reserve Fund

Project	Details	Proposed Investment
Corporate high-performance new buildings	Incremental additional investment to meet net zero energy performance in new corporate facilities	Project Allocation \$2,250,000
Seaton RDPS Station	Proposed installation of a geothermal system with an estimated incremental cost of \$745,000 and installation of solar panels at a cost of \$162,000 over the base design.	\$907,000
Durham Region Police Service Clarington Phase 2 Project	Allocation for envelope and HVAC measures.	\$1,342,700
Remaining funds uncommitted		\$300
Retrofits of existing corporate facilities	Rooftop solar, energy audits, social housing retrofits	Project Allocation \$1,750,000
Social housing project	Focus on DRLHC multi-unit seniors' buildings with opportunity to leverage FCM Social Affordable Housing program funding. Projects in scoping phase include: 850 Green St, 655 Harwood, 315 Colborne, 1910 Faylee.	\$500,000
Landfill biocover pilot project	Development and implementation of a landfill biocover project at the Oshawa landfill.	\$500,000
Remaining funds uncommitted		\$750,000
Community-wide deep energy retrofits of existing community buildings	Launch of Durham Home Energy Savings Program	Project Allocation \$350,000
Durham – Home Energy Saving Program	Leverage funding to secure ~\$1.9m in FCM Green Municipal Fund grant & \$1.5m loan loss reserve fund.	\$350,000
Remaining funds uncommitted		\$0

Project	Details	Proposed Investment
Region-wide nature-based climate solutions program	Enhance tree planting and stewardship programs in partnership with Conservation Authorities and non-profit partners (e.g. Forests Ontario, Highway of Heroes Tree Campaign)	Project Allocation \$500,000
Tree Planting Program	Partnership with 5 Conservation Authorities to expand private land tree planting with a goal of 740,000 trees planted by 2025.	\$439,000
Remaining funds uncommitted		\$61,000
Adaptation studies	Urban flood risk vulnerability assessment and public health climate vulnerability assessment	Project Allocation \$150,000
Adaptation and risk assessment	50% municipal and 50% federal funding through Natural Disaster Mitigation Fund (subject to Federal Government approval)	\$130,000
Remaining Funds Uncommitted		\$20,000
Total Project Budgets Committed		\$4,168,700
Total Project Budgets Uncommitted		\$831,300
Total Funding		\$5,000,000

Attachment #3

External funding confirmed by the Region between November 2019 - February 2021 to enhance Climate Projects

Project	Funding Source	Funding Details	Funding Amount
Durham Region Transit Electric Bus Pilot	2019 Federal Gas Tax	In November 2019, Durham Region Council committed \$10.1 million in federal gas tax funding towards DRT's first battery electric buses and charging infrastructure.	\$10,100,000
	The Atmospheric Fund (TAF)	In May 2020, TAF awarded \$195,000 over two years for the "Scaling-up to Zero Emission Transit in Durham Region" to support DRT in advancing their electric bus project.	\$195,000
Durham Home Energy Savings Program (D-HESP)	The Atmospheric Fund (TAF)	In February 2020 TAF awarded \$68,000 to support the development of the D-HESP conceptual model, and FCM funding application.	\$68,000
	Federation of Canadian Municipalities' (FCM) Community Efficiency Fund	To support the implementation of the 4-year D-HESP with a loan guarantee up to \$1,500,000 combined with a \$1,889,470 grant for the Durham Home Energy Savings Program.	\$1,889,470
Adaptation and Risk Assessment	Natural Disaster Mitigation Fund	50% municipal and 50% federal funding through Natural Disaster Mitigation Fund.	\$130,000
Purchase and installation of EV Chargers	NRCan's Zero Emission Vehicle Infrastructure Program - Round 2	In 2021, the Region applied for eight Level 2 EV Charging Stations to support charging of corporate light-duty fleets.	TBD

Project	Funding Source	Funding Details	Funding Amount
EV Community Marketing Strategy	NRCan's Zero Emission Vehicle Infrastructure Program - Round 3	In 2020, the Region submitted a funding application in partnership with Oshawa PUC and Elexicon Energy to support the development of an EV marketing and awareness campaign.	\$50,000
Purchase and installation of community EV Chargers	NRCan's Zero Emission Vehicle Infrastructure Program - Round 1	In 2021, the Region, together with the Town of Ajax, the Municipality of Clarington, Oshawa PUC, and the Town of Whitby will be installing 60 new EV charging stations across 21 municipally owned and publicly accessible sites, of which 32 are Regional charging stations. Funding represents the Regional portion.	\$160,000
Courtice WPCP IRR Phase 2 Study	CWWF Funding		\$225,000
Energy Manager Incentives across Corporate Projects	2019 IESO - SaveOnEnergy		\$97,111
Energy Manager Incentives across Corporate Projects	2020 IESO - SaveOnEnergy		\$207,193
Total Funding			\$13,121,774