

# **Agenda Including Addeds**

## **Advisory Committee on the Environment**

The 2nd Meeting of the Advisory Committee on the Environment

January 8, 2020, 12:15 PM

Committee Room #4

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Pages

**1. Call to Order**

1.1 Disclosures of Pecuniary Interest

**2. Scheduled Items**

2.1 12:15 PM A. Dunbar, Manager, Financial Planning and Policy – 2020-2023 Multi-Year Budget Overview

**3. Consent**

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3.2 11th Report of the Transportation Advisory Committee 6

3.3 12th Report of the Environmental and Ecological Planning Advisory Committee 9

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**4. Sub-Committees and Working Groups**

4.1 *Energy Sub-Committee Report* 14

**5. Items for Discussion**

5.1 Zero Waste Conference 2019 - R. Sirois

5.2 Climate Action Presentation by D. Saxe at Green in the City Event - R. Sirois 16

5.3 Information Update - London's Premier Zero Waste Festival, June 13, 2020 - R. Sirois

5.4 Review and Affirmation of ACE Sub-Committees - R. Sirois

5.5 ACE 2020 Budget

5.6 ACE 2020 Work Plan 20

**6. Adjournment**

Next Meeting Date: February 5, 2020

# Advisory Committee on the Environment

## Report

The 1st Meeting of the Advisory Committee on the Environment  
December 4, 2019  
Committee Room #4

Attendance                      PRESENT: R. Sirois (Chair), J. Howell, K. May, M. Ross, K. Soliman, D. Szoller, A. Thompson and A. Tipping and J. Bunn (Committee Secretary)

ABSENT: M. Bloxam and M.D. Ross

ALSO PRESENT: S. Armstrong, T. Arnos, C. Parker, J. Stanford and M. Stone

The meeting was called to order at 12:16 PM.

### 1. Call to Order

#### 1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

#### 1.2 Election of Chair and Vice Chair for the term ending November 30, 2020

That it BE NOTED that the Advisory Committee on the Environment elected R. Sirois and M. Ross as Chair and Vice Chair, respectively, for the term ending November 30, 2020.

### 2. Scheduled Items

#### 2.1 Accessibility for Ontarians with Disabilities Act Training

That it BE NOTED that the ~~attached~~ presentation from M. Stone, Accessibility Specialist, with respect to Accessibility for Ontarians with Disabilities Act Training, was received.

#### 2.2 Manager, Sustainability and Resiliency – Introduction

That the introduction of the Manager of Sustainability and Resiliency BE DEFERRED to the January 2020 meeting of the Advisory Committee on the Environment.

### 3. Consent

#### 3.1 10th Report of the Advisory Committee on the Environment

That it BE NOTED that the 10th Report of the Advisory Committee on the Environment, from its meeting held on November 6, 2019, was received.

#### 3.2 Municipal Council Resolution - 10th Report of the Advisory Committee on the Environment

That it BE NOTED that the Municipal Council resolution from its meeting held on November 26, 2019, with respect to the 10th Report of the Advisory Committee on the Environment, was received.

3.3 Notice of Planning Application - Official Plan Amendment - City-Wide Urban Design Guidelines

That A. Lockwood, Urban Designer, BE ADVISED that the City of London Climate Change Action Plan should be incorporated into this and any future Urban Design Guidelines, specifically, taking advantage of public parking lot space to install solar panel canopies; it being noted that the Notice of Planning Application, dated November 21, 2019, from A. Lockwood, Urban Designer, with respect to an Official Plan Amendment related to the City-Wide Urban Design Guidelines, was received.

3.4 Public Meeting Notice - Zoning By-law Amendment - 21 Norlan Avenue

That it BE NOTED that the Public Meeting Notice, dated November 13, 2019, from C. Parker, Senior Planner, with respect to a Zoning By-law Amendment related to the property located at 21 Norlan Avenue, was received.

3.5 Allowing "Farm Gate Sales" on Lands Within the Urban Growth Boundary

That it BE NOTED that the staff report dated November 18, 2019, as appended to the agenda, with respect to allowing "Farm Gate Sales" on lands within the Urban Growth Boundary, was received.

3.6 Bird-Friendly Development Report and Working Group Representative

That it BE NOTED that the staff report dated November 18, 2019 and the communication from L. Maitland, as appended to the agenda, with respect to Bird Friendly Development and the Bird Friendly Development Working Group, were received.

3.7 Climate Change Emergency - Update

That the staff report dated November 25, 2019, as appended to the agenda, with respect to an update on the Climate Change Emergency, BE REFERRED to the Energy Sub-Committee for a review and a report back to the Advisory Committee on the Environment in January 2020.

3.8 Cycling Advisory Committee Cycling Master Plan Review Working Group Report

That the "8.0 - Recommendations" section of the Cycling Master Plan Review Working Group Report of the Cycling Advisory Committee, as appended to the agenda, BE REFERRED to the Energy Sub-Committee for review and a report back to the Advisory Committee on the Environment in January 2020.

**4. Sub-Committees and Working Groups**

None.

**5. Items for Discussion**

5.1 Pollinator Friendly Gardens Flyer

That the expenditure of up to \$300.00 from the 2019 Advisory Committee on the Environment (ACE) budget BE APPROVED to print copies of the Pollinator Friendly Gardens flyer, as appended to the agenda; it being

noted that the ACE has sufficient funds in their 2019 budget to accommodate this expenditure.

5.2 Zero Waste Conference 2019

That the Zero Waste Conference update from R. Sirois BE DEFERRED to the January 2020 meeting of the Advisory Committee on the Environment.

5.3 June Waste Conference

That R. Sirois BE APPROVED to represent the Advisory Committee on the Environment at upcoming meetings of the planning committee for a Zero Waste Festival and Conference in London on June 13, 2020.

5.4 Climate Action Presentation by D. Saxe at Green in the City Event

That the Climate Action Presentation by D. Saxe at the Green in the City Event update BE DEFERRED to the January 2020 meeting of the Advisory Committee on the Environment.

**6. Adjournment**

The meeting adjourned at 2:09 PM.

# Transportation Advisory Committee

## Report

The 11th Meeting of the Transportation Advisory Committee  
November 26, 2019  
Committee Room #4

Attendance PRESENT: D. Foster (Chair), A. Abiola, G. Bikas, D. Doroshenko, B. Gibson, T. Kerr, T. Khan, P. Moore and M. Rice and J. Bunn (Committee Secretary)

ABSENT: M.D. Ross and S. Wraight

ALSO PRESENT: G. Dales, M. Elmadhoon, K. Grabowski, Sgt. S. Harding, T. Hitchon, P. Kavcic, J. Kostyniuk, T. Macbeth, T. MacDaniel, D. MacRae, M. Metcalfe, A. Miller and A. Sones

The meeting was called to order at 12:15 PM.

### 1. Call to Order

#### 1.1 Disclosures of Pecuniary Interest

G. Bikas discloses a pecuniary interest in Item 3.5 of the 11th Report of the Transportation Advisory Committee, having to do with the Wenige Expressway Bridge and Highbury Avenue Rehabilitations, by indicating that his employer owns property adjacent to the project.

### 2. Scheduled Items

#### 2.1 Veterans Memorial Parkway Extension – Project Update

That it BE NOTED that the presentation, as appended to the agenda, and a delegation from I. Bartlett, Stantec, with respect to a project update on the Veterans Memorial Parkway Extension, was received.

#### 2.2 Municipal Environmental Assessment Process

That it BE NOTED that the attached presentation from A. Sones, Environmental Services Engineer, with respect to the Municipal Environmental Assessment Process, was received.

#### 2.3 Transportation Demand Management Activities – Introduction and Update

That it BE NOTED that the attached presentation from A. Miller, Co-Ordinator, Transportation Demand Management, with respect to and introduction and update on Transportation Demand Management Activities, was received.

#### 2.4 London's Transportation 2018 Emission Information

That it BE NOTED that the attached presentation, and the communication appended to the agenda, from A. Abiola, with respect to London's Transportation 2018 Emission Information, were received.

### **3. Consent**

#### **3.1 10th Report of the Transportation Advisory Committee**

That it BE NOTED that the 10th Report of the Transportation Advisory Committee, from its meeting held on October 22, 2019, was received.

#### **3.2 Municipal Council Resolution - Procurement of an Advanced Traffic Management System and New Traffic Signal Controllers**

That it BE NOTED that the Municipal Council resolution, from its meeting held on October 29, 2019, with respect to the procurement of an Advanced Traffic Management System and new traffic signal controllers, was received.

#### **3.3 Public Meeting Notice - Official Plan Amendment - Revised Victoria Park Area Secondary Plan**

That it BE NOTED that the Public Meeting Notice, dated November 14, 2019, from M. Knieriem, Planner II, with respect to an Official Plan Amendment related to the Revised Victoria Park Area Secondary Plan, was received.

#### **3.4 Stopping and Parking Restrictions in Bicycle Lanes**

That it BE NOTED that the Memo dated November 12, 2019, from Roads and Transportation, Development and Compliance Services, with respect to stopping and parking restrictions in bicycle lanes, was received.

#### **3.5 Wenige Expressway Bridge and Highbury Avenue Rehabilitations**

That it BE NOTED that the Memo dated November 6, 2019, from T. Hitchon, Technologist II, with respect to the Wenige Expressway Bridge and Highbury Avenue rehabilitations, was received.

#### **3.6 Transportation Advisory Committee 2019 Work Plan**

That it BE NOTED that the 2019 Transportation Advisory Committee Work Plan, as at November 2019, was received.

#### **3.7 (ADDED) Notice of Planning Application - Official Plan Amendment - City-Wide Urban Design Guidelines**

That it BE NOTED that the Notice of Planning Application, dated November 21, 2019, from A. Lockwood, Urban Designer, with respect to an Official Plan Amendment related to the City-Wide Urban Design Guidelines, was received.

### **4. Sub-Committees and Working Groups**

#### **4.1 Street Parking Review Working Group Report**

That the Civic Administration BE REQUESTED to review the attached Street Parking Review Working Group Report, from its meeting held on November 6, 2019, and provide the requested statistics to the above-noted Working Group.

**5. Items for Discussion**

None.

**6. Adjournment**

The meeting adjourned at 2:15 PM.



# Environmental and Ecological Planning Advisory Committee

## Report

The 12th Meeting of the Environmental and Ecological Planning Advisory Committee  
November 21, 2019  
Committee Rooms #1 and #2

Attendance PRESENT: S. Levin (Chair), L. Banks, A. Bilson Darko, C. Dyck, P. Ferguson, L. Grieves, S. Hall, S. Heuchan, B. Krichker, K. Moser, B. Samuels, R. Trudeau and I. Whiteside and H. Lysynski (Clerk)

ALSO PRESENT: G. Barrett, C. Creighton, M. Fabro, S. Hudson, J. MacKay and L. McDougall

ABSENT: I. Arturo, A. Boyer, A. Cleaver, R. Doyle, S. Esan, J. Khan, I. Mohamed, S. Sivakumar and M. Wallace

The meeting was called to order at 5:03 PM

### 1. Call to Order

#### 1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

### 2. Scheduled Items

#### 2.1 Gregg Barrett, Manager, Long Range Planning and Sustainability re City Owned and Privately Owned Environmentally Significant Areas

That it BE NOTED that the Environmental and Ecological Planning Advisory Committee heard the attached presentation from G. Barrett, Manager, Long Range Planning and Sustainability, with respect to the differences between city-owned and privately owned Environmentally Significant Areas.

### 3. Consent

#### 3.1 11th Report of the Environmental and Ecological Advisory Committee

That it BE NOTED that the 11th Report of the Environmental and Ecological Planning Advisory Committee, from its meeting held on October 17, 2019, was received.

#### 3.2 Municipal Council Resolution - 10th Report of the Environmental and Ecological Planning Advisory Committee

That it BE NOTED that the Environmental and Ecological Planning Advisory Committee reviewed and received a Municipal Council resolution adopted at its meeting held on October 15, 2019, with respect to the 10th Report of the Environmental and Ecological Planning Advisory Committee.

3.3 Municipal Council Resolution - 8th Report of the Animal Welfare Advisory Committee

That it BE NOTED that the Environmental and Ecological Planning Advisory Committee reviewed and received a Municipal Council resolution adopted at its meeting held on October 15, 2019, with respect to the 8th Report of the Animal Welfare Advisory Committee, from its meeting held on September 5, 2019.

3.4 Municipal Council Resolution - 11th Report of the Environmental and Ecological Planning Advisory Committee

That it BE NOTED that the Environmental and Ecological Planning Advisory Committee reviewed and received a Municipal Council resolution adopted at its meeting held on November 12, 2019, with respect to the 11th Report of the Environmental and Ecological Planning Advisory Committee, from its meeting held on October 17, 2019.

3.5 Municipal Council Resolution - Environmental Considerations Relating to Studies and Reports

That a Working Group BE ESTABLISHED consisting of S. Levin and S. Hall with respect to environmental considerations relating to studies and reports; it being noted that the Environmental and Ecological Planning Advisory Committee reviewed and received a Municipal Council resolution adopted at its meeting held on November 12, 2019, with respect to these matters.

3.6 White Oak Dingman Secondary Plan - Response to EEPAC's Comments

That it BE NOTED that the Environmental and Ecological Planning Advisory Committee reviewed and received the Civic Administration's comments relating to the Environmental and Ecological Planning Advisory Committee's comments on the White Oak Dingman Secondary Plan.

**4. Sub-Committees and Working Groups**

4.1 Byron Gravel Pit Subject Land Status Report

That, the following actions be taken with respect to the Byron Gravel Pit Subject Land Status Report:

a) the Working Group comments relating to the Byron Gravel Pit Subject Land Status Report BE FORWARDED to the Civic Administration for consideration; and,

b) the Civic Administration BE REQUESTED to consider opportunities for retention of part or all unique landscapes, in particular, bank swallow habitat during the development of the Secondary Plan.

4.2 Environmental Management Guidelines

That the Working Group comments with respect to the Environmental Management Guidelines BE FORWARDED to the Civic Administration for consideration.

**5. Items for Discussion**

5.1 (ADDED) Bird Friendly Development Working Group

That B. Samuels and L. Grieves BE APPOINTED to the Bird Friendly Guidelines Working Group as the representative and alternate, respectively.

5.2 (ADDED) Subject Lands Status Report for Kilally South, East Basin Stormwater Servicing

That a Working Group BE ESTABLISHED consisting of I. Whiteside (lead), C. Dyck, P. Ferguson and B. Krichker, with respect to the Subject Lands Status Report for the Kilally South, East Basin Stormwater Servicing and to report back at the January 16, 2020 Environmental and Ecological Planning Advisory Committee meeting.

5.3 (ADDED) Wetland Conservation Strategy

That it BE NOTED that "A Wetland Conservation Strategy for London: A Discussion Paper on Best Practices" has been forwarded to the Civic Administration for their consideration.

**6. Adjournment**

The meeting adjourned at 6:21 PM.

# Trees and Forests Advisory Committee

## Report

The 11th Meeting of the Trees and Forests Advisory Committee  
November 27, 2019  
Committee Room #4

Attendance                   PRESENT: R. Mannella (Chair), M. Demand, A. Hames, J. Kogelheide, A. Morrison, A. Valastro; and D. Turner (Committee Clerk)

REGRETS: A. Cantell and A. Thompson

ALSO PRESENT: A. Beaton, J. Parsons and R. Walker

### 1. Call to Order

#### 1.1 Disclosures of Pecuniary Interest

That it BE NOTED that pecuniary interests were disclosed.

### 2. Scheduled Items

None.

### 3. Consent

#### 3.1 9th and 10th Reports of the Trees and Forests Advisory Committee

That it BE NOTED that the 9th and 10th reports of the Trees and Forests Advisory Committee, from its meetings held on September 25 and October 23, respectively, were received.

#### 3.2 Municipal Council Resolution - 9th Report of the Trees and Forests Advisory Committee

That it BE NOTED that the Municipal Council resolution, from its meeting held on October 15, 2019, with respect to the 9th Report of the Trees and Forests Advisory Committee, was received.

#### 3.3 Public Meeting Notice - City Wide Amendment - Urban Design Peer Review Panel Terms of Reference Update

That it BE NOTED that the Public Meeting Notice, dated November 13, 2019, from J. Smolarek, Urban Designer, Development Services, with respect to a City Wide Amendment to the Urban Design Peer Review Panel Terms of Reference, was received.

### 4. Sub-Committees and Working Groups

#### 4.1 Education Sub-Committee Update

That it BE NOTED that the committee held a general discussion with respect to the Education Initiatives Sub-Committee update; it being further noted that the ~~attached~~ sub-committee meeting minutes were received.

## 5. Items for Discussion

### 5.1 Social Housing and Tree Planting Opportunities in London

That a member of the London Housing Advisory Committee BE INVITED to attend a future meeting of the Trees and Forests Advisory Committee to discuss social housing tree planting initiatives in greater detail.

### 5.2 Urban Forest Strategy - Topics of Interest

That it BE NOTED that the committee held a general discussion with respect to interesting topics enshrined in the Urban Forest Strategy which the committee may seek to research further, including urban design policy as it relates to green space requirements in new developments.

### 5.3 Trees in Parking Lots

That it BE NOTED that the committee held a general discussion with respect to tree planting and green space requirements in parking lots, noting that the Bostwick Community Centre parking lot was highlighted as a model for similar developments.

### 5.4 City of London Tree Planting Specifications

That the Civic Administration BE REQUESTED to investigate any discrepancies between tree planting specifications as they appear in the City of London's *Design Specifications and Requirements Manual* versus the International Society of Arboriculture's *Arborists' Certification Study Guide*.

### 5.5 2018 and 2019 TFAC Work Plans

That a sub-committee BE CREATED to begin drafting a 2020 work plan; it being noted that the committee's 2019 draft work plan will be used as a template.

## 6. Adjournment

The meeting adjourned at 1:43 PM.

## **Advisory Committee on the Environment (ACE) Energy Sub-Committee**

On December 4<sup>th</sup>, 2019, ACE referred the Cycling Advisory Committee (CAC) Cycling Master Plan Review Working Group Report to the Energy Sub-Committee for review, specifically section 8.0 Recommendations with relevance to the City of London's Climate Emergency plan.

Using a simple modeling exercise, the report concludes the Transportation Master Plan (TMP) also examined will not reduce greenhouse gas emissions (GGE) to 2030 target levels and requires the TMP mode split targets to be adjusted to achieve these goals. The Cycling Master Plan (CMP) acknowledges that each litre of gasoline burned emits about 2.3 kg of carbon dioxide which contributes to climate disruption but does not make further reference to targets.

CAC recommendations include:

- That the City evaluate GGE implications of the London Transit Master Plan, London Official Plan, London Parking Strategy, London Accessibility Strategy, and the Cycling Master Plan (CMP) to align with the City's Declaration of Climate Emergency.
- That a revised CMP plan focus on building All-Ages-and-Abilities infrastructure to achieve climate-informed modal split targets and a city-wide bike grid by summer 2021.
- That the City enacts a moratorium on all currently planned and future road widenings. Presently budgeted funds for road widening (\$75M/year) should be reallocated to transit and cycling for maximum mitigation of climate disruption and create an active transportation strategy (walking, accessibility, and micro mobility) at \$50/person/year, or ~\$20M/year, comparable to the scale of investments in major cycling cities and to
- Decrease speed limits on all residential streets to 30 km/h (reduce GGE, increase safety).

Key Findings:

- Implementing the City's TMP will result in London exceeding its 2030 GGE budget by a minimum of 45%. Scenario A presents a minimum population growth of 73,800 people by 2030. Scenario B envisions growth of 140,000 people, a 39% increase from 2007.
- The City's GGE budget can only be met by mode shift from automobile to zero-carbon transportation (ie electric transit, cycling, and walking), not by electric vehicles alone..
- Metrics to assess the current CMP are not comparable with other Canadian cities and leading global cycling jurisdictions. The CAC sees critical gaps in understanding of both current and potential cycling rates, demographics, and behaviour in London.
- It is likely that in examining other climate-relevant City policies, related to transportation and land use, through a climate lens this could yield similar need for urgent action.
- Transportation is by far the sector with the largest GGE in London. Our 2017 transport emissions are 1390 kt CO<sub>2</sub>e (of which ~70% of emissions are from personal vehicles), representing 49% of total emissions today, and has been relatively unchanged since 2007.

CAC Conclusion:

At its core, the goals in the TMP are insufficient to reach our international obligations to decrease our carbon emissions, and inadequate to cope with London’s Climate Emergency plan.

The CAC CMP Review Working Group suggests that mode shift target levels and greater investment in active transportation, are the most impactful ways to achieve 2030 GGE goals.

Table 4-1: City of London Transportation Master Plan current mode share and 2030 targets

Mode	2009 Mode Share	2030 Target	<b>NEEDED CAC Climate-Informed Targets by 2030:</b>
Automobile	76%	60%	<b>25%</b>
Transit	11%	20%	<b>35%</b>
Active Transportation –	9%	15%	<b>35%</b>
Cycling –	1%	5%	<b>10%</b>
Walking –	8%	10%	<b>25%</b>
Other	5%	5%	<b>5%</b>
	<b>100% Electrification of London Transit Vehicles</b>		
	<b>25% Electrification of Private Cars and City Vehicles</b>		

ACE comments

The CAC demonstrates by using a modeled carbon emissions evaluation in their report, existing TMP mode split targets are not enough to reach London’s emission targets,. Thus they offer a likely mode-split solution above in bold for London to reach its GGE goals.

London’s Community Energy Action Plan has the following goals for reducing London’s GGEs on the City website -

15% reduction from 1990 levels by 2020  
37% reduction from 1990 levels by 2030, and  
80% reduction from 1990 levels by 2050, proposed by Council to now become net zero by 2050

In 2018, total GGEs were over 3.1 million tonnes, 9 % lower than 1990 levels. In 2017, London’s total GGEs were 17% below 1990 levels. Weather has an impact on energy use and, in 2018, London had a colder winter and hotter summer compared to 2017. Using a three-year rolling average evens out the impact of weather. The three-year rolling average for the 2016-2018 period was 13% below 1990 levels, thus, the importance of stable data in evaluating 2020.

We agree with the recent City’s Climate Change Emergency plan to assess each service area to determine a clear strategy and special actions. 37% of London’s energy use is transportation. The City has quantifiable formulas to translate energy use into GGEs. Thus, the significance of the transportation sector to establish appropriate infrastructure investment to reach London’s targets including limits to parking expansion, sprawl and addressing zoning restrictions. CAC indicates London has a \$75 million budget for road widenings, and to complete a minimum bike grid across the city needs about 150 km of protected bike lanes which CAC calculates to cost \$150M. This definitely deserves attention given its affordability and the results possibly being game changing. We ask that active transportation be given special attention to gain solutions.

**London's Climate Emergency - Be Part of the Solution - Green in the City**

Dr. Dianne Saxe Keynote Presentation - "Climate Changes Everything"

November 19, 2019

**KNOWLEDGE** (*hold on, it's grim!*) Dr. Saxe presented on why climate changes everything drawing from the latest reports of the International Panel on Climate Change (IPCC) among other sources. Our country is among the top ten polluters in the world. The country has the highest rate of climate pollution, among highest levels of climate pollution and it is heating up faster than the global average. The heat buildup has occurred in the last three generations ....her lifetime. 1% of the heat is in the air, 3% is trapped in solid vegetation, 3% with warmed up ice. The bulk is in the water! Warmed up water takes more space, (sea levels rise) and has less oxygen (greater acidity). The oceans have become the storm engines. The warmer the water, the more powerful and explosive the storms.

“When people get bad news, people want to hang on and wait for normal to come back”. The reality is that is not going to happen. Our infrastructure, insurance, laws are designed for a 20<sup>th</sup> century that no longer exists and to which we can never return. Dr. Saxe debunked the thinking that we’re living in the new normal. As she put it, the new normal is when you gain 10 lbs and buy a new pair of pants.

But that doesn’t make sense if you’re getting fatter every month. That’s what we’re doing, emitting more climate pollution every month, and at faster rates. 350 ppm: was our best estimate of how high carbon dioxide can be and still enable a world that has low-island states, predictable weather, coral reefs and mountain glaciers. The planet hit 415.70 ppm in May 2019. We are in completely uncharted territory. <https://350.org/science/>

Ontario is in a blessed position – not near any oceans, fairly removed from the equator. The province is however on track to be warmer than most other places in a range of > 2.5-3.7c by 2050. While it’s a global problem, the impacts differ regionally and often are felt more acutely. Winter is wetter; cities are warmer (Toronto 3c +). Then there are climate extremes. Just going back to the 1960s, climate extremes are 4 xs worse in North America.

**It’s not if, it’s when:** drought, floods, fire, storms. It is showing up in insured losses. Just in Ontario, insured losses were up \$1.4B in 2018. The insurance companies issued a report in March where they said that for every billion they are spending for losses due to catastrophic weather; their best guess is that the public sector (all levels of govt) is losing \$3B in damaged assets. The biggest short-term Canadian risk is catastrophic damage to physical infrastructure in the next 20 years i.e., damage that will cost billions of dollars.

The emergency is coming into focus. The Intergovernmental Panel on climate change (IPCC) was established after the signing of the Paris Accord to provide reliable, scientific, factual data. They issued their 5<sup>th</sup> assessment report in 2014 and more recently a series of special reports. Staying under 2c may not be okay. (We’re almost at 1.5c) One of their recent reports says that the difference between 1.5 v 2c is **major**. A world that is 2c warmer will be much worse off: Heavy precipitation, extreme heat, droughts, sea levels and most importantly, the ability of human and natural systems to adapt will be near collapse.



IPCC Scnd report August 2019 on land and food: The climate crisis is already affecting food quality and security. It was a similar assessment on the oceans and cryosphere (everything frozen). The oceans are in crisis and everything frozen is melting faster, and faster and faster. The coast of Alaska was ice-free in summer 2019; last year one-third of the Bering Sea melted in the dark in five days (before the sun started to come out)....

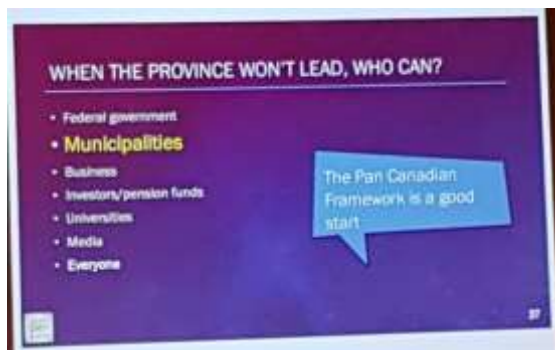
Another set of science coming out on biodiversity shows 1 M species are at risk. The World Health Organization considers climate change as one of the biggest global health threats of this century. The health damage is going to be twice as much as the cost of climate change.

Life-changing infections are on the move. Lyme disease incidence is soaring as ticks can overwinter. In Dr. Saxe's opinion, we have already wasted so much time – The science tells us that without massive, immediate reversal; i.e., getting off fossil fuels, it really means the bringing human and natural systems to the brink of extinction.

If we want a 2c world, which is much less stable and safe than today, with major economic damage but survivable for most, then we can only emit 75% of 2010 GhGs by 2030. We must cut emissions annually by 5% NOW. And Canada is among the luckiest places in the world.

*Is it too late for today's young people to have the environment we have enjoyed?* Yes, it is too late. YET there is time to forestall more damage.

## ACTION



Set Paris Agreement consistent targets: for a 2c (warmer) world or a 1.5c (warmer) world. Set an emissions budget that is linked to capital planning, fleet operations, building renovations, flights, waste management, and investments. You must measure and be accountable. If building a new road, something else has to be given up.

- Study what other leading communities are doing. Carbon-free Boston: become carbon neutral by 2050. In 30 years, the community can only release as much carbon pollution as the environment can safely absorb. <https://www.boston.gov/departments/environment/carbon-free-boston>

Transportation (examples)

- electric buses
- Set examples and send messages through action: City officials on bikes, e-bikes, small EVs
- Visible EV charging at all municipal sites
- Priority bike parking

- Approach Libro for loans to buy e-bikes

Buildings (examples)

- Building energy benchmarking and disclosure (live reports on energy use in foyer of muni bldgs.)
- Establish green building standards
- Cool/Green roofs
- Sensor activated LEDs (sensors are cheap!) Send messages constantly and consistently
- Renewable energy/storage systems
- Implement top climate change makers from Drawdown.org
- Solar on waste facilities (Raymond AB)
- Fayetteville Alabama - solar panel supplier built a solar generation system and the city signed a multi-year contract to buy that power.

Operations (examples)

- Serve no meat
- Use no disposables
- Temperature regulation (dress codes, persona space fans and heaters)
- Ban organic waste
  - o Co-digest with sewage sludge, use the methane for transport (intermediate step to electric buses or for city fleet (City of Stratford is going this way!) Toronto organic waste-fuelled garbage trucks
- Transparency on flights- How many? How far? Purchase of carbon offsets?
- Who is accountable? Are you prepared to accept responsibility for emission budgets?

Nobody can do it all, but we all can do something. Municipalities can lead in areas they control.

- Direct footprint
- Infrastructure
- Bylaws (ban idling, ban drive-throughs, launch a no idling campaign)
- Tax structure
- Procurement
- Investments
- Site Use

**Lead through collaboration**

- Partnerships with business / NGOs / UWO and Fanshawe
- Act as host or enabler of: tool library, clothing swaps, waste exchange, EV charging, community solar, B2B dating service... helping to match small businesses with markets and suppliers who want to make a change for the better
- joint purchasing with other municipalities to have the buying power to make bigger investments in solar or other green investments

**Have a climate lens for every discussion**

- Will this reduce our total GhGs per service-based target?
- Will this make the transition to a low carbon economy easier?

Transportation is the #1 GHG emitter in Ontario. Ontarians drive more than ever, in the most polluting cars. In fact Canada has beat out all other countries...

Exhaust from tail pipe emissions has enormous public health harm. We drive so much b/c of land use decisions. 3 out of 4 Ontarians live in areas that require them to drive to work, shop, recreate.... Need to stop urban sprawl.

We need to grow in, not out and make zero carbon mobility fast and safe. Seville Spain turned 5,000 parking spots into 170 km of raised bike lanes, built at the same level as the sidewalks. It started with a poll “would you like to ride safely around Seville” majority said yes. It was followed by lots of public input (on the how) and the first 80 km were done in 18 months. This was all done before the next civic election, such that everyone had a chance to get used to it. The investment had a BIG payoff: the 32M euros cost serves 70,000 bike trips/day - - the same cost as a 6km highway. Subway cost 800M euros to serve 44,000 trips / day.

#### Urban-rural opportunities

- Measure and value ecosystem services, e.g. Protection of woodlots and wetlands by farms and other landowners – given them compensation, or at least recognition
- Perhaps offsets can be created from the above example. With the carbon tax having survived the federal election, there will be a growing market for offsets from the industrial sector.
- Consider food waste to animal feed; compost to soil amendments
- Bike tourism

Having a future will cost money; no one will do it for us. Since we've put money first for so long it's time to change the yardstick used to measure progress and development.

Some options: generate local revenue through road pricing, parking

Polluter pays re. Land use costs, e.g., storm water

Reallocate existing assets / revenue

Collaborate with major local players

Community ownership (create opportunities for local people to invest in green economy initiatives, e.g.

Approach libro ....)

Seville arranged for affordable bike rentals by approaching a marketing company who put up billboards in area of the bike rentals in exchange for subsidizing first half-hour free on bikes.

#### **KNOWLEDGE + ACTION = HOPE**

Brief update on City action by Jan Stanford

Panel discussion:

Amber Cantell - Director of Programs, ReForest London

John Fleming - Managing Director, Planning and City Planner, City of London

Genevieve Langille - Grade 12 Student and the London Climate Strike Organizer

All panelists endorsed Dr. Saxe's message that climate change is THE single most critical issue for life on the planet. London won't face the kind of flooding coastal cities will, or the wildfires already impacting the west coast and the boreal forest to the north. Drinking water supplies may not be in immediate danger; but at the end of the day - if food, water, and resource systems are collapsing in other communities around the globe, it is reason enough to take action. The knock-on effects to water supply, air quality, food security, demand for housing, and the dramatic increase in the need for humanitarian aid will all be devastating. Climate change will impact everything, and we need to start considering that impacts elsewhere can be every bit as important as impacts here.

**ADVISORY COMMITTEE ON THE ENVIRONMENT - 2019 WORK PLAN**

*(updated September 23, 2019)*

Project / Initiative & Background	Lead/ Responsible	Proposed Timeline	Proposed Budget	Actual Expenditure	Link to Strategic Plan	Status
<p><b><u>Waste</u></b></p> <p><b>Managing organic waste</b></p> <p>1. Review &amp; prioritize leading edge waste management systems that focus on waste as a resource technology (biogas, anaerobic digester, landfill gas recovery – e.g. Edmonton Waste Management Centre of Excellence)</p> <p>2. Follow the progress of City regarding development of a Resource Recovery Centre for London (invite staff members speak to ACE)</p> <p>3. Continue research into organic waste diversion. Examine other cities’ highly successful green bin programs (i.e. Toronto, Halton, Markham)</p> <p><b>Resource Recovery</b></p> <p>4. Monitor &amp; review on-going resource recovery initiatives.</p> <p><b>Landfill Expansion</b></p> <p>5. Monitor &amp; review on-going landfill expansion, including plan to get to 60% diversion.</p>	<p>Waste sub-committee</p>	<p>On-going</p>	<p>\$0</p>		<p>Building a Sustainable City 1-Robust Infrastructure D-Increase efforts resource recovery/ long-term disposal capacity/ reducing community impacts (p. 11 #1D)</p> <p>Building a Sustainable City 3-Strong and Healthy Environment D-Support resident/community driven initiatives... (p.12 #3D)</p> <p>Growing Our Economy 3-Local, Regional and Global Innovation B-Lead development of new ways to resource/energy recovery... (p. 17B)</p> <p>Leading in Public Service 3-Proactive Financial Management A – Well planned finances/limit burden on current and future rate payers. (p.21 #3A)</p>	<p>Received an excellent presentation and participated in an interactive discussion from Barry Orr, Sewer Outreach and Control Inspector – March 7, 2018</p> <p>Subsequent motion regarding the “Toilets Are Not Garbage Cans” stickers made at June 6, 2018 meeting.</p> <p>Received a presentation from Claudia Marsales, Senior Manager, Waste Management Services, City of Markham regarding Waste Management Options on June 6, 2018.</p> <p>Sub-committee members have attended the City Waste Management Work Group meetings on Landfill expansion discussions.</p> <p>The committee submitted a report to the Civic Works Committee regarding residential waste management issues July 4, 2018.</p> <p>Be mindful of the City’s declaration of a climate emergency in all approaches to waste reduction and diversion.</p>

Project / Initiative & Background	Lead/ Responsible	Proposed Timeline	Proposed Budget	Actual Expenditure	Link to Strategic Plan	Status
<p><b><u>Sustainability Commitment</u></b></p> <p>6. Request updates from Greg Barrett regarding Resiliency Strategic Plan status.</p> <p>7. Support further actions in regards to sustainability &amp; resiliency.</p>	Sustainability & Resiliency sub-committee	Remainder of 2019	\$0		Building a Sustainable City 3-Strong and Healthy Environment	
<p><b><u>Community Education</u></b></p> <p>8. Support community events directly and indirectly, as possible to increase awareness of environmental issues.</p> <ul style="list-style-type: none"> <li>Partner with London Public Library &amp; London Environmental Network to organize a second series of "Green in the City" talks</li> </ul>	ACE	November 2019	\$500		Strengthening Our Community  Building a Sustainable City  Growing Our Economy  Leading in Public Service	
<p><b><u>Renewable Energy</u></b></p> <p>9. Explore possibilities for hydro-electric along Thames River</p> <p>10. Explore solar energy on municipally-owned buildings</p> <p>11. Ensure that co-generation/local electricity generation initiatives do not negatively impact the City of London carbon-dioxide emissions targets and carbon footprint or compromise local air quality</p>	Energy sub-committee	Remainder of 2019	\$0		Building a Sustainable City  -Robust Infrastructure... Page 11, item 1B  -Strong & healthy environment... Page 12, item 3A thru F, 5B	
<p><b><u>Community Energy Action Plan</u></b></p> <p>12. Provide input on 2019 review.</p>	Energy Sub-Committee	Fall 2019	\$0		Building a Sustainable City  -Robust Infrastructure... Page 11, item 1B  -Strong & healthy environment... Page 12, item 3A thru F, 5B	

Project / Initiative & Background	Lead/ Responsible	Proposed Timeline	Proposed Budget	Actual Expenditure	Link to Strategic Plan	Status
<p><b><u>Built Environment</u></b></p> <p>13. Develop a draft green roof by-law</p>	Energy sub-committee		\$0		Building a Sustainable City -Robust Infrastructure... Page 11, item 1B -Strong & healthy environment...Page 12, item 3A thru F, 5B	<ul style="list-style-type: none"> <li>Find out if City staff are already working on this by-law</li> </ul>
<p><b><u>City Budget</u></b></p> <p>14. Review and provide feedback on budget.</p>	ACE	November/December 2019	\$0		Leading in Public Service	<ul style="list-style-type: none"> <li>Budget consultations take place in December</li> </ul>
<p><b><u>Committee Member Education &amp; Development</u></b></p> <p>22. Assist ACE members with registration fees for conferences pertaining to ACE mandate</p>		October to December 2019	Maximum of \$1000		ALL	<ul style="list-style-type: none"> <li>Members who attend conferences with financial help from ACE will provide a written report about their findings to go on the next ACE agenda, and give a verbal report at the meeting.</li> </ul>