### 8TH REPORT OF THE

### **ADVISORY COMMITTEE ON THE ENVIRONMENT**

Meeting held on July 20, 2016, commencing at 12:15 PM, in Committee Room #4, Second Floor, London City Hall.

**PRESENT**: M. Bloxam (Chair), K. Birchall, S. Brooks, S. Hall, M. Hodge, J. Howell, L. Langdon, S. Ratz, G. Sass and D. Szoller and J. Martin (Secretary).

ALSO PRESENT: G. Barrett, T. Copeland, J. Stanford and G. Sandler.

### I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

### II. SCHEDULED ITEMS

2. Sustainability

That it BE NOTED that the <u>attached</u> presentations from G. Seaman, Sustainability Officer, Markham, Ontario and J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to sustainability, were received.

### III. CONSENT ITEMS

3. 7th Report of the Advisory Committee on the Environment

That it BE NOTED that the 7th Report of the Advisory Committee on the Environment from its meeting held on June 1, 2016, was received.

4. 6th and 7th Reports of the Transportation Advisory Committee

That it BE NOTED that the 6th and 7th Reports of the Transportation Advisory Committee from its meetings held on June 7 and July 5, 2016, respectively, were received.

5. 6th and 7th Reports of the Trees and Forests Advisory Committee

That it BE NOTED that the 6th and 7th Reports of the Trees and Forests Advisory Committee from its meetings held on June 1 and June 22, 2016, respectively, were received.

6. 7th Report of the Environmental and Ecological Planning Advisory Committee

That it BE NOTED that the 7th Report of the Environmental and Ecological Planning Advisory Committee from its meeting held on June 16, 2016, was received.

7. Municipal Council Resolution - 7th Report of the Advisory Committee on the Environment

That it BE NOTED that the Municipal Council resolution from its session held on June 23, 2016, with respect to the 7th Report of the Advisory Committee on the Environment, was received; it being noted that T. Copeland, Division Manager, Wastewater and Drainage Engineering, provided a verbal update with respect to the Pollution Prevention Control Plan and will provide annual updates to the ACE.

### 8. ACE Budget

That it BE NOTED that discussion with respect to the Advisory Committee on the Environment (ACE) budget was deferred to the next meeting of the ACE.

### IV. SUB-COMMITTEES & WORKING GROUPS

None.

### V. ITEMS FOR DISCUSSION

9. 2017 Mayor's New Year's Honour List - Nominations Requested

That it BE NOTED that a communication from the City Clerk, dated July 11, 2016, with respect to the 2017 Mayor's New Year's Honour List, was received; it being noted that the members of the Advisory Committee on the Environment are encouraged to submit nominations to its Committee Secretary by September 30, 2016.

10. ACE Work Plan 2016

That it BE NOTED that discussion with respect to the Advisory Committee on the Environment (ACE) 2016 work plan was deferred to the next meeting of the ACE.

### VI. DEFERRED MATTERS/ADDITIONAL BUSINESS

11. (ADDED) Waste Sub-Committee

That it BE NOTED that the <u>attached</u> minutes from the Waste Sub-Committee from its meeting held on June 22, 2016, were received.

11. (ADDED) Local Improvement Charges

That it BE NOTED that a verbal update was provided by J. Howell and D. Szoller with respect to the April 21, 2016 stakeholder workshop related to Local Improvement Charges for Home Retrofits.

12. (ADDED) Urban Agriculture Symposium

That it BE NOTED that the <u>attached</u> communication and a verbal update from A. Gabor, with respect to the Urban Agriculture Symposium to be held November 19, 2016, was received.

13. (ADDED) Remote Presentations

That consideration BE GIVEN to formalizing procedures to allow presentations to be provided using remote technology, where appropriate and as a cost savings.

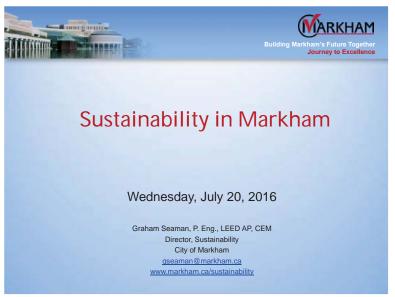
12. (ADDED) Education and Outreach Joint Discussion of the Advisory Committees

That it BE NOTED that a verbal update from S. Ratz with respect to the Education and Outreach Joint Discussion of the Advisory Committee, was received; it being noted that the ACE deferred additional discussion with respect to this matter to the September meeting.

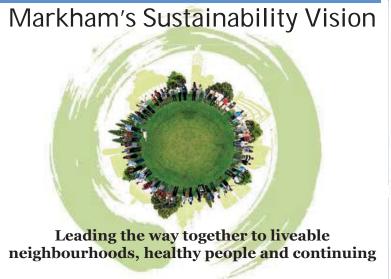
### VII. ADJOURNMENT

The meeting adjourned at 2:50 PM.

**NEXT MEETING DATE: September 7, 2016** 











### Sustainability Objectives

#### **Social Equity**

- 1. Reduce the impact of household poverty
- 2. Greater resident involvement in community stewardship
- 3. Promote greater youth involvement in decision making and participation

### **Identity and Culture**

4. Promote and celebrate all that makes Markham great

#### **Individual Health**

5. Promote and support the physical and mental health of Markham citizens





#### Shelter

- 6. Develop an Affordable Housing Strategy
- 7. Regenerate existing neighbourhoods through sensitive evolution
- 8. Plan, design, and construct high-performance new neighbourhoods

### **Food Security**

- Support education and engagement in the local food system
- 10. Significantly increase food production opportunities
- 11. Significantly increase the viability of local commercial food growing and processing



#### **Access and Mobility**

- 12. Create a culture of walking, cycling, and transit usage
- 13. Create roads for all users
- 14. Connect communities

### **Education and Skills**

15. Facilitate lifelong learning and skills development

#### **Economic Vibrancy**

- 16. Facilitate and support Markham's existing businesses
- 17. Promote green business development and business greening strategies for existing and new employers





#### **Materials Management**

18. Achieve zero material waste

#### **Water Efficiency**

19. Develop a water systems plan that integrates all water functions

### **Ecosystem Integrity**

- 20. Increase biodiversity
- 21. Reach 30% tree canopy and vegetation coverage Town-wide
- 22. Develop and support wildlife habitat

#### **Energy and Climate**

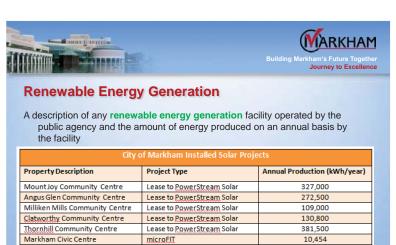
23. Net-zero energy, water, waste and emissions by 2050



#### **About the Sustainability Office**

- Established in 2009 to develop the Greenprint, Markham's Community Sustainability Plan
- Shifted to implementation 2011 with its completion
- Team of 8 Director, four staff, one intern, one summer student, one co-op student
  - ☐ Director reports to the Chief Administrative Officer
- Focused on Corporate Energy, Community Energy, Food Security, Sustainability Reporting and Community Outreach
- Partner with other departments, utilities and community groups to move sustainability agenda forward
  - ☐ Largely tax funded, but have external funding for Energy Management Coordinator
- Innovative, nimble and entrepreneurial
  - We practice the business of sustainability to ensure projects are good investment for Markham





Markham has 1.9MW of roof top solar PV, among the largest in Ontario. These assets generate nearly \$300,000 of non-tax revenue for the City.

Total

microFIT

10,900

272,500

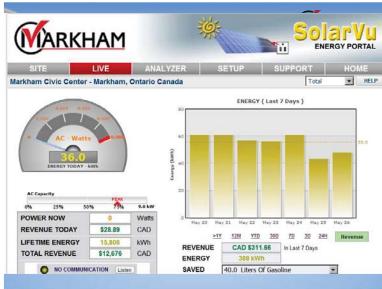
1,514,654

Fire Station 99

8100 Warden

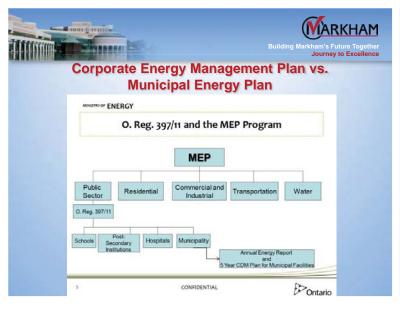














- · Identifies local energy planning opportunities
- Supports local economic growth and development
- Integrates energy, infrastructure, and land use planning
- Considers the impact of energy in future growth areas
- Incorporates multi-stakeholder engagement throughout the plan development
- Community Energy Plan and Municipal Energy Plan are currently interchangeable terms



### **MEP Project Outcomes**

- Identify energy and water efficiency and local energy generation and water reuse opportunities to achieve net zero energy, water, waste and emissions by 2050
- Recommend actions, strategies and short to medium term targets and long term milestones
- Set out frequent monitoring and reporting processes to guide implementation
- Integrate Communication & Engagement and Implementation Plans





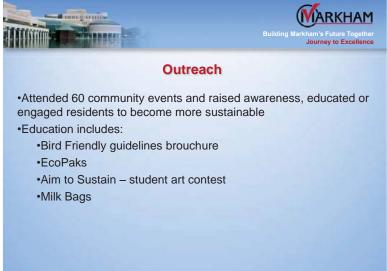
### **MEP Project Outcomes con't**

- Implement a MEP framework for Secondary Plans to meet the requirements for the community energy plan component
- Guide other Markham strategies, plans, policies and actions to increase energy efficiency and overall sustainability, including active transportation
- Seek Council support for the final Municipal Energy Plan
- Seek 2016 and future capital project funding and/or partnerships to start implementation
- Continue engagement with stakeholders to steward MEP implementation





















Advisory Committee on the Environment July 20, 2016



### Part One Presentation

### **NOTE to ACE Members:**

- This presentation does not represent complete
   City of London information due to the limited
   time available to complete these details.
- It provides a snap shot of some areas and reporting systems.
- A Part Two presentation would be more complete and address specific questions raised by ACE.



## Sustainability reporting over the last 25 years

### It has taken many forms:

- Corporate staff reports
- Comprehensive (technical) city-wide reports
- Project specific reports
- Special publications
- Various budget documents
- Webpages
- Collaborative webpages



## Sustainability reporting over the last 25 years





### National award for London





### It was a good idea, but...

- Some metrics hard to measure
- Required commitment from many partners
- Timeliness was critical
- Use was minimal

Old data is almost worse than no data...



### Local Issues - Survey

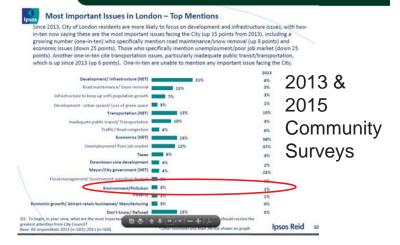
## Most important local issue London Lon Economy/Junemployment



2012 Community Survey

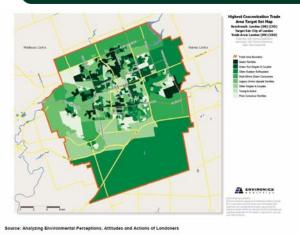


### Local Issues - Survey



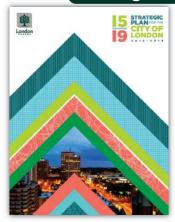


## How Green is London? (February 2015)





## Environment is enshrined in strategic City documents



### **Building a Sustainable City**

- Robust infrastructure
- Convenient and connected mobility choices
- Strong and healthy environment
- · Beautiful places and spaces
- Responsible growth
- Heritage conservation



## Environment is enshrined in strategic City documents



### **Green City Strategy**

- Green Jobs
- Green Mobility
- Green Development
- Green Infrastructure
- Green Energy & Clean Air
- Healthy Watershed
- Clean Water & Water Conservation
- Managing Our Waste



## How environmental sustainability is reported today

- 1. Strategic Plan Reporting
- 2. Annual Budget and Business Plans
- 3. Project and Program Reports
- 4. Internal and External audit reports
- 5. Corporate (staff) reports to Council Committees
- 6. Ontario public reporting systems such as:
  - OMBI/MBNC: Waste Diversion DataCall
- 7. Other reporting systems such as:
  - CDP Cities (Climate Disclosure Project)
  - Green Score City Index



### City areas reporting environmental sustainability metrics & indicators

- 1. Environmental & Engineering Services
- 2. Planning
- 3. Neighbourhood, Children & Fire Services
- 4. Parks & Recreation
- 5. Corporate Services (Facilities)
- 6. Development & Compliance Services



### Strategic Plan – Progress Report





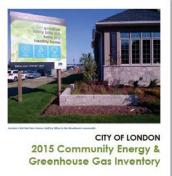


### Five examples of reporting

Program	Frequency	Reporting to/how:		
Energy Use & GHG     Inventory	Annual	<ul><li>CWC to Council</li><li>Submitted to CDP, others</li><li>Webpage</li></ul>		
2. Community Energy Action Plan (focus on City actions)	Annual	<ul><li>CWC to Council</li><li>Shared locally with partners</li><li>Webpages</li></ul>		
3. Water	Annual & Updates	<ul><li> CWC to Council</li><li> Shared locally with partners</li><li> Webpages</li></ul>		
4. Solid Waste Management	Annual & Updates	<ul><li>CWC to Council</li><li>Project webpage (Road Map)</li><li>Webpages</li></ul>		
5. CityGreen (community outreach)	Ongoing	<ul><li>Community events</li><li>Webpage</li></ul>		



### Annual energy & GHG inventory reportings



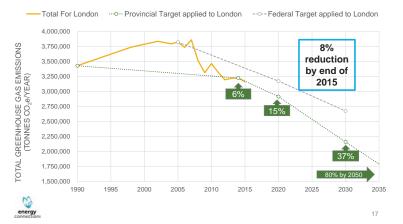


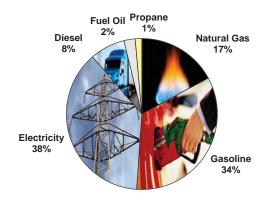


- 1. Total GHG emissions are 8% below 1990 levels
- 2. Per person, Londoners & London businesses released 25% fewer GHGs than they did in 1990



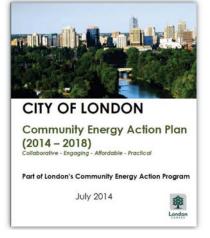








### Addressing Climate Change



COMMUNITY
ENERGY
CONNECTIONS
PROGRAM



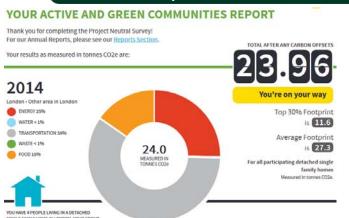
Communities Engagement

Pyre Community
Organization

Revy
Organization

Active & Green







## We think more people may care about money

How You Compare to Your Neighbours				
	YOUR HOUSEHOLD ANNUAL CONSUMPTION DATA	COMMUNITY AVERAGE ANNUAL CONSUMPTION DATA	HOUSEHOLD BENEFIT COMPARED TO YOUR COMMUNITY	
Saving Money				
Gas	\$1,035	\$1,901	\$866+	
Electricity	\$1,736	\$3,127	\$1,391+	
Water	\$818	\$1,411	\$593+	
Personal Vehicle Use	\$3,369	\$3,216	\$153-	
Your household's annual savings are (compared to the average)			\$2,697	

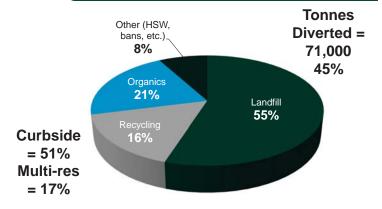
# Water – one of the most regulated areas in Ontario





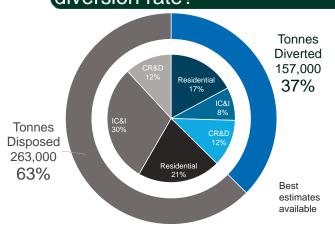


Waste management – what is the London's residential waste diversion rate?





# Waste management – what is London's overall waste diversion rate?





## CityGreen – reporting progress at events





## CityGreen – reporting progress at events





### **Summary - Presentation**

- 1. Sustainability in cities is a focus in North America but not well understood or easy to compare.
- 2. City of London has taken a collaborative sustainability approach (shared responsibility).
- 3. Council continues to make it a Focus Area.
- 4. Many Service Areas (if not all) have (environmental) sustainability as a foundation for projects and programs.
- 5. Metrics and indicators of (environmental) sustainability are reported and new ones developed.

## Next Steps – Part Two Presentation??

- Reminder this Part One presentation provided a high level peak at some areas of the CoL in the broad area of the environmental sustainability.
- 2. Understanding what ACE is trying to examine/achieve would permit more complete information to be made available by technical specialists in the appropriate areas.

### Advisory Committee on the Environment Waste Sub-Committee Report

**Meeting Date/Place:** Wednesday, June 22, 2016, home of Janice Howell **In Attendance:** Mary Ann Hodge, Tom Arnos, Carrie Warring, Janice Howell

Guest: City Councillor Stephen Turner

Unable to Attend: Mike Bloxam, Ken Birchall

### Organic Waste Diversion (#1 on work plan)

It was noted that 45% of residential waste is organic, London is the only large city in Ontario without an organic waste diversion program or a Green Bin (GB) program and W12A landfill has approximately 10 years remaining.

Currently the most effective way to divert residential waste from landfill, with the greatest impact, is an organic waste or GB program:

- it is very costly to implement
- it was voted down by City Council and will likely not be initiated before the next 4 year budget cycle.

It was noted that new legislation such as Waste-Free Ontario Act (Bill 151), and the Climate Change Mitigation and Low-Carbon Economy Act (Bill 172) will have a major impact on options/directions for municipalities.

#### Goals of the sub-committee

- continue research/exploration into a GB program for the next budget (4 years)
- examine other cities' highly successful GB programs (ie. Toronto, Halton)
- review the new Ontario Acts and legislation and how they will affect the City's direction
- research the leading edge technologies for **total** residential waste diversion including costs, benefits and limitations (ie. Edmonton, HRO in Europe)
- focus on a sustainable system environmentally and financially. Examine waste flow in a circular economy model while continuing to promote the principles of reduce, reuse and recycle.
- Prioritize waste management systems that have a net zero environmental effect
- Focus on waste as a resource technology where 'waste of today can be the commodity of tomorrow" (Biogas, Anaerobic Digester facility, landfill gas recovery i.e. Edmonton Waste Management Centre of Excellence)
- Follow the progress of City staff and electorate regarding development of a resource recovery centre.

### Urban Agriculture Conference: "Urban Agriculture: London's Food Future"

#### Aims of this event:

- To raise awareness on the current state and future potential of Urban Agriculture in the City of London
- To serve as a forum for public engagement and empowerment to move the agenda of Urban Agriculture forward

#### **Conference themes:**

- Urban Agriculture Policy for Municipalities
- Food Security through Urban Agriculture
- The Economics of Urban Agriculture
- Appropriate Technology for Urban Agriculture
- The Role of Fruit and Nut Trees in Urban Agriculture
- The Role of Animals in Urban Agriculture

**Date:** November 19<sup>th</sup>, Saturday, 10am to 3pm.

Space: Wolf Hall, Stevenson Hunt room, Hallways

**Organizing committee:** Sarah Brooks (ACE), Skylar Franke (AAC), Susan Hall (ACE), Gabor Sass (ACE), Diane Szoller (ACE), Patsy Morgan (London Public Library)

### Schedule: (10 to 3 pm)

- 10:00 introductions (overview of London's commitment to Urban Ag) Tanya Park, Ward 13 Councillor for City of London & John Fleming, City of London Chief Planner
- 10:15-10:45 plenary speaker (Big picture comments on Urban Ag) Lauren Baker, Toronto Food Policy Council
- 10:45-11 break
- 11-12 breakout sessions (3 sessions, each with two speakers and a facilitator)
  - Urban Agriculture Policy for Municipalities (Lauren Baker, Toronto Food Policy Council & Ellen Lakusiak, London Food Policy Council)
  - Appropriate Technology for Urban Agriculture (Gary Wozniak, Recovery Park Detroit & Terry Nother, Local Sustainability Entrepreneur)
  - The Role of Fruit and Nut Trees in Urban Agriculture (Suzan Poizner, Orchard People Toronto & Jessie Robertson, Wildcraft Permaculture)
- 12-1 lunch (in foyer and in Organic Oscars)
- 1-2 breakout session (3 sessions, each with two speakers and a facilitator)
  - Food Security through Urban Agriculture (Angela ElzingaCheng, FoodShare Toronto & Becky Ellis, EarthMagic Permaculture)
  - The Role of Animals in Urban Agriculture (Lorraine Johnson, Edible City Toronto & Celeste Lemire, Urban gardener)
  - The Economics of Urban Agriculture (Robert Orland, Backyard Bounty Guelph & Jeff Pastorius, On the Move Organics)
- 2-3 Call to Action! Public Engagement and Networking (Wes Kinghorn, Urban League of London)
- 3:30 5:30 Pints and Agriculture Continuing the dialogue at Fox and Fiddle.