

City of Vaughan | Greenhouse Gas Emission Community Action Plan

Steering Committee Meeting #2

October 23, 2013





WELCOME!

Meeting Purpose

- “ Develop a vision elements or series of vision statements for further consultation at the community forum
- “ Develop a defined long-list of potential GHG reduction actions relevant to Vaughan (that can be used for public input at the community forum)
- “ Discuss next steps in identifying a short-list of actions

Meeting Agenda

Introduction

Review Agenda and Meeting Summary

Vision Exercise

Trends and Best Practices from other Municipalities

Discussion on Potential GHG Reduction Actions

Approach to Identifying a Short-List of Actions

Wrap Up



MEETING SUMMARY & ACTIONS

Meeting Summary and Actions

- “ Transportation emissions
- “ Update on Communication and Engagement
 - “ Community Forum – November 13th 6:30-9:00
joint session with Natural Heritage Network
 - “ Online engagement – IdeaScale
 - “ Social media
 - “ Communication mechanisms

The background features several light blue, soft-edged shapes that resemble clouds or abstract organic forms, scattered across the white page. The largest shape is at the top, with another large one on the right side, and a smaller one on the left.

VISION EXERCISE

Community Action Plan Framework



Vision

Goals & Targets

Actions

What is a Vision?

- “ The word vision comes from the Latin word ‘vidre’ or to see.
- “ When we talk about vision we are creating a picture of the future we want to see.
- “ The more rich it is, the more compelling the vision is.



Climate Vision for Vaughan

- “ Aspirational statement of our community’s future that we hope to achieve in terms of greenhouse gas emission reduction.
- “ Establishes the direction for goals, targets and actions.
- “ Informs the answer to the question, “Where do we want to go?”

Example Visions

- “ Waterloo Region is a progressive, sustainable and collaborative community with a low carbon impact and a high quality of life (draft).
- “ Durham Region is a carbon-neutral, sustainable, prosperous and resilient community with a high quality of life.
- “ Guelph will create a healthy, reliable and sustainable energy future by continually increasing the effectiveness of how we use and manage our energy and water resources

Small Group Exercise – Vision

- “ Discuss the key elements/words that will define the Vaughan community (in 10+ years) as a result of climate action
- “ For each question, write one key word per card

1. Who will climate action help?
2. How will climate action improve the greater good?
3. What are the outcomes achieved through climate action?



Trends and Best Practices from other Municipalities





Outline

- Review of community emission sources
 - Trends and best practices
 - Built environment
 - Residential sector
 - Institutional, commercial, industrial (ICI) sector
 - Transportation sector
 - Waste sector
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Community emission sources

Sector	Emission sources
Residential Institutional Commercial Industrial	i. Direct emissions from fuel consumed in buildings (natural gas, fuel oil, propane, etc.) ii. Indirect emissions associated with electricity consumption
Transportation	i. Direct emissions from motor fuel consumed by vehicles travelling in the municipality (e.g. gasoline, diesel, CNG, etc.)
Waste	i. Indirect emissions from community waste sent to landfill outside the municipality

Built environment

- Trends in the built environment (residential & ICI sectors)

Action	Reference Case
Green building standards, checklists, & guides	Vaughan: Measuring Sustainability of New Development (pilot phase- Q4, 2013) Toronto: Green Building Standards East Gwillimbury: Thinking Green! Development Standards Ontario wide: BOMA Best
Local district energy utility & projects	Vaughan: VMC & Hospital district energy systems Guelph: Envida Community Energy Markham: Markham District Energy
Funding for community projects	Caledon: Green Schools Fund Waterloo (Region): Community Environmental Fund

Residential sector

- Trend in the residential sector
 - Local renewable energy generation
 - Toronto: Solar Neighbourhood Pilot Program
 - 100 solar hot water systems - cash & no-cost financing
 - Goals: raise awareness, create visibility, address barriers
 - Gibsons: Geo-exchange district energy system
 - Services houses in new subdivision with local developer
 - Engagement
 - Vaughan- Community Garden promotion
 - Sustainable Neighbourhood Retrofit Action Plan (SNAP) projects
 - Toronto, Markham, Brampton, Richmond Hill
 - Incentives
 - Markham: Community Energy Conservation Program- with Enbridge
 - Province wide – Ontario Power Authority Save on Energy Program



Residential sector

- Emerging best practice in the residential sector
 - Local Improvement Charge (LIC) financing
 - Toronto: Residential Energy Retrofit Pilot Program
 - Key features of LIC financing:
 - » Homeowner chooses to participate
 - » Surcharge applied on property tax bill (cost of retrofit & nominal fee)
 - » Homeowner repays over an agreed period of time
 - » LIC balance remains with property, not property owner
 - Halifax Regional Municipality: Solar City Pilot Program
 - 1,000 solar hot water installations goal (currently 1,600 homeowners signed up)
 - Over 500 assessments completed & 100 homeowners accepted offers



ICI sector

- Trend in the ICI sector
 - Awards to recognize and encourage leadership
 - Caledon: Green Business Award
 - Recognizes contribution of small business leaders in protecting the environment
 - Eligible businesses incorporate sustainability & climate change into organization/practices/vision
 - Stony Plain: Ambassadors of Action Sustainable Business Award
 - Acknowledge contributions of a local business in supporting & strengthening culture of sustainability
 - Award-winning achievements must clearly incorporate or build upon the four pillars of the Town's Community Sustainability Plan





ICI sector

- Emerging best practice in the ICI sector
 - Business energy advisor
 - LiveSmart BC: Small Business Program
 - Provides free business energy advisor services
 - » Energy assessments
 - » Recommendations for operational & behavioural changes
 - » Identification and help applying to utility incentive programs
 - » Coordination of product installations
 - Grants for creative energy-saving ideas
 - PowerStream- Roving Energy Manager
 - Business engagement
 - Sustainable Waterloo- Regional Carbon Initiative
 - Advance sustainability through GHG reductions



Transportation sector

- Trends in the transportation sector (focus on municipal action, not regional transit)


Action	Reference Case
Anti-idling	Various: bylaws & education/awareness
Alternative transportation	Various: Car share, carpooling, &/or transit education & awareness Mississauga: Discount Transit Program Pilot Richmond Hill: Transportation Parking Strategy (draft)
Active transportation	Various: Promotion of events (bike to work week, commuter challenges, etc.) Various: Cycling education and skills training Various: Creation/improvements to lanes/routes Various: “Complete Streets Policy” Mississauga: Secure Bike Parking Pilot

Transportation

- Emerging best practice in the transportation sector
 - Zoning bylaw requirements for bicycle parking & amenities
 - Requirement tied to use (residential, office, retail, etc.) & size & number of units
 - Minimum standards for bicycle parking spaces
 - Define parking types
 - Toronto: shower & change facilities are required in buildings containing uses other than dwelling units where there are more than 5 bicycle parking spaces required
 - Edmonton: 5% (20% in the downtown) of the total parking spaces required must be provided as bicycle parking
 - Fuel switching
 - Surrey: Bylaw requiring alternative fuels at new gas stations



Waste sector

- Trends in the waste sector are being met
 - Organics collection
 - Various recycling measures in place
 - Landfill with extensive landfill gas collection system
 - Waste diversion targets
 - Integrated Waste Management Plan (SM4RT Living Plan)
- 

Waste sector

- Emerging best practice in the waste sector
 - Surrey: Holistic approach to waste management
 - Three interconnected measures closing the loop on waste:
 - Alternative fuel collection trucks
 - » Compressed Natural Gas (CNG) fleet emits 23% less carbon emissions & 90% less air particulates than diesel trucks
 - Education & awareness
 - » Rethink Waste Collection Program
 - Organic waste biofuel facility
 - » Will process collected organic waste into vehicle grade natural gas to fuel waste collection trucks
 - » Will be developed through a public-private partnership



Contact

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The background features several light blue, stylized cloud shapes. One large cloud is positioned in the upper left, another large one in the upper right, and a smaller one in the lower right. The word "QUESTIONS?" is centered in the middle of the page.

QUESTIONS?



POTENTIAL GHG REDUCTION ACTIONS

Instructions

- “ As small groups....
 - . Go to one of the four table stations that you feel you have most to contribute
 - . Review list of potential actions
 - . Provide your input on the worksheets
- “ If you wish, rotate to one other table at halfway point
- “ The table facilitator will brief you on the previous groups conversation
- “ Add additional input



Key Questions

For each sector, consider...

1. What are the best potential actions that can be taken by the Vaughan community to reduce greenhouse gas emissions in this sector?
2. What would it take to make each action work for Vaughan?
3. Are there any current initiatives that can be leveraged?
4. Are there any other actions we should consider?



SELECTING A SHORT-LIST OF ACTIONS

Things to Consider...

- “ Greenhouse gas emissions reduction potential
- “ Opportunity to bundle actions (e.g. comprehensive programs)
- “ Level of program uptake/public acceptance
- “ Realistic and achievable (e.g. technical/financial)
- “ Opportunity to leverage existing programs
- “ Existing partners available
- “ Opportunities for new partnerships

Next Steps

- “ Review of Steering Committee input
 - . Reword
 - . Merge
 - . Bundle
 - . Remove
- “ Online survey for Steering Committee
 - . Email link by Monday
 - . One week to complete
- “ Evaluate public acceptance/feedback
- “ Report back at next Steering Committee meeting

Public Evaluation of Actions

“ Public prioritization

- Community Forum
- Online – IdeaScale


“ Outcomes of public prioritization

- Public acceptance
- Greenhouse gas emissions reduction potential
- Recommendations that refine actions towards Vaughan context

Actions in Business : Browse Popular Ideas

Changes in industrial, commercial, and institutional operations have the potential to reduce greenhouse gas emissions in Waterloo Region. Tell us what you think of these actions as ways to reduce GHG emissions and take climate action locally. Or, if you feel something is missing, add your own suggestion for action in the appropriate category.


Recent (0) Popular (17) Hot (0) In Review (0) In Progress (0) Complete (0)

 I agree

Feedback Score


5

+5 -0


 I disagree

Convert streetlights to energy efficient LED fixtures

Convert city- and regionally-operated streetlights to energy efficient LED fixtures. The Task Force has identified this as a potential action to include in the Climate Action Plan. The impact of this action on reducing greenhouse gas emissions has already been estimated and included in the Action Plan Database. What do you think of this action? Are there other city and regional fixtures that could be made more ... [more](#) »

 Add your comment


Submitted by [Anna Melnik](#) 7 months ago

 I agree

Feedback Score


3

+3 -0

 I disagree

Combined heat and power cogeneration

Conduct a survey of the heat and power requirements of the industrial/commercial/institutional sector in Waterloo Region to identify opportunities for district energy, cogeneration and waste-heat recovery. Install combined heat and power (CHP)/cogeneration units at the Kitchener, Galt, and Waterloo Wastewater Treatment Plants. The Task Force has identified this as a potential action to include in the Climate Action ... [more](#) »

 Add your comment

Submitted by [Anna Melnik](#) 7 months ago



WRAP UP



Next Steps

- “ Compile meeting summary
- “ Follow up online survey to Steering Committee re: vision statements and long list of actions
- “ Community Forum Nov. 13th
- “ Online engagement - IdeaScale
- “ Post Nov. 13th – evaluate actions
- “ Next SC meeting
 - . November 20th
 - . Confirm Vision
 - . Craft Goals
 - . Review and refine actions



Schedule

Vaughan GHG Emission Community Action Plan

PHASE 1: PROJECT WORK PLANNING

- CE & C Strategy
- Steering Committee
- Toolkit

PHASE 2: CURRENT CONDITIONS & TARGETS

- Current Conditions
- SWOT Analysis

PHASE 3: VISION & GOALS

- Long list of Actions
- Community Forum #1
- Draft Targets
- Draft Vision, Goals & Targets
- Priority Actions

PHASE 4: RECOMMENDATIONS FOR IMPLEMENTATION

- Develop Recommendations for Implementation

PHASE 5: PREPARE DRAFT & FINAL CAP

- Preliminary Plan
- Consultation on Draft Plan
- Refine Draft Plan
- Final Plan
- Presentation to Committee of the Whole

Social Media and Communications Outreach

Steering Committee Meetings

Community Consultations



JULY

AUG.

SEPT.

OCT.

NOV.

DEC.