

# Partners for Climate Protection

## Developing a Climate Action Plan

January 10<sup>th</sup>, 2018

Welcome

We will get started at 2 pm

# Webinar Instructions

- Can connect to audio via computer
- Speakers or headphones with no microphone – will need to chat in questions
- Headset with microphone – can speak via head set
- Call in via phone – choose the phone option on the audio controls call into phone number, input access code and PIN #
- Just raise your hand to be unmuted
- Can mute via phone symbol on webinar controls
- Any issues? Just sent me a note via chat or questions

# What is PCP?

- PCP is a network of >300 municipal governments that have committed to reducing GHGs and acting on climate change.
- PCP is a partnership between the FCM and ICLEI – Local Governments for Sustainability.
- It is the Canadian component of ICLEI's Cities for Climate Protection (CCP) network.
- Operating in Canada since 1994

# How does it work? – Milestone framework

- Commitment Stage: Council resolution to join PCP
- Milestone One: Create a GHG emissions inventory and forecast
- Milestone Two: Set an emissions reductions target
- Milestone Three: Develop a local action plan
- Milestone Four: Implement the local action plan or a set of activities
- Milestone Five: Monitor progress and report results

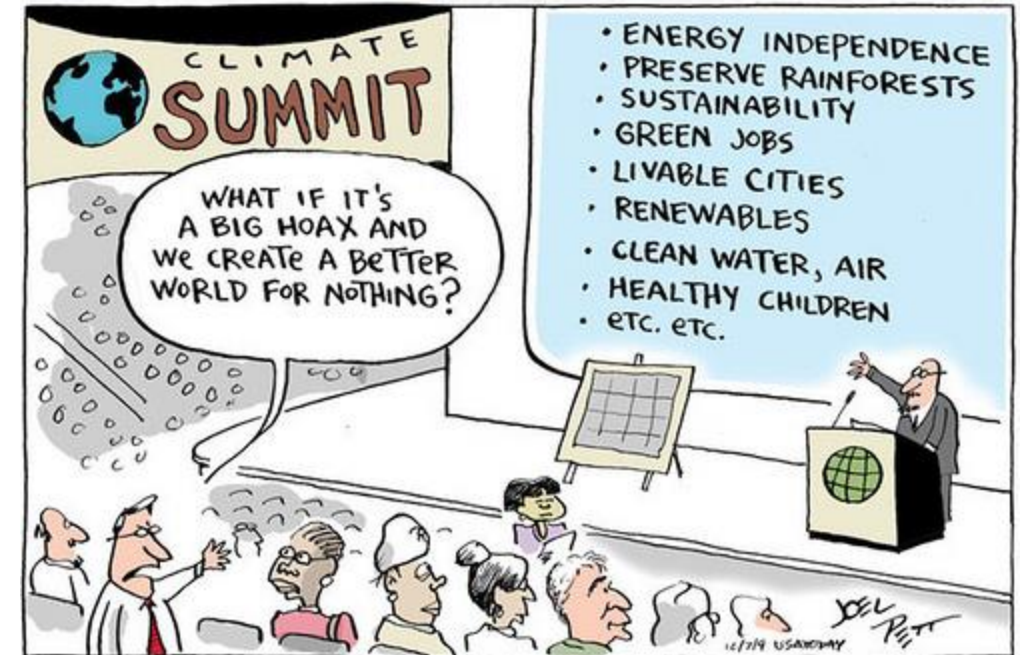


# Who is here to help?



# Why Develop a Climate Action Plan?

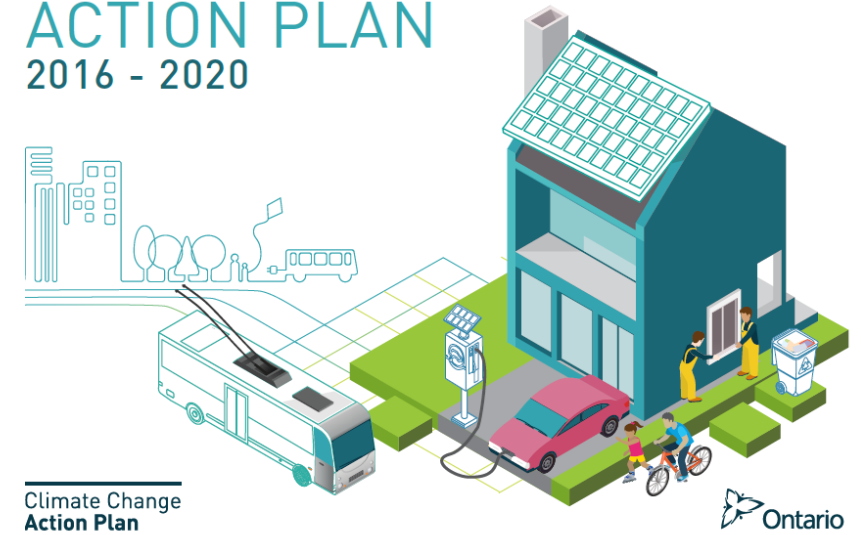
- Reduce air pollution and GHGs
- Cost savings
- Retention of energy dollars
- Job creation, local economic development
- Increased mobility opportunities
- Reduced energy pricing vulnerability
- Increased Plan and Policy Integration
- More livable communities
- More funding opportunities



# Provincial Policy to Support Climate Action

- Ontario's Climate Change Action Plan
- Speaks to the municipal role in achieving ghg reduction target
- Incorporate climate change into OPs
- Planning Act
- Municipal Act
- Support for Climate Action Plan development and implementation

ONTARIO'S FIVE YEAR  
CLIMATE CHANGE  
ACTION PLAN  
2016 - 2020



# Municipal Control and Municipal Influence

**Communities account for  
60% of GHG emissions in  
Ontario**

**Municipal Operations –  
3 - 10% of GHG emissions**

**BUT, Municipalities have  
indirect control of 40%  
of GHG emissions**

**How communities are  
planned has an enormous  
influence on how much  
energy is used**



# Components of a Climate Action Plan

- Milestone # 1: Energy and Emissions Inventory and Forecasts
- Stakeholder Engagement
- Action Identification and Prioritization
- Milestone # 2: Target Setting
- Integration of Monitoring and Reporting Framework into Action Plan
- Milestone # 3: Action Plan Approval

# Milestone One: Inventory and forecast

- Corporate inventory
- Community inventory
- Future emissions projection
- Clarification on assumptions made and coefficients used

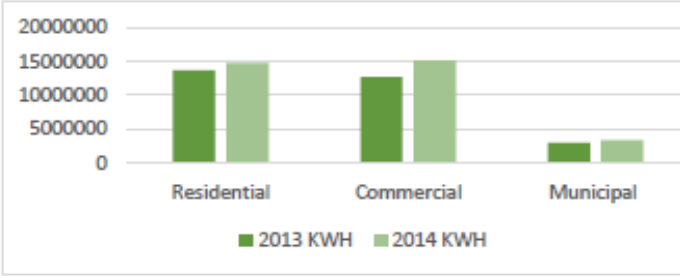
# Data Sources & Analysis

- LDCs Natural Gas Utility
- CDM Plans
- IESO
- Transportation
- Coefficients, land use data, building demographics
- Growth and land use projections
- MPAC data
- Perspectives: energy use, ghg emissions, sectoral, geographical, energy type, economic, future scenarios



Wawa Electrical Consumption by Sector for 2013 and 2014<sup>13</sup>

	2013 KWH	2014 KWH
Residential	13, 646,002.12	14, 679,335
Commercial	12, 662,602.23	15, 060,320.9
Municipal	3, 039,167.39	3, 432,989.77
TOTAL	29, 347,771.74	33, 172,645.67



How much did we spend on energy in 2014 within Waterloo region?

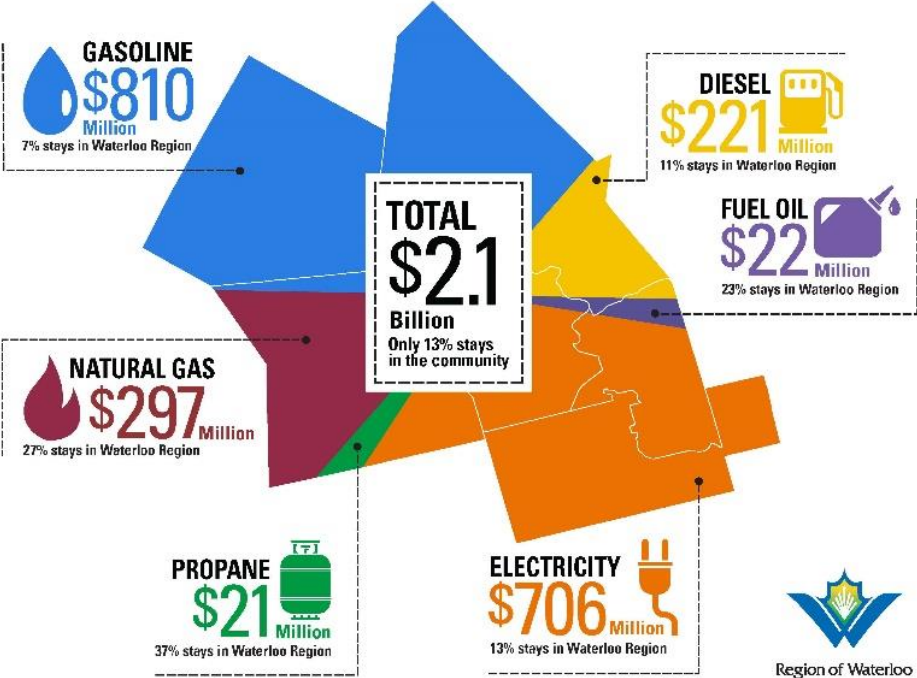
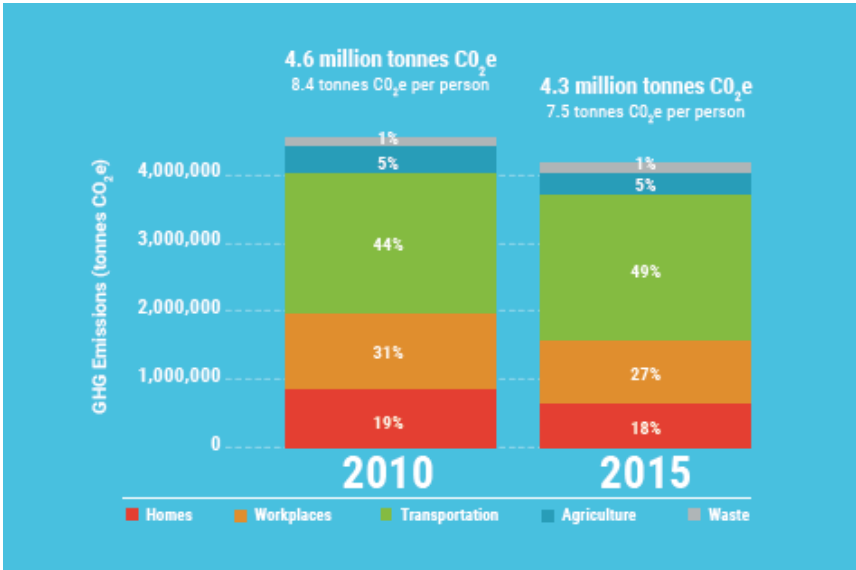
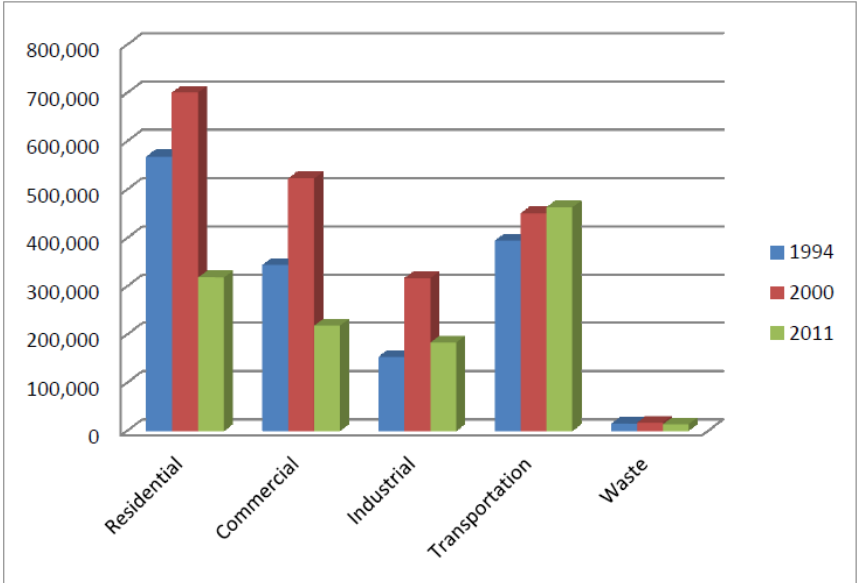


Figure 2.19 - Community GHG Emissions by Sector – 1994 – 2011 – Burlington (Tonnes)



# Internal/External Stakeholder Engagement

- Internal: Council, Economic Development, Planning, Environment, Engineering, Finance, Public Works and Infrastructure, Forestry, Public Health, Transportation (as a top priority – but really should be a all of government approach)
- External: Utilities; provincial partners (MOE, MOECC, IESO); School Boards/Colleges/Universities; NGOs; Chambers of Commerce; Developers and Builders; Businesses & Industry; neighborhood associations; Energy Co-ops; BIAs; etc.

# Role of Stakeholders

- Key to ensuring Implementation of the Climate Action Plan
- Early and sustained engagement is vital
- Stakeholders are also leaders
- They build awareness and energy literacy
- They help implement the Action Plan

# Milestone Two: Emissions Reductions Target

- IPCC: 25 – 40% lower by 2020 and 80 – 95% by 2050
- Ontario: 15% by 2020; 37% by 2030; 80% by 2050
- PCP: 20% below baseline (corporate) and 6% below baseline (community) within 10 years
- Bottom up or top-down approach?
- Corporate, community targets
- Per capita versus absolute reductions

# Action Identification and Prioritization

- Identification of existing actions and Plans
- Identification of Plans approved by stagnant
- Mapping out of alignment
- Include stakeholder actions in Action Plan
- Climate Action Menu
- Prioritization actions for which resources are allocated



# Climate Action Menu

## IN THE CORPORATE SECTOR:

- 1** Retrofit buildings and adopt green building standards for new buildings and sites.
- 2** Change traffic lights to energy-saving light-emitting diodes (LEDs).
- 3** Replace streetlights with more efficient bulbs.
- 4** Start a water conservation program.
- 5** Plant trees to improve air quality.
- 6** Start an anti-idling program for municipal vehicles.
- 7** Create staff incentives for carpooling and the use of public transit.
- 8** Promote green fleet management practices such as 'right sizing', low carbon fuels, and hybrid/electric vehicles.
- 9** Purchase renewable energy or develop local sources for generation (such as wind, solar or district energy).
- 10** Implement comprehensive landfill gas recovery systems at municipal landfill sites.

## IN THE COMMUNITY SECTOR:

- 1** Start a community-wide composting program.
- 2** Sell rain barrels at a reduced cost and launch an awareness program on water conservation.
- 3** Use financial incentives to help residents reduce waste.
- 4** Promote energy efficiency in the industrial sector.
- 5** Create incentives for using public transit.
- 6** Use bylaws and development approval incentives to increase building standards and land use mix.
- 7** Support and encourage energy efficiency initiatives in the residential and private sectors.
- 8** Develop and maintain infrastructure friendly to pedestrians and bicycles.
- 9** Initiate commuter challenges to reduce vehicle use.
- 10** Support community garden initiatives or urban agriculture using surplus land or by developing green roofs.

# Climate Actions Menu

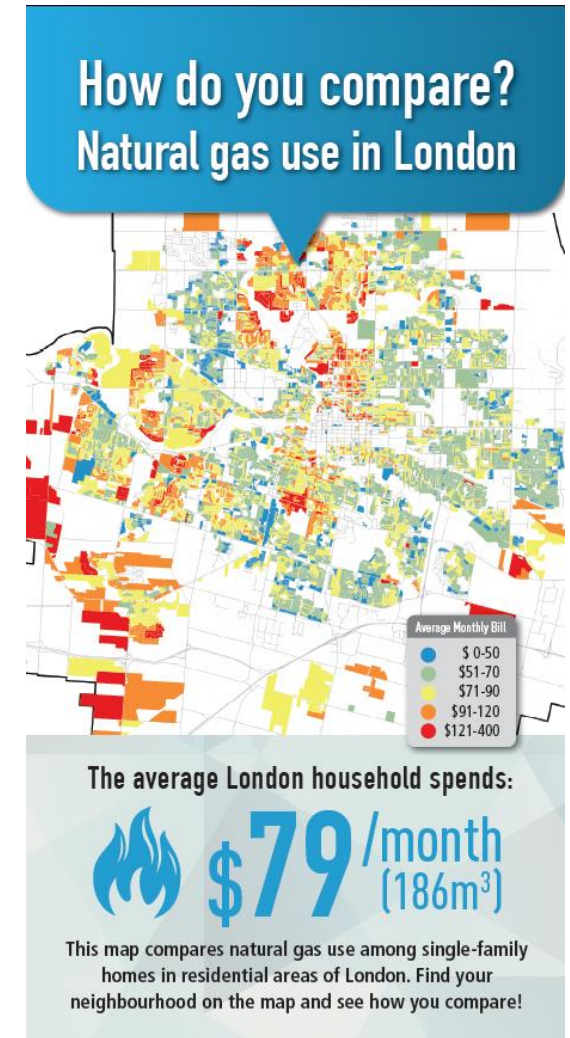
- ✓ Land Use Policies & Plans
- ✓ Compact, Efficient, Mix-Use, Infill, Redevelopment, Intensification, Growth Nodes, Mobility Hubs
- ✓ Official Plan Policies to Support Community Energy Planning
- ✓ Transportation Planning & EV Infrastructure
- ✓ Active Transportation, Complete Streets and Transportation Demand Management Policies, Plans and Programs
- ✓ Green Building & Development Standards & Mandates (Toronto, Richmond Hill, Halton Hills, Vaughan, Brampton, etc)
- ✓ Green Development Programs, Checklists
- ✓ Tracking of Uptake of Metrics in Standards
- ✓ Energy Use Performance

# Climate Actions Menu

- ✓ Energy & Water Efficiency Retrofits
- ✓ Utility, LIC, Rebates
- ✓ Energy Use Disclosures & Conservation Programs and/or Requirements
- ✓ Energy & Building Labelling
- ✓ Energy Performance/Benchmarking Labelling & Disclosure

# Energy Literacy and Engagement

- ✓ How much energy is Used?
- ✓ How do we use it?
- ✓ What does it really cost?
- ✓ What success stories exist?
- ✓ What supports are there?
- ✓ What related areas are affected?



# What to Include in Climate Action Plans

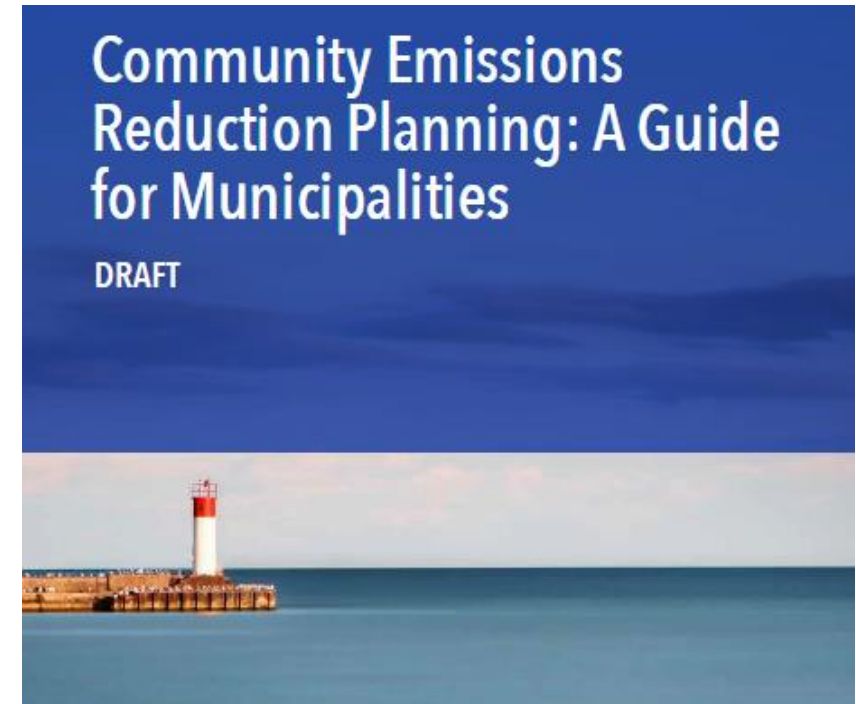
- Speak to the science
- Speak to the international, national and provincial context
- Local benefits and co-benefits!!!
- Speak to Action Plan process
- Provide inspiration/hope
- Create realistic expectations
- Building community support for more resources, more stakeholders, collective action necessity
- Gathering input re: community outreach, social media, role of stakeholders
- Implementation Plan and Budget
- Monitoring and Reporting Framework

# Supports available

- PCP Hub
- PCP milestone tool
- Enrollment support
- Peer learning
- Funding support
- Technical support
- Provincial alignment support
- RFP development support

# GHG Reduction Planning Guidelines

- Draft Community Emissions Reduction Planning: A Guide for Municipalities
- [EBR Registry # 013-2083](#)
- Webinars are scheduled for **Tuesday, January 23, 2018** and **Wednesday, January 31, 2018**. Registration Link: [Eventbrite – Community Emission Reduction Planning Webinars](#)
- CAP will be submitting feedback – If your jurisdiction would like to be involved in the compiled CAP/CAC input, let me know





# Funding

**SHOW  
ME THE  
MONEY**



# Federation of Canadian Municipalities

- Municipalities for Climate Innovation Program (MCIP): No longer accepting open applications for Plans, Studies and Capital Projects
- Specific calls for applications including Staff Support Grants, Transition 2050 will take place in 2018.
- Climate and Asset Management Network - A professional network that provides training and grant funding to enable municipalities to integrate climate change considerations into infrastructure decisions. Call will be issued in 2018.

# FCM Green Municipal Funds (GMF)

- Sustainable neighbourhood and brownfields action plans
- Energy efficiency and recovery
- Transportation and fuel efficiency
- Water quality and conservation
- Waste management and diversion
- Brownfields

# Provincial Government

- [Clean Water and Wastewater Fund \(CWWF\)](#)
- [Ontario Gas Tax Funds](#)
- [Infrastructure Ontario Loans](#)
- [Ontario's Municipal Energy Plan Program \(MEP\)](#)
- [The Continuous Improvement Fund \(CIF\)](#)
- [Ontario Municipal Cycling Infrastructure Program](#)
- [Municipal GHG Challenge Fund](#)
- [Electric Vehicle Charging Incentive Program](#)
- [IESO Energy Partnerships Program](#)

# Roundtable

1. Where is your jurisdiction at re: Climate Action Planning ?
2. What are some of the issues you have encountered?
3. What are the supports that would be of most value?
4. Questions?

# Upcoming Webinars

**Implementing Climate Action Plans, February 14<sup>th</sup>, 2018, 2pm** [Register here](#)

**LICs for Energy Efficiency Improvements, March 7<sup>th</sup>, 2018, 2pm** [Register here](#)

# Thank You!

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