

# Clean Air and Climate Change Action Plans Scan Greater Toronto Area Jurisdictions

May 26, 2010



Report to the Greater Toronto Area Clean  
Air Council



Prepared by the Clean Air Partnership



## TABLE OF CONTENTS

Preamble	3
About the Greater Toronto Area Clean Air Council (GTA-CAC)	4
Clean Air Plans and Policies Scan in the GTA Municipalities	19
Town of Ajax	19
Town of Aurora	21
City of Brampton	22
City of Burlington	23
Town of Caledon	24
Municipality of Clarington	25
Regional Municipality of Durham	25
Town of East Gwillimbury	26
Regional Municipality of Halton	27
Town of Halton Hills	29
City of Hamilton	30
Township of King	31
Town of Markham	32
City of Mississauga	33
Town of Newmarket	34
Town of Oakville	35
City of Oshawa	36
Regional Municipality of Peel	38
City of Pickering	39
Town of Richmond Hill	41
City of Toronto	42
City of Vaughan	47
Town of Whitby	48
Regional Municipality of York	48
Provincial Government of Ontario	50
Federal Government of Canada	51
Association of Municipalities of Ontario	51



## PREAMBLE

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### About the Clean Air Partnership

Clean Air Partnership (CAP) is a registered charity that works in partnership to promote and coordinate actions to improve local air quality and reduce greenhouse gases for healthy communities. Our applied research on municipal policies strives to broaden and improve access to public policy debate on air pollution and climate change issues. Our social marketing programs focus on energy conservation activities that motivate individuals, government, schools, utilities, businesses and communities to take action to clean the air.

Clean Air Partnership's mission is to transform cities into sustainable, vibrant, resilient communities, where the air is clean to breathe and greenhouse gas emissions are minimized.

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### About the Greater Toronto Area Clean Air Council (GTA-CAC)

The Greater Toronto Area Clean Air Council promotes the reduction of air pollution and greenhouse gas emissions and increased awareness of regional air quality and climate change issues in the Greater Toronto Area through the collective efforts of all levels of government. The Council identifies and promotes the most effective initiatives to reduce the occurrence of air pollution and greenhouse gas emissions in the GTA, and their associated health risks. The goals of the Council are:

- To enable solutions to air quality and climate change challenges through a dynamic network that expands knowledge and enthusiasm, and encourages practical and successful policies and actions.
- To promote a better understanding of air quality and climate change problems and their implications for public health among policy makers and to improve their ability to address these problems in an economically effective way;
- To explore opportunities for joint initiatives to reduce air pollution and greenhouse gas emissions in the GTA; and
- To liaise with municipalities in the GTA and across Canada, organizations with compatible mandates, and communities within the region to share best practices for reducing air pollution and greenhouse gas emissions.

### About the Toronto and Region Inter-Governmental Declaration on Clean Air

On June 4<sup>th</sup>, 2008 CAC member municipalities signed on to the *Toronto and Region Inter-Governmental Declaration on Clean Air*, committing them to take action on clean air and climate change. **Article 3.1** of the Declaration calls on the signatories to:

***“Development of Action Plans outlining actions aimed at reducing energy use and mitigating air pollution and climate change.”***

**Target: 20 members have approved corporate Action Plans by 2010 and 15 members have approved community Action Plans by 2010.**

This scan was developed in response to the above GTA-CAC Declaration Action Plan commitment, and is primarily intended to provide a list of municipalities that have approved corporate and community Action Plans and provide more information and links to Plans and actions being undertaken.

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Ajax</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Town of Ajax Official Plan</a></li> <li>▪ Energy Management Plan</li> <li>▪ <a href="#">Green Fleet Plan</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Official Plan is currently under review; new environmental policies will be discussed and outlined.</li> <li>▪ Corporate Milestone 1 - Partners for Climate Protection program is currently underway and expected to be completed in 2010.</li> </ul>		<ul style="list-style-type: none"> <li>▪ Integrated Community Sustainability Plan (ICSP) currently underway, expected to be completed in 2011.</li> </ul>
<b>Aurora</b>	In progress	<ul style="list-style-type: none"> <li>▪ Draft Environmental Action Plan is being circulated, is expected to be completed later in 2010.</li> <li>▪ Are investigating Green Fleet Strategies.</li> </ul>		

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Brampton</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Environmental Master Plan</a></li> <li>▪ <a href="#">Green Fleet Policy</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Environmental Master Plan being developed through public consultation in early 2010.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <a href="#">Environmental Master Plan</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Environmental Master Plan being developed for 2010.</li> </ul>
<b>Burlington</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Corporate Energy Management Program</a></li> <li>▪ <a href="#">Greening the Fleet Corporate Transition Strategy</a></li> <li>▪ <a href="#">Burlington Strategic Plan (section 5- Environmental Stewardship)</a></li> <li>▪ <a href="#">Corporate Sustainable Building Policy (LEED AP on staff)</a></li> <li>▪ <a href="#">Clean Air Plan</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Corporate buildings projects include building automation systems, lighting retrofits and a pilot solar project. Building audits of six arenas completed and retrofits are underway.</li> <li>▪ Energy management plan and tracking coming soon.</li> </ul>		<ul style="list-style-type: none"> <li>▪ <a href="#">Take Action Burlington, A Community Climate Change Summit held.</a></li> <li>▪ Take Action Burlington initiative will lead to the development of the community action plan as part of the PCP program.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Caledon</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Environmental Progress Action Plan 2005</a></li> <li>▪ <a href="#">2007 Environmental Actions Report</a></li> <li>▪ <a href="#">2009 Environmental Action Report</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Monitoring air quality, reporting annually and use data to update the Action Plan.</li> </ul>	<ul style="list-style-type: none"> <li>▪ In progress</li> </ul>	<ul style="list-style-type: none"> <li>▪ Community climate change plan underway in late 2009.</li> </ul>
<b>Clarington</b>	<ul style="list-style-type: none"> <li>▪ Energy Management Plan</li> </ul>	<ul style="list-style-type: none"> <li>▪ Official Plan is currently under review; new environmental policies will be discussed and outlined.</li> <li>▪ Milestone 1 - Partners for Climate Protection program is complete.</li> <li>▪ Milestone 2-3 Partners for Climate Protection is in the work plan for 2010.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <a href="#">Clarington Draft Green Plan</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Integrated Community Sustainability Plan (ICSP) currently underway, expected to be completed in 2011.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Durham Region</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Climate Change Report 2009</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Have established Durham Region Roundtable on Climate Change, an advisory committee dealing with climate change adaptation and mitigation.</li> </ul>	<ul style="list-style-type: none"> <li>▪ In progress</li> </ul>	<ul style="list-style-type: none"> <li>▪ Commitment to develop a community based action plan for mitigating and adapting to climate change outlined in 2009-2014 Strategic Plan.</li> </ul>
<b>East Gwillimbury</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Community Energy Plan</a></li> <li>▪ <a href="#">Energy Initiatives Strategy</a></li> </ul>		<ul style="list-style-type: none"> <li>▪ <a href="#">Community Energy Plan</a></li> <li>▪ <a href="#">Energy Initiatives Strategy</a></li> </ul>	
<b>Region of Halton</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Air Quality Programme</a></li> <li>▪ <a href="#">Green Fleet Program</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Halton's Air Quality Programme aims to improve air quality in the Region.</li> </ul>		

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Region of Halton</b>	<ul style="list-style-type: none"> <li>▪ Energy Management Plan &amp; Green Facilities Management <u>Corporate Sustainability Assessment</u></li> <li>▪ <u>Local Food and Energy Star Procurement Policy</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Includes air monitoring, airshed modelling, and policy development.</li> <li>▪ Biodiesel, driver training, rightsizing.</li> <li>▪ Corporate energy management, including the planning of a new green building policy, lighting retrofits, building automations.</li> <li>▪ Min. of 10% local food content in food services contracts.</li> </ul>		
<b>Halton Hills</b>	<ul style="list-style-type: none"> <li>▪ <u>2007 Green Plan</u></li> </ul>		<ul style="list-style-type: none"> <li>▪ <u>2007 Green Plan</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Sustainability Office established in 2008.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Hamilton</b>	<ul style="list-style-type: none"> <li>Climate Change and Air Quality Strategic Plan 2006</li> <li>Climate Change and Air Quality Strategic Plan Phase 2</li> <li>Corporate Energy Plan</li> <li>Green Fleet Plan</li> </ul>		<ul style="list-style-type: none"> <li>Strategic Plan 2006</li> <li>Strategic Plan Phase 2</li> </ul>	<ul style="list-style-type: none"> <li>Hamilton's Vision 2020 features provisions for reducing GHG emissions and making Hamilton a more environmentally friendly city.</li> </ul>
<b>King Township</b>	<ul style="list-style-type: none"> <li>In progress</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Community Sustainability Plan in progress is scheduled for completion at the end of 2011. Sustainability Steering Committee established in 2009.</li> </ul>	<ul style="list-style-type: none"> <li>In progress</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Community Sustainability Plan is being developed. Township Sustainability Steering Committee established in 2009.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Markham</b>	<ul style="list-style-type: none"> <li>▪ <u>Green Fleet Transition Policy 2004-2007</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ GreenPrint plan expected by Fall of 2010.</li> </ul>	<ul style="list-style-type: none"> <li>▪ In progress</li> </ul>	<ul style="list-style-type: none"> <li>▪ Community Sustainability Plan (the GreenPrint) is currently in development, expected to be presented to council by Fall of 2010.</li> </ul>
<b>Mississauga</b>	<ul style="list-style-type: none"> <li>▪ City Clean Air Strategy 2005</li> <li>▪ <u>Green Fleet Plan 2006</u></li> <li>▪ <u>2009 Strategic Plan</u></li> <li>▪ 2008 Energy Management Plan.</li> </ul>	<ul style="list-style-type: none"> <li>▪ City Clean Air Strategy Approved in 2005 which sets an objective for emission reductions.</li> <li>▪ Strategic Plan has targets and actions throughout the strategic pillars for change that address climate change and clean air.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>2009 Strategic Plan (Living Green Strategic Pillar for Change)</u></li> <li>▪ <u>Draft Official Plan</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Living Green Strategic Pillar for Change calls for renewable energy production and use, a green development standard in the city, loan programs for energy improvements and the development of eco-business zones.</li> <li>▪ Draft OP is currently out for public review.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
Newmarket	In progress	<ul style="list-style-type: none"> <li>▪ Corporate Local Action Plan draft being finalized to implement Milestones 2 and 3 of the PCP program - set targets for emissions reduction and develop a local action plan for corporate operations). Plan should be finalized in 2010.</li> <li>▪ Completed Greenhouse Gas Inventory in 2006.</li> <li>▪ Green Fleet Strategy and LED bulb replacements initiated.</li> </ul>		<ul style="list-style-type: none"> <li>▪ Community local action plan to be commissioned after the implementation of corporate plan commences.</li> <li>▪ Idling by-law in place since 2005, 2 Minute idling limit.</li> <li>▪ EcoLogic Homes – a 34 unit subdivision – constructed to LEED platinum standards.</li> <li>▪ 92 unit subdivisions constructed to LEED silver standards.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Oakville</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Environmental Strategic Plan 2005</a></li> <li>▪ <a href="#">2006 update</a></li> <li>▪ <a href="#">2008 update</a></li> <li>▪ <a href="#">2008 Let's Go Green Update</a></li> <li>▪ <a href="#">2009 State of the Environment Report</a></li> <li>▪ <a href="#">Green Fleet Procedure</a></li> <li>▪ Corporate Sustainable Purchasing.</li> <li>▪ Energy Management Plan.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Environment and Energy Management System (EEMS) was purchased by the Town to link energy use to GHG. Emissions and support energy use analysis and energy efficiency conservation initiatives. EEMS analysis is complete and will be used for baseline measurements.</li> <li>▪ Adoption of Sustainability Policy has led to the creation and implementation of the Green Fleet and Sustainable Purchasing Procedures.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <a href="#">Environmental Strategic Plan 2005</a></li> <li>▪ <a href="#">2006 update</a></li> <li>▪ <a href="#">2008 update</a></li> </ul>	

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Oakville</b>		<ul style="list-style-type: none"> <li>Health Protection Air Quality By-Law to protect residents from the negative effects of fine particulate matter.</li> </ul>		
<b>Oshawa</b>	In progress	<ul style="list-style-type: none"> <li>Established an Office of Energy Management and best practices research is underway on an Energy Management Plan. Advance \$ 1.4 million aggressive capital program to reduce energy consumption and improve energy efficiency.</li> <li>Corporate Sustainability Plan in development.</li> </ul>	<ul style="list-style-type: none"> <li><u>Community Strategic Plan (CSP)</u>,</li> </ul>	<ul style="list-style-type: none"> <li>Community Sustainability Plan outlines priority strategies and actions.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Pickering</b>	<ul style="list-style-type: none"> <li>▪ <u>Municipal Action Plan</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Municipal Action Plans commits to a 50% reduction of corporate GHG emissions from 1995 levels by 2016. The City of Pickering is working on completing Milestones 4 and 5 of the PCP program.</li> <li>▪ Established Office of Sustainability in 2007.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Community Action Plans</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Community Action plan targets a 35% per capita reduction of community GHG emissions below 1995 levels by 2016.</li> </ul>
<b>Richmond Hill</b>	<ul style="list-style-type: none"> <li>▪ <u>Energy Management Plan</u></li> <li>▪ <u>Clean Air Plan 2004</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ Established a corporate goal of reducing GHG emissions by 20% below 2000 levels by 2009. As of 2007, targets had been 80% achieved.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <u>Clean Air Plan 2004</u></li> </ul>	<ul style="list-style-type: none"> <li>▪ A community goal of a 6% reduction in GHG emissions below 2000 by 2010 was set. As of 2007, targets had been 45% achieved.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Toronto</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Clean Air Action Plan</a></li> <li>▪ <a href="#">Green Fleet Plan 2008-2011</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Emissions inventory created in 2007, updated annually and used to determine progress.</li> <li>▪ In 2000, the city made a commitment to get 25% of its power from renewable sources by 2005. This target has not been met, but it is still a goal for the city.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <a href="#">Live Green Toronto</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ District Energy Plans are being developed.</li> <li>▪ \$62 Million Sustainable Energy Fund established to retrofit and develop renewable installations.</li> <li>▪ <a href="#">New Green Development</a> building guidelines in place as of January 2010 – requires new construction to adhere to stringent guidelines regarding energy consumption, water use, green roofs, etc.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
Vaughan	<ul style="list-style-type: none"> <li><u>Green Directions Plan</u></li> </ul>	<ul style="list-style-type: none"> <li>City to conduct energy audits of facilities and implement the recommended improvements for 2009-2010.</li> </ul>	<ul style="list-style-type: none"> <li><u>Green Directions Plan</u></li> </ul>	<ul style="list-style-type: none"> <li>Green Directions Plan features a commitment to PCP milestones for the community.</li> <li>Focusing on building community partnerships, evaluating possibility for district heating, cogeneration and alternative energy production methods.</li> <li>Green building policies are in development.</li> </ul>

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>York Region</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">York Region Sustainability Strategy</a> “Corporate Culture of Sustainability”</li> <li>▪ <a href="#">Regional Official Plan</a> (as adopted by Council December 2009).</li> <li>▪ <a href="#">Water and Wastewater Master Plan Update</a> (2009).</li> </ul>	<ul style="list-style-type: none"> <li>▪ EEMS in place to check efficiency of municipal facilities.</li> <li>▪ Performing wind power feasibility studies.</li> <li>▪ Testing bio-diesel buses and hybrid buses.</li> <li>▪ Reduce GHG and energy use.</li> <li>▪ Improve corporate water and wastewater operations to</li> <li>▪ Vision 2026: Sustainability Progress Report 2009 to be released in June 2010.</li> </ul>	<ul style="list-style-type: none"> <li>▪ <a href="#">York Region Sustainability Strategy</a></li> <li>▪ <a href="#">Climate Change Discussion Paper</a></li> </ul>	<ul style="list-style-type: none"> <li>▪ Strategies and policies to shift emphasis towards transit, walking, cycling, and sustainable development.</li> <li>▪ Vision 2026: Sustainability Progress Report to be released in June 2010.</li> </ul>
<b>Government of Canada</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Canada’s Climate Change Plans</a></li> </ul>			

Jurisdiction	Corporate Action Plan	Notes	Community Action Plan	Notes
<b>Government of Ontario</b>	<ul style="list-style-type: none"> <li>▪ <a href="#">Climate Change Action Plan</a></li> <li>▪ <a href="#">Green Energy Act</a></li> </ul>			<ul style="list-style-type: none"> <li>▪ List of incentives and community based plans available <a href="#">here</a>.</li> </ul>
<b>Association of Municipalities of Ontario</b>		<ul style="list-style-type: none"> <li>▪ AMO provides a number of tools and incentives for Ontario municipalities to lower their energy use and GHG emissions.</li> <li>▪ <a href="#">Making the Most of Energy</a> – a top 10 list of energy efficiency actions.</li> <li>▪ Integrated Community Sustainability Plan <a href="#">Toolkit</a> and <a href="#">Website</a>.</li> </ul>		

## Clean Air Plans and Policies Scan in the GTA Municipalities

### Town of Ajax

#### Corporate Plans and Actions

- Strategic Plan and Community Vision
- Corporate plan in place includes Green Fleet Initiative and Anti-Idling By-law, LEED gold certified fire hall, LEED Waterfront East Pavilion, LEED Operations Centre.
- Official Plan Review
- Part of this review involves strengthening Environment Policies that protect, enhance and restore the natural and built environments. A Discussion Paper and Proposed Official Plan Policies can be found at <http://www.townofajax.com/AssetFactory.aspx?did=6634>. New proposed policies under the Environment Policy review include: Air Quality, Energy and Water Conservation, Green Energy, Climate Change, and Urban Forest.
- **Green Fleet Strategy:** <http://www.townofajax.com/Page3176.aspx>
  - “Right-sizing” the fleet by replacing SUVs and pick-ups with hybrid or more fuel efficient, compact vehicles.
- In 2005, Council approved an Energy Management Plan (<http://www.townofajax.com/AssetFactory.aspx?did=6634>) for Town-owned facilities, traffic signals and streetlights.

#### Key initiatives under this Plan include:

- Traffic Signal Conversion on local roads to light emitting diode (LED), in coordination with the Region of Durham, as signals on Regional Roads in the Town of Ajax will start to be converted in 2009.
- A Metering Strategy will be developed to learn how much energy is being used in each Town facility in peak and off-peak periods. Interval meters will record electricity consumption in regular time intervals – usually every fifteen minutes. Interval meters will provide the Town with the ability to establish an energy consumption baseline for all facilities.
- A Streetlight Replacement Strategy will examine refurbishing existing streetlight lamps and ballasts when scheduled for replacement. Not only is there potential for energy conservation, but existing ballasts containing pollutants will no longer be directed to landfill sites. As well, the Town will also examine the feasibility of “light harvesting”, which involves automatically adjusting streetlight intensity based on the amount of natural light.
- Delivery of Smart Commute TDM to corporate employees.

## Community Plans and Actions

No official community plan approved at present, but the Official Strategic Plan review does make mention of incorporating more environmental goals into the next version of the Official Strategic Plan.

- Integrated Community Sustainability Plan is in development, is expected to be completed by 2011.
  - The ICSP will consider sustainability issues for the whole community
  - The objectives are to facilitate the transition of the Town of Ajax toward a sustainable future by improving the quality of life, including ecological, cultural, political, institutional, social, and economic components without leaving a burden on future generations.
- Milestone 1 (Community) - Partners for Climate Protection program.
  - Completed a community greenhouse gas inventory (energy consumption, energy cost and GHG emissions) using 2005 as the baseline year to coincide with a number of proposed cap-and-trade programs.
- Anti-idling By-law:
  - Idle-Free zones at several locations in the community.
- LEED certified townhouse development has been approved.  
<http://www.townofajax.com/Page2823.aspx>

## Town of Aurora

### Corporate Plans and Actions

No official corporate plan approved at present, however, a draft Environmental Action Plan is being circulated.

The Final Plan is scheduled for release this year. Initiatives that have already been undertaken by the Town include:

- 100% Bullfrog Powered City Hall.
- Retrofitting of municipal buildings is done to energy efficient standards.
- A Green Fleet Management Study has been commissioned.
- Traffic lights replaced with LED lights.
- Green Roof technologies are being investigated.
- Anti-idling policy in place for corporate vehicles.

[http://www.town.aurora.on.ca/aurora/index\\_e.aspx?CategoryID=35](http://www.town.aurora.on.ca/aurora/index_e.aspx?CategoryID=35) - Scroll down to environmental initiatives list.

### Community Plans and Actions

No official community plan approved at present.

## City of Brampton

### Corporate Plans and Actions

- Environmental Master Plan is currently being developed. Public Consultation is slated to begin in early 2010, and the Plan is set to incorporate many new environmental values and initiatives <http://www.brampton.ca/en/Business/planning-development/projects-studies/Pages/Environmental-Master-Plan.aspx>
- The City uses energy efficient LED lights in all of its traffic signals
- All new and redeveloped City buildings and facilities, such as fire stations and recreation centres, are being designed and constructed with 'green building' components as outlined by the Leadership in Energy and Environmental Development (LEED) standards.
- **Green Fleet Page:** <http://www.brampton.ca/en/residents/Environment/Pages/green-fleet.aspx>
- **Green Fleet Initiatives include:**
  - Operation of 12 Smart Cars and 13 Honda Civic Hybrids.
  - Anti-idling policy for corporate vehicles.
  - Biodiesel use (Over 8 million litres of blended biodiesel per year)
  - Right-sizing policy and life cycle analysis for new acquisitions
  - Using modern hybrid electric-diesel buses.
- City has initiated retrofitting on many corporate buildings, including building automation, lighting retrofits and staff training.

### Community Plans and Actions

No official community plan approved at present, but the Environmental Master Plan is currently under development.

- **Brampton Environmental Planning Advisory Committee:** Environmental Advisory Committees to provide a forum for participation of environmental groups and the public. Members are drawn from the general public, business, academia,

development industry and environmental groups. BEPAC provides coordinating recommendations and community based input on environmental planning matters.

## City of Burlington

### Corporate Plans and Actions

- **Corporate Energy Management Program**  
<http://cms.burlington.ca/AssetFactory.aspx?did=12221>
  - Corporate buildings projects include building automation systems, lighting retrofits and a pilot solar project. Building audits of six arenas completed and retrofits are underway. Energy management plan and tracking coming soon.
  - Corporate wide building automation in progress.
  - Energy audits on arenas and other municipal facilities.
  
- **Green Fleet Transition Strategy** (<http://cms.burlington.ca/Page4113.aspx>)
  - Roads and Parks Maintenance department off-road vehicles and contractors all use biodiesel fuel ranging from B20-B50, on-road vehicles using B5 biodiesel.
  - 22 Hybrid vehicles in city fleet.
  - Emphasis on rightsizing vehicles i.e. replacing larger vehicles with smaller ones where practical.
  - Aftermarket catalytic converter program installed on mowers, ice edgers and street sweepers resulted in a significant decline in the release of carbon monoxide, nitrogen oxides and other hydrocarbons.
  - Regenerative street sweeper reducing PM emissions.
  
- **Corporate Sustainable Building Policy**  
<http://cms.burlington.ca/AssetFactory.aspx?did=14287>
  - LEED AP on staff.
  - Dedicated [green buildings webpage](#) on corporate [environment website](#)
- LED traffic lights conversion completed in 2008.
- An environmental initiatives report has been submitted quarterly to council since 2006. <http://cms.burlington.ca/Page2893.aspx>
- Burlington (Urban Forest Management Plan in progress.  
<http://cms.burlington.ca/Page5824.aspx>)

### Community Plans and Actions

No official community action plan at present, however present community actions include:

- Idling by-law in place (original 2004 bylaw revised in 2009), tickets and warnings actively being issued, public information and outreach campaign ongoing since 2003.
- Burlington Hydro continues to promote conservation programs and GridSmart City. They also have a fully electric fleet vehicle. They have made power meters available to the public at all local libraries.
- A new regional committee (Inter-Municipal Advisory Committee on Sustainability) has been set up to provide leadership in guiding sustainability, facilitate coordination of best practices, and identify emerging sustainability initiatives in Halton. It includes representation from local municipal staff and citizens
- The Board of Directors of the Chamber of Commerce created a new standing (Environment) committee with a mandate to “educate members and develop policy positions on environmental issues affecting Burlington businesses.”
- Burlington Climate Change Summit held May 6, 2010 at the Botanical Gardens. <http://cms.burlington.ca/AssetFactory.aspx?did=13698> A follow-up event is planned for World Environment Day on June 5 at City Hall. [www.burlington.ca/takeaction](http://www.burlington.ca/takeaction)

## Town of Caledon

### Corporate Plans and Actions

- **2005 Environmental Progress Action Plan:**  
[http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/Environmental\\_Action\\_Plan.pdf](http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/Environmental_Action_Plan.pdf)
- **Plan highlights:**  
[http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/Highlights\\_Sheet-EPAP2005-v3.pdf](http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/Highlights_Sheet-EPAP2005-v3.pdf)
- **2007 Environmental Action Report:**  
[http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/Environmental\\_Action\\_Report\\_2007.pdf](http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/Environmental_Action_Report_2007.pdf)
- **2009 Environmental Report:**  
[http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/EPO\\_2009\\_Enviro\\_Action\\_Report.pdf](http://www.town.caledon.on.ca/contentc/townhall/departments/planningdevelopment/EPO_2009_Enviro_Action_Report.pdf)
  - Environmental Plan completed in 2005.
  - Ongoing auditing and retrofitting program in municipal facilities.
  - Some City facilities purchasing Green Power.
  - Purchasing hybrid vehicles for town fleet.
  - Increasing the use of biodiesel in town fleet.
  - Idle free zones, anti-idling corporate policies in place.

- Working to monitor air quality and identify priority areas for emissions reduction.

### Community Plans and Actions

Community plan in progress and expected to be completed by 2011.

## Municipality of Clarington

### Corporate Plans and Actions

Corporate Action Plan in progress and expected to be completed by 2011.

Examples of corporate actions include:

- Energy Efficiency at the Municipal Administration Centre (MAC). The MAC recently opened the third addition to town hall which features energy efficient lighting, computerized control to align heating and cooling with use patterns, heat recovery from building exhaust systems and a low ratio of exterior wall space. The most recent addition houses the public library and administrative offices.
- The most recent minutes of the Municipality of Clarington Living Green Community Advisory Committee mention a draft Green Strategy Plan being circulated among committee members in September of 2009.  
<http://www.clarington.net/htdocs/documents/blue-green/2009/september-2009.pdf>

### Community Plans and Actions

Community Plan in progress and expected to be completed in 2011.

## Regional Municipality of Durham

### Corporate Plans and Actions

- Community Strategic Plan developed in 2003.
- **Climate Change Report 2009:** <http://www.durhamclimatechange.ca/reports/2009-J-2.pdf> outlines current actions, which include:
  - Switching to low emissions busses, 3 minute idle limit on buses.
  - Traffic signal timing enhancements to improve traffic flow and reduce unnecessary idling.
    - One minute anti-idling legislation for municipal vehicles, GPS units to monitor idling times installed.

- Speed limiters on large corporate vehicles.
  - Vehicle replacement program – ensure fleet vehicles are new, low emission, and well-maintained.
  - Traffic lights replaced with LED.
  - Extensive municipal building monitoring and retrofitting program in place.
  - Wind monitoring station for the feasibility study for the wastewater control plant is in process.
  - Steam recovery from pollution control plant is used to heat the building.
  - Identifying opportunities for developing alternative energy procurement plan is in process.
- Region is investigating possibility of biogas production and biodiesel production facilities.

### Community Plans and Actions

No official community plan currently approved, but the Durham Region Strategic Plan 2009-2014 outlines as one of its goals the establishment of a “community-based action plan to mitigate and adapt to climate change, implementing strategies to use energy efficiently, and reduce air and light pollution.”

<http://www.region.durham.on.ca/corpooverview/communityplan/CSPFinalColour.pdf>

Other community actions include:

- Durham Region Roundtable on Climate Change established – community partnership dedicated to advising Durham Regional council on climate change issues and adaptation.

## Town of East Gwillimbury

### Corporate Plans and Actions

- Energy Initiatives Strategy Developed in 2006 Strategic Plan. This includes civic building retrofits and investigation into the potential for alternative energy provision (i.e. wind and solar), as well as EnergyStar construction standards for new residential construction and LEED ratings for new commercial or multi-unit residential construction. [http://www.eastgwillimbury.ca/Environment/Energy/Energy\\_RFI.htm](http://www.eastgwillimbury.ca/Environment/Energy/Energy_RFI.htm)
- Community Energy Plan completed in November 2009. <http://www.eastgwillimbury.ca/Assets/Town+Hall/Branches/Development+and+Legal+Services/OP+Review/EG+CEP.pdf>

This comprehensive, long-term plan features many recommendations for the Town to implement to become a more sustainable community including:

- Accelerated implementation of energy efficiency guidelines for new construction.
- District heating and cogeneration recommended for all new development
- The implementation of biomass technology for heat and electricity production.
- Implementation of Solar photovoltaic cells as a means of generating electricity.
- The construction of a Sustainability University and a large-scale passive village.
- Continuous monitoring and reporting of the Town's GHG emissions.
- Purchasing hybrid vehicles for the town fleet. All future light-duty vehicles purchased are to be hybrid vehicles.
- Fleet modification and alternative fuels for heavy-duty vehicles is being considered.

### Community Plans and Actions

The Community Energy Plan (see above for link to Plan) features many initiatives and elements geared towards creating a sustainable community.

#### For example:

- Any new construction in the Town must comply with EnergyStar (for residential developments) or LEED (for multi-unit residential, industrial and commercial developments).
- The creation of a Sustainability University and Passive Village has been recommended.
- District Energy and Cogeneration strongly recommended for all new developments.
- Encouraging the development of solar power and other alternative energy sources.

## Regional Municipality of Halton

### Corporate Plans and Actions

- Corporate Sustainability Assessment 2009.  
(<http://www.halton.ca/common/pages/UserFile.aspx?fileId=18226>)
  - Focuses on corporate energy management, including the planning of a new green building policy, lighting retrofits, building automations.
  - The document also identifies Halton's dedication to the PCP Milestones.
- Clean Air Plan exists since 2006, focuses mostly on outreach and education. Specific targets or actions to be implemented are not stated in the Clean Air Plan.  
[http://www.halton.ca/health/documents/clean\\_air\\_plan.pdf](http://www.halton.ca/health/documents/clean_air_plan.pdf)

- The Air Quality Program update. (<http://sirepub.halton.ca/councildocs/pm/3/Jan%2029%202008%20Health%20and%20Social%20Services%20MO0408%20%20Air%20Quality%20Program%20%20Update%20%20M00408doc%2051497.pdf> ) states as its intent to incorporate the following into the next Official Plan for the region:

  - Examine provincial legislation and policy documents to identify the instruments that could potentially be used to encourage walkable communities, buildings that meet Energy Star or LEED standards, the use of alternative energy systems, and appropriate separation distances between sensitive land uses and emission sources, using contracted services, in consultation with Legal and Planning.
  - Using a best practices approach, develop guidelines and/or policies that could be used to assess and evaluate the walkability of proposals, in consultation with Regional and local planners.
  - Using a best practices approach, develop guidelines and/or policies that could be used to assess and evaluate the energy components of buildings, in consultation with Regional and local planners.
  - Using a best practices approach, develop guidelines and/or policies that could be used to protect the public’s health from poor air quality that can result when sensitive land uses and emission sources encroach on one another, in consultation with Regional and local planners.
  - In 2009, contributed to the development of ROPA 38 through background studies including: *Protecting Health – Air Quality and Land Use Compatibility*, and *Creating Walkable and Transit-Supportive Communities in Halton*.
  - Will contribute to the development of the Land Use Compatibility Guideline and the Air Quality Impact Assessment.
  - Prepared *Air Quality in Halton: 2009 Air Monitoring Report* <http://sirepub.halton.ca/councildocs/pm/7/Mar%2023%202010%20Health%20and%20Social%20Services%20MO1410%20%20Air%20Quality%20in%20Halton%202009%20Air%20Monitor%20%20MO1410doc%20104765.pdf>
  - Conducted an Air Monitoring Study near a major arterial road to confirm health literature findings, and to provide background information for Official Plan guideline development on land use compatibility.
  
- Completed the Places to Grow planning conformity exercise with the Regional Council adoption of ROPA 38 on December 16, 2009. Implementation of ROPA 38 includes the preparation of guidelines including guidelines that address air quality (the Air Quality Impact Assessment Guideline) and land use compatibility (the Land Use Compatibility Guideline). These guidelines will be prepared through 2010.
- In 2007, the Health Department tabled an air quality policy paper entitled, *Air Quality, Human Health and the Built Environment: Protecting Air Quality through the Land Use Planning Process* that identified the actions that could be taken by the Health

Department to address air quality issues associated with growth and development patterns in the Region. This program includes:

- An air monitoring program;
  - An airshed modelling program;
  - Policy development work directed at air quality, climate change, and land use planning; and
  - The development and implementation of an air quality/climate change health promotion program that seeks to shift attitudes towards energy use and production, modes of transportation, and urban form.
- Green Fleet program includes use of bio-diesel and 3 hybrid vehicles; Region is participating in E3 Fleet Program.  
[http://www.halton.ca/health/services/air\\_quality/region\\_initiatives.htm](http://www.halton.ca/health/services/air_quality/region_initiatives.htm)
  - Landfill Gas Collection project in place since 2007.  
<http://www.halton.ca/ppw/waste/LandfillGasProject.htm>
  - Informational videos about Halton's landfill gas capture program can be found at <http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=28245>.
  - Regional Landscaping tenders utilize IPM approach, low water plants, and top dress / fertilize with compost from Halton Waste Management Site.
  - Engineering audit of 15 facilities in 2009 \$3.0 mill in retrofits identified.
  - Power savings blitz audits conducted at 12 locations year to date in 2010.
  - \$400K allotted for lighting and water conservation retrofits in 2010 with payback of 3 years.
  - Renewable Energy Feasibility Study of All Halton Facilities in progress - completed August 2010.
  - Conversion of Traffic Signals to LED - Since 2004, the Region has converted over 90% of all traffic signals to LED technology which has reduced energy consumption of 2 million kilowatt (kWh) per year.

### Community Plans and Actions

No official community plan approved at present.

## Town of Halton Hills

### Corporate Plans and Actions

- 2007 Green Plan includes provisions for corporate and community actions.  
<http://www.haltonhills.ca/townhall/pdf/greenplan/halton-hills-green-plan-2007-11.pdf>
- Corporate Actions already in place include lighting retrofits and building automation in municipal buildings, waste heat capture technology and LEED construction standards for new municipal buildings.
- Bio-Diesel being used in off-road vehicles.
- Anti-idling policy being examined.

- Roundabouts installed, traffic light timing enhanced to reduce emissions, traffic lights switched to LED.
- Purchase of EEMS is being considered.
- Town is incrementally increasing the number of municipal facilities getting energy from Bullfrog Power.
- Energy efficient vehicles must be considered for any new acquisition, with lifecycle and cost-benefit analyses being factored into the final decision.
- Will soon begin developing a stand-alone community/corporate energy management plans.

### Community Plans and Actions

- 2007 Green Plan makes recommendations for community actions. Actions and plans that are underway include:
  - Project Porchlight – 6800 CFL bulbs delivered to the public.
  - Compiling a best practices database for local businesses so that they can share their green initiatives with others.
  - Committed to discussing more environmentally friendly construction standards with developers in the community.
  - Making power meters available to the public:  
<http://www.haltonhills.ca/media/2009/1243947318.pdf>
- Sustainability Office established in 2008.
- Halton Hills Community Energy Corporation intends to develop a Community Energy Plan, which may assist with green energy purchasing and production related actions.
- Recommendations in place to create incentive programs for employers and residents to encourage greener activities.

## City of Hamilton

### Corporate Plans and Actions

- **Air Quality and Climate Change Corporate Strategic Plan enacted in 2006:**  
[http://www.hamilton.ca/NR/rdonlyres/C43C2AB2-0F88-4076-A49A-92AD9D3429AC/0/FINAL\\_AQCCStratPlanPhase1.pdf](http://www.hamilton.ca/NR/rdonlyres/C43C2AB2-0F88-4076-A49A-92AD9D3429AC/0/FINAL_AQCCStratPlanPhase1.pdf) This plan identifies a goal of 20% GHG emissions reductions below 1994 levels for corporate operations, and a 6% reduction below 1994 levels for the community by 2020.
- Air Quality Initiatives study identified priorities for emissions reductions.
- Have established the Hamilton Air Monitoring Network to monitor emissions.
- Energy retrofitting, monitoring and automation in municipal facilities are underway.
- **Strategic Plan phase 2:** <http://www.hamilton.ca/NR/rdonlyres/77A04B66-332A-439E-8D86-39627B5AF7E4/0/CorporateAQCCPlanPhase2.pdf> provides updates on GHG reductions, changes target year from 1994 levels to 2005 levels, and provisions for

energy efficiency updates, construction standards and energy demand reductions.

- **In Corporate Energy Plan:** <http://www.hamilton.ca/NR/rdonlyres/F82E0819-9710-4D56-8E39-3342514A5A6A/36289/CityofHamiltonCorporateEnergyPolicyNOV2007.pdf>
  - Provisions made for extensive monitoring, standardization and retrofitting of all municipal facilities.
  - Uses Energy Star as standard for all new purchases.
  - Green Fleet Policy only allows for purchasing of hybrid vehicles where practical, a 10% use of biodiesel and an anti-idling policy for corporate vehicles.
- Extensive Green Fleet policy update utilizing FLEETtool.ca, evaluates new technologies and possibilities that were not available at the time of the 2006 Green Fleet plan. <http://www.hamilton.ca/NR/rdonlyres/8094AD0B-EB16-4B63-929D-9B0815250FBA/0/PW03147CAppendixBGreenFleetImplementationPlanPhase2.pdf>
- Regenerative street sweepers being used – reduce PM emissions.
- 30 Hybrid Buses in use, 94 Natural gas powered buses and 77 buses powered by B5 biodiesel.
- Acquiring 3 Hydraulic Launch Waste Collection trucks.

### Community Plans and Actions

- Hamilton's Vision 2020 contains actions and goals aimed at reducing the City's GHG emissions (<http://www.hamilton.ca/ProjectsInitiatives/V2020/>)
- Currently undertaking a Community Energy Collaborative to look at Hamilton's dependence on fossil fuels and how to prepare the city for "peak oil" and climate change.
- Air Quality and Climate Change Corporate Strategic Plan also makes recommendations for community actions in order to reduce emissions to 6% below 2005 levels by 2020.
- Hamilton Community Energy providing district heating and 3.5 megawatt cogeneration plant for west side of downtown Hamilton.
- Anti-Idling Bylaw in place.
- Community Outreach and partnerships emphasized in Strategic Plan.

## King Township

### Corporate Plans and Actions

Corporate plan in progress and expected to be completed by 2011.

#### Some corporate actions are:

- Have completed Sustainable Building Reference Guide, <http://www.king.ca/files/documents/Sustainable%20Design%20Reference%20Guide.pdf>

- Establish an “Environment First” Principle of development in their 2000 Community Plan.
- New Recreation Centre in Schomberg will be LEED Certified with a ground mounted solar array when complete at the end of 2010.
- Established an Environmental Advisory Committee.
- Commitment to develop a Green Building Policy which will outline Energy Star and LEED guidelines for new construction and retrofits.

### Community Plans and Actions

- Community plan in progress and expected to be completed by 2011. Township Sustainability Steering Committee established in 2009. The Township is committed to developing their Integrated Community Sustainability Plan by the end of 2011.
- Developed a guide for residents/business owners in King outlining how to embark on a green renewable energy project and take advantage of the Green Energy Act:  
<http://www.king.ca/files/documents/Township%20of%20King%20Guide%20for%20Renewable%20Energy%20Projects.pdf>

## Town of Markham

### Corporate Plans and Actions

- The City is working on developing a Community Sustainability Plan for end of 2010.  
<http://www.markham.ca/Markham/aspc/sustainability/greenprint.asp>
- Green Fleet Transition Policy 2004-2007 in place.  
<http://www.markham.ca/Markham/Departments/StratServ/EnvrLdshp/GreenFleet.htm>
- Green and alternative fuels, as well as preventative maintenance and right-sizing policies all in place.
- Nearly 2MW of solar photovoltaic renewable energy generation will be installed on Town of Markham roof tops over the next 12 to 24 months, reducing 430 tonnes of GHG emissions annually once fully operational.
- Nine Town buildings will be retrofitted under an Infrastructure Stimulus grant by March 2011 reducing 560 tonnes of GHG emissions annually.

### Community Plans and Actions

Community Action Plan in progress and expected to be completed by 2010. Community actions include:

- Provide funding for community groups through the Markham Environmental Sustainability Fund.

- Anti-Idling By-Law in place since 2005 (3 Minute Idle limit).  
<http://www.markham.ca/Markham/Departments/BMFT/AntiIdle/>
- Power Meters available for public rent at local libraries.
- Solar Water Heating Program in place.  
[http://www.markham.ca/Markham/Departments/NewsCentre/News/090929\\_solarwaterheat.htm](http://www.markham.ca/Markham/Departments/NewsCentre/News/090929_solarwaterheat.htm)
- District Energy Project in place in Markham Centre.  
[http://www.markham.ca/Markham/Departments/NewsCentre/News/091001\\_gastaxaward.htm](http://www.markham.ca/Markham/Departments/NewsCentre/News/091001_gastaxaward.htm)

## City of Mississauga

### Corporate Plans and Actions

- City Clean Air Strategy Approved in 2005.
- Energy audits and green retrofitting underway in municipal facilities, including computerized lighting and ventilation systems in Fire Halls, City Hall and ice rinks.
- LED traffic light replacements complete, solar lighting for 100 transit stops in place.
- Green Fleet Plan announced in 2006.  
<http://www.mississauga.ca/portal/residents/greeningourfleet>
- City has right-sized 93 vehicles since 2006 largely through the purchasing of hybrids. City is using B5 BioDiesel in Mississauga Transit Buses and the rest of the fleet will be using biodiesel in 2010.
- Fleet and equipment replacement strategy opts for 4-cycle equipment for parks maintenance, electric off road vehicles and hybrids wherever feasible.
- Civic Centre is Bullfrog powered – 1 year pilot project in 2008 which has been renewed annually ever since.
- Hershey Centre equipped with a \$300,000 solar power project.
- 2009 Strategic Plan has targets and actions throughout the strategic pillars for change that address climate change and clean air.
- [http://www5.mississauga.ca/ofm\\_portal/pdfs/actionplan\\_2009\\_green.pdf](http://www5.mississauga.ca/ofm_portal/pdfs/actionplan_2009_green.pdf)
- Energy Management Program has resulted in reduction of 18,400 tonnes of Greenhouse Gases since inception in 2001.
- Corporate Green Building Standards approved in 2010.
- Unnecessary Vehicle Idling Policy approved June 24, 2009.
- Smog Alert Response Plan has been in place since 1999.
- Participating in LightSavers testing LED lights and testing LED streetlights.

## Community Plans and Actions

- 2009 Strategic Plan calls for renewable energy production and use, a green development standard in the city, loan programs for energy improvements and the development of eco-business zones.
- Green Development Strategy is in progress with estimated approval in Summer 2010.
- EcoDriver educational program aimed at commuters teaches proper maintenance and driving techniques to reduce GHG emissions.
- Anti-idling by-law approved in June 2009, 3 minute idle limit established
- Draft OP is currently under public review.  
(<http://www.mississauga.ca/portal/residents/draftmississaugaofficialplan>)

## Town of Newmarket

### Corporate Plans and Actions

- Corporate Local Action Plan drafted and being finalized to implement Milestones 2 and 3 of the PCP program - set targets for emissions reduction and develop a local action plan for corporate operations). Plan should be finalized in 2010.
- Completed Greenhouse Gas Inventory in 2006.  
[http://www.newmarket.ca/en/townhall/resources/4922\\_279282\\_Town\\_of\\_Newmarket\\_s\\_Greenhouse\\_Gas\\_InventoryFinal\\_.pdf](http://www.newmarket.ca/en/townhall/resources/4922_279282_Town_of_Newmarket_s_Greenhouse_Gas_InventoryFinal_.pdf)
- Green Fleet Strategy and LED bulb replacements initiated.  
[http://www.newmarket.ca/en/townhall/resources/2594712\\_fact\\_sheet\\_final.pdf](http://www.newmarket.ca/en/townhall/resources/2594712_fact_sheet_final.pdf)
- New Operations Centre under construction to achieve LEED Silver compliance.
- The Town of Newmarket partnered with Honeywell to audit and retrofit Town buildings and facilities in an effort to lower greenhouse gas emissions and utility costs. The project is expected to save Newmarket approximately \$160,000 annually in operating costs. It will also reduce greenhouse gas emissions by an estimated 563 tonnes per year, which is the equivalent to removing more than 80 cars from the road.
- Energy Conservation (staff) Action Team commissioned to develop an Energy Conservation Action Plan to raise employee awareness of individual actions and reduce corporate energy use.
- Tree Preservation, Protection, Replacement and Enhancement Policy.  
[http://www.newmarket.ca/en/townhall/resources/2151657\\_2008\\_Final\\_Version\\_Tree\\_Preservation\\_Protection\\_Replacement\\_and\\_Enhancement\\_Policy\\_April\\_14\\_2008.pdf](http://www.newmarket.ca/en/townhall/resources/2151657_2008_Final_Version_Tree_Preservation_Protection_Replacement_and_Enhancement_Policy_April_14_2008.pdf)
- <http://www.newmarket.ca/en/townhall/resourcelibrary/SitePlanApprovalProcessManual2010Part2.pdf>
- Mandatory environmental development requirements in Site Plan Approval Process Manual.

- Green Procurement Practices (Electronic Product Environmental Assessment Tool - EPEAT)

### Community Plans and Actions

- New Official Plan adopted 2006. Community local action plan to be commissioned after the implementation of corporate plan commences. Community actions taken include:
  - Idling by-law in place since 2005, 2 Minute idling limit.  
[http://www.newmarket.ca/en/townhall/resources/2707\\_828903\\_2005-157\\_Prohibition\\_of\\_Excessivse\\_idling.pdf](http://www.newmarket.ca/en/townhall/resources/2707_828903_2005-157_Prohibition_of_Excessivse_idling.pdf)
  - EcoLogic Homes – a 34 unit subdivision –constructed to LEED platinum standards.

## Town of Oakville

### Corporate Plans and Actions

- Environmental Strategic Plan developed in 2005:  
[http://www.oakville.ca/Media\\_Files/BlueprintOakville/ESP\\_25oct2005.pdf](http://www.oakville.ca/Media_Files/BlueprintOakville/ESP_25oct2005.pdf)

#### Implementation updates provided in 2006:

[http://www.oakville.ca/Media\\_Files/agendas-csc-2006/06sep26csca-item1.pdf](http://www.oakville.ca/Media_Files/agendas-csc-2006/06sep26csca-item1.pdf)

#### Implementation and updates provided in 2008:

[http://www.oakville.ca/Media\\_Files/agendas-csc-2008/06108csca-Item10.pdf](http://www.oakville.ca/Media_Files/agendas-csc-2008/06108csca-Item10.pdf) and

#### Implementation and updates provided in 2009:

[http://www.oakville.ca/Media\\_Files/environment/SOER2009-full.pdf](http://www.oakville.ca/Media_Files/environment/SOER2009-full.pdf)

- Environment and Energy Management System (EEMS) was purchased by the Town to link energy use to greenhouse gas emissions (GHGe) and support energy use analysis and energy efficiency/conservation initiatives. EEMS analysis is complete and will be used for baseline measurements.
- Extensive Green Fleet Guide strategy implemented in 2009 provides provisions for new purchasing policies, maintenance practices and new pilot projects.  
[http://www.oakville.ca/Media\\_Files/2009SustainableGreenFleetGuide.pdf](http://www.oakville.ca/Media_Files/2009SustainableGreenFleetGuide.pdf)
- Purchasing hybrids (already have 7) and Smartcars (already have 2) for town fleet, have a policy of right-sizing, and using GPS to manage the fleet.
- Policy enacted prohibiting the use of drive-thrus while in town vehicles.
- 2 Environmentally friendly street sweepers (reduced emissions of fine PM) in use.

- Staff have undergone LEED training; will be incorporating LEED strategies into new developments.
- **Lets Go Green update 2008:**  
[http://www.oakville.ca/Media\\_Files/environment/2008LetsGoGreen.pdf](http://www.oakville.ca/Media_Files/environment/2008LetsGoGreen.pdf)
- LED lighting for all town operated traffic lights complete.
- Solar heating for outdoor town pools study was undertaken.
- Green Purchasing guide used by all corporate staff, provides information and best practices for sustainable procurement, and is updated annually.  
[http://www.oakville.ca/Media\\_Files/2009SustainablePurchasingHandbook.pdf](http://www.oakville.ca/Media_Files/2009SustainablePurchasingHandbook.pdf)
- Smog Response and Clean Air Plan implementation and training provided to all seasonal summer staff.
- Corporate Local Action Plan and Milestones 1&2 complete.
- **Street and Park Lighting** have all been converted to high pressure sodium technology. Sports fields, park and trail lighting have all been retrofitted to include time controls and lighting control dimmers and between 2007 and 2009, the wattage of street lighting ballasts were reduced from 40W to 4W reducing energy consumption by 96,000kWh and 17 tonnes of GHG emissions annually.

### Community Plans and Actions

- Anti-idling campaign in place in schools and across the community, Anti-idling by-law in place since 2002 (5 minute idle limit).
- A temporary by-law restricting the construction or expansion of drive-thrus was passed; it expired in Nov of 2009.
- Green Light Pacts– a community partnership through Oakville Hydro where residents donate money to ensure green energy production.  
<http://www.oakville.ca/greenpower.htm>
- Energy Meter Lending program in place at local libraries.
- State of the Environment Report completed in 2009, data is currently being collected for 2010 reporting. <http://www.oakville.ca/19588.htm>
- Environmental Strategic Plan 2010 Update and completion of Milestone 3.
- Heat Alert Protocol implemented in 2007, select recreation centres, library, art galleries will be kept open and used as cooling stations when needed.

## City of Oshawa

### Corporate Plans and Actions

- Community Strategic Plan includes provisions for environmental protection, specifically anti-idling by-laws and reduced reliance on automobile transportation.  
<http://www.oshawa.ca/strategic/finalplan.pdf>

- The Strategic Plan implementation report card released in 2009 states that both an Energy Management Plan and a Corporate Sustainability Plan are in development. [http://www.oshawa.ca/media/CSP\\_ReportCard.pdf](http://www.oshawa.ca/media/CSP_ReportCard.pdf)
- Recently signed a memorandum of understanding with Veridian to collaborate on Project Get Ready to prepare the city for future electric vehicles.
- **Fleet Greening:**
  - Purchased an all hybrid fleet of vehicles for Building Inspections.
  - Bio-diesel and hybrid trucks
  - Bicycle by-law enforcement team in place.
  - Corporate Smart Commute program in place for City Hall staff.
- Established an Office of Energy Management and best practices research is underway on an Energy Management Plan.
- Traffic lights, signals and warning lights all replaced by LED.
- Community Centre Conservation Challenge – facilities managers competed in a friendly competition to determine simple ways to conserve energy – resulted in a significant reduction of energy consumption – program is planned to be expanded in 2010.
  - Community Centre Conservation Challenge (CCCC) reduced electricity consumption at eight recreation facilities by nearly 600,000 kilowatt hours of electricity, and saved an estimated \$35,000 in energy costs.
  - Created in-House training program for maintenance and program staff based on Best Practices from CCCC.
  - OEM realized a total verified energy savings of \$ 90,000 using “no cost” measures.
  - Selected Utility Management Software System.
- All traffic lights, signals and warning signals replaced with LEDs.
- As part of the Mayors Megawatt Challenge, the City realized a total energy Reduction of 20.7% from 2005 to 2008.
- Became member of Partners for Climate Protection (PCP)
- Completed Community Greenhouse Gas (GHG) Inventory (Milestone 1).
- Completed process of selecting Energy Management Software.
- Advance \$ 1.4 million aggressive capital program to reduce energy consumption and improve energy efficiency.
- Continue robust internal energy conservation training program.
- Fire Hall Conservation Challenge and energy audit.
- Install EMS and complete Corporate GHG inventory for PCP.
- Completion of City Hall Revitalization Project and LEED certification.

### Community Plans and Actions

- Community Strategic Plan (CSP), adopted in 2005, primary driver in all Council decisions, with targeted goals to create:

- A Vibrant, Strong and Progressive Community (Economy).
  - A Green and Sustainable Community (Environment).
  - A Caring and Responsive Community (Society).
- 
- CSP will be replaced in 2011 with an ISCP.
  - Created Oshawa Environmental Advisory Committee (2007).
  - Hosted Provincial EAC Symposium (2008).
  - Created Provincial EAC website (to be launched in 2010).
  - Community Idling By-law in place since 2006.
  - E85 fueling station recommended in 2008.
  - Anti-idling campaign and by-law in place (3 min idle limit).

## Regional Municipality of Peel

### Corporate Plans and Actions

- Energy Management Plan (<http://www.peelregion.ca/finance/corp-energy/environment/depser.htm>) takes action in seven key areas, which include:
  - Energy Metering, Monitoring and Software.
  - Energy Cost Analysis, Reporting and Funding.
  - Energy Education and Awareness.
  - Energy Commodity and Efficient Product Procurement.
  - Building Automation and Demand Response.
  - Renewable Energy and Energy Efficient Technologies.
  - Areas of Development.
- Official Plan <http://www.peelregion.ca/planning/officialplan/> Through the Official Plan Review, the air quality section was updated. In addition, policies on climate change were also included:
  - The OP includes the goal of creating “healthier and sustainable communities by improving local air quality and reducing greenhouse gas emissions”.
  - Policies to achieve this goal include the development of an air quality management plan, outreach programs to increase awareness of climate change and the establishment of corporate GHG reduction targets.
- Clean Air Strategy (<http://www.peelregion.ca/planning/officialplan/pdfs/air-quality-discussion.pdf>) is a work plan which directs and co-ordinates the implementation of corporate air quality initiatives Examples of air quality activities include action on issues related to:
  - Active Transportation.
  - Building Retrofits.
  - Hybrid Vehicles for Fleets.

- All traffic signals switched to LED.  
(<http://www.peelregion.ca/health/cleanairpeel/initiatives/energy.htm#energymanagement>)
- Two Community Recycling Centres (Heart Lake in Brampton and Clarkson in Mississauga) are scheduled to be built. The CRCs are expected to consume 40 per cent less energy than a standard building.
- The Region has audited and retrofitted a number of facilities. One example involves a comprehensive energy audit of all water and waste water treatment plants, as well as all pumping stations in the South Peel system.
- 26 hybrid vehicles in the region's fleet.  
<http://www.peelregion.ca/health/cleanairpeel/initiatives/transportation.htm>
- One minute corporate idling limit.
- Waste Vegetable Oil collected at CRCs, converted into BioDiesel. Produced 1,100 litres of BioDiesel in 2007.
- Climate Change Strategy for the geographic region of Peel.
- Six partners within the geographic region of Peel are developing a Climate Change Strategy, which will include a mitigation and adaptation strategy, as well as a monitoring framework. <http://www.peelregion.ca/planning/climatechange/>

### Community Plans and Actions

- No official community plan approved at present, but public consultations have begun in preparation for the release of a Climate Change Strategy for the geographic region of Peel, and stakeholder consultations will take place throughout the development of the strategy.  
<http://www.peelregion.ca/planning/climatechange/>
- Landfill Gas Utilization Plant: The Britannia Landfill Gas to Electricity Project in Mississauga collects approximately 2,500 ft<sup>3</sup> of landfill gas per minute. The plant has a total generation capacity of approximately 5.5 megawatts. This is enough to power approximately 5,000 homes on a daily basis for the next 20 years. The project abates the release of 250,000 tonnes of CO<sub>2</sub> equivalents and 10,000 tonnes of methane annually. This use of landfill gas to produce green electricity replaces brown electricity and the associated air pollutants.
- Idle free community outreach program in place.  
<http://www.peelregion.ca/health/cleanairpeel/idling.htm>
- Solar power project (Clarkson Solar Flairs) in place through a partnership with EnerSource.

## City of Pickering

### Corporate Plans and Actions

- Municipal and Community Action Plans available at <http://www.sustainablepickering.com/photos/custom/PDF/CAO03-06.pdf> commits to a 50% reduction of corporate GHG emissions from 1995 levels by 2016. Municipal and Community Action Plans commits to a 50% reduction of corporate GHG emissions from 1995 levels by 2016. The City of Pickering is working on completing Milestones 4 and 5 of the PCP program.
- Established the Office of Sustainability in 2007.
- A Measuring Sustainability Report establishing 32 indicators that will be used to measure Pickering's progress in sustainability has been completed in May of 2010.
- Staff in the Office of Sustainability work closely with the Sustainable Pickering Advisory Committee. The City provides sustainability training to all new staff.
- Municipal buildings are being retrofitted with efficient lighting and more efficient HVAC systems. Energy audits are being performed on an on-going basis to arenas and other municipal facilities.
- All arenas ice resurfacers have been fitted with catalytic converters. The City is also preparing to retrofit all riding lawnmowers and snow removal equipment with catalytic converters in 2010.
- Relamping of all traffic lights to LED.
- Council approved a resolution requiring all development meet at least a rating of "Level 1" in relation to the City's Sustainable Development Guidelines. The City also expedites development applications seeking to achieve a "green" rating under a recognized program.
- Operate 5 Ford Escape Hybrids, an efficient street sweeper and are looking into the possibility of alternative fuels for the city fleet.
- The City of Pickering is a member of Smart Commute Durham and the Canada Green Building Council.
- The City of Pickering's Purchasing Policy incorporates environmental and sustainability considerations. The City also refers to the G.I.P.P.E.R's Guide to Environmental Purchasing when making purchasing decisions.
- Operate 5 Ford Escape Hybrids, an efficient street sweeper and are looking into the possibility of alternative fuels for the city fleet.

### Community Plans and Actions

- Community Action plan targets a 35% per capita reduction of community GHG emissions below 1995 levels by 2016.
- Anti-Idling bylaw in place since 2004 (5 minute idle limit).  
<http://sustainablepickering.com/photos/custom/IdlingOfVehicles.pdf>
- Community outreach program involves a sustainability office dedicated to providing residents with information and access to sustainable technologies such as CFL bulbs, information on EnergyStar appliances and the funding programs (i.e. PowerWISE) that exist to help consumers go green.

- Promoting Enbridge's TAPS program (programmable thermostat, kitchen and bathroom aerators, pipe wrap and a low-flow showerhead) as a means of reducing community energy usage.
- A [Sustainable Pickering website](#) was launched in 2009. The My Challenge section provides a wealth of information to the community on actions, funding and grant programs available to Pickering residents to help residents, youth, businesses and developers to adopt sustainable practices.
- Currently developing a guide for residents/business owners in Pickering outlining how to implement a renewable energy project and take advantage of the Green Energy Act.
- Power Meters are available for loan to the public at local libraries.
- The City offers Eco-Driver lunch n' learn sessions to staff.

## Town of Richmond Hill

### Corporate Plans and Actions

- Energy Management Plan in place since 2008.  
[http://www.richmondhill.ca/documents/energy\\_management\\_plan.pdf](http://www.richmondhill.ca/documents/energy_management_plan.pdf)
- Standard temperatures recommended in the Plan for all municipal facilities, automatic temperature controls installed.
- ISO 14001 certification achieved across municipal actions, ensures that all actions undertaken are done so through an environmental and sustainability lens as well as an economic one. [http://www.richmondhill.ca/documents/iso\\_pres\\_2010.pdf](http://www.richmondhill.ca/documents/iso_pres_2010.pdf)
- Light retrofits, solar heating at the Municipal Offices and geothermal heating at the Richmond Hill Center for Performing Arts all in place.  
[http://www.richmondhill.ca/subpage.asp?textonly=&pageid=townhall\\_clean\\_air\\_initiatives](http://www.richmondhill.ca/subpage.asp?textonly=&pageid=townhall_clean_air_initiatives)
- Clean Air Plan set out in 2004 – sets targets for 20% GHG emissions reductions from 2000 levels by 2010 for the corporation.  
[http://www.richmondhill.ca/documents/clean\\_air\\_plan.pdf](http://www.richmondhill.ca/documents/clean_air_plan.pdf)
- Green fleet uses biodiesel and ethanol based fuels, also has 6 hybrid vehicles with more on the way.
- Wind power feasibility study complete, results seem to be favorable, but no further information is available on the website past the 2007 report.

### Community Plans and Actions

- Community Action Plan targets a 6% reduction in GHG emissions from 2000 levels by 2010.
- Promote initiatives of the Windfall Ecology Center, which focuses on providing information to residents on how to go green.  
<http://www.windfallcentre.ca/index.php?st=1&s=Home&p=Homepage&>

- Anti-idling campaign and bylaw in place (5 minute idle limit).  
[http://www.richmondhill.ca/subpage.asp?pageid=epw\\_gta\\_idle\\_free](http://www.richmondhill.ca/subpage.asp?pageid=epw_gta_idle_free)
- Created the SmartCommute 404-7 program to reduce single occupancy commuter trips. <http://www.smartcommute404-7.ca/>

## City of Toronto

### Corporate Plans and Actions

- Clean Air Action Plan sets emissions reduction goals of 20% below 2004 levels by 2012, 30% below 1990 levels by 2020 and 80% below 1990 levels by 2050. The reduction target for locally generated smog causing pollutants is 20% from 2004 levels by 2012 for the Toronto urban area.  
([http://www.toronto.ca/changeisintheair/pdf/clean\\_air\\_action\\_plan.pdf](http://www.toronto.ca/changeisintheair/pdf/clean_air_action_plan.pdf))
- Clean Roads to Clean Air Program – purchased 25 regenerative air street sweepers <http://www.toronto.ca/transportation/environment/index.htm#clean>
- Traffic signal lights all being replaced by LED lights since 2004, should be completed by 2011 or 2012 (1900 signals in total).
- Emissions inventory conducted in 2007, is being updated annually and used to monitor progress towards an 80% reduction of GHG emissions by 2050.  
<http://www.toronto.ca/teo/greenhouse-emissions.htm>
- Connecting municipal facilities to Enwave’s Deep Lake Water Cooling System (<http://www.enwave.com/dlwc.php>).
- Energy Retrofit Program ([http://www.toronto.ca/ewmo/retrofit\\_case\\_studies.htm](http://www.toronto.ca/ewmo/retrofit_case_studies.htm)) resulted in the retrofitting of over 200 municipal facilities since 2004. Retrofits include energy efficient lighting, building automation systems, and energy efficient ventilation systems.
- Green fleet strategy includes natural gas vehicles, hybrid vehicles, and 4-stroke maintenance equipment rather than 2-stroke.
- Green Fleet Plan 2008-2011 (<http://www.toronto.ca/fleet/pdf/gfp.pdf>) aims to acquire more hybrid vehicles, with a focus on right-sizing and purchasing the lowest emitting vehicle that meets the operational needs. Also a focus on new pilot projects, such as full electric vehicles, and new fuel sources.
- Driver training and 10 second idle rule for corporate drivers.
- Many hybrid vehicles and biodiesel already in use.
- Biodiesel-hydraulic hybrid garbage packer being tested in Toronto.
- Fleet Services tested hydrogen-powered vehicles through a partnership with Ford of Canada and its hydrogen shuttle bus. Fleet Services is also evaluating biofuels to determine which products and feed stocks provide the greatest environmental benefits on a life-cycle basis. The City is evaluating cellulose as a potential feedstock to produce ethanol to ensure that the fuel sources will still achieve net

benefits in the context of environmental sustainability.<sup>1</sup> In addition, at the third-annual Green Fleet Expo, Toronto unveiled the newest addition to its fleet – hydrogen buses. Toronto has acquired three hydrogen internal combustion engine (H<sub>2</sub>ICE) buses through a partnership with Ford Motor Company of Canada Ltd. The City will have the buses for two years through a zero cost lease agreement.

- At its meeting of March, 2008 City Council approved Phase II of the Green Fleet Plan. At that time it was reported that implementation of Phase I has resulted in a reduction of approximately 5,000 tonnes in greenhouse gas emissions. More information about the City's Green Fleet Plan can be found at [http://www.toronto.ca/fleet/gfp\\_08\\_11.htm](http://www.toronto.ca/fleet/gfp_08_11.htm). Phase II focuses on 5000 vehicles operated by the City and identifies 38 specific actions that Toronto will take in accelerating its fleet greening and builds on the success of a 28% reduction in emissions activities achieved in Phase I of the plan.
- The Toronto Atmospheric Fund has funded a one-year Green Taxi pilot placing 10 hybrid taxis on the road with various cab companies. Results were published in late 2009 (see <http://www.toronto.ca/taf/pdf/hybrid-taxi-oct09.pdf>).
- TTC currently operates 694 Hybrid buses. At the time of writing, 320 of these have been fitted with Lithium-Ion batteries, with the balance of the fleet to be retrofitted by July, 2010. The use of Li-Ion batteries in place of Lead-Acid batteries increases reliability and reduces the weight of a bus by approximately 1000 kgs. This also increases the battery energy capacity compared to Lead-Acid, and thereby is expected to reduce fuel consumption of the fleet by an additional 5%. Currently TTC is experiencing fuel savings in the range of 20 to 30% compared to equivalent modern diesel buses operating on the same routes.
- TTC is currently evaluating a system that causes automatic shutdown of bus engines after a 3 minute idle period to determine if such systems are feasible on transit buses. A report on this program is scheduled to be issued in May, 2010. This is expected to save fuel and reduce engine exhaust emissions.
- Between 1999 and 2009, ridership on the Toronto Transit Commission (TTC) grew by almost 79 million rides, from 392 million per year to 471 million per year, and ridership is continuing to increase at a steady rate. The TTC estimates that it replaces on average more than 1 million vehicle-trips daily.<sup>2</sup> Furthermore, the TTC estimates that one bus replaces 50 cars, one Light Rail Transit (LRT) vehicle replaces 70 cars, one Articulated LRT vehicles replaces 100 cars, one 4-car Scarborough Rapid Transit train replaces 200 cars and one subway train replaces 900 cars at peak times on most routes in the TTC system.<sup>3</sup>

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<sup>1</sup> For a complete listing of the activities being undertaken by Fleet Services, please see Green Fleet Plan 2008-2011 at the following link: [http://www.toronto.ca/fleet/gfp\\_08\\_11.htm](http://www.toronto.ca/fleet/gfp_08_11.htm)

<sup>2</sup> Toronto Transit Commission Report, TTC Environmental Plan – Initiatives and Implementation, December 6, 2007

<sup>3</sup> Ibid

- Clean Green and Healthy Plan released in 2000, contains provisions for the creation of more detailed plans and strategies, and was important in the development of new Clean Air Plans, sustainable transportation plans and various other environmental measures that have been undertaken since 2000.  
<http://www.toronto.ca/council/pdf/etfepfin.pdf>
  - A status report on the Plan was released in 2004, indicating what aspects are underway and what are still to be done.  
[http://www.toronto.ca/council/pdf/status\\_report\\_tie\\_aug03.pdf](http://www.toronto.ca/council/pdf/status_report_tie_aug03.pdf)
- People, Planet and Profit: Catalyzing Economic Growth & Environmental Quality in the City of Toronto report released in 2007.  
[http://www.toronto.ca/business\\_publications/pdf/green\\_economic\\_development\\_22may2007.pdf](http://www.toronto.ca/business_publications/pdf/green_economic_development_22may2007.pdf)
  - This report recommends providing funding for green research centers in Toronto, developing new training programs for workers and promoting the “Toronto Advantage” to green businesses.
  - The document identifies the importance of long-term, coordinated commitment to greening enterprise in the city, as there are already other cities in North America vying for green investment dollars.
  - The plan outlines the goals of increasing new green businesses by 25% by 2010, and increasing the “greening” of existing businesses by 25% by 2010 as well.
  - The plan outlines recommended actions, such as the City leading by example (i.e. – green building retrofits, green procurement policies), encouraging new green development with tax incentives, etc and sponsoring new research positions at Toronto educational institutions.
- In 2000, the City made the commitment to get 25% of its power from renewable sources by 2005. While this target was not met, the City is still committed to getting more of its energy from alternative sources, and is striving towards this goal. For instance in order to obtain LEED credits, the City purchased 3.92 million kW in 2009 and 3.54 million kWh in 2010 of green energy.
- Green energy procurement policy is being developed.

### Community Plans and Actions

- **Community Plan - Change is in the Air:**  
[http://www.toronto.ca/changeisintheair/pdf/clean\\_air\\_action\\_plan.pdf](http://www.toronto.ca/changeisintheair/pdf/clean_air_action_plan.pdf) Actions to be undertaken listed in report.
- **CHEMTRAC:** The Environmental Reporting and Disclosure Bylaw ( Municipal Code Chapter 423) came into effect January 1, 2010. This is a new Toronto bylaw that requires facilities and businesses to track and report toxic chemicals. This program will help make our community a cleaner, healthier place to live.

(<http://www.toronto.ca/chemtrac/>)

- **Other Community Actions include:**

  - New Green Development building guidelines went into effect on Jan 30, 2010, require new construction to adhere to stringent guidelines regarding energy consumption, water use, green roofs, and waste diversion.  
<http://www.toronto.ca/planning/environment/greendevlopment.htm>
  - Anti-idling bylaw in place (3 minute idle limit).  
<http://www.toronto.ca/environment/air.htm>
  - Live Green Toronto ([www.livegreentoronto.ca](http://www.livegreentoronto.ca)) is an organization funded by the city that aims to provide residents with information on rebates they can access, actions they can take and valuable resources to help them reduce their environmental impact.
  - Landfill Gas capture policy in place at the city's 3 largest retired landfills.
  - Incentives list for residents available at  
[http://spreadsheets.google.com/pub?key=r\\_eVxG4Nz7pst8iDoxc-fDA&output=html](http://spreadsheets.google.com/pub?key=r_eVxG4Nz7pst8iDoxc-fDA&output=html).
  - An energy efficiency bylaw, which will apply to all homes, businesses and industries, will be developed for 2011. This will set standards for energy efficiency that all new buildings must adhere to, and standards that all exiting buildings must be brought up to.
  - New bylaws are in the works to streamline the development of renewable energy projects.
  - A \$42 million Toronto Energy Conservation Fund to support energy conservation initiatives in City facilities as well as buildings in the Municipal, University/College, School and Hospital (MUSH) and not-for-profit sectors was established in 2008.
  - Transit City plan aimed at increasing ridership across the GTA, reducing single occupancy vehicle commuters.  
[http://www.toronto.ca/involved/projects/transit\\_city/index.htm](http://www.toronto.ca/involved/projects/transit_city/index.htm)
  - Home Energy Assistance Toronto (HEAT) project launched in 2009 – provides homeowners with a grant from the city and access to grant programs through provincial and federal governments to improve their home's insulation.  
[http://www.toronto.ca/livegreen/home\\_energy\\_heat.html](http://www.toronto.ca/livegreen/home_energy_heat.html)
- **Corporate Smog Response Plans of Divisions:**

  - The Corporate Smog Alert Response Plan involves City Agencies, Boards, Commissions and Divisions developing smog alert response plans specific to their functions. In general, Divisions are involved in year round energy conservation activities including: Turn off lights and other equipments (e.g., printers, photocopiers) at the end of the work day; Take public transit, carpool or walk to work, if they are not required to use their personal vehicle on the job or when traveling between work locations; Considering whenever

- possible, the use of teleconferencing instead of traveling by car to meetings; Whenever possible, combine visits and inspections to reduce vehicle trips; adhere to the anti-idling by-law, etc.
- In addition to the year round energy conservation efforts, City Divisions are encouraged to undertake the following smog reducing activities to further reduce air emissions on a smog alert days such as: Suspending non-essential use of vehicles while maintaining core operations, suspending use of oil-based products (e.g., paints and solvents) - use water-based products instead and avoid open burning of materials. For instance, in order to provide continuous services and programs to residents while at the same time complying with the Corporate Smog Response Plans, Museums and Heritage Services offer alternate programming in order to avoid wood fire emissions in their historic kitchens during smog days.
  - **Two Stroke Engines “Cut it Out Toronto”:** Recognizing that a two-stroke mower can be more polluting than a car, the City is implementing a strategy for accelerating the replacement of older, higher polluting small engines in the City Operations and directed that there be a public education campaign to encourage the public to reduce the use of small engines.
  - Since adoption of the strategy, the City contracted the Clean Air Foundation in September/October 2009, to deliver the “Cut it Out Program”. The program encourages residents to recycle their old two-stroke gas equipment including gas mowers, trimmers, leaf blowers and chainsaws. To date, the program has resulted in 283 small engines (e.g. lawn mowers, leaf blower etc) being brought in by the general public at 16 Community Environment Days for proper disposal. With respect to City Operations, the Parks, Forestry and Recreation Division replaced 231 pieces of equipment in 2009 with cleaner alternatives.<sup>4</sup>
  - The City of Toronto is taking the lead to green its own operations by phasing out close to 1,400 pieces of its older, inefficient two-stroke small engines, resulting in reductions of approximately 49,500 kg of smog-forming emissions and 133,600 kg of greenhouse gas emissions.<sup>5</sup>
  - **Toronto Atmospheric Fund initiatives:** <http://www.toronto.ca/taf/>
  - **TowerWise program:** provides condo buildings and high-rises with loans to retrofit the building to become more energy efficient. These loans are then paid off using the energy savings from these retrofits. <http://www.towerwise.ca/>
  - **LightSavers program:** provides support for municipalities and organizations to retrofit facilities such as town halls, parking lots, parking garages etc with high-

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<sup>4</sup> Appendix A: Status Summary for the Climate Change, Clean Air and Sustainable Energy Action Plan Recommendations (as of January 31, 2010)

<sup>5</sup> from the Cut it Out website

efficiency lighting systems. <http://www.toronto.ca/taf/lightsavers.htm>

- **FleetWise program:** provides financial and informational support for fleet operators to incorporate hybrid vehicles and plug-in electric vehicles into their fleet <http://www.toronto.ca/taf/fleetwise.htm>
- **SolarCity program:** provides financial and informational support for home and business owners to use solar energy to provide some of their energy requirements. <http://www.toronto.ca/taf/solarcity.htm>
  - Solar Neighborhoods projects utilize solar water heating in entire neighborhoods. <http://www.solarneighbourhoods.ca/index.php>

## City of Vaughan

### Corporate Plans and Actions

- Green Directions Plan completed in 2009. [http://www.vaughantomorrow.ca/EMP/pdf/Green\\_Directions\\_Vaughan\\_Final%20.pdf](http://www.vaughantomorrow.ca/EMP/pdf/Green_Directions_Vaughan_Final%20.pdf)
- This plan features provisions for green procurement, energy use reduction, and facilities management plans aimed at reducing Vaughan's GHG emissions
- City will be conducting energy audits of facilities, and performing retrofits and improvements as recommended in these audits in the coming years (audits scheduled for 2009-2010).
- Green fleet policy planned for 2011-2014. Currently Vaughan has 2 hybrids, 4 smart cars and uses 25% biofuels in their fleet. In addition, off road and maintenance equipment is fitted with emissions reducing technology, although the page does not specify what those technologies are.
- Traffic lights replaced with LED.
- Street Light Pilot Project. [http://www.city.vaughan.on.ca/vaughan/council/minutes\\_agendas/committee\\_2010/pdf/Environment0413\\_3.pdf](http://www.city.vaughan.on.ca/vaughan/council/minutes_agendas/committee_2010/pdf/Environment0413_3.pdf)
- In keeping with Vaughan's commitment to reducing their GHG emissions, they undertook a pilot project evaluating various street lighting options. Their engineering department evaluated the data and recommended Light Emitting Diodes (LED) luminaire technology.

### Community Plans and Actions

- Vaughan's Green Directions Plan commits the community to PCP milestones 1, 2 and 3, committing to complete the 3 milestones by 2014.
- **Other actions taken include:**

- Focusing on building community partnerships, evaluating possibility for district heating, cogeneration and alternative energy production methods
- Green building policies: LEED Gold City hall and Fire Hall, all new houses must be built to EnergyStar standards.  
<http://www.city.vaughan.on.ca/environment/pdf/SpotlightOnEnvironment2ndEdition.pdf>

## Town of Whitby

### Corporate Plans and Actions

No corporate action plan approved at present.

#### Corporate actions include:

- Energy Audits for municipal buildings are underway.  
[http://www2.whitby.ca/asset/cs-report\\_PL50-09-may192009.pdf](http://www2.whitby.ca/asset/cs-report_PL50-09-may192009.pdf)
- New Community Centre in Brooklin is LEED Silver.

### Community Plans and Actions

- No official community action plan approved at present

## Regional Municipality of York

### Corporate Plans and Actions

- Corporate Air Quality Strategy in place since 2008, addresses Regional activities and operations that contribute to emissions of greenhouse gases and criteria air contaminants. The Strategy includes key goals and principles to ensure that clean air actions are implemented, monitored and measured. Targets based on initiatives rather than emissions due to rapid growth in the Region.  
<http://www.york.ca/NR/rdonlyres/dc5xmon5nk2tluwqs42emumt7imjwbxcrbl34qmuteqyqkfrh6rbctx5pq6iyjt4pxhwbmpa53qsykbhd73ucl6eie/York+Region+Corporate+Air+Quality+Strategy.pdf>
- York Region Sustainability Plan in place since 2007 addresses both corporate and community sustainability, including energy and climate change initiatives:  
<http://www.york.ca/NR/rdonlyres/ddvav3nrw2657f4dljc4m3kba4v35qzqdtw62f3zce5cvwur4wbcymuvnoobehvgdkpzgsjrzeohstbduin2jlsmd/Final+Sustainability+document.pdf>
- Vision 2026: Sustainability Progress Report 2009 to be released in June 2010.

- Climate Change Discussion Paper, 2008.  
<http://www.york.ca/NR/rdonlyres/zeuwng3foa24wvwnrnizu5ov4c5tzz2q4fkiang7ueptkkchq5ouctfkce46cmq4wi7c64ikdbrwpidbxlxbacgxp/Jan+16+Climate+att+1.pdf>
- York Region Climate Change Adaptation Strategy underway to be released Spring 2011.
- The following also incorporate the sustainability principles of the Region's Sustainability Strategy within policies and implementation strategies:
  - Regional Official Plan (as adopted by Council December 2009).  
<http://www.york.ca/Departments/Planning+and+Development/Growth+Management/default+Growth+Management.htm>
- Water and Wastewater Master Plan Update (2009).  
<http://www.waterwastewatermasterplan.ca/york/>
- Greening Strategy in place since 2001 which includes programs which mitigate climate change and improve air quality including programs to increase forest cover on public and private property, and education programs intended to increase environmental awareness and encourage sustainable choices including those which contribute to clean air.
- In 2006, the Region implemented a Solar Light Pilot Program for bus shelters. Ten solar light kits were installed on existing shelters throughout York Region.
- In 2008, the Region will begin two pilot programs to test bio-diesel fuels for the existing Viva fleet and the purchase of new diesel-electric buses.
- Purchasing green power for Administrative Center in Newmarket and the Hazardous and Household Recycling depot located in East Gwillimbury.  
<http://www.york.ca/Departments/Corporate+Services/Property+Services/EEMS.htm#016>
- 12 Hybrid vehicles in the fleet, using B5 biodiesel, 10% ethanol blended gasoline, examining alternative fuels.
- LED traffic signal light replacements completed.
- Corporate Energy Reports are produced annually:  
<http://www.york.ca/NR/rdonlyres/yibavpfb26e43usckurvb2s30ozvkzggk5qsv4qgdk6cxqilbzzt47ynfmowktctnrceou3klucjzpetzpnwbwda/may+6+corporate.pdf>
- In 2006, the Region implemented a Solar Light Pilot Program for bus shelters. Ten solar light kits were installed on existing shelters throughout York Region
- EEMS database software developed in-house for tracking utility billing.
- Purchasing green power for Administrative Center in Newmarket and the Hazardous and Household Recycling depot located in East Gwillimbury since 2008. Stouffville Zone 2 Pumping Station added in 2009, and YRT/Viva bus shelters added in 2010.
- Wind power feasibility study completed in 2008.

- Solar photoelectric feasibility study in 2010.
- Minimum LEED® Silver standard for most new municipal facilities since 2006.
- Continuing program of energy audits and retrofits in existing buildings.

### Community Plans and Actions

- LEED certified affordable housing project: Tom Taylor Place – a 50 unit residential development with 20 low-end market-rent priced units and 30 rent-geared-to-income units, constructed for late 2007.
- Program in place to encourage the development of LEED certified buildings.  
<http://www.york.ca/NR/rdonlyres/lgbe6foj2p3rliidvbvzv2mkewaz7msplyni5zi2xi2lprn3qrmqjnzhlwizq74q4vqwm6jph75pdpj2dm6ufjne/Implementation+Guide+June+2008.pdf>

### Provincial Government of Ontario

- **Ontario's Climate Change Action Plan:**  
[http://www.amo.on.ca/AM/Template.cfm?Section=Climate\\_Change&Template=/CM/ContentDisplay.cfm&ContentID=152273](http://www.amo.on.ca/AM/Template.cfm?Section=Climate_Change&Template=/CM/ContentDisplay.cfm&ContentID=152273)
- Sets goals for GHG reductions to 6% below 1990 levels by 2014, 15% by 2020 and 80% by 2050.
- The Plan focuses on the phase-out of coal power in Ontario by 2014 in conjunction with other measures such as increased reliance on Green Energy and renewables, increased funding for research and development, retrofitting incentives, etc.
- Climate Change Secretariat position established to track the government's progress towards achieving their targets; reports directly to the premier.  
**More information can be found at:**  
<http://www.ene.gov.on.ca/en/air/climatechange/ourplan.php>.
- **Ontario's Green Energy Act:**  
Executive summary available at:  
[http://www.greenenergyact.ca/Storage/23/1460\\_GEAA\\_ExecSum\\_2009\\_v2print.pdf](http://www.greenenergyact.ca/Storage/23/1460_GEAA_ExecSum_2009_v2print.pdf)  
Full act available at:  
[http://www.greenenergyact.ca/Storage/26/1769\\_Bill\\_150\\_as\\_of\\_Oct\\_2009.pdf](http://www.greenenergyact.ca/Storage/26/1769_Bill_150_as_of_Oct_2009.pdf)
- The GEA focuses on both demand side management by establishing measures and incentives with the goal of improving efficiency and on increasing the proportion of Ontario's energy coming from renewable and green power by streamlining the approvals process and updating the power grid to accommodate such innovations.

- Information on energy efficiency funding available in Ontario for various sectors (i.e. – residential, commercial etc.) is available at:  
[http://www.mei.gov.on.ca/en/pdf/conservation/energy\\_efficiency\\_funding.pdf](http://www.mei.gov.on.ca/en/pdf/conservation/energy_efficiency_funding.pdf)
- A list of available rewards and rebates can be found through the government's Add It Up campaign at:  
<http://www.additupontario.ca/en/commitments/incentives/rewards.php>
- Government regulations require gasoline to contain a yearly average of 5% ethanol. <http://www.ene.gov.on.ca/en/air/ethanol/index.php>

## Federal Government of Canada

- Government of Canada has committed to a 17% reduction in GHG emissions below 2005 levels by 2020.  
<http://www.climatechange.gc.ca/default.asp?lang=En&n=72F16A84-1>
- Measures to achieve these targets include:
  - Increased reliance on green and non-emitting sources of electricity generation, including hydroelectricity, wind, solar, clean coal and nuclear.
  - Energy efficiency grants for residents to retrofit their homes and businesses.
  - \$3 Billion in funding towards Carbon Capture and Storage technologies
  - Increased funding for green technologies.
  - Have issued a letter of intent to introduce vehicle tailpipe emissions regulations under the Canadian Environmental Protection Act in 2011 which would reduce average fuel consumption in new vehicles by 20% below 2007 levels by 2016.
  - In August 2009, Canada was a signatory on the North American Leaders' Declaration on Climate Change and Clean Energy, which is a guiding set of collaborative principles aimed towards reducing Canada and the United States' GHG emissions by 80% below 1990 or more recent years by 2050.
  - Canada – US Green Energy Dialogue – an ongoing discussion between the two countries on how to better promote and utilize green energy technologies.  
<http://www.climatechange.gc.ca/default.asp?lang=En&n=6F26D447-1>

## Association of Municipalities of Ontario (AMO)

- AMO has established a variety of tools to help municipalities in moving towards the goals and benchmarks outlined in the GTA CAC intergovernmental declarations.

- Some of these policies and toolkits are:
  - Making the Most of Energy: A Top 10 Guide to Energy Savings.  
[http://www.amo.on.ca/AM/Template.cfm?Section=Energy\\_Conservation&Template=/CM/ContentDisplay.cfm&ContentID=134847](http://www.amo.on.ca/AM/Template.cfm?Section=Energy_Conservation&Template=/CM/ContentDisplay.cfm&ContentID=134847)
  - This guide provides suggestions for easy to implement, high-yield corporate strategies to reduce energy consumption, thus reducing GHG emissions and operating costs.
  - As part of the Federal Gas Tax Fund program, the AMO has established an Integrated Community Sustainability Plan (ICSP) toolkit to help municipalities bring their Official Plans into compliance with the Gas Tax Funds ICSP requirements.  
[http://www.amo.on.ca/AM/Template.cfm?Section=Integrated\\_Community\\_Sustainability\\_Plan&Template=/CM/ContentDisplay.cfm&ContentID=150880](http://www.amo.on.ca/AM/Template.cfm?Section=Integrated_Community_Sustainability_Plan&Template=/CM/ContentDisplay.cfm&ContentID=150880)
  - Under the Gas Tax Fund (GTF), municipalities are required to complete an ICSP by March 31, 2010. In Ontario however, municipal official plans are sufficient enough to meet this requirement. In other words, as long as a municipality has an official plan, they do not need to do any further work. This recognizes that Ontario already has a planning framework through existing legislation which mandates municipalities to plan for sustainability (i.e. through the Planning Act and the Provincial Policy Statement). This decision was made by the Ontario Gas Tax Oversight committee which consists of representatives from the federal and provincial governments, AMO and the City of Toronto
  - However, work has been done to encourage municipalities to do more and to raise the bar. AMO has developed an ICSP toolkit which sets out practical methods and ideas that municipalities can implement. The toolkit also contains a number of case studies on sustainability.
- You can find this on our website here:  
<http://www.amo.on.ca/Content/NavigationMenu/SustainableMunicipalities/FederalGasTax/IntegratedCommunitySustainabilityPlan/default.htm>
- Energy Planning tool should be available to municipalities in Spring of 2010 – will provide an opportunity to identify energy saving measures.