



Update Primer for the Community Energy Action Plan Prepared for the Advisory Committee on the Environment

Outline of the Update Primer (4 Pages plus appendices)

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ACTION REQUIRED

- What are highlights of ACE's actions over the last two years?
- What does ACE plan to work on in 2017 and 2018?

Background on London's Community Energy Action Plan

Since the 1990s, the City of London has been focussing on energy use primarily for environmental reasons, namely that Londoners' contribution to both smog-forming emissions and greenhouse gas emissions come primarily from fossil fuel energy use. One of the most important roles that City staff plays is to "connect the dots" between our local initiatives and all of London's major community stakeholders, the activities they engage in, and the role that these stakeholders can play.

London's Community Energy Action Plan (CEAP) was approved by Council in July 2014. The CEAP is the plan on how we collectively move forward on energy conservation, energy efficiency, renewable energy, and other sustainable energy solutions that reduce greenhouse gas emissions. In total, 40 City-led actions were identified over the first two years, for which City staff provided annual updates in 2015 and 2016.

In addition there are numerous actions that are taking place (or planned) in the community and by our key energy stakeholders in London. During the development of CEAP and the design of the overall program, input was received from many including:

- 3M Canada
- Advisory Committee on the Environment
- Argyle Business Improvement Association
- Building Owners' Management Association (BOMA) Ontario
- Fanshawe College
- First Capital Realty
- Labatt Brewery
- London & St. Thomas Association of Realtors
- London Chamber of Commerce
- London Development Institute
- London Economic Development Corporation
- London Health Sciences Centre
- London Home Builders' Association
- London Hydro
- London Middlesex Housing Corporation
- London Police Service
- London Property Management Association
- London Public Library
- London Transit Commission
- Mayor's Sustainable Energy Council
- Middlesex-London Health Unit
- Museum London
- Ontario Power Authority
- ReForest London
- TD-Canada Trust
- Union Gas
- Upper Thames River Conservation Authority
- Western University

These stakeholders expressed support for the CEAP in principle, and most stakeholders provided feedback and recommendations on the proposed actions, as well as provided information on their own actions.

Since July 2014, there have been a number of significant developments both within London and outside of London that illustrate action or support for CEAP:

- Municipal Council recognized the importance of sustainable energy use, climate change mitigation, climate change adaptation, related environmental issues and the need for a more sustainable city in its [2015-2019 - Strategic Plan for the City of London](#).
- [The London Plan](#), developed through an extensive public and stakeholder consultation process, has been approved by Council and the Province of Ontario.
- Council has approved [Shift](#) – London's plan for a bus rapid transit system that will play a key role in shifting trips away from cars on to public transit.

- Council has approved **London ON Bikes** – London’s plan for improve cycling infrastructure that will play a key role in shifting more trips away from cars.
- **Ontario’s Cap and Trade Program** came into effect in 2017, placing a price on greenhouse gas emissions to encourage energy efficiency and renewable energy.
- **Ontario’s Climate Change Action Plan** will make use of the revenue from the Cap and Trade program to fund new programs for energy efficiency and renewable energy.
- Over 90 percent of **Ontario’s electricity supply** now comes from emissions-free sources, although the “all-in” price for electricity has increased by 14 percent since 2013. Given that Ontario now has a surplus of supply, Ontario is working on a new **Long-Term Energy Plan** that will look at the role electricity could play in replacing fossil fuels.
- The **Waste Free Ontario Act** (proclaimed November 30, 2016) and the final **Strategy for a Waste Free Ontario: Building the Circular Economy** (February 2017) focus on moving Ontario towards “a system where nothing is wasted and valuable materials destined for landfill are put back into the economy without negative effects on the environment.”
- Through the **Canadian Energy Strategy** and **The Pan-Canadian Framework on Clean Growth and Climate Change** is now making climate change a national priority and plans to work collaboratively with provincial governments on measures targeting the built environment, including making new buildings more energy efficient, retrofitting existing buildings, encouraging fuel switching, and improving energy efficiency for appliances and equipment.

How has the Advisory Committee on the Environment Been Involved?

ACE’s mandate is to report to Municipal Council, through the Planning and Environment Committee. ACE provides input, advice and makes recommendation on environmental matters affecting the City of London. This involves a range of sustainable programs and functions such as: remedial planning of contaminated areas; waste reduction, reuse and recycling programs; water and energy conservation measures; climate change mitigation; and to initiate and/or receive submissions and/or delegations regarding any environmental concerns and to report with recommendation to the Planning and Environment Committee.

ACE has an active Energy Sub-Committee whose current work plan includes studying renewable energy (small hydro, solar PV, co-generation of heat & power), private-property Local Improvement Charges for energy retrofits, and alternative building materials/strategies (e.g., green roofs).

How is London Doing So Far? Some Key Indicators

Good progress has been made on reducing energy use and associated greenhouse gas (GHG) emissions in London:

- **Average energy use per person** in 2015 was 6 percent lower than 1990
- **Average residential energy use per person** in 2015 was 13 percent lower than 1990
- **Average IC&I energy productivity (\$GDP per GJ)** in 2015 was 44 percent higher than 1990
- **Average GHG emissions per person** in 2015 were 25 percent lower than 1990
- **Total GHG emissions** in 2015 were 8 percent lower than 1990, which surpassed the initial target for a 6 percent reduction from 1990 levels by 2014

However, there are some areas for improvement:

- **Average transportation energy use per person** has been steadily increasing in recent years, and was 4 percent higher in 2015 than it was in 2012. This may be due to vehicle ownership in London increasing at a pace significantly higher than London’s population growth

Additional information on London’s energy use and associated greenhouse gas emissions can be found in our 2015 Community Energy & Greenhouse Gas Inventory report on the City of London website.

What Progress has the City of London Made So Far?

As reported to Council in June 2016, almost 70 percent of the 40 City-led actions outlined for 2014 and 2015 were completed or approaching completion. The following table provides a snapshot of progress made as of April 2016, with additional details provided in Appendix 1.

Overall Progress on Initial City-Led Actions as of April 2016				
Not Started	25 Percent Completion	50 Percent Completion	75 Percent Completion	Completed
2 actions (5%)	6 actions (15%)	5 actions (13%)	12 actions (30%)	15 actions (38%)

As the CEAP moves in to the second half of its 2014-2018 term, the City of London will start the implementation of the 17 Key Strategies for the City of London to 2018 as outlined in the CEAP, and summarized in Appendix 2. These key strategies build upon the initial City-led actions already underway or completed. City staff will be providing an update on our CEAP to Council on these actions and key strategies this summer, and we would like to include updates from ACE as well.

Timeline for Next Steps



Action Required – What are the Highlights of the Actions Taken by ACE?

We would like to provide Council and Londoners with a high-level overview of the actions that ACE has already taken or are planning to take in 2017 and 2018. In particular, we would like to hear about those actions that ACE outlined within the CEAP (see Appendix 3) to find out which actions were undertaken and which actions had to be revised or replaced with different actions. The City of London recognizes that plans have to be flexible and adaptable to changing circumstances and new opportunities.

We would also like to hear about what ACE thinks about the City's progress to date. Are there any remaining actions that ACE could support? Do you have better ideas for implementing these actions? Please let us know.

How can this be provided? Here are some options that ACE could use for providing the City this information for inclusion in our upcoming CEAP update to Council:

1. Reference to an existing, publically-available document or website that outlines actions that have been taken, progress on new initiatives, and those under consideration.
2. A paragraph or two from ACE that could be included within the upcoming CEAP update to Council.

Please submit your details in the month of May and no later than May 30, 2017.

Contacts

For more information, or to discuss this further, please contact:

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There are a number of other City contacts that are also available including staff from Roads & Transportation, Planning, Building, Neighbourhoods and Investment & Partnerships.

Appendix 1 – Status of City-Led Actions as of April 2016

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
POLICY SUPPORT FOR COMMUNITY ENERGY ACTION PLANNING						
Incorporate the defining principles of London’s Community Energy Action Plan and Program into the new London Plan.					✓	The draft London Plan includes a reference to develop a Community Energy Action Plan.
Incorporate in to the London Plan means to encourage new homes and buildings to be “future-ready” through low-cost design principles (e.g., provide conduits) that can accommodate the future installation of electric vehicle charging systems (i.e., “EV-ready”), solar energy systems (i.e., “solar-ready”) and district thermal energy loops (i.e., “DE-ready”).					✓	The draft London Plan includes a number of references to “future ready” principles.
Incorporate in to the London Plan means to encourage in-fill development in areas served by existing district energy systems to voluntarily connect to the system.					✓	The draft London Plan and the draft Downtown Master Plan include references to the existing downtown district energy system.
Incorporate in to the London Plan requirements for greenfield industrial, commercial, and high-density residential land development to reserve “utility right-of-ways” to accommodate the future use of district energy systems.					✓	The draft London Plan includes a reference to district energy being permitted in Downtown, Transit Node, and Industrial areas.

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
<p>Study the implementation of Local Improvement Charges for residential and commercial building energy and water retrofits in other jurisdictions, such as the pilot program implementation of the Home Energy Loan Program launched in the City of Toronto in 2014.</p> <p>(Note: In the United States this is known as Property Assessed Clean Energy – PACE funding).</p>				→		<p>The CWC staff report on January 5 2016 provided an update on the status of this action.</p> <p>A workshop with key stakeholders was held in April 2016 to provide them with background information on LICs and set the stage for collecting their opinions on the use of LICs.</p> <p>A business case for the use of LICs will be prepared once feedback has been obtained from key stakeholders, and Legal and Finance staff complete their review of Toronto’s HELP pilot.</p>
<p>Work with the development industry on an integrated community energy solutions pilot project, of sufficient size, to evaluate current practices (municipal and developer); to identify potential barriers in new developments, and to begin the process of overcoming these barriers for the future development in London. Alternatively, carry out a detailed analysis of a comparable project(s) in another Ontario or Canadian jurisdiction.</p>		→				<p>City staff will continue to work with Sifton and their consultant, s2e, to support implementation of the innovative environmental features of this project.</p> <p>s2e is working on a joint FCM GMF application with the City of London and the Region of Waterloo to study “green development” policies and tools needed to support projects such as West 5.</p>
<p>Advocate for increased support from federal and provincial governments for undertaking community energy planning at the municipal level of government.</p>					✓	<p>City of London staff will continue to participate in and support the activities undertaken by the organization, Quality Urban Energy Systems for Tomorrow (QUEST), in particular the Municipal Caucus of QUEST Ontario.</p> <p>City staff and Municipal Council will continue to ensure that provincial policy support and funding for the continued evolution of natural gas and electricity conservation programs remains a priority, as these are key components of community energy planning.</p>

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Participate as an observer the Ontario Power Authority's (OPA's) regional electricity planning activities for the London area in 2015.		→				London Hydro is taking the lead in representing London's interest in regional electricity planning activities. The Independent Electricity System Operator held an introductory meeting with the Corporate Approvals Team in March 2016.
REPORTING AND EDUCATION ABOUT THE ECONOMIC AND ENVIRONMENTAL CONSIDERATIONS OF ENERGY USE						
Identify "influencers" in the community, such as individuals in businesses, organizations, neighbourhoods, and schools at all levels of education and develop strategies to enlist and engage them.				→		City staff participated on a Steering Committee that established the London Environmental Network (LEN) which includes a number of groups that focus on energy. City staff are new influencers at the community level through Active & Green Communities (see Action 10 below). City staff are working with Labatt Brewery to cohost the Corporate Leadership for a Greener London business engagement event on June 15, 2016 (see Action 29 below).
Where possible, implement strategies that engage Londoners at the community or neighbourhood level, or carry out a detailed analysis of a comparable project(s) in another Ontario or Canadian jurisdiction.					✓	Active & Green Communities was formally launched in December 2015 after its soft launch in the fall. To date, there are seven participating communities – Byron Community Association, Glen Cairn Community Partners, SoHo, Tanglewood Housing Co-operative, Trinity United Church, Old East Village, and Willingdon Avenue.
Test the use of new monetary and non-monetary incentives to encourage Londoners to change established energy-using behaviours or habits.				→		Active & Green Communities is being used to test monetary and non-monetary incentives on a small scale. (see Action 10). The City is supporting GOODcoins' project with Natural Resources Canada to encourage eco-driving behaviours.

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Work with the Mayor's Sustainable Energy Council (MSEC), London Hydro, Union Gas to develop additional key indicators and performance measures for community energy use, such as the amount of local energy produced, average building energy efficiency (GJ/m ² floor area), and the economy-related energy and GHG emission indicators.		→				<p>The annual Community Energy and Greenhouse Gas Emissions Inventory now includes energy productivity (\$GDP per GJ of energy) as a key indicator.</p> <p>Five of the CEAP's 13 sector-specific goals now have performance measurements in place.</p>
Work with London Hydro and Union Gas to update energy maps and detailed energy model with more current data (e.g., 2012 data), and determine appropriate frequency for future updates.					✓	<p>London Hydro and Union Gas have provided utility data for 2011 – 2015.</p> <p>Energy maps have been updated up to 2014.</p> <p>Energy maps are a key engagement and planning tool for Active & Green Communities. (see Action 10).</p>
Report key community energy use and associated greenhouse gas emissions indicators on an annual basis, including but not limited to the annual Community Energy and Greenhouse Gas Emissions Inventory.					✓	<p>Annual Community Energy and Greenhouse Gas Emissions Inventory reports were reported for 2013, 2014, and 2015.</p> <p>City staff have been using of easy-to-understand infographics for use in public education print materials and videos, which have been received positively.</p> <p>Community-level household energy use will be reported to participating Active & Green Communities. (see Action 10).</p>
SINGLE-FAMILY HOMES						
Continue to work with London Hydro and Union Gas to explore options for combining water conservation with energy conservation.					✓	<p>Water Demand Management staff have been working closely with London Hydro staff on a range of conservation activities.</p> <p>Peer benchmarking of water consumption is now available on the London Hydro website, and working on integration with London Hydro's Green Button service.</p> <p>Water conservation programs are included within Active & Green Communities. (see Action 10).</p>

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Work with Union Gas to identify priority neighbourhoods (i.e., “red zones” on energy map) for implementation of their new Home Reno Rebate program and Helping Homes Weatherization program, and assist in the promotion of these programs.				→		<p>Updated energy maps have been shared with Union Gas staff.</p> <p>New Union Gas incentive programs are being developed for 2016.</p> <p>Through Active & Green Communities, energy mapping data is being used in SoHo to identify parts of that neighbourhood to target promotion of Union Gas programs will promote Union Gas programs. (see Action 10).</p>
<p>Work with the London Home Builders’ Association (LHBA) to:</p> <p>Explore the potential for a "LEEP 3.0" technology evaluation project</p> <p>Evaluate Toronto's Home Energy Loan Program (LIC pilot)</p> <p>Develop and deliver a draftproofing & insulation demonstration project</p>			→			<p>City staff is currently working with LHBA and Union Gas on weatherization demonstration projects for six homes providing social services (Community Living London, Craigwood Youth Services).</p> <p>LHBA participated in the LIC Stakeholder workshop in April 2016.</p> <p>The information obtained from the draftproofing demonstration project will be incorporated into Active & Green Communities. (see Action 10).</p>
Work with London Hydro and Union Gas to explore options for providing peer comparison (social benchmarking) information on household energy use to encourage conservation.					✓	<p>The Active & Green Calculator provided by Project Neutral allows participants to compare their energy use against their neighbourhood and London as a whole, and has been designed to import data through London Hydro’s Green Button protocol. (see Action 10).</p>
Use energy mapping resources to develop methodology for measuring the average energy efficiency (energy used per square meter floor area) of new single-family homes.					✓	<p>Municipal Property Assessment Corporation (MPAC) property data (which includes data on building type, age, and size) has been matched with utility data to produce residential energy efficiency (GJ/m² floor area) maps. (see Action 13).</p> <p>Neighbourhood-specific residential energy efficiency maps have been provided for Active & Green Communities. (see Action 10).</p>

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Continue working with LHBA to promote the voluntary use of the next generation of the ENERGY STAR for New Homes initiative, as well as broader “green home” labels (e.g., GreenHouse™ Certified Construction and LEED® Canada for Homes)			→			The LHBA’s Technical Committee monitors regulations and processes of a technical, green or environmental nature – building codes, products, materials, building science, community development green practices or standards- and attends OHBA EnerQuality Technical Committee meetings.
MULTI-UNIT RESIDENTIAL BUILDINGS						
Continue to work with London Hydro and Union Gas to explore options for combining water conservation with energy conservation.					✓	Water Demand Management staff have been working closely with London Hydro staff on a range of conservation activities. Water conservation programs are included within Active & Green Communities. (see Action 10).
Use energy mapping resources to develop methodology for ongoing measurement of the city-wide average energy efficiency (energy used per square meter floor area – all commodities) of multi-unit residential buildings.			→			Matching the MPAC property data set (which includes data on building type, age, and size) with utility data is underway. (see Action 13). Energy maps are a key engagement and planning tool for Active & Green Communities. (see Action 10).
Determine the share of London’s multi-unit residential properties participating in Natural Resources Canada’s ENERGY STAR Portfolio Manager and other energy performance labelling and benchmarking programs.	→					This activity will be deferred until Q4 2015. Engaging residents of multi-unit residential buildings (apartments and condominiums) is a key component of Active & Green Communities. (see Action 10).
COMMERCIAL & INSTITUTIONAL BUILDINGS						
Continue to work with London Hydro and Union Gas to explore options for combining water conservation with energy conservation.					✓	Water Demand Management staff have been working closely with London Hydro staff on a range of conservation activities.

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Work with the stakeholders (e.g., London Chapter of the International Facility Management Association, BOMA Toronto) to promote and share existing energy management best practices (e.g., employee awareness & training, monitoring & reporting, etc.) within London's industrial, commercial, and institutional sector.				→		<p>City staff are working with Labatt Brewery to cohost the Corporate Leadership for a Greener London business engagement event on June 15, 2016 (see Action 29)</p> <p>City staff worked with MSEC to host a half-day workshop with local property owners and managers in November 2014 to learn about their existing practices and seek their opinions and ideas on the best way to promote these practices further.</p>
Determine the share of London's commercial & institutional property owners voluntarily participating in Natural Resources Canada's ENERGY STAR Portfolio Manager and other energy performance labelling and benchmarking programs.				→		<p>MSEC's co-op student carried out a web-based search to identify local commercial & institutional property owners who are voluntarily participating. NRCan has also provided information on the number of London properties (and total floor area) within Portfolio Manager.</p> <p>The Province of Ontario is considering extending the existing mandatory reporting of institutional energy use to large commercial properties.</p>
Use energy mapping resources to develop the method for ongoing measuring the average energy efficiency (energy used per square meter floor area) of existing and new commercial & institutional buildings on an annual basis.			→			Matching the MPAC property data set (which includes data on building type, age, and size) with utility data is underway. (see Action 13)
INDUSTRY AND MANUFACTURING						
Determine the share of London's industrial and manufacturing employers (by percentage of employment) that have documented energy management plans, programs, or systems in place.		→				City staff are working with Labatt Brewery to cohost the Corporate Leadership for a Greener London business engagement event on June 15, 2016 (see Action 29)

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Work with the stakeholders to promote and share existing energy management best practices within London's industrial, commercial, and institutional sector.		→				<p>City staff are working with Labatt Brewery to cohost the Corporate Leadership for a Greener London business engagement event on June 15, 2016. Included in this event will be a brief introduction to Sustainability CoLab's "Regional Carbon Initiative" concept currently in operation in Waterloo Region and Niagara Region.</p> <p>MEP Implementation funding will be used to cover the costs of a business engagement workshop in Fall 2016 to explore interest in bringing Sustainability CoLab's "Regional Carbon Initiative" concept to London.</p> <p>Many London businesses, such as Labatt, already report and share environmental best practices through national programs such as Canada's Top 100 Employers, and can be used as a template to follow.</p>
Continue to work with London Hydro and Union Gas to explore options for combining water conservation with energy conservation.					✓	This activity is being led by the Water Demand Management program.

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
STORES, RESTAURANTS, & OTHER SMALL BUSINESSES						
Continue to work with local business associations, leading businesses, the Chamber of Commerce and local utility conservation and demand management staff on energy and environmental initiatives.		→				Active & Green Communities will include working with neighbourhood business associations when applicable. (see Action 10). City staff are working with Labatt Brewery to cohost the Corporate Leadership for a Greener London business engagement event in June 2016 (see Action 29) Preliminary discussions have been held with Project Neutral to adapt the existing Active & Green Calculator for use with small-to-medium sized businesses.
LOCAL ENERGY PRODUCTION AND CO-GENERATION OF HEAT & POWER						
Work with London District Energy to prepare an information package that can be used by the City's Development Approvals staff to encourage new development in areas served by London District Energy to connect to the system.				→		Initial meetings have been held with the City's Development Approvals area and London District Energy staff, with agreement in principle to make these materials available. London District Energy to develop promotional materials.
Work with London District Energy to prepare an information package for use by local architects and developers involved with projects in areas served by London District Energy.				→		Increasing the use of the existing district energy system has been incorporated in to the draft London Plan and draft Downtown Master Plan (see Action 3). London District Energy to develop promotional materials. (see Action 32).
Work with London Hydro and the OPA to determine a realistic estimate of and timeline for reaching the maximum potential for cogeneration and renewable electricity-generating capacity in London	→					The OPA's upcoming Regional Planning activity will provide an opportunity to obtain information on the regional electricity grid's future capacity to support local generation.

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	

VEHICLES AND THE TRANSPORTATION SYSTEM

Carry out the 2030 Transportation Master Plan, as approved by London Municipal Council, for improving London's transportation network to increase walking, cycling, carpooling and use of public transit.			→		<p>The Environmental Assessment for the Rapid Transit Corridors (Shift London) is underway, evaluating options and the preferred form of rapid transit, detailing the corridor improvements required to accommodate rapid transit, refining the implementation timing, and determining in greater detail the overall costs associated with the corridors.</p> <p>The update of the Cycling Master Plan (London ON Bikes) is now underway.</p> <p>Active & Green Communities can be used to test new ideas for walking and cycling infrastructure. (see Action 10)</p>
Carry out the Short-Term Implementation Strategy for active transportation and Transportation Demand Management.			→		<p>Updates on the activities was provided to Council in September 2014 and April 2015. Major activities underway include expansion of the Regional Rideshare service for the greater London region, development of cycling destinations for London, and promotion of London's rich cycling heritage.</p> <p>Active & Green Communities will include AT & TDM activities. (see Action 10).</p>
Obtain statistics on the number of high-efficiency vehicles (e.g., hybrids, plug-in hybrids, electric vehicles, diesel, and compressed natural gas) owned in London.				✓	<p>Vehicle ownership statistics have been obtained for 2010-2014 from Polk Canada through the Clean Air Partnership, with costs shared by Burlington, Hamilton, and Vaughan.</p>
Work with Union Gas to encourage major local fleet operators to adopt the use of compressed natural gas (CNG) vehicles.			→		<p>The follow-up activity from the CNG workshop is being incorporated in to the scope of work for the RNG feasibility study. (see Action 39)</p>
Work with Union Gas and the Biogas Association on a preliminary feasibility study for using "green bin" source-separated organics to produce renewable natural gas (RNG) for use in local CNG vehicles.			→		<p>City staff working with the Biogas Association and Union Gas on a feasibility study for producing renewable natural gas (RNG) from the organics component of municipal solid waste as part of a larger project dealing with compressed natural gas (CNG) vehicles. The Federation of Canadian Municipalities (FCM) Green Municipal Fund is providing \$12,760.</p>

Actions	Progress					Status and Comments
	0%	25%	50%	75%	100%	
Provide tools and resources to help Londoners assess the cost/benefit of replacing older vehicles with more-efficient new vehicles, vehicle downsizing, and eco-driving techniques. Similarly, provide tools and resources to assist local fleet owners/operators in determining the lifecycle cost/benefit of low/no emission vehicles and other fleet greening practices.				→		<p>The City is supporting GOODcoins' project with Natural Resources Canada to encourage eco-driving behaviours.</p> <p>MEP Implementation funding will be used to cover the costs of a fuel efficient vehicle engagement pilot program in 2016-2017, to be tested within Active & Green Communities and the general public. (see Action 10).</p>

Appendix 2 – Key Strategies for the City of London to 2018

POLICY SUPPORT FOR COMMUNITY ENERGY ACTION PLANNING

1. Develop pilot programs to test these new policy tools and report back on their effectiveness.

REPORTING AND EDUCATION ABOUT THE ECONOMIC AND ENVIRONMENTAL CONSIDERATIONS OF ENERGY USE

2. Work with community and neighbourhood associations to make use of neighbourhood energy maps and other energy information.
3. Work with London Economic Development Corporation to encourage major London employers to report their energy performance to the public.

SINGLE-FAMILY HOMES

4. Work with the London & St. Thomas Real Estate Board and the LHBA to promote NRCan's new EnerGuide Rating System and other relevant building labelling programs on existing and new houses.
5. Continue to work with the LHBA to promote wider use of energy-efficiency technologies and techniques in home construction and renovation.

MULTI-UNIT RESIDENTIAL BUILDINGS

6. Work with leading property owners/managers and the London Property Management Association (LPMA) to educate local property owners on the use of energy performance benchmarking and other energy management practices for multi-unit residential buildings, for both the whole building and for marketing of leased space.

COMMERCIAL & INSTITUTIONAL BUILDINGS

7. Encourage the creation of a business-led entity to foster sharing best environmental practices and reporting on progress in London's commercial building sector.
8. Work with stakeholders to pilot the voluntary use of energy performance labelling and benchmarking tools in London, for both the whole building and for the marketing of leased space, to test and demonstrate the potential value of the various energy performance labelling and benchmarking activities available.

INDUSTRY AND MANUFACTURING

9. Work with stakeholder on the ongoing promotion of energy management best practices, such as those provided by the Canadian Industry Program for Energy Conservation (CIPEC) and Natural Resources Canada's Office of Energy Efficiency.
10. Encourage the creation of a business-led entity to foster sharing best environmental practices and reporting on progress in London's industrial and manufacturing sector.

STORES, RESTAURANTS, & OTHER SMALL BUSINESSES

11. Continue to work with local business associations, leading businesses, the Chamber of Commerce and local utility conservation and demand management staff on energy and environmental initiatives.

LOCAL ENERGY PRODUCTION AND CO-GENERATION OF HEAT & POWER

12. Promote and encourage the expanded use of cogeneration of heat & power for both district energy applications as well as net-metered building/facility applications.
13. Investigate the feasibility of utilizing source-separated organics as a feedstock for the production of bioenergy products (biogas, biomass, biofuels) as part of London's waste diversion strategy, as outlined in Road Map 2.0 - The Road to Increased Resource Recovery and Zero Waste.

VEHICLES AND THE TRANSPORTATION SYSTEM

14. Develop and Implement the Comprehensive AT and TDM Action Plan in support of the proposed Complete Streets Mobility Plan.
15. Provide tools and resources to help Londoners assess the cost/benefit of replacing older vehicles with more-efficient new vehicles, vehicle downsizing, and eco-driving techniques.
16. Provide tools and resources to assist local fleet owners/operators in determining the lifecycle cost/benefit of low/no emission vehicles and other fleet greening practices.
17. Work with Union Gas to promote the use of compressed natural gas (CNG) and renewable natural gas (purified biogas) as a substitute for diesel fuel for heavy-duty vehicles in London.

Appendix 3 – Proposed actions submitted by ACE in 2014

During the development of the CEAP in 2014, ACE provided valuable input in to the creation of the CEAP, including commitments to the following:

1. Monitor the progress of ACE's July 17, 2013 recommendation to Council to establish city-led incentive programs for property owners, such as the use of Local Improvement Charges, towards energy and water efficiency technologies in buildings, and the Integration of sustainability into ReThink London and The Official Plan process.
2. Provide comments to the yearly City budget process to give further consideration in budget design to conserving by improving infrastructure performance to reduce long-term costs with the least environmental impact; linking projects with 'green' strategies to any potential leveraged green funding that exists, and examining the budget with a sustainable lens so the City can become less dependent on other levels of government fund.
3. Review and encourage the progress of projects and benchmarks in the City's community energy plan's implementation strategy within the five main areas surrounding energy planning - land use, transportation, buildings, infrastructure and energy supply noting the connection with The Official Plan.
4. Work with City staff to define a preferred way to raise energy planning awareness and communications through greater public participation yearly using a venue such as an open house, an information session, energy fair or public celebration.