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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON DECEMBER 9, 2013
FROM:	JAY STANFORD, M.A., M.P.A. DIRECTOR, ENVIRONMENT, FLEET & SOLID WASTE
SUBJECT:	COMMUNITY ENERGY ACTION PLAN – FINAL DRAFT FOR COMMUNITY ENGAGEMENT

RECOMMENDATION

That on the recommendation of the Director, Environment, Fleet & Solid Waste the following actions **BE TAKEN**;

- a) The final draft of the Community Energy Action Plan **BE APPROVED** for release for community engagement which will include outreach through traditional media, social media, the City’s website and at community events between December 17, 2013 and February 28, 2014; it being noted that the final draft includes the following three companion documents:
 - Understanding the Data
 - Learning from People
 - Reporting on Progress; and

- b) This report **BE RECEIVED** for information.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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Relevant reports that can be found at www.london.ca under City Hall (Meetings) include:

- 2012 Community Energy and Greenhouse Gas Inventory: Challenges and Opportunities (October 28, 2013 meeting of the Civic Works Committee, Agenda Item #8)
- Update on Corporate Energy Management & Reporting Requirements (October 7, 2013 meeting of the Civic Works Committee, Agenda Item #6)
- Update – Key Energy Stakeholder Engagement – Community Energy Action Plan (July 22, 2013 meeting of the Civic Works Committee, Agenda Item #16)
- Update on Rethink Energy London – Celebrating Progress – Sustainable Energy London (February 25, 2013 meeting of the Civic Works Committee, Agenda Item #4)

BACKGROUND

PURPOSE:

The purpose of this report is to provide the Civic Works Committee (CWC) and Council with:

- An overview of the feedback provided by key energy stakeholders;
- A copy of four documents which, when combined, will form a large part of the future *Community Energy Action Plan* (CEAP) including:
 - *Community Energy Action Plan – Final Draft for Community Engagement*
 - *Understanding the Data*
 - *Learning from People*, and
 - *Reporting on Progress*,
- Overview of economic development and business opportunities in energy conservation and sustainable energy; and
- A description on how Londoners and London businesses will be engaged in this final portion of the overall process of developing a *Community Energy Action Plan* for London.

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CONTEXT:

The City of London does not have direct control over how much energy is used in London, but it does have influence. The control over energy use in London rests primarily with our citizens, visitors, employers and employees. Individual and collective action with respect of sustainable energy use, energy management, and energy conservation is the key to our future.

City of London – Areas of Action

The primary areas of City of London influence are described in the following four initiatives that all contribute to community energy use and conservation.

Rethink Energy London was a community engagement and action plan initiative for sustainable energy and conservation that started in January 2010. Its purpose was to increase public awareness, encourage stakeholder action, and seek input on sustainable energy and greenhouse gas (GHG) emission mitigation actions that also creates local social and economic benefits. This initiative covered a broad range of topics under four main themes – Our Homes, Our Neighbourhoods, Our Transportation, and Our Economy. Between 2010 and 2012, City staff have sought stakeholder input by attending their meetings and events, and by hosting workshops, seminars and conferences. Community input was also obtained from the Community Energy Strategy Workshop in support of the *Integrated Energy Mapping for Ontario Communities (IEMOC)* initiative and London’s Roundtable on the Environment and the Economy. *Rethink Energy London* has been promoted at numerous public and community events, such as the London Home Show and Car Free Day. To reach larger audiences, City staff also made use of relationships with local media, including regular appearances on Rogers Television on the Daytime’s Green Segment.

ReThink London, a comprehensive land use planning initiative with a similar name, is being used to help obtain Londoners’ thoughts on how we can do a better job through urban planning. It also has become London’s largest and likely most significant community engagement program. Urban planning can have a significant impact on how much energy we use. Designing new communities with a mix of land uses and density reduces the need to drive all the time, and can allow for innovative energy-saving technologies that take advantage of the different heating and cooling needs of these buildings. Infill development projects, particularly in older, car-dependent suburban neighbourhoods, can help “retrofit” these neighbourhoods to have these same benefits.

Transportation planning is also highly dependent on urban planning. Today in London, the main transportation mode used by residents is the private automobile, which accounts for almost 75 percent of travel during rush hour. The City’s *2030 Transportation Master Plan* and the associated *Comprehensive Active Transportation (AT) and Transportation Demand Management (TDM) Action Plan* will help further shift this commuter travel and travel at all times of the day toward more sustainable choices.

Some of the measures taken to reduce greenhouse gas emissions, sometimes referred to as climate change mitigation, also help towards adapting to the changes that are occurring to our climate. Examples of this include technologies such as green roofs and district energy systems. Measures that accomplish both mitigation and adaptation for climate change are considered highly desirable as they provide the most effective response to climate change. A multi-disciplinary team of City staff are currently developing strategies for climate change adaptation for London.

The Corporation of the City of London is also one of London’s largest employers, operating over 200 facilities and over 300 vehicles involved in delivering a wide range of services to Londoners. The City of London is expected to lead-by-example, and the City’s new *Corporate Energy Management Plan*, currently under development, will outline how to accomplish this.

Finally, one of the most critical roles that the City plays is to “connect the dots” between all of the major community stakeholders, the activities they engage in, and the role that these stakeholders can play in the *Community Energy Action Plan*.

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Energy Stakeholder Discussion & Input

At the July 22, 2013 meeting of CWC, Committee members received an update report on the Key Energy Stakeholder Engagement process as part of the Community Energy Action Plan (CEAP). The primary purpose of the Discussion Primer was to include actions that some of London organizations are already undertaking or are considering within our upcoming Draft CEAP. We wanted to illustrate to others that action is occurring now and that further action is doable when we seek broader comment, input and commitments in the winter of 2013/2014 before the final CEAP is presented for approval to Committee and Council.

A customized *Discussion Primer* was prepared and submitted to various organizations that we identified as Key Energy Stakeholders. These organizations can best be described as falling into one or more of these categories:

- Large energy user or supplier
- Already engaged in energy conservation, energy efficiency or sustainable energy practices
- A business association engaged in various energy related matters
- A community group engaged in various energy related matters

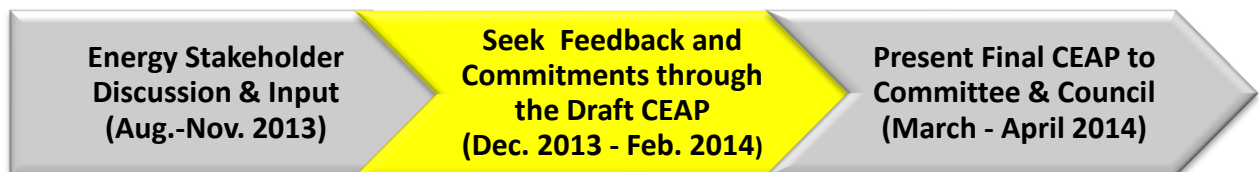
Feedback from the Discussion Primer was received from the following:

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| <ul style="list-style-type: none"> • 3M Canada • Advisory Committee on the Environment • Argyle Business Improvement Association • Building Owners' Management Association (BOMA) Ontario • Labatt Brewery • London and St. Thomas Association of Realtors • London Chamber of Commerce • London Development Institute • London Economic Development Corp. • London Health Sciences Centre • London Home Builders' Association • London Hydro | <ul style="list-style-type: none"> • London Police Services • 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 |
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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. This information has been incorporated into the *Community Energy Action Plan – Final Draft for Public Discussion* document.

DISCUSSION:

The creation of the final *Community Energy Action Plan* and presentation to CWC will require two more steps:

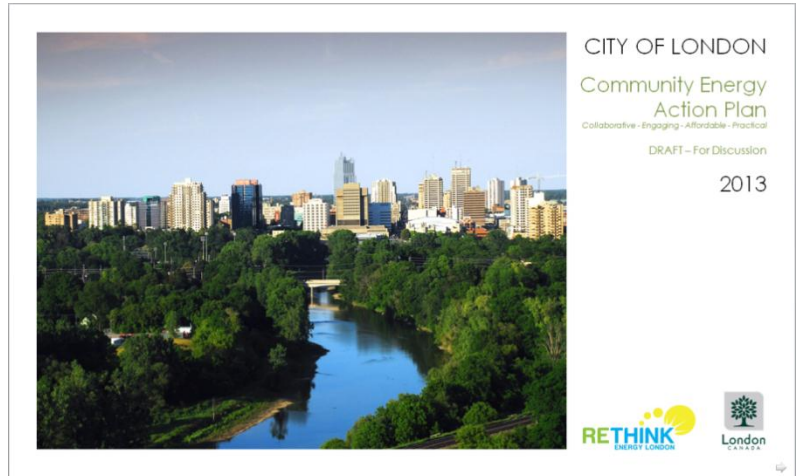


The Draft Community Energy Action Plan and Companion Documents

London's *Community Energy Action Plan – Final Draft for Community Engagement* builds upon what City staff learned through Rethink Energy London and supporting activities. It sets out an action plan with the following key principles:

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1. This needs to be the Community's plan for London, not the City of London's plan for the community.
2. We can't control the price of energy, but we can control the cost of energy.
3. Start first with conservation.
4. Get the size right.
5. Invest in energy efficiency and good design.
6. Make use of free heat and free light.
7. Reduce waste.
8. Measure your progress.
9. Make it local.
10. Build on local strengths.
11. Use renewable energy.
12. Share your stories.



London's CEAP will be a "living document", in that the actions taken by the City of London and the community are expected to grow and change over time. In fact, we have chosen to deliberately leave sections of the action plan "blank" to remind Londoners that we need to hear about what actions they are taking.

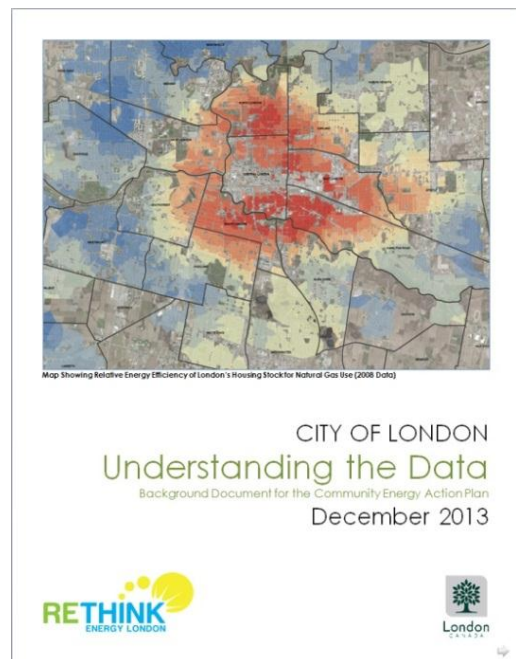
In order to keep the CEAP focussed on "just the actions", we have placed all of the plan's supporting information within the following three companion documents.

Understanding the Data

The purpose of the *Understanding the Data* document is to summarize the majority of the information that City staff have regarding energy use in London and the associated environmental issues.

For issues at the global level, such as the science behind climate change and the global outlook for energy supply and security, City staff rely on the activities undertaken and information provided by recognized international and national entities, such as the International Energy Agency, the National Energy Board, and the Intergovernmental Panel on Climate Change.

This document summarizes information from the recently-released *2012 Community Energy and Greenhouse Gas Inventory: Challenges and Opportunities* report from the City of London.



Understanding the Data also includes information from the *Integrated Energy Mapping for Ontario Communities* project, prepared for London by the Canadian Urban Institute. This project provided a number of new tools to City staff, including:

- a detailed model for energy use and greenhouse gas emissions in London,
- projections for energy use and emissions in 2030 for business-as-usual and two different efficiency scenarios,
- information on the cost effectiveness and job creation for various strategies for efficiency scenarios, and
- a range of "energy maps" to assist in the development of targeted future actions in neighbourhoods.

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Learning from People

The purpose of the *Learning from People* document is to summarize the information that City staff have regarding what Londoners and key energy stakeholders in London think we should do on the topic of sustainable energy.

This document summarizes the information obtained through Rethink Energy London process, in particular two major activities undertaken to learn what Londoners thought about issues related to sustainable energy:

- A Community Energy Strategy Workshop in support of the *Integrated Energy Mapping for Ontario Communities (IEMOC)* initiative, and
- London’s Roundtable on the Environment and the Economy.

This document also summarizes feedback obtained on larger city planning issues through ReThink London. In addition to City-led activities, a number of London organizations have undertaken their own activities to engage Londoners on issues related to sustainable energy:

- Thames Region Ecological Association
- Post Carbon London
- Transition London
- ecoLiving London
- ReForest London
- Mayor’s Sustainable Energy Council

Reporting on Progress

The purpose of this *Reporting on Progress* document is to outline how City staff will keep Council and Londoners informed on the progress being made on London’s CEAP. This includes:

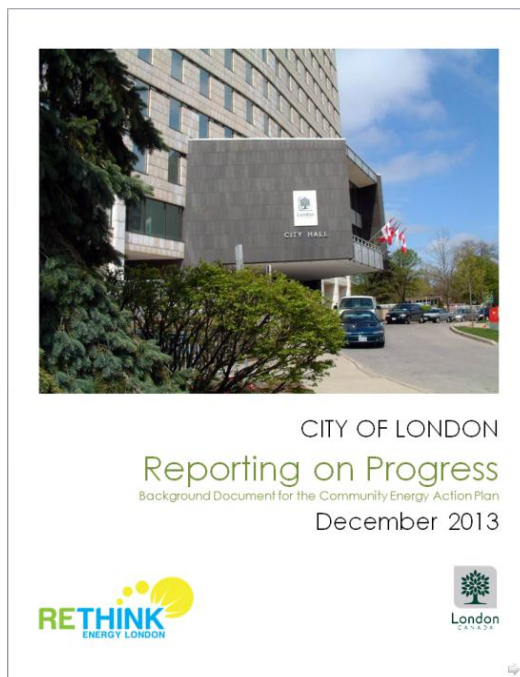
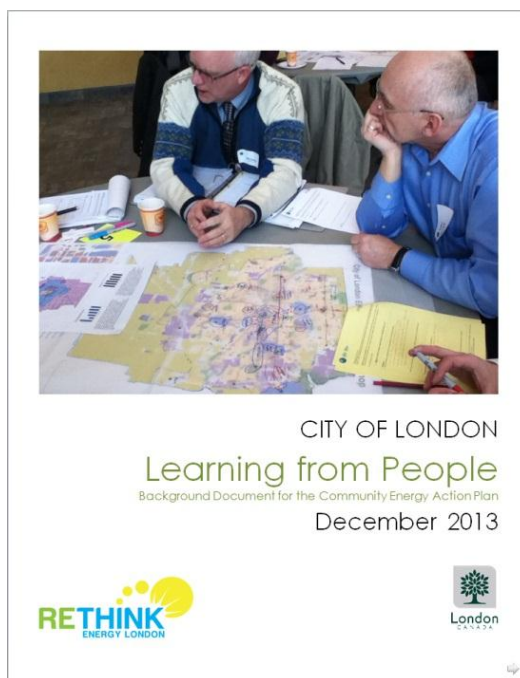
- Providing annual *Community Energy & Greenhouse Gas Inventory Reports*
- Developing new progress indicators
- Open Source data solutions
- Reporting on progress for the community and City of London energy actions, and
- Recognizing progress made by Londoners and London businesses

Economic Development and Business Opportunities in Community Energy Conservation and Sustainable Energy Projects

As noted in the recently-released *2012 Community Energy and Greenhouse Gas Inventory: Challenges and Opportunities* report, Londoners, London businesses and institutions spent approximately \$1.3 billion on energy in 2012. London would be better off keeping more of its money in the local economy. Every one percent reduction in energy use that Londoners and London businesses achieve keeps about \$10 million from leaving our economy.

Money saved through energy efficiency and conservation can be used for other purposes, whether that’s paying down debts faster or purchasing other goods and services. Investing in energy saving retrofits, local sustainable energy projects and local energy production creates local jobs. Examples of the above include:

- Energy retrofits of buildings are primarily carried out by London area contractors and service providers, and can also generate demand for London area suppliers of energy saving products.



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- Green building projects, such as Leadership in Energy and Environmental Design (LEED) Certified buildings (e.g., Sisters of St. Joseph, Stoney Creek Community Centre, Western University’s Richard Ivey School of Business, Auburn Developments’ Upper Richmond Village, Upper Thames River Conservation Authority office) and Energy Star New Homes, provide opportunities for London area businesses to increase their capacity to deliver these products and services to other London area builders, businesses and institutions.
- The CleanTech Sector, which includes energy conservation and sustainable energy product and service providers, is a key focus area for the London Economic Development Corporation (LEDC). The LEDC has a CleanTech Sector overview publication that it makes available to interested companies with respect to energy conservation and sustainable energy opportunities. <http://www.ledc.com/pdf/Manufacturing/Cleantech.pdf> .
- Purchasing new fuel efficient vehicles, hybrid vehicles, and electric vehicles helps to reduce emissions and support the local and regional economy. Many smaller vehicles built today have been designed to provide greater capacity for carrying bulky items, making these vehicles ideal replacements for minivans and SUVs.
- Replacing older appliances with new, energy efficient (Energy Star) appliances also helps to reduce energy use and supports the local and regional economy.
- Numerous energy conservation and sustainable energy projects are underway at the City of London, Western University and Fanshawe College; and local facilities can continue to act as a test site for a number of these projects, in partnership with London Hydro, Union Gas and many local, regional and international businesses.
- Concepts, technology and business strategies developed and/or tested in London represent export opportunities in North America, Central America, and South America.
- Increasing the local capacity for electricity generation helps keep electricity related expenditures in London, as well as builds local capacity to develop these projects:
 - Between 2008 and 2012, locally produced electricity generation increased from 0.2 percent to 1.4 percent of London’s electricity needs.
 - London has over 50 megawatts of local electricity generation capacity installed to date. Most of this capacity is associated with combined heat and power cogeneration plants at London District Energy, Ingredion, London Health Sciences Centre, and Labatt Brewery.
 - As of September 2013, there was over 4 megawatt of solar photovoltaic (PV) in operation, and a new facility, owned by Harvest Power being a 2.85 megawatt biogas facility is being commissioned. Fanshawe Dam also provides 0.675 megawatts of hydro-electric power. An additional 4.5 megawatts of solar PV projects in London has been approved by the Ontario Power Authority under the last round of Feed-In Tariff procurements (summer 2013).

Community Engagement - Providing Feedback on the Draft CEAP

A two to three month engagement period is proposed and would include:

- Information to residents through traditional media
- Social media outreach
- Feedback opportunities through a variety of means including the City’s website
- Outreach at community events (e.g., London Home Builder’s Association Home Show, late January 2014).

Three approaches to obtain final feedback on the draft CEAP will be undertaken.

1. London’s key energy stakeholders - will be provided copies of the *Community Energy Action Plan – Final Draft for Community Engagement* along with the supporting companion documents, and will be asked to provide a final review of the proposed actions to ensure that their comments provided through the Discussion Primers have been addressed.

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2. Londoners & London businesses - at least two general approaches will be used here.
- a) There is a segment of London that may be able to take the time to read and/or comment on the supporting documents and the CEAP. All documents will be posted on the City of London website. Interested members of the public and local businesses will be encouraged to submit their questions and comments regarding the draft plan directly to City staff.
 - b) As we have learned throughout the Rethink Energy London process, there is a growing segment of London already taking action on sustainable energy practices and energy conservation. We want to hear from them in the form of “telling a story.” City staff will develop and promote a web tool that will allow Londoners and London businesses to “share their stories” on energy-saving actions that they have taken or would like to take. Participants will be asked to provide the following information:
 - Name (person or business)
 - Postal code
 - A brief description (100 words or less) of action taken
 - A photo of the action, if available, and
 - A website for additional information, if available.

All the above information will be obtained using the required approach for personal information.

The Final Step

City staff will review and incorporate the final feedback received from Londoners, London’s business community, London’s major institutions, and other key energy stakeholders. The final CEAP is currently scheduled to be presented to CWC and Council in March or April 2014 for final approval.

PREPARED BY:	
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PREPARED AND RECOMMENDED BY:	REVIEWED & CONCURRED BY:
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Documents found on the City of London website (www.london.ca) are:
 Community Energy Action Plan – Final Draft for Community Engagement
 Understanding the Data
 Learning from People
 Reporting on Progress

- c) John Fleming, Managing Director, Planning and City Planner
 George Kotsifas, Managing Director, Development & Compliance Services & Chief Building Official
 Lynne Livingston, Managing Director, Neighbourhood, Children & Fire Services
 Kapil Lakhotia, Interim General Manager, London Economic Development Corporation
 Vinay Sharma, CEO, London Hydro
 Ed Seaward, Manager, Market Opportunity Development, Union Gas