



London
CANADA

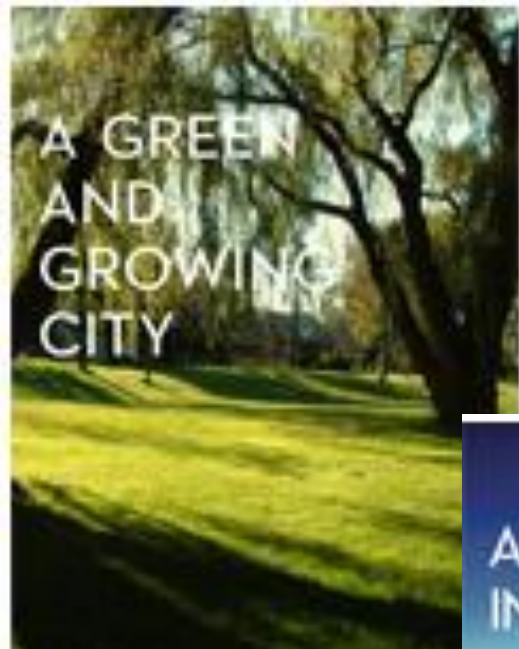
LONDON

Community Energy Action Plan

Draft for Community Engagement

Advisory Committee on the Environment, February 5, 2014





CITY OF LONDON
Strategic Plan
2011-2014





RESULT: A GREEN AND GROWING CITY

How do we know that our city is green and growing?

- Sustainability - Londoners making environmentally friendly choices, including transit modes
- Consumption - waste diversion, energy conserved, greenhouse gas emissions
- Nature Protection - leaf cover, watershed health, green space and biodiversity
- Responsible Growth - assessment growth, population and housing density

Our Strategies:

- Protect our *natural heritage and environment*
- Promote a “*green culture*” and the fundamentals of *sustainability*
- Reduce *carbon footprint* through wise actions that benefit our local, regional and global environment
- Develop *walkable, connected communities with great public spaces*
- Facilitate, plan and manage growth for the greatest long-term benefit of all
- Demonstrate *environmental leadership* in all municipal operations
- Establish London as a *leader in green technologies*

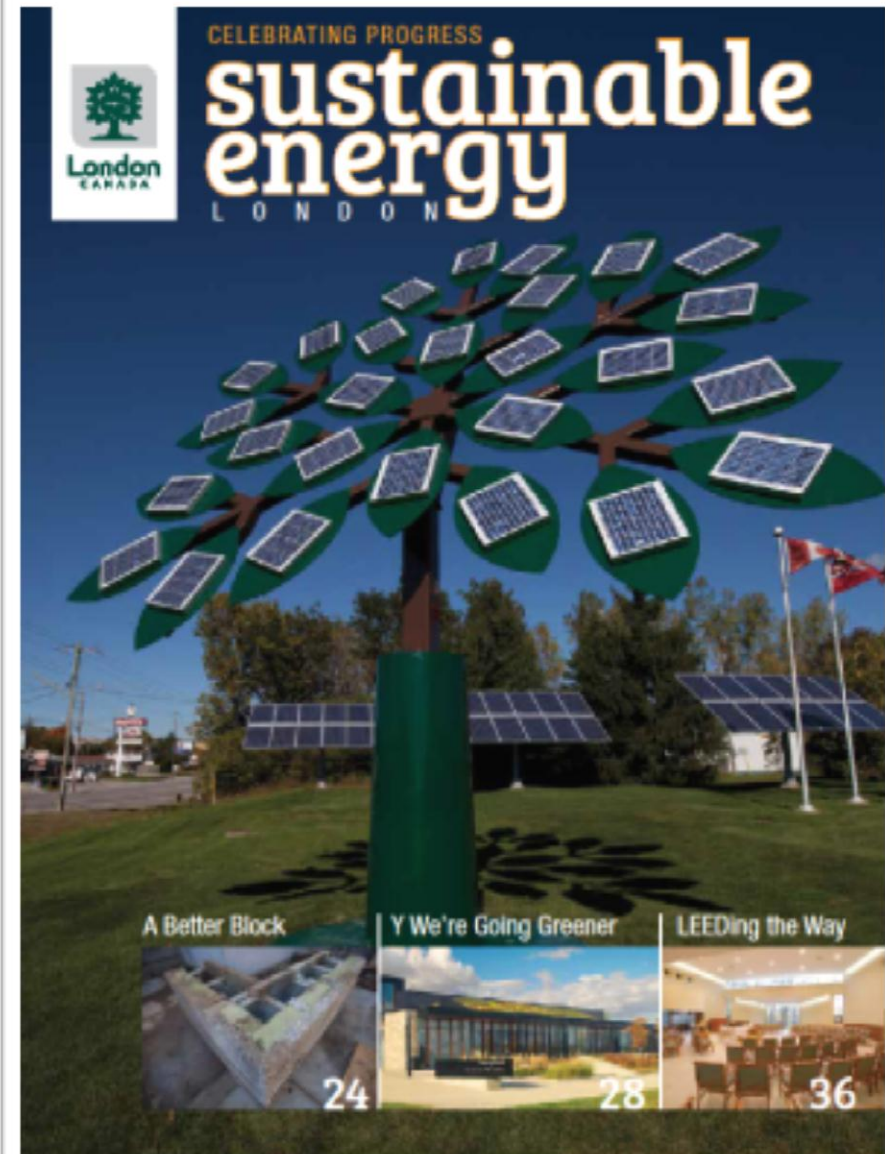


- Launched early 2010
- Focus - engagement & action
- 15 stakeholder meetings; 25+ public events; community actions
- Tested new engagement tools and reporting tools
- Linked to TMP, LSNS & ReThink London



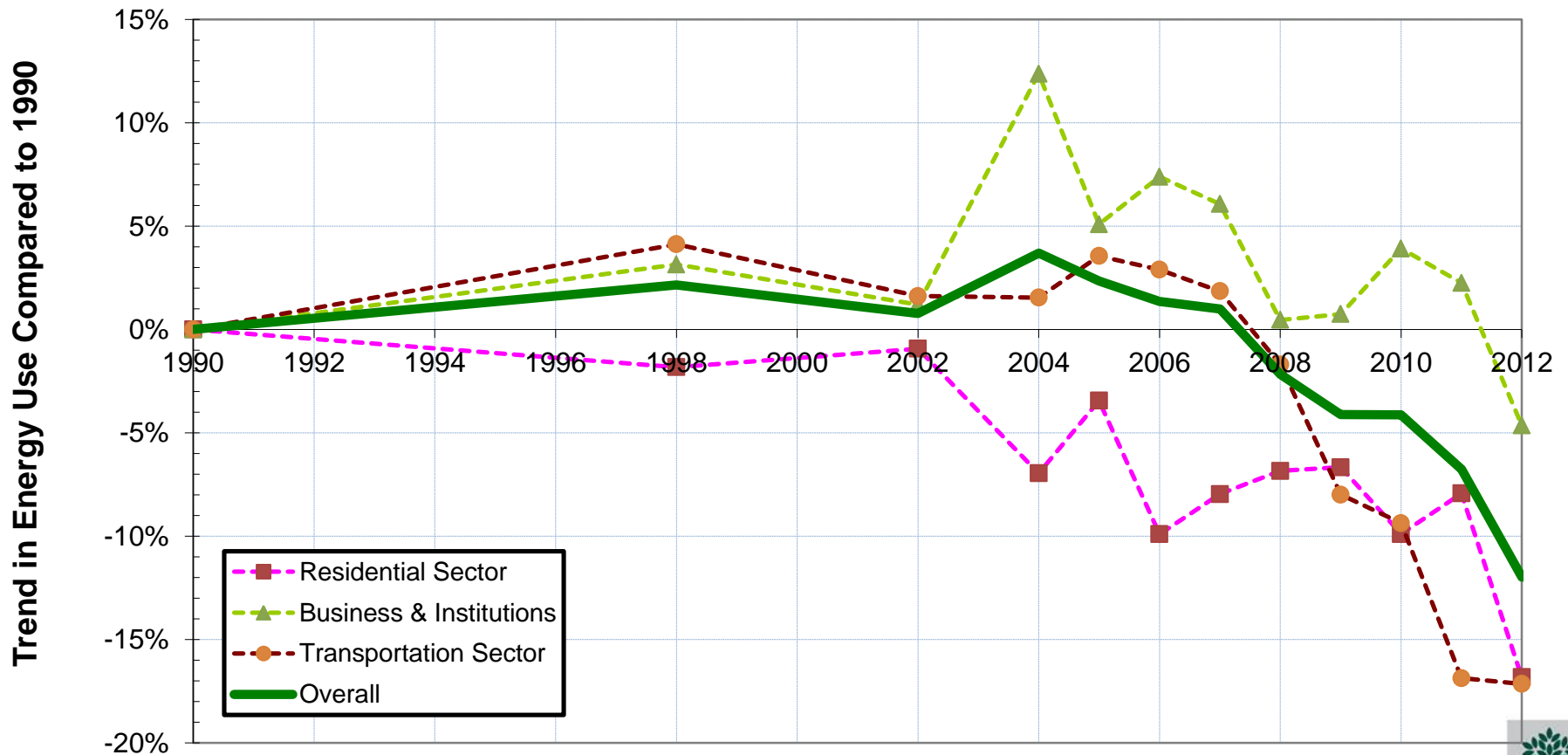


- covers a 2 to 3 year period
- 50+ people
- 40+ projects
- 35+ companies and organizations
- hundreds of people “behind the scenes”



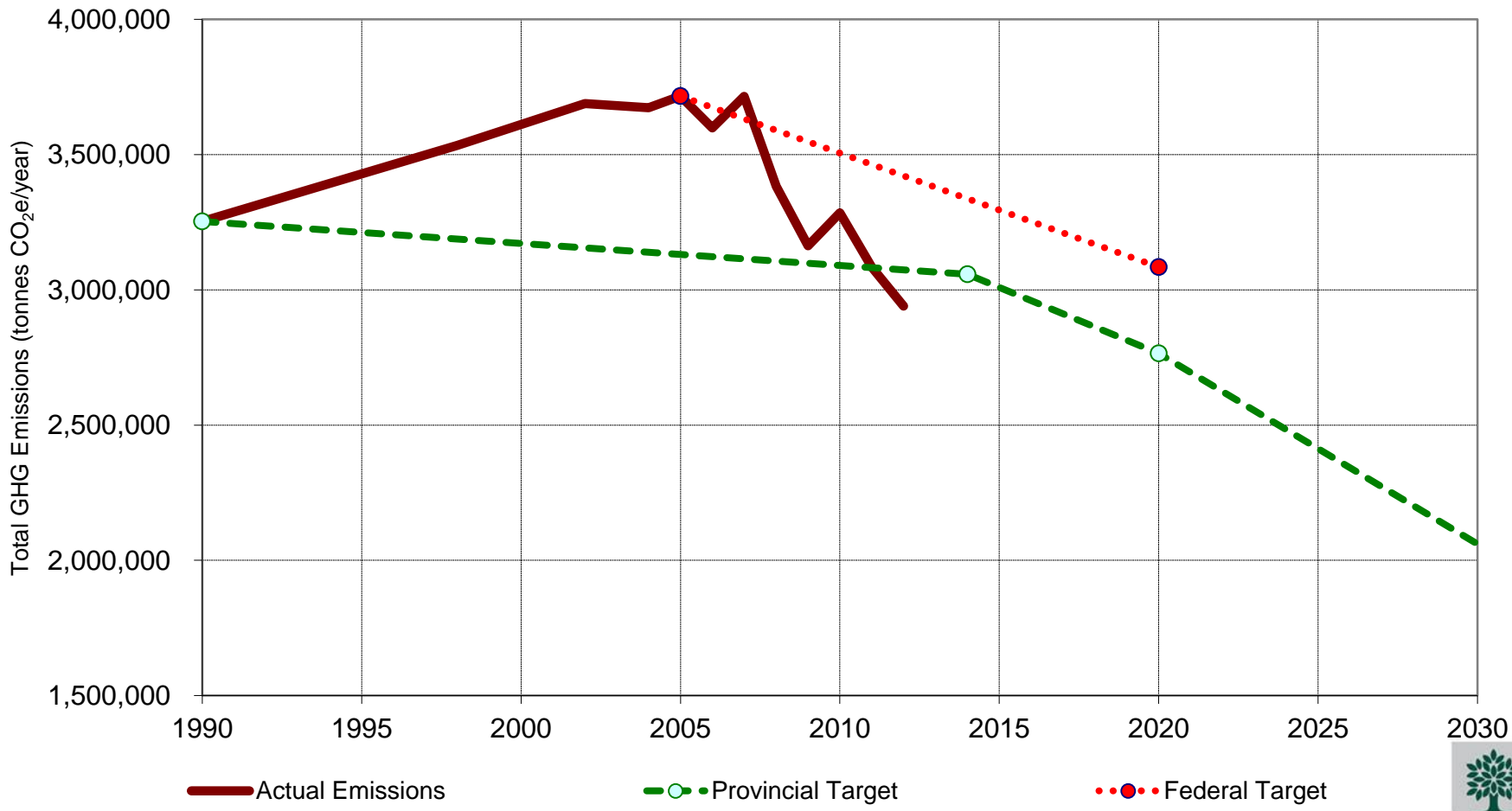


Change in Energy Use in London, Per Person by Sector from 1990 Levels





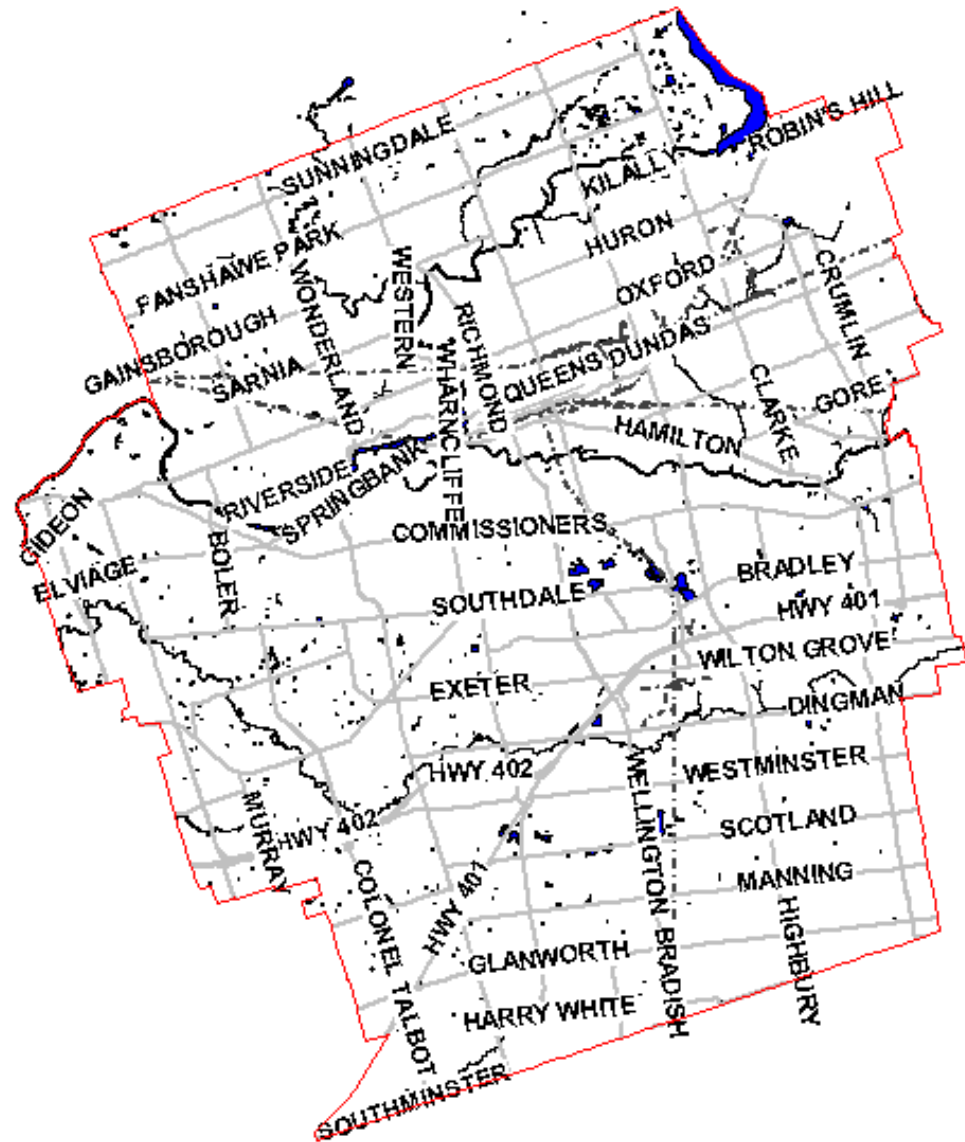
Greenhouse Gases – How Do We Reach Long-Term Goals?





London

- Annual energy bill = **\$1.3 billion**
- Percentage that leaves London **87% (or \$1.1 billion)**





Corporate Energy Management



CITY OF LONDON Update on Corporate Energy Management September 2013

REPORTS:

Past and Current Energy Management Activities

Culture of Conservation – The Next Steps

2011 Corporate Energy Consumption Report

2011 Energy Consumption and Greenhouse Gas Emissions (Ministry of Energy)

2012 Corporate Energy Consumption Report



London
CANADA



Energy Efficient LED Lights at J. Allen Taylor Building, London, Ontario

CITY OF LONDON
**Past and Current Corporate
Energy Management Activities**

September 2013



Solar Tree and Solar Panels at Tourism London, London, Ontario

CITY OF LONDON
**2011 Corporate Energy
Consumption Report**

September 2013



Electrical infrastructure serving the city of London

CITY OF LONDON
**2012 Corporate Energy
Consumption Report**

September 2013





Energy Consumption and Greenhouse Gas Emissions Reporting

Rapports de consommation d'énergie et d'émission de gaz à effet de serre



CITY OF LONDON 2011 Energy Consumption and Greenhouse Gas Emissions (Ministry of Energy) Report

September 2013



Earth Hour 2013. City Hall, City of London

CITY OF LONDON Culture of Conservation – The Next Steps September 2013



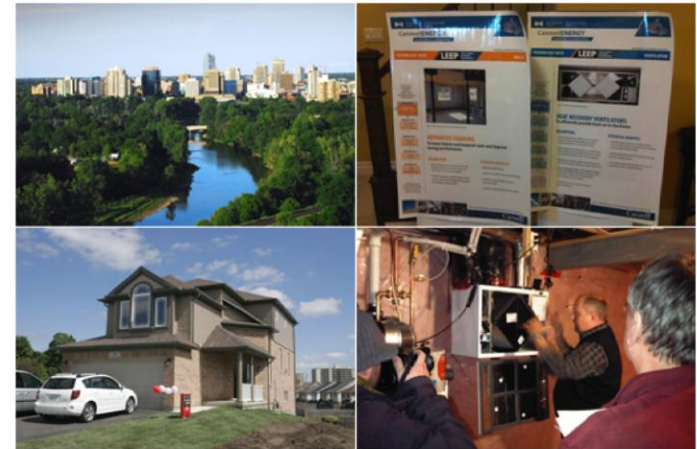
Upcoming: 2014 CDM Report for Ministry of Energy





Stakeholder Discussion Primer

- Sent to 36 “energy stakeholders”
- Feedback from 24
- Overall support
- Recommendations for improvements



LONDON, ONTARIO
Discussion Primer
Community Energy Action Plan
Prepared for the London Home Builders' Association
July 2013

Outline of the Discussion Primer

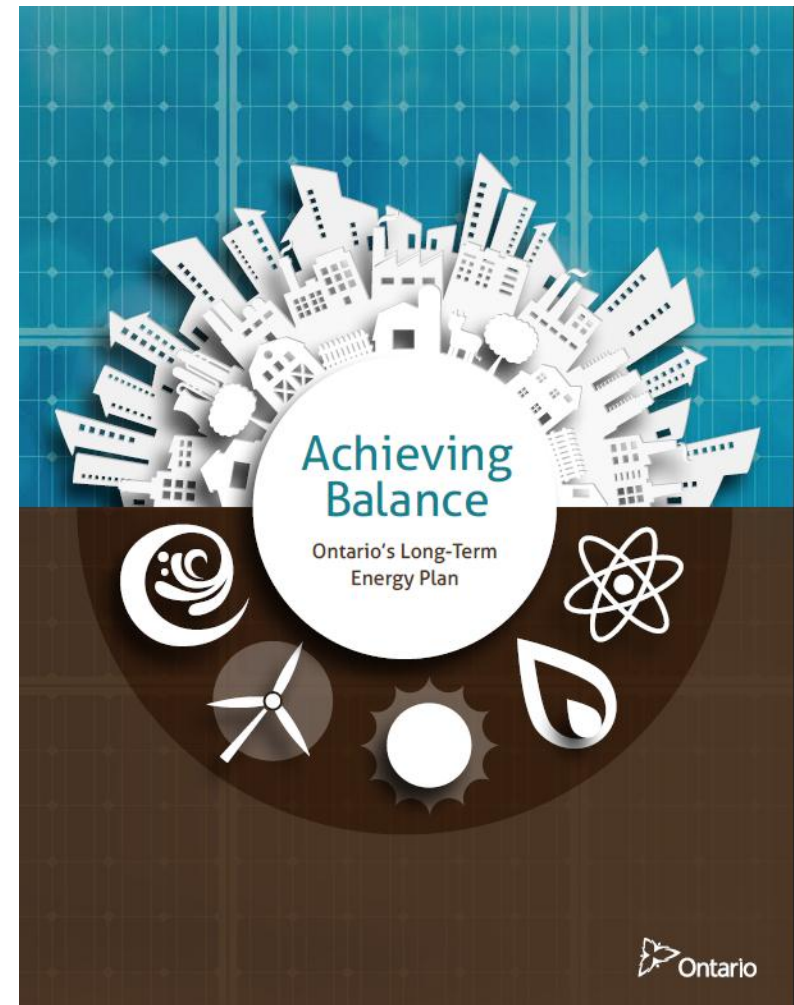
- Background on Rethink Energy London
- How has the London Home Builders' Association (LHBA) been involved so far?
- Why a Community Energy Action Plan now?
- Proposed guiding principles for a Community Energy Action Plan
- What's a reasonable path forward?
- **ACTION REQUIRED** - How can the LHBA help with the Community Energy Action Plan at this stage? **Comments, Actions and Ideas required by September 20, 2013**






Ontario's New Energy Plan

- Electricity 90% of content
- Conservation first
- Better collaboration between gas & electricity
- On-bill retrofit financing
- Green Button apps & social benchmarking







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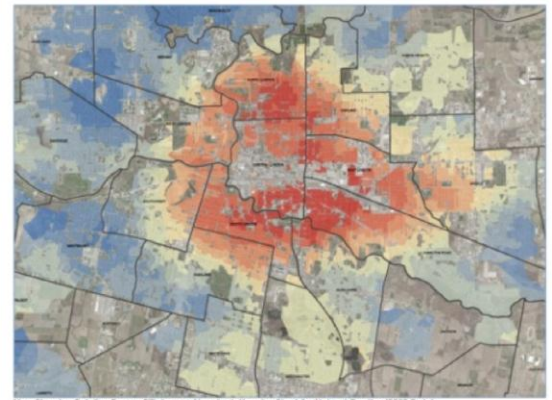
CITY OF LONDON
Community Energy
Action Plan
Collaborative - Engaging - Affordable - Practical
DRAFT – For Discussion
2013





**Community
Energy
Action
Plan**

**Collaborative
Engaging
Affordable
Practical**



Map Showing Relative Energy Efficiency of London's Housing Stock for Natural Gas Use (2008 Data)

Supporting Documents

1. Understanding the Data
2. Learning from People

CITY OF LONDON
Understanding the Data
Background Document for the Community Energy Action Plan
December 2013



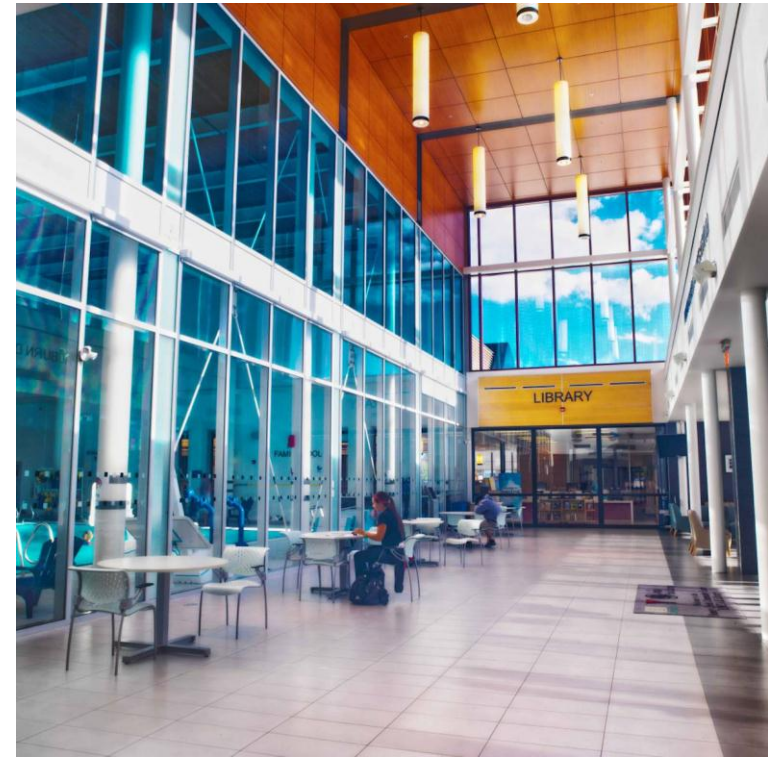
CITY OF LONDON
Learning from People
Background Document for the Community Energy Action Plan
December 2013





CEAP – 12 Key Principles

1. Needs to be the community's plan for London
2. Focus - 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/light





CEAP – 12 Key Principles

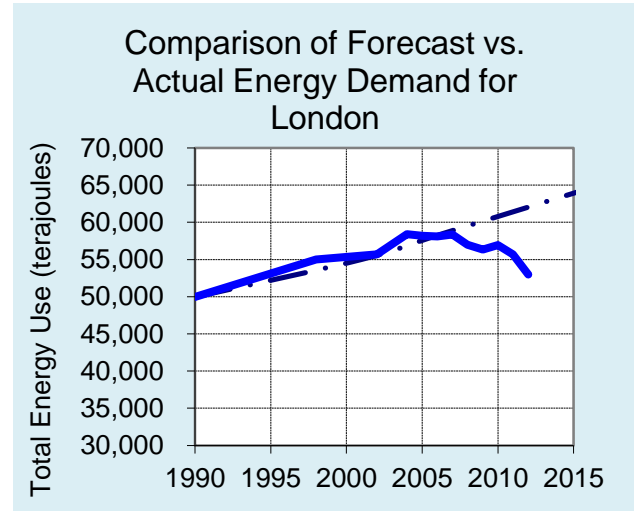
7. Reduce waste
8. Make it local
9. Build on local strengths
10. Use renewable energy
11. Measure your progress
12. Share your stories





Action Plan Elements

1. Policy Support for Community Energy Action Planning
2. Reporting and Education about the Economic and Environmental Considerations of Energy Use
3. Single-Family Homes
4. Multi-Unit Residential Buildings





Action Plan Elements

5. Commercial and Institutional Buildings
6. Industry and Manufacturing
7. Stores and Restaurants
8. Local Energy Production and Cogeneration of Heat & Power
9. Vehicles and the Transportation System





City Staff “Top 3” Wish List

Local Residents

1. Keep on retrofitting older homes
2. Walk and/or bike more – for any purpose
3. Right-size your next vehicle purchase

Local Employers

1. Measure & track your energy use
2. Make a plan & take action
3. Share your plans & stories

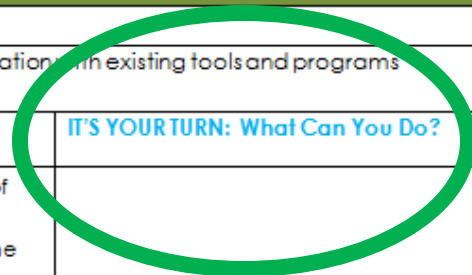
Senior Governments

1. Address all energy needs – not just electricity
2. Prioritize big-benefit, cost-effective measures
3. Maintain a steady course!



Key Strategies for 2014

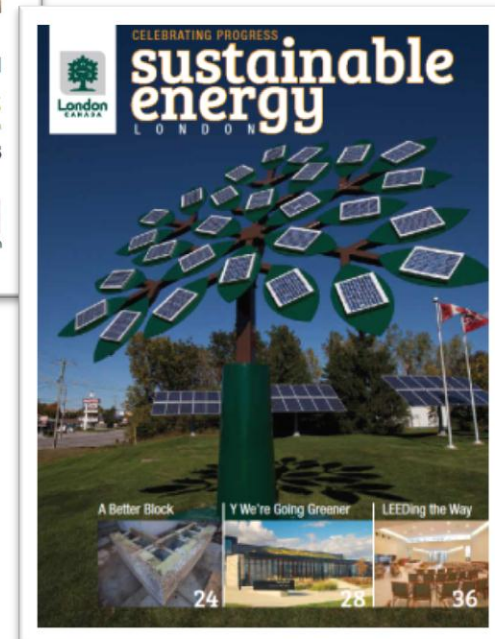
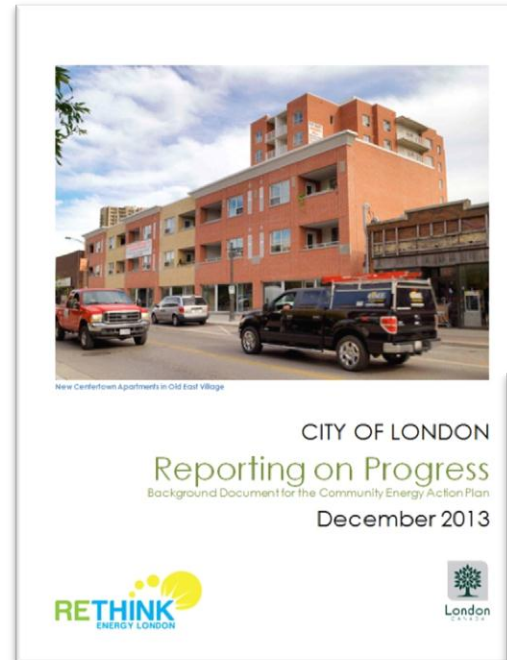
POLICY SUPPORT FOR COMMUNITY ENERGY ACTION PLANNING		
Goals		
Establish new, easy to implement policy tools and programs for encouraging energy efficiency and renewable energy, in coordination with existing tools and programs (including those from utilities) by 2014.		
Highest Priority Actions for the City of London in 2014	Some Examples of What Local Stakeholders are Doing	IT'S YOUR TURN: What Can You Do?
<ol style="list-style-type: none"> 1. Incorporate the defining principles of London's Community Energy Action Plan in to the Official Plan Review. 2. Incorporate in to the Official Plan Review 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"). 3. Incorporate in to the Official Plan Review means to encourage in-fill development in areas served by existing district energy systems to voluntarily connect to the system. 4. Incorporate in to the Official Plan Review 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. 5. 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. 6. Advocate for increased support from federal and provincial governments for undertaking community energy planning at the municipal level of government. 	<ol style="list-style-type: none"> 1. The Advisory Committee on the Environment will monitor the progress of ACE's July 17, 2013 recommendation to Council to: <ol style="list-style-type: none"> a. Establish city-led incentive programs for property owners, such as the use of Local Improvement Charges, towards the use of energy and water efficiency technologies in buildings. b. Integration of sustainability into ReThink London and The Official Plan process. 2. London Public Library will: <ol style="list-style-type: none"> a. Introduce a new policy to put in place a formal, ongoing commitment to making a contribution towards the conservation of our natural resources and the protection of our environment, and reducing the carbon footprint of Library services, operations and business activities in accordance with the principles of reduce, repurpose, reuse and recycle. b. Continue to work on strategy and initiatives in the 2010-2013 Strategic Plan. c. Include environmental strategy and initiatives in the 2014-2016 LPL Strategic Plan: Library Space is Community Place (this Strategic Plan is likely to be finalized February 2014 and will be publicly posted at that time.) 3. The London Development Institute and the London Home Builders' Association will provide support for an integrated community energy solutions pilot project. 	<p>IT'S YOUR TURN: What Can You Do?</p>





Reporting on Progress

- Annual inventory reports
- New progress indicators
- Reporting on City actions
- Recognizing Progress





POLICY SUPPORT FOR COMMUNITY ENERGY ACTION PLANNING

Goals

Establish new, easy to implement policy tools and programs for encouraging energy efficiency and renewable energy, in coordination with existing tools and programs (including those from utilities) by 2014.

Actions & Strategies

Progress

Details

0%	25%	50%	75%	100%
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Highest Priority Actions for the City of London in 2014

- | | | | | | |
|--|--|--|--|--|--|
| 1. Incorporate the defining principles of London's Community Energy Action Plan in to the Official Plan Review. | | | | | |
| 2. Incorporate in to the Official Plan Review means to encourage new development to be "future-ready" through voluntary, low-cost design principles 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"). | | | | | |

Key Strategies for the City of London to 2018

- | | | | | | |
|---|--|--|--|--|--|
| 1. Work with target neighbourhoods (e.g., Argyle, Old East, Old South, etc.) and energy utilities (London Hydro, Union Gas) to develop and test the use of Local Improvement Charges to offer low-interest financing carried through property tax for residential and commercial building energy and water retrofits. | | | | | |
|---|--|--|--|--|--|

Proposed Progress Report Template



Former church on Grosvenor Avenue converted to affordable housing (London, Ontario)

CITY OF LONDON 2012 Community Energy & Greenhouse Gas Inventory: Challenges & Opportunities

October 2013





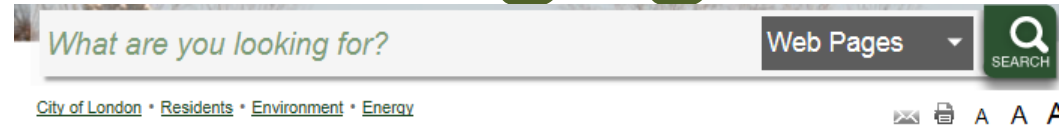
Next 1-2 Months - Engagement

- Traditional and social media
- Feedback through City website
- Outreach at community events





Next 1-2 Months - Engagement



- Send Draft CEAP to key stakeholders
- Post Draft CEAP & seek input from “keepers”
- *Share Your Energy Conservation Stories* (web form & map tool)



Community Energy Action Plan

Jamie Skimming | Friday, January 24, 2014

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



What's the impact of London's energy use? See what your carbon footprint looks like

Video
designed by
London
based
Web.isod.es





Welcome to Reduce Impact, where you can share stories about your efforts to reduce your own ecological footprint. You can browse other people's stories or sign-up and share your own.

[Browse](#)[Info](#)



All action types

Kept old wood frame windows, but make sure they have storm windows and are properly weather stripped

Regina St

posted by Lila

Collect the Drips

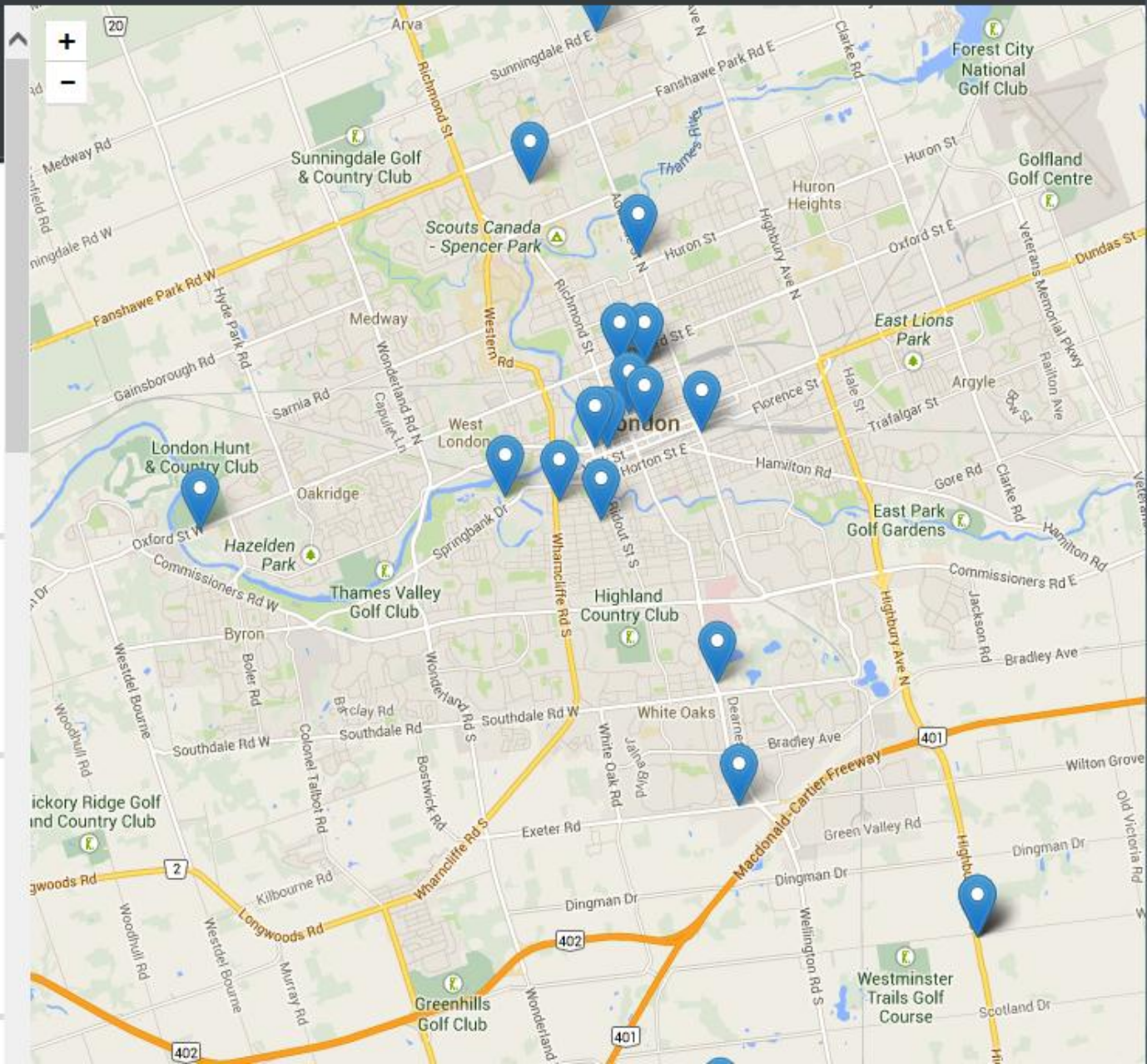
320 Picadilly Street

posted by Ryan Craven

Have a bus pass instead of a second car

Regina St

posted by Lila





March/April 2014 – Final CEAP

- Outcome of engagement
- Updated CEAP
- Estimates on costs and benefits
- Estimates on economic development and business opportunities
- Report to CWC – May/June

