

2ND REPORT OF THE
ADVISORY COMMITTEE ON THE ENVIRONMENT

Meeting held on September 5, 2012, commencing at 12:20 pm.

PRESENT: M. Baetens, (Chair), N. Baird, M. Bloxam, M. Daignault, J. Howell, T. Khan, L. Langdon, G. Sass, J. Shelley, A. Youssef and J. Martin (Secretary).

ALSO PRESENT: J. Pitman and J. Stanford.


REGRETS: P. Almost, N. Champagne, T. Copeland, R. Gupta, and D. Szoller

I YOUR COMMITTEE REPORTS:

- | | |
|--|--|
| Water, Sanitary and Storm Drainage Rate Structure Review – A New Funding Model | 1. That the Advisory Committee on the Environment (ACE) deferred the delegation from R. Welker, Division Manager, Water Engineering Division, with respect to the Water, Sanitary and Storm Drainage Rate Structure Review – A New Funding Model, to its October meeting. |
| 1st Report of the ACE | 2. (1) That the Advisory Committee on the Environment (ACE) noted and filed the 1st Report of the Advisory Committee on the Environment (ACE) from its meeting held on August 1, 2012. |
| Environmental Programs and Solid Waste | 3. (2) That the Advisory Committee on the Environment (ACE) received the <u>attached</u> presentation from J. Stanford, Director Environment, Fleet & Solid Waste, and held a general discussion with respect to environmental programs and solid waste management updates. |
| ACE Representative on EEPAC | 4. (3) That the Advisory Committee on the Environment (ACE) selected Ali Youssef as its representative on the Environmental and Ecological Planning Advisory Committee (EEPAC), for the term ending February 28, 2015. |
| ACE Representative on TAC | 5. (4) That the Advisory Committee on the Environment (ACE) selected Tariq Khan as its representative on the Transportation Advisory Committee (TAC), for the term ending February 28, 2015. |
| 2013 Mayor's New Year's Honours List | 6. (5) That the Advisory Committee on the Environment (ACE) deferred consideration of nominations for the 2013 Mayor's New Year's Honours List to its October meeting; it being noted the members are encouraged to submit potential nominations to the Committee Secretary, by the October agenda deadline. |
| ACE Status Report | 7. (6) That the Advisory Committee on the Environment (ACE) deferred consideration of the <u>attached</u> status report to its next meeting. The ACE members are encouraged to review and provide a priority list of 5 items for discussion at the next meeting as well as ReThink London initiatives. The Committee Secretary was requested to invite H. Chapman, Co-ordinator, Municipal Law Enforcement Services and S. Galloway, Manager, Urban Design, to a future meeting to make a presentation on the Rethink London initiatives. |
| Thames River/Creek Survey | 8. (7) That the Advisory Committee on the Environment (ACE) reviewed and received the Thames River/Creek Survey for the period May-June 2012. The ACE requested the following actions for the committee with respect to this matter:

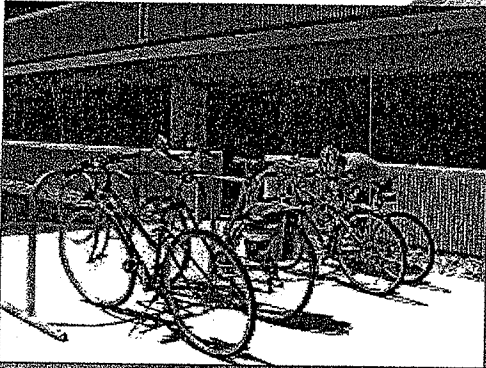
(a) discontinuation of receiving the monthly reports;
(b) receive the annual report and a presentation from the Division Manager and Environmental Services Engineer, EES; and,
(c) requested its Committee Secretary to invite the Division Manager and Environmental Services Engineer, EES to a future meeting with respect to an annual report presentation. |
| Next Meeting | 9. That the Advisory Committee on the Environment will hold its next meeting on October 3, 2012. |


The meeting adjourned at 2:00 p.m.

 **ENVIRONMENTAL PROGRAMS & SOLID WASTE MANAGEMENT UPDATES**


ACE Meeting on September 5, 2012

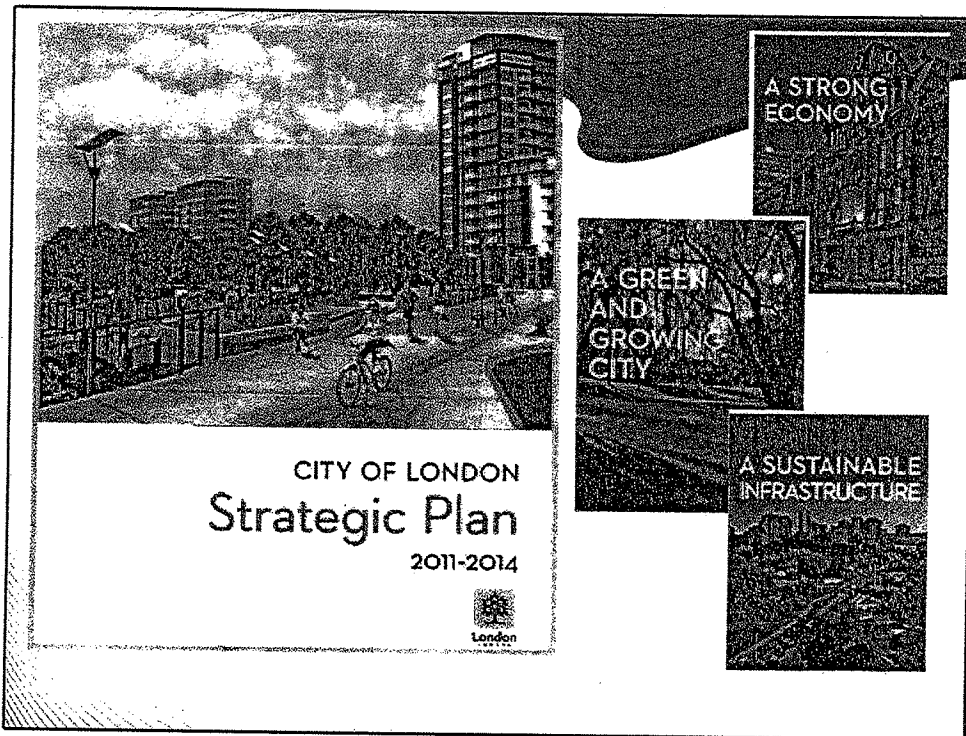
Jay Stanford, Director
Environmental Programs & Solid Waste





 **Notes & Comments**

- Purpose – to illustrate a wide range of environmental activities underway
- Presentation has been set up with too many details; however this allows the opportunity to revisit items at a later date






 Links to Other Initiatives	
Initiative	“Rethinking” Energy Elements
Smart Moves London 2030 TMP	shift to sustainable transportation modes
Green Development Strategy	green buildings & neighbourhoods
Strengthening Neighbourhoods	community-based actions
Waste Diversion Strategy	embedded energy in manufactured material
Water Conservation	awareness, energy for water delivery
Creative Cities	environmentally-conscious & creative action
Parks & Recreation Master Plan	sustainable transportation infrastructure
LEDC Economic Summit	green energy product & service jobs

 **What do we mean when we say the “environment”?**

- Civic Works Committee – think “built” environment
- Planning & Environment Committee – think “natural” environment
- London’s Environment – think community
- ACE, TAC, TFAC, EEPAC


 **In your view, what is the most important environmental issue facing London today, the one you feel should receive the greatest attention from your local leaders?**

■ Second Mention

Too much garbage/Need more recycling	14%	25%
More parks/trees/green space	13%	20%
Air quality/pollution	13%	16%
Reduce/deal with water pollution	8%	11%
Limiting development/urban sprawl	6%	8%
Pollution/emissions (unspecified)	5%	5%
Problems with drinking water quality/availability	4%	4%
None/nothing	3%	9%
Don't know	3%	8%

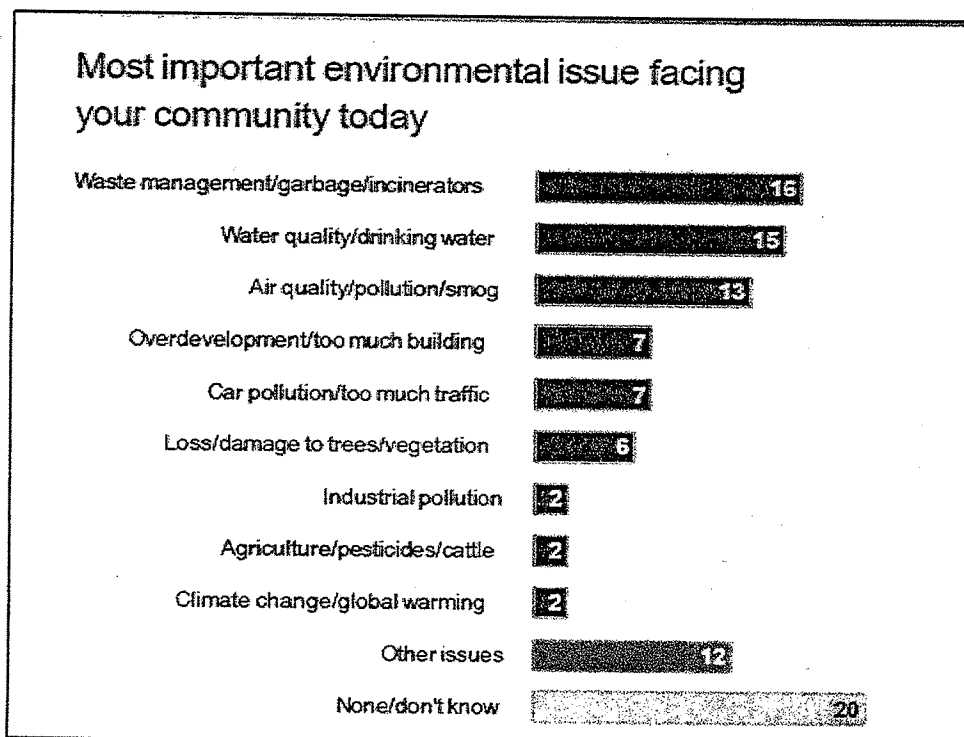
- Ipsos Reid Survey results
- 300 telephone interviews
- Between August 22 and 31, 2007
- accurate to within +/- 5.7%, 19 times out of 20

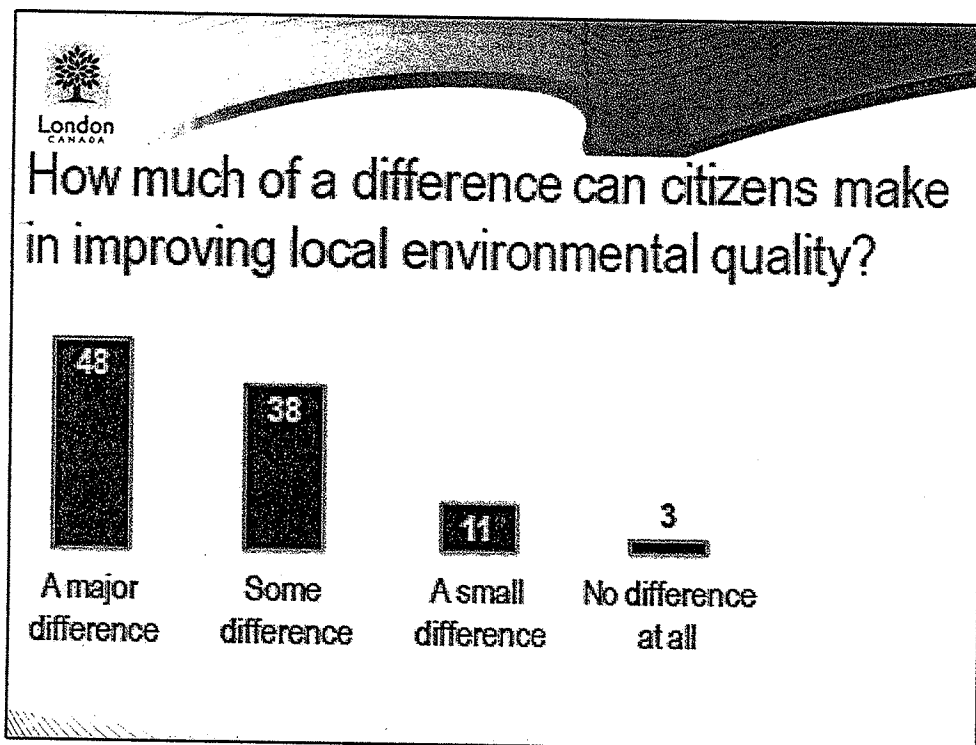
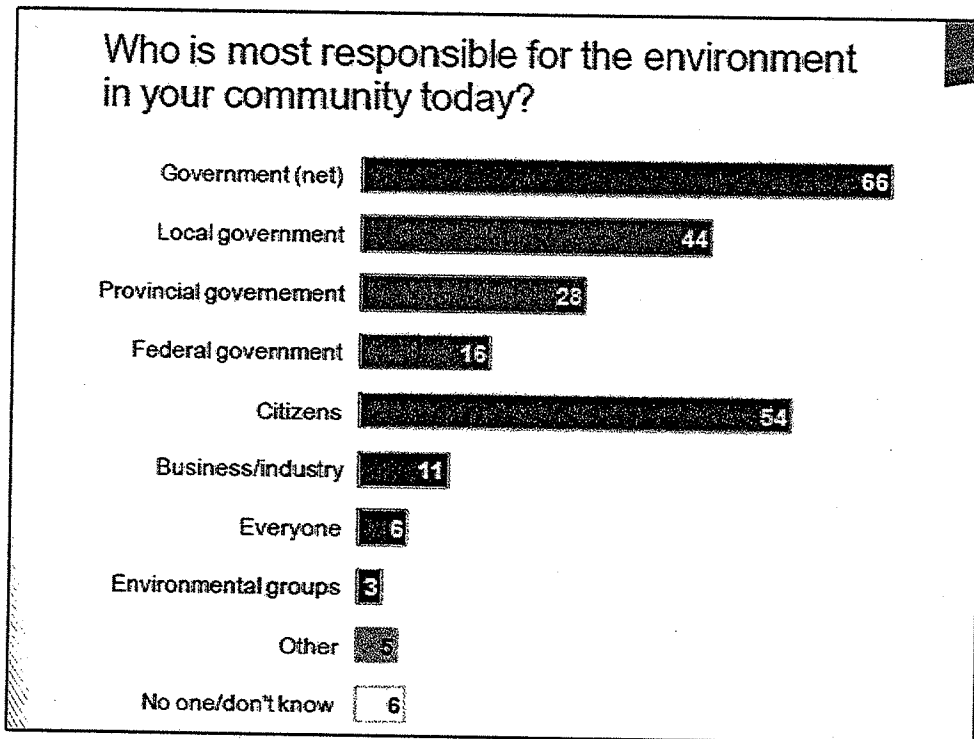
Note: Only total mentions of 4% or more are shown.
Base: All respondents (n=300)




Community Foundations of Canada - 2010 Vital Signs National Public Opinion Survey

- Environics Research Group
- June 2010
- representative sample = 2,000
- accurate to within +/- 2.2% (19 times out of 20)








Biggest Obstacles to Greater Citizen Environmental Action

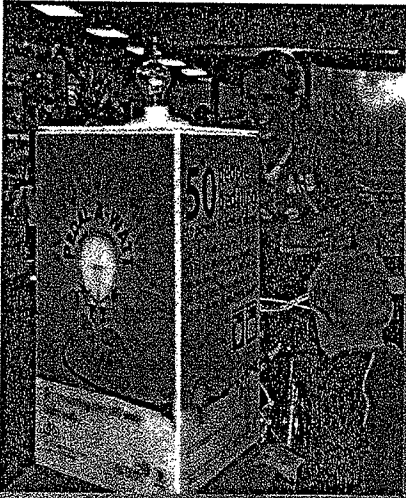
Obstacles	%
1. Behavioural/Motivational Barriers <ul style="list-style-type: none">• laziness; lack of motivation; lack of time; unwilling to change	43%
2. Structural/Cost Barriers <ul style="list-style-type: none">• too costly; cannot afford cost of change; lack of options	22%
3. Lack of Information	22%
Other	13%




ENVIRONMENTAL PROGRAMS' UPDATES


Civic Works Committee
Agenda Item #19

Meeting on May 14, 2012




 **Environmental Programs**
- Service Areas


1. Air Quality & Climate Change
2. Corporate Energy Management
3. TDM & Active Transportation
4. Urban Watershed Management and Naturalized Properties
5. Brownfield Site Analysis




... plus we support, collaborate and partner with a variety of City divisions, ABCs, community & business groups

 **Environmental Programs**
2012-2013 Key Strategic Initiatives:



1. Rethink Energy London (Community & Corporate Sustainable Energy Plans)
2. Active Transportation – Cycling - TDM
3. Community/Business Action Partnerships




③


 **1. EcoMobility -**
TravelWise Summerside

- Received Federal/ Provincial Support
- Survey Results - an 18% reduction in drive-alone trips
- Tested new measurement tools





 **Next Steps**

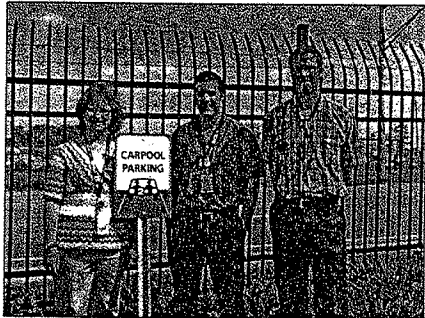
- Continue to work with Optimist Club and home builders




- Apply to new neighbourhoods - Argyle
- Expand use of automatic pedestrian & bike counters



 **2. EcoMobility – Workforce Mobility Project**

- Worked with 8 employers
- Reached 6,000+ employees
- Identified barriers to “green” commuting
- Tested carpool promotion



 **Next Steps**


- Build on employer actions
- Offer tools to more London businesses
- Explore benefits of Business Commuter Networks (BCN)



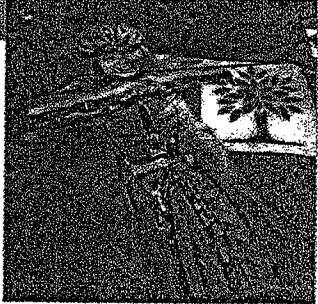
 **3. London Cycles**

- Make it easier to bike for short trips
- Work with local partners
- Build on Bronze Level Bicycle Friendly Community Award
- **Focus on Safety, Exercise & Fun**



 **Next Steps**

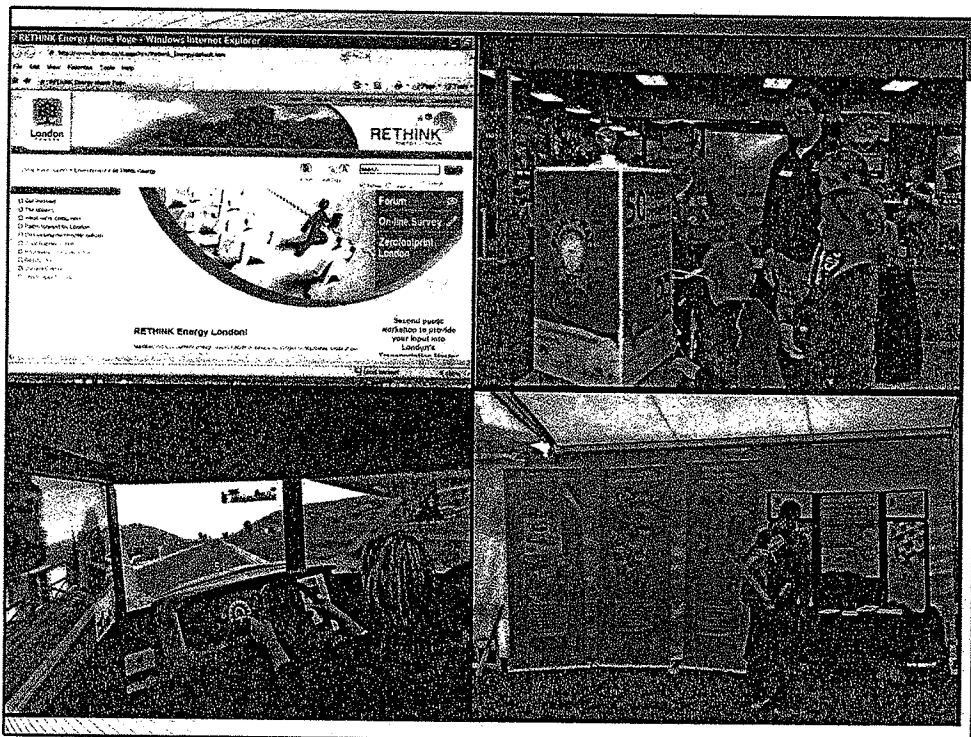
- Implement & promote priority cycling routes
- New Bike & Walk Map
- Host/promote/grow cycling events & gatherings
- **KEY – finalize and implement AT/TDM Plan (via TMP)**






5. Rethink Energy London

- Launched early 2010
- Community engagement & action
- 15 stakeholder meetings
- 20+ public events
- Test new engagement tools




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Community & Business Response & Actions

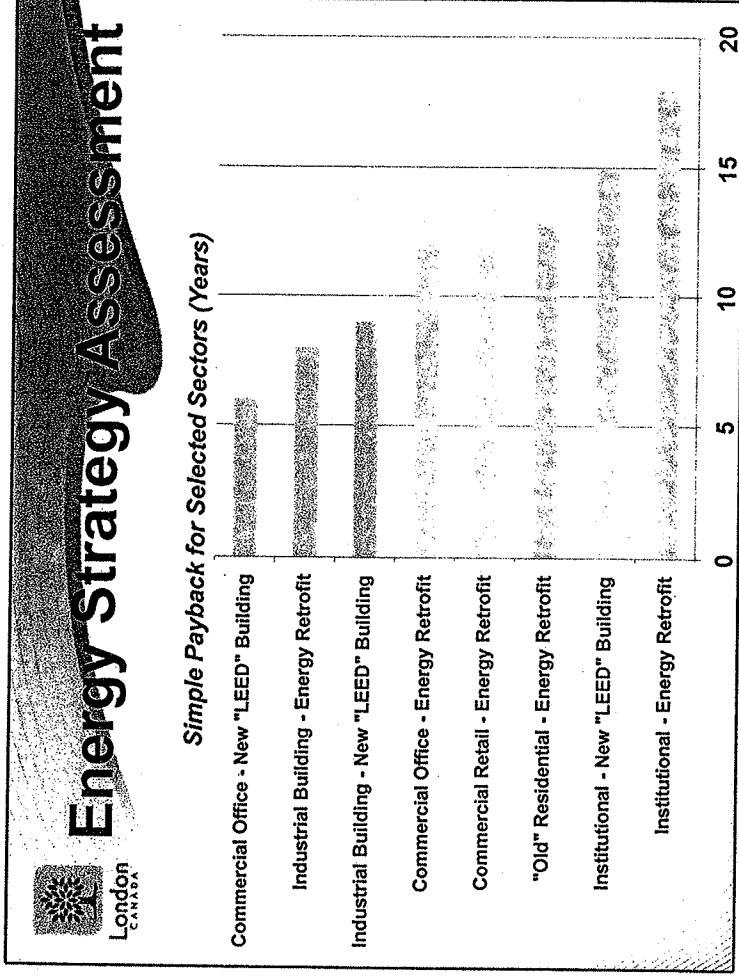
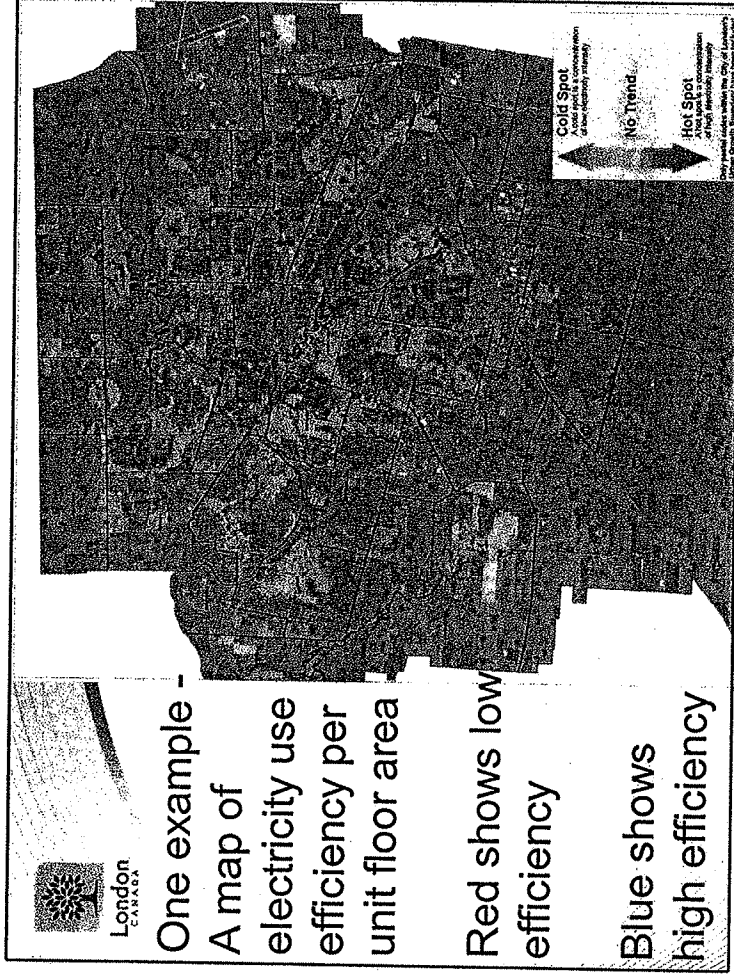
- Presentations (clubs/associations)
- Seminars for home builders
- Workshops for general public
- Events big & small
- Sustainable energy demonstration sites (Landon Library, Stoney Creek, TD Masonville)




6. Energy Map for London

- Created by Canadian Urban Institute
- Funded by FCM, OPA, utilities
- Two main deliverables:
 - detailed energy use maps
 - model to assess energy strategies







7. Roundtable on the Environment & Economy



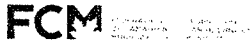
- Funded by **FCM** FEDERATION OF CANADIAN MUNICIPALITIES / FEDERATION CANADIENNE DES MUNICIPALITES
- New citizen engagement tool
- A unique way to obtain environmental opinions and ideas
- Place & time convenient for them

GREEN MUNICIPAL FUND / FONDS MUNICIPAL VERT

You decide.

Join the online Roundtable.
environment. conservation. economy.

london.ca/roundtable

Roundt@ble

- 750 registered participants
- 30 questions
- 70-120 responses per question

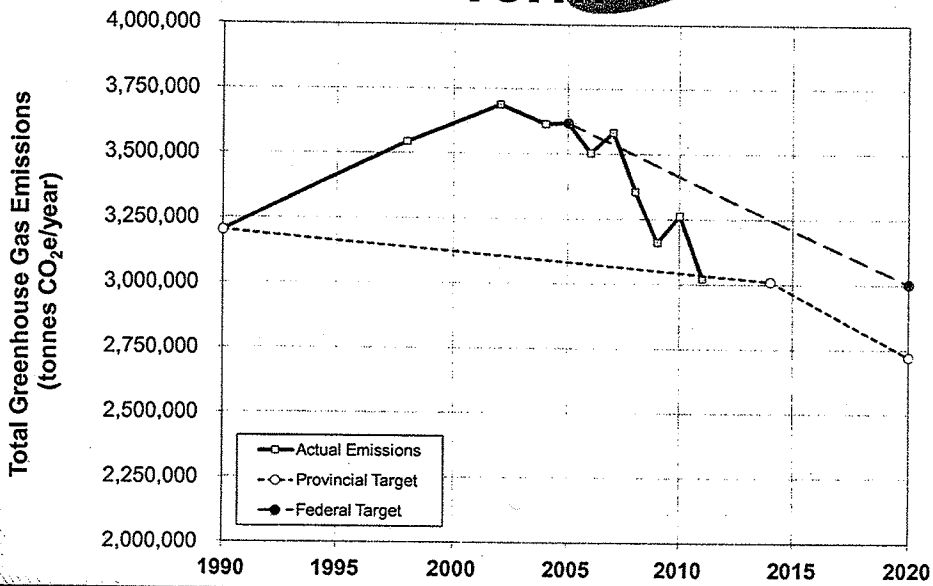


8. Community Action Plan for Sustainable Energy

- Incorporate what we have learned
 - #5 Rethink Energy London
 - #6 Energy Mapping
 - #7 Roundtable
- Cost-effective strategies
- Support for Rethink London



Stay on Track for Near Term



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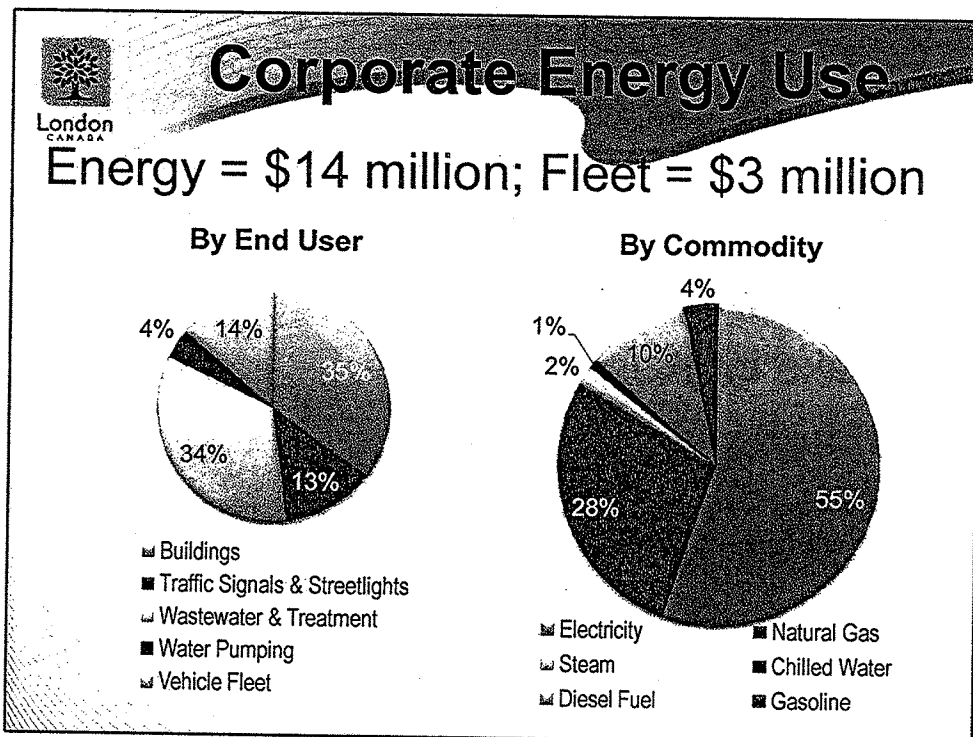
Why the GHG Reductions?

- **70% drop in power-related GHGs**
 - more nuclear plants on-line
 - new natural gas, wind and other green
 - lower demand (economy & conservation)
- **In London**
 - Lower fuel use (high prices)
 - Lower home energy use (existing & new)
 - Landfill gas capture & flaring



9. Corporate Energy Management

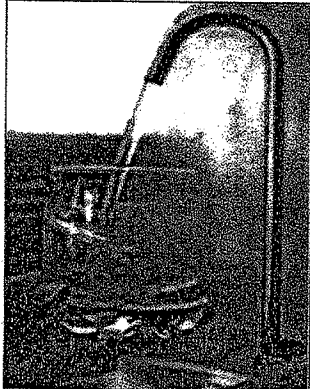
- Build on existing direction
- New shared management model – increased accountabilities
- Mandatory plan by June 2013
 - good shape with existing tools
- ABCs must do their own plans




11. Regional Watershed Projects

London is providing a leadership role in two water initiatives:

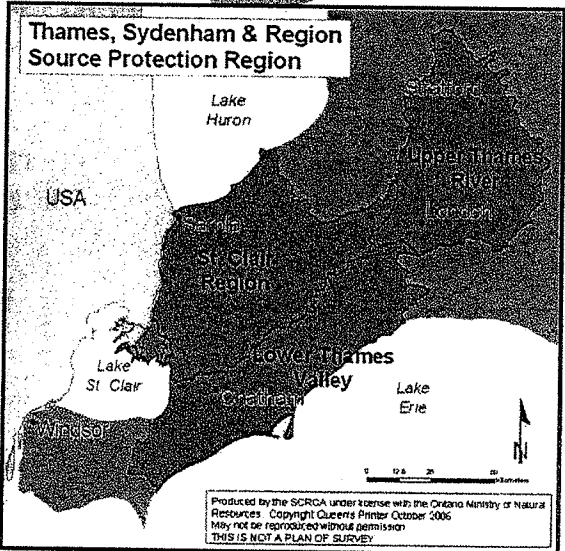
- Source Water Protection
- Thames River Clear Water Revival Initiative






Source Water Protection

3 Regions
2 lake intakes
2 backup well fields for 350,000 people



Thames, Sydenham & Region Source Protection Region

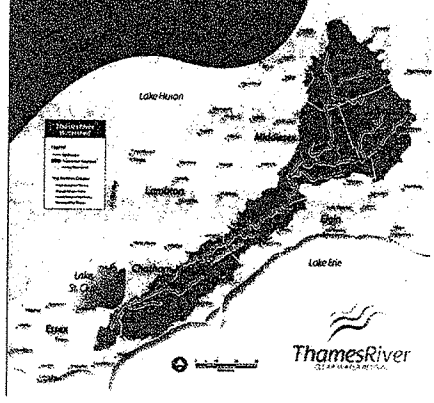
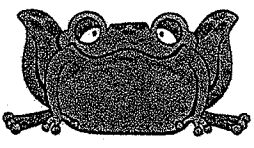
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THIS IS NOT A PLAN OF SURVEY



Thames River Clear Water Revival


Partnership List includes:

- 2 CAs
- 5 Counties
- 25 municipalities
- 5 First Nations
- 3 Ontario Ministries
- Environment Canada


Jeremiah

The last watershed plan was in 1975!



Links to Other Initiatives


Initiative	"Rethinking" Energy Elements
ReThink London	shift to a sustainable community
Green Development Strategy	green buildings & neighbourhoods
Strengthening Neighbourhoods	community-based actions
Waste Diversion Strategy	embedded energy in manufactured material
Water Conservation	awareness, energy for water delivery
Creative Cities	environmentally-conscious & creative action
Parks & Recreation Master Plan	sustainable transportation infrastructure
LEDC Economic Summit	green energy product & service jobs




SOLID WASTE MANAGEMENT UPDATES

**Civic Works
Committee
Agenda Item #17**


**Meeting on April 23,
2012**




 **Solid Waste Services**
2012 - 2013 Key Strategic Initiatives:

1. W12A Landfill & Resource Recovery Site

- Resource recovery opportunities
- Operations (optimization & challenges)
- Environmental Assessment




 **Solid Waste Services**

2. Waste Diversion - Resource Recovery

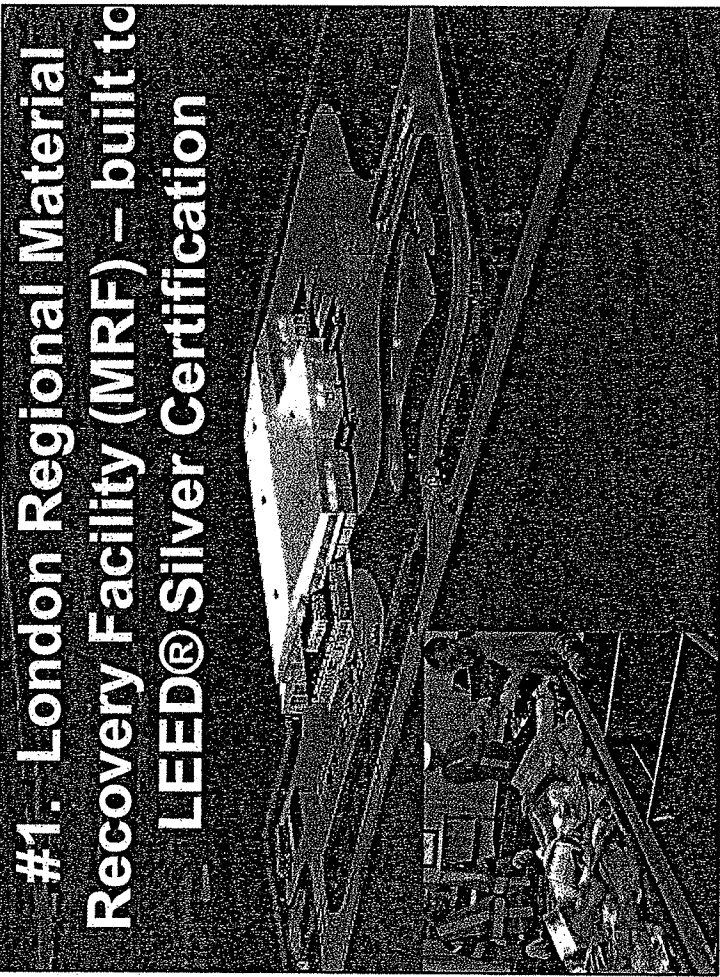
- Recycling - optimize key areas
- Green Bin Pilot Project
- EnviroDepots - growth

3. Collection Services

- Pickup options
- Operations - optimize key areas



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Revenue	Stewardedge	Manning
Average \$/tonne	Price Sheet	Drive MRF
September	\$179	\$202
October	\$183	\$206
November	\$145	\$146
December	\$131	\$137
January	\$129	\$140
February	\$133	\$156

3

 **Economic Dimensions of Recycling**

- \$2.7 million net cost. . . \$16.50/household/year
- \$4.5 million in recycling revenue in 2011
- Greater than 80% marketed to Ontario firms
- Approximately 60 full jobs (Blue Box collection and processing) in London
- Another 20 full “down stream” recycling jobs generated from London’s recyclables

RECYCLING IS Good for our **economy**

 **#3 W12A Landfill - Remaining Capacity**

- Approximately 12 years
- Ranges from 10 to 14 years
- Approximately 250,000 tonnes/year

Waste Breakdown

Category	Percentage
Residential	38%
ICI	33%
City Operations	14%
Contaminated Soil	12%
Biosolids	4%

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#4. London's W12A Landfill – Biogas Utilization REOI

Landfill Gas Management

- Collects 500 cubic feet per minute
- Reduces odours and greenhouse gases



London
CANADA

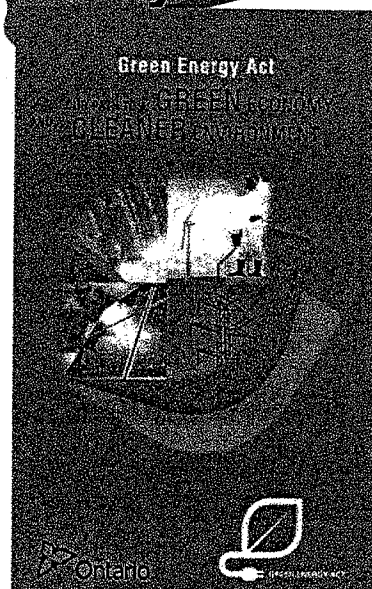
The Opportunity

Renewable Natural Gas (RNG)

- Create 250 to 400 cfm of RNG
- Gas for 1,600 to 2,600 homes
- \$1.4 to \$2.1 million per year

Electricity (Potential FIT)


- Generate 1.6 to 2.4 MW
- Electricity for 1,300 to 1,900 homes
- \$1.4 to \$2.1 million per year revenue




 **#5. Green Bin & Modified Garbage Collection Pilot Project**




About 750 homes in Glen Cairn area

 **Overview**

- Weekly Green Bin & Blue Box
- Garbage pickup:
 - Biweekly (6 months)
 - Weekly (6 months)
- No change to other services





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London
CANADA

After 6 Months

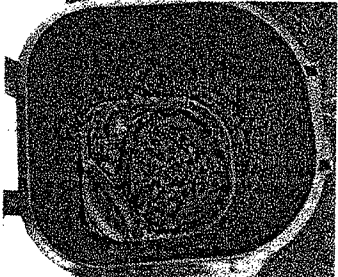

- Current participation 50% to 60%
- 1.5 to 2.5 tonnes each week
- 2.5 to 3 kg per household per week = 130 to 150 kg/yr
- Green Bin has increased diversion between 12% and 16%





London
CANADA

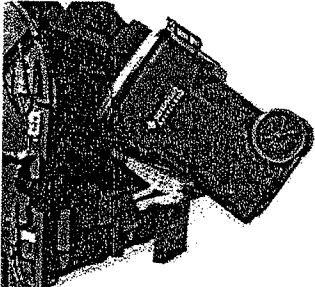

After 6 Months


- Green Bin data are consistent with Ontario averages
- Resident feedback (non-solicited):
 - Positive: reduces waste & able to compost materials not ok in byc (e.g. meats)
 - Negative: managing wet waste without plastic bags – *the YUK factor*





 **#6. Garbage Cart Pilot Project**

- Voluntary
- Holds 3-4 bags
- Test public acceptance & impacts on garbage collection efficiency
- 100 homes




 **Status and Initial Findings**

- Continues to September
- 4 areas tested (1 more to go)
- Positive feedback



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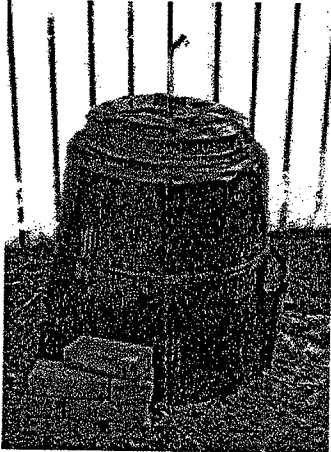
 **#7. Backyard Composting Pilot Project**


Northridge

- Low cost and delivered to home


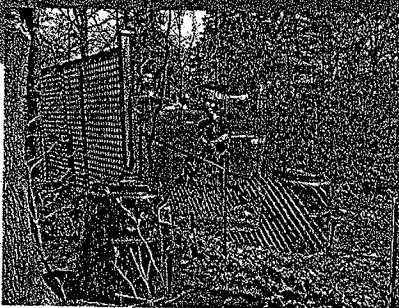
Old South

- Low cost but must pre-order and pick up at local center



 **Initial Findings**

- Northridge pilot increases diversion up to 1.5%
- Old South pilot increases diversion by less than 1%

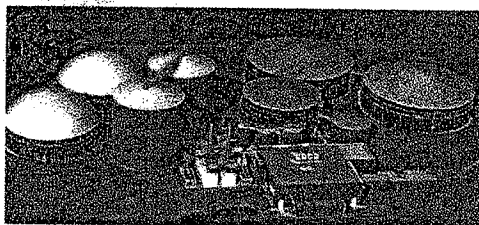


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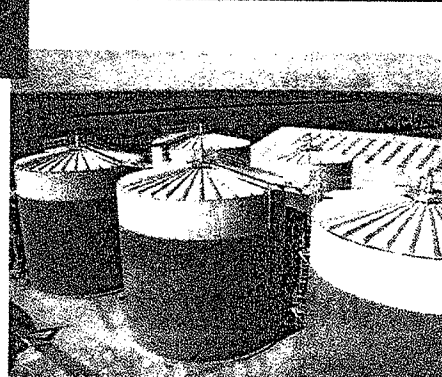


#8. Resource Recovery Technologies (Facilities & Strategies)

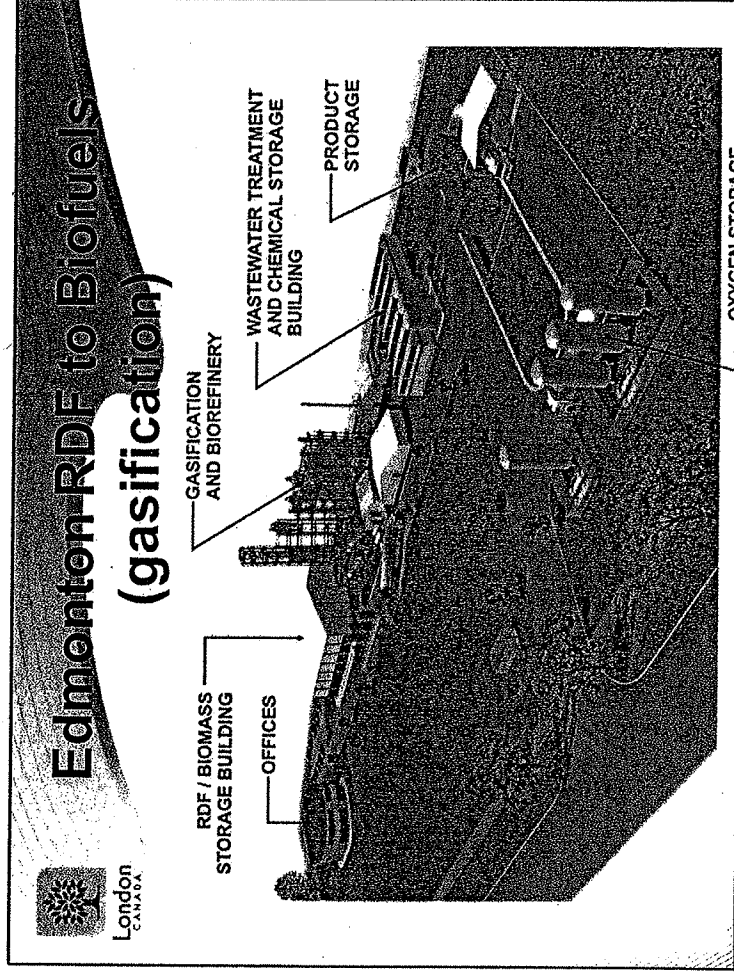
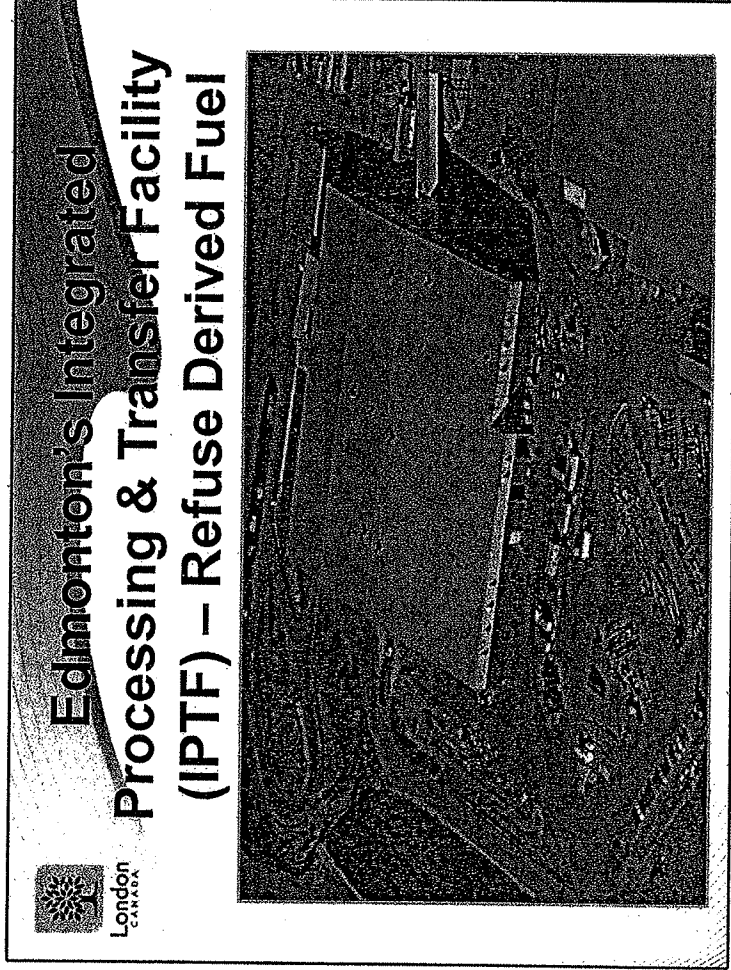
- Mechanical biological treatment (MBT)
 - e.g., anaerobic digestion, biodrying
- Advanced thermal treatment (ATT)
 - e.g., pyrolysis, plasma arc, gasification
- Modern Energy From Waste (EFW)



Anaerobic digesters are increasing – focus on organics and some on solid waste



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Plasco Pilot Facility (plasma gasification),
Ottawa, Ontario – full scale commercial
facility has been approved



Contact Us... Any time
By email. . Or 519 661-2500

Environmental Programs/Solid Waste Jay Stanford Ext #5411 jstanfor@london.ca	Natural Landscapes & Community Greg Sandle Ext #7328 gsandle@london.ca
Active Transportation/TDM Allison Cook Ext #5389 acook@london.ca	Solid Waste Management Wesley Abbott Ext #1812 wabbott@london.ca
Air Quality/Climate Change Jamie Skimming Ext #5204 jskimmin@london.ca	Waste Diversion Anne Boyd Ext #6464 aboyd@london.ca
Urban Watershed Pat Donnelly Ext #0418 pdonnelly@london.ca	Planning & Development John Fleming Ext #5343 Jmflemin@london.ca

ACE STATUS REPORT – SEPTEMBER 20121) Integrated Community Sustainable Plan (ICSP)

BACKGROUND: The City is involved in RETHINK London and the completion of the RETHINK Energy London project which will fulfill the majority of the ICSP.

ACTION: Jay will address the plan in his orientation. ACE members should consult the City's strategic plan in particular a growing and green city.

2) Recommendation/Comments for Mayor's Sustainable Energy Council (MSEC) website

BACKGROUND: ACE was reviewing the Albuquerque website as it was interactive, user friendly with a number of creative ideas, including clear subpages, that could possibly be incorporated in to the city's website.

ACTION: The City is currently in the process of designing a new City Website including the Rethink Energy London and ReThink London. Relevancy?

Website Links: Rethink http://www.london.ca/d.aspx?s=/Planning_and_Development/ReThinkLondon.htm
Rethink Energy London http://www.london.ca/d.aspx?s=/Rethink_Energy/default.htm
MSEC <http://www.msec.london.ca>

3) Highbury Planning Initiative – London Psychiatric Lands

BACKGROUND: ACE has been following the process of the redevelopment of the London Psychiatric Hospital property on Highbury Avenue to encourage best practices in design.

ACTION: Is the current ACE interested in continuing to provide feedback as require to encourage best practises in design.

4) Community Environment Days

BACKGROUND: ACE looking to work with the Community Services Department's - London Strengthening Neighbourhoods Strategy (LSNS) to organize Community Environment Days. This initiative is based on Toronto and Ottawa's template, where wards organize special event days to provide services and community exchanges of goods, school supplies, offer sale of composters, provide household waste drop-offs, etc.

ACTION: Does the current ACE want to continue with this initiative and present to the London Strengthening Neighbourhoods Strategy committee for follow up noting that the City Environmental Services is supportive of such an endeavour. (Jackie contacting Community Services – Lynn Livingstone and Cheryl Smith to provide an update on the status of LSNS)

5) Strengthening Neighbourhoods Presentation

BACKGROUND: The ACE was to request a presentation from Community Services on the London Strengthening Neighbourhoods Strategy.

ACTION: Does the current ACE want to continue with this initiative?

LSNS weblink http://www.london.ca/d.aspx?s=/Community_Vitality/Neighbourhoods/default.htm

6) Procurement Policy

BACKGROUND: ACE recommended a 'GREEN' (Sustainable) Procurement Policy.

ACTION: John Freeman, Manager Purchasing and Supply provided an update on the City of London's Sustainable Procurement Policy

7) Promote Climate Change Awareness in London by Adding CO2 Emissions to London Hydro Billing

BACKGROUND: ACE met with London Hydro (in 2010) and submitted a follow up letter (in 2012) requesting that London Hydro promote Climate Change Awareness in London by adding CO2 emissions to London Hydro billing. London Hydro responded to the first request stating that they were unable to accommodate due to workload at that time – no response to follow up letter sent in January 2012, however, we understand that London Hydro is now considering adding CO2 emissions to bills.

ACTION: Is the current ACE interested in continuing to pursue this initiative.

8) Green Roof Recommendations

BACKGROUND: This initiative was discussed at March 2012 meeting. City staff recommended a review of other cities practises with respect to Green Roof Initiatives.

ACTION: Does the current ACE wish to continue with this initiative – noting the initiative is being dealt with through Rethink London – Jay will speak to in his orientation

9) City Energy Strategy Workshop Results - Compiled by J. Skimming

BACKGROUND: The City is involved in RETHINK London and the completion of the RETHINK Energy London project.

ACTION: ACE members should consult the City's strategic plan in particular a growing and green city. Jay will address in his orientation

10) Thames River Reports Comparison Data/ Basement Flooding Issues

BACKGROUND: The City prepares regular reports identifying issues with the Thames River and submits to the ACE for their information. These reports are lengthy and it was decided that a summarized version would be more beneficial to the committee (Tom to handle this one)

ACTION: How does the current ACE want to receive these lengthy reports – as provided or condensed and if condensed what needs to be included – Tom can provide feedback at the next meeting – and who can condense- currently being summarized by Maurice Baetens

12) Centre for Community Mapping (COMAP)

BACKGROUND: ACE was investigating the impact of tree cutting and pruning of inner city trees and the use of the Centre for Community Mapping (COMAP). ACE was looking at inviting COMAP to attend a future ACE meeting and invite other advisory groups to the presentation.

ACTION: Does the current ACE wish to pursue this noting this initiative falls more under the Trees and Forest Advisory Committee mandate?

13) Food Charter

BACKGROUND: ACE wanted to be provided updates as education and promotion is developed. The charter emerged from the community's shared priorities of eliminating poverty and increasing healthy eating with an emphasis on food security. The Child and Youth Network is the custodian of the charter's message to the community.

ACTION: Does the current ACE want to continue with this initiative?

14) ACE Goals and Objectives

Some of the key issues Council asked ACE to contribute to over the last cycle included:

- the City's environmental profile,
- the regional recycling facility planning,
- financing of environmental issues
- use of grey water.

Previous issues ACE has addressed include:

- Urban naturalization,
- Ethical procurement policy
- Governance task force results
- Endorsement of the Canadian Environmental Bill of Rights
- Climate change declaration for municipalities spearheaded from London
- Single-use plastic retail shopping bag reduction
- Disposal tax
- Tar sands issues
- Recovery programs for hazardous and special waste
- Product stewardship

Possible future initiative the current ACE could visit :

- Drive through and anti-idling issues
- Green bin development
- City Round Table on Environment results
- Outcomes and next steps of Bike Summit held Dec 1, 2011
- ACE budget 2012 assessment throughout the year
- Council response on weeping tile and rainwater disconnects, working group
- Energy issues including net metering, working group