



Building Markham's Future Together
Journey to Excellence

Corporate and Community Energy Update for Greenprint Steering Committee

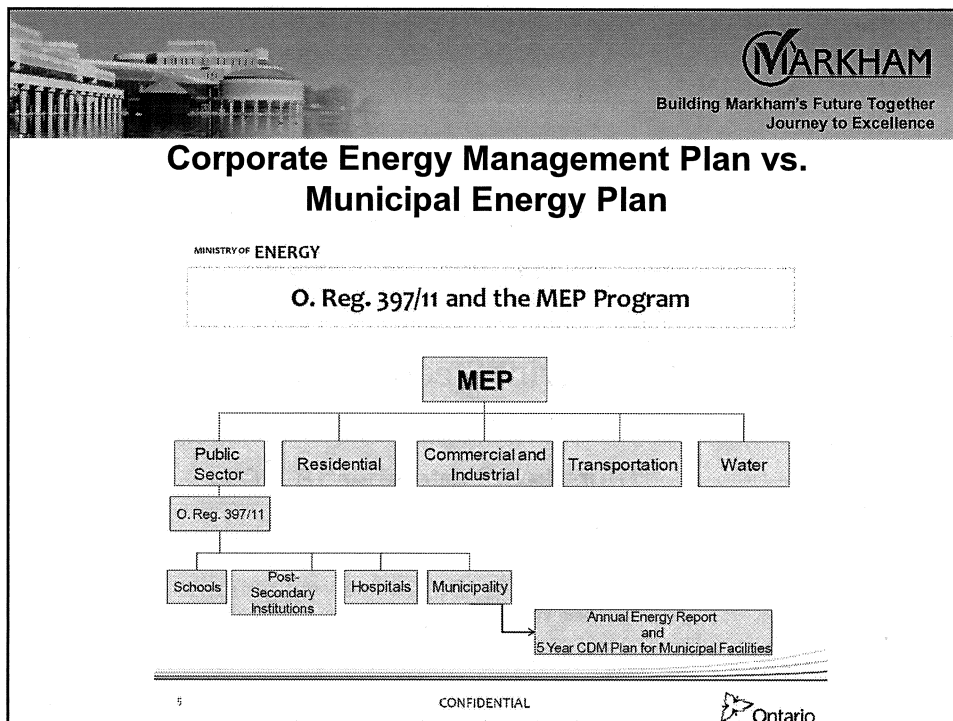
Thursday, September 18, 2014

Graham Seaman, Senior Manager, Sustainability (ext 7523)
Amanda Martin, MECO Coordinator (ext 2956)
Jennifer Wong, Sustainability Advisor (ext 2368)



Building Markham's Future Together
Journey to Excellence

Municipal Energy Plan (MEP)



MARKHAM
Building Markham's Future Together
Journey to Excellence

What is the Purpose of a Municipal Energy Plan (MEP)?

- Long-term citywide energy plan aligned to the Greenprint
- Identifies local energy planning opportunities
- Supports local economic growth and development
- Integrates energy, infrastructure, and land use planning
- Considers the impact of energy in future growth areas
- Incorporates multi-stakeholder engagement throughout the plan development
- Community Energy Plan and Municipal Energy Plan are currently interchangeable terms



MARKHAM
Building Markham's Future Together
Journey to Excellence

MEP Project Outcomes

- Identify energy and water efficiency and local energy generation and water reuse opportunities to achieve net zero energy, water, waste and emissions by 2050
- Recommend actions, strategies and short to medium term targets and long term milestones
- Set out frequent monitoring and reporting processes to guide implementation
- Integrate Communication & Engagement and Implementation Plans



MARKHAM
Building Markham's Future Together
Journey to Excellence

MEP Project Outcomes con't

- Implement a MEP framework for Secondary Plans to meet the requirements for the community energy plan component
- Guide other Markham strategies, plans, policies and actions to increase energy efficiency and overall sustainability, including active transportation
- Seek Council support for the final Municipal Energy Plan
- Seek 2016 and future capital project funding and/or partnerships to start implementation
- Continue engagement with stakeholders to steward MEP implementation



Building Markham's Future Together
Journey to Excellence

Ministry of Energy MEP Program Update

- Municipal Energy Plan (MEP) Program \$90k funding approved from the Ministry of Energy, Markham will invest another \$90k for a total program cost of \$180k
- Formed stakeholder working group with key stakeholders
- Develop a Municipal Energy Plan framework for Official Plan and Secondary Plan needs with Planning and York Region staff
 - **York Region Official Plan – New Communities Guidelines**
 - Chapter 6: Requires planning for new community areas to include the preparation of a Community Energy Plan
 - **Markham Official Plan – Urban Design and Sustainable Development**
 - Section 6.2.2.3: Requires the preparation of a Community Energy Plan in support of all secondary plan areas
- Coordination between City of Vaughan Municipal Energy Plan, PowerStream and Enbridge energy reduction targets



Building Markham's Future Together
Journey to Excellence

Municipal Energy Plan (MEP) Timeline

- **Phase 1: Stakeholder Engagement**
 - August 2014 to January 2015 (6 months)
 - Identify current energy issues, opportunities, trends, needs, conservation objectives, etc.
 - Draft MEP framework for Secondary Plan areas
 - Draft Request For Proposal to hire consultant for MEP Phases 2&3
- **Phase 2: Energy Mapping & Study**
 - February 2015 to July 2015 (6 months)
 - Hire consultant to complete Phases 2&3
 - Create an energy intensity map with energy data collected
 - Pilot draft MEP framework in the Future Urban Area (FUA)
 - Continue stakeholder engagement



MARKHAM
Building Markham's Future Together
Journey to Excellence

Municipal Energy Plan (MEP) Timeline

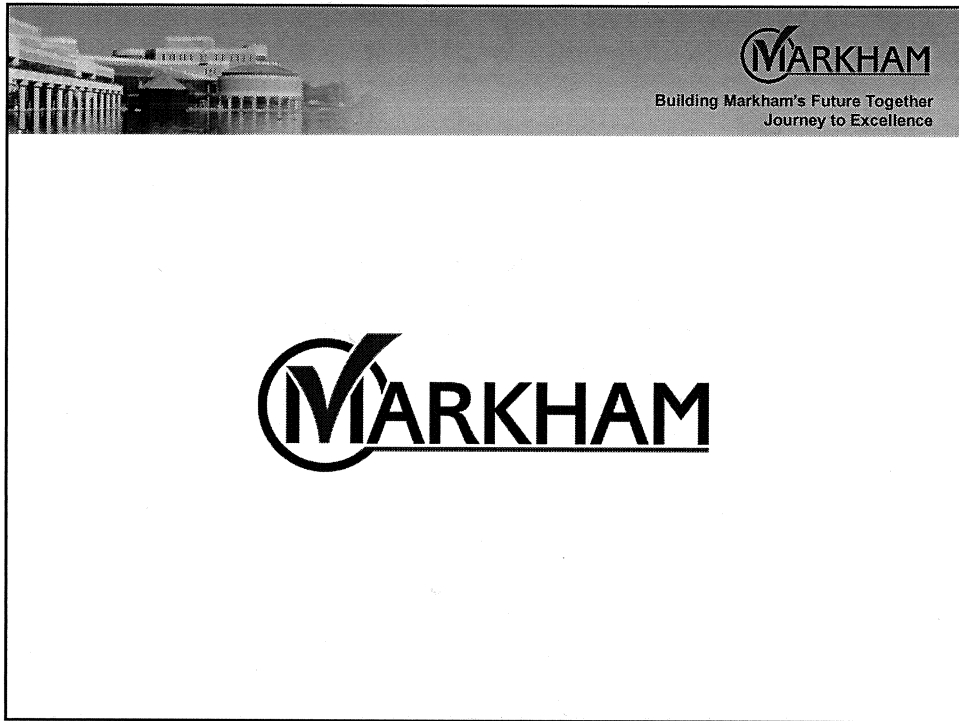
- **Phase 3: Energy Plan Development**
 - August 2015 to August 2016 (12 months)
 - Report back to GPSC on results to date and gain input on energy study
 - Draft and finalize MEP
 - Develop community engagement strategy and implementation plan
 - Implement and update MEP framework as needed
 - Seek Council support for the final MEP document
 - Continue stakeholder engagement to educate on MEP objectives



MARKHAM
Building Markham's Future Together
Journey to Excellence

Next Greenprint Steering Committee Topics

- Food Security Update – targeting December 2014
- Corporate Sustainability Reporting Update – targeting early 2015



Appendix # 2 - Markham Municipal Energy Plan Stakeholder Working Group

Names	Organization	Title	Markham Resident
Bruce Ander	Markham District Energy Inc. (MDE)	President & CEO	Yes
Peter Ronson	Markham District Energy Inc. (MDE)	Vice President	
Erika Lontoc	Enbridge Gas Distribution Inc.	Manager, Residential & New Construction Marketing	Yes
Shannon Bertuzzi	Enbridge Gas Distribution Inc.	Manager, Residential Sales Market Development	
Riaz Shaikh	PowerStream Inc.	Manager, System Planning & Standards	
Irv Klajman	PowerStream Inc.	Director, Asset Investment Planning	
John Sherin	PowerStream Inc.	Director, Conservation & Demand Management	
Kathleen Cea	PowerStream Inc.	Planner, Conservation & Demand Management	
Tamar Heisler	PowerStream Inc.	Senior Manager, External Affairs	
Alison Price	PowerStream Inc.	Regulatory & Government Affairs Analyst	
Martin Rovers	PowerStream Inc.	Director, Energy Services & Solution	
Richard Wang	PowerStream Inc.	Power System Planning Engineer	
Danielle Chin	Building Industry & Land Development (BILD)	Senior Planner, Policy & Government Relations	
Mara Samardzic	Building Industry & Land Development (BILD)	Planner, Policy & Government Relations	Yes
Dan Horchik	The North Markham Landowners Group	Markham Resident	
Harry French	Ontario Sustainability Services (OSS)	President & CEO	Yes
David Gabay	German Mills RA	Markham Resident	Yes
Frank Dixon	Grandview RA	Markham Resident	Yes
Hari Subramaniam	eCamion	CEO	
Bala Gnanam	Building Owners & Managers Association (BOMA) Toronto	Director, Sustainability & Building Technologies	
John Smiciklas	Building Owners & Managers Association (BOMA) Canada	Director, Energy & Environment	
Teresa Cline	Regional Municipality of York	Senior Planner, Long Range Planning Branch	
Norm Vezina	York Catholic District School Board (YCDSB)	Senior Manager, Environmental & Office Services	
Peirre Schipper	York Region District School Board (YRDSB)	Manager, Facilities Services	
Darryl Yahoda	Ontario Power Authority (OPA)	Director, Clean Energy Procurement	Yes
Bronwen Smith	Ontario Power Authority (OPA)	Conservation Planning Manager	
David Clark	York Region Rapid Transit Corporation (YRRTC)	Design Chief, Infrastructure & Development	
Luc Simard	City of Markham - Mayor's Youth Task Force (MYTF)	Senior Manager, Business Development	
Richard Vandezande	City of Markham - Planning	Manager, Growth Management & Secondary Plans	
Marina Haufschild	City of Markham - Planning	Senior Planner, Urban Design	
Tim Moore	City of Markham - Building Standards	Director, Building Standards	
Prabh Banga	City of Markham - Sustainability	Sustainability Coordinator	
Crystal Thorne	City of Markham - Planning	Administrative Assistant, Policy & Heritage	
Chris Wolnik	City of Vaughan	Manager, Environmental Sustainability	
Jocelyn Cheung	Markham Environmental Advisory Committee (MEAC)	Markham Resident	Yes
Adam Poon	Markham Environmental Advisory Committee (MEAC)	Markham Resident	Yes
Ricksen Tam	Markham Environmental Advisory Committee (MEAC)	Markham Resident	Yes
Marie LeGrow	Markham Environmental Advisory Committee (MEAC)	Markham Resident	Yes
Diane Ross	Markham Environmental Advisory Committee (MEAC)	Markham Resident	Yes

Chuan Li	Markham Environmental Advisory Committee (MEAC)	Chair, Markham Resident	Yes
Husam Mansour	Pollution Probe	Chief Operating Officer	Yes
Dharma Lakshman	Markham Stouffville Hospital	Director, Facilities & Support Services	
Eamonn Flaherty	Miller Thomson LLP	Partner	
Carrie Wallace	Miller Thomson LLP		
Amha Abraha	IBM Energy	Energy Engineer	
Susan Rieper	IBM Energy	Energy Program Coordinator for S&D	
Adriana Gomez	Toronto & Region Conservation Authority (TRCA)	Project Manager, Watershed Planning	
Julie Greenspoon	Ministry of Energy	Project Analyst	
Brian Byrnes	Ministry of Energy	Senior Advisor	
Mark Hanlon	York Region	Senior Transportation Specialist	
Richard Hui	York Region		
Rick Mangotich	Fieldgate Developments	Vice President	
William Choi	York Region Transit	Program Manager, Service Planning	
Aaron Hershoff	TACC Developments		
Christina Hoicka	York University	Assistant Professor, PowerStream Research Chair	