

Meeting Information	
<b>Date:</b>	June 1, 2016
<b>Location:</b>	Toronto Marriott Downtown Eaton Centre, 525 Bay Street, Salons 1 & 2
<b>Subject:</b>	Toronto Local Advisory Committee (LAC) Meeting #2
<b>Attendees:</b>	<p><b><u>Committee Members</u></b>            Senator Joseph Poitras            Peter Bettle            Darren Borden            Mario Chiarelli            Jack Gibbons            David Kiguel            John McGrath            Julia Langer            Fernando Carou            Jane Welsh            Rob McMonagle            Jim Baxter            Bala Venkatesh            Gordon Kaiser</p> <p><b><u>Toronto Hydro</u></b>            Jack Simpson            Angelo Boschetti            Andrea Corkum            Michael Marchant            Andrew Sasso</p> <p><b><u>IESO</u></b>            Joe Toneguzzo            Steven Norrie            Michael Lyle            Luisa Da Rocha            Terry Young            Chuck Farmer</p> <p><b><u>Regrets</u></b>            Clare Schulte-Albert            Keith Foster            Andrew Patricio</p> <p><b><u>Hydro One</u></b>            Farooq Qureshy</p>

	Key Topics	Follow-up Actions
1	<p><b>Opening Remarks and Roundtable Introductions</b></p> <ul style="list-style-type: none"> <li>Luisa Da Rocha, Manager, Regional and Community Engagement, IESO, welcomed the group and reviewed the agenda</li> <li>Roundtable introductions were made</li> <li>Terry Young, Vice-President, Conservation and Corporate Relations, IESO, provided remarks on conservation and future looking local priorities. Mr. Young also addressed the issue raised by some of the LAC members of appointing a chair for the committee. Mr. Young stressed that the committee was advisory in nature and at this time a chair was not necessary; that the existing LAC format has been implemented and is working well across the province. In the future, if the LAC meeting format is not working for the group, the group can revisit the need for a chair appointed from the LAC membership</li> <li>Mr. Young also welcomed Gordon Kaiser to the committee and highlighted his extensive regulatory experience and perspective that he will bring to the group meetings</li> </ul>	

2	<p><b>Presentation and Discussion: City of Toronto</b></p> <ul style="list-style-type: none"> <li>• Jane Welsh, Project Manager, Environmental Planning, Strategic Initiatives, Policy &amp; Analysis, City of Toronto, presented on the intensifying growth of the city – construction, population surges, and future development plans (including transit) for the city. Jane also provided an overview on the official plan policies, including climate change goals, energy strategy, Toronto’s Green Standard and renewable energy</li> <li>• Rob McMonagle, Economic Development &amp; Culture, Senior Advisor Green Economy, City of Toronto, presented on the major impact the City of Toronto has on national economics and the need to create local green jobs, reduce energy bills and keep energy in Toronto. Rob also reviewed the Economic Development and Culture’s engagement on electricity infrastructure in Toronto, climate change, and an analysis of Toronto’s momentary outages compared to other major cities</li> <li>• Fernando Carou, Environment and Energy Division, Lead Community Energy, City of Toronto, focused on increasing extreme weather events in Toronto. It is expected that the city will experience more extreme rainfall, heat and natural disasters. Ongoing initiatives, like Toronto’s focus on a low carbon future (TransformTO), Resilient City, TOcore and net-zero districts were also discussed</li> <li>• City representatives noted that TransformTO is driven by Council GHG targets and that they are modelling scenarios on how to achieve this reduction. It was noted that the City cannot achieve results in TransformTO without information from Toronto Hydro and formally requested representation from Toronto Hydro on the TransformTO team. <ul style="list-style-type: none"> <li>○ Toronto Hydro indicated that they would like to participate in future TransformTO discussions</li> </ul> </li> </ul> <p><b>Committee members asked questions/commented on the following during the presentation:</b></p> <ul style="list-style-type: none"> <li>• You discussed a community energy plan, are there any? <ul style="list-style-type: none"> <li>○ A: We have 30 locations identified throughout the city centres</li> </ul> </li> <li>• Have you looked at an energy cap per square footage? <ul style="list-style-type: none"> <li>○ A: We have hired a consultant to review options for the new plan in 2018</li> </ul> </li> <li>• What work is the city doing to understand how space is being used? Where are people going to be living and working? Where do you think the energy load will be distributed throughout the city? <ul style="list-style-type: none"> <li>○ A: That’s why we are here today and part of the Local Advisory Committee. We need to look at the data we have to plan better for the future city. The city’s reports feed into the regional planning process.</li> </ul> </li> <li>• What are you doing to improve the momentary power outages? <ul style="list-style-type: none"> <li>○ A: The IESO noted that reliability in the downtown has improved. When the IESO developed the Central Toronto IRRP we found that the economic risk related to reliability wouldn’t justify a large expenditure. There is no quick fix that would substantially improve the system</li> </ul> </li> <li>• How do we plan moving forward? Resilience tends to be about outage rates, infrastructure and standby power. A lot of customers are vulnerable – when there is no power, they cannot leave their homes. We need to consider the people when we build our solutions, not just the infrastructure.</li> <li>• We need to have a higher code of reliability for hospitals, transit, and vital assets and vulnerable communities. Is CHP the solution? Are the costs too great? CHP could displace costly nuclear rebuilds. We need to do the analysis to see if local generation could provide better reliability to downtown Toronto for little additional cost</li> </ul>	<p><b>ACTION:</b> Working group to provide copy of City of Toronto’s presentation and will post online as well</p>
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3	<p><b>Review of Inaugural Meeting &amp; Questions Submitted by LAC Members</b></p> <ul style="list-style-type: none"> <li>• Steve Norrie, Senior Planner, Transmission Integration, IESO, and Ms. Da Rocha, reviewed the future protocol for LAC members to submit questions to the working group outside of LAC meetings. If LAC members pose their questions with enough lead time, the question and answer will be distributed to all LAC members and will be posted on the IESO website. Questions outside of the scope of regional planning may not be addressed in this forum, but the working group will direct the LAC member to more information on that particular topic.</li> <li>• Responses were provided to questions submitted by a LAC member following the inaugural LAC meeting. It was noted that the responses to any questions asked between LAC members between meetings will be shared with all LAC members.</li> </ul>	
4	<p><b>Review of Plan Implementation to Date &amp; Where we are in the process:</b></p> <ul style="list-style-type: none"> <li>• Mr. Norrie reviewed where we currently are in the regional planning process. The Central Toronto Integrated Regional Resource Plan (IRRP) was published in April 2015, and we are currently in the implementation and review phase of the five-year planning cycle.</li> <li>• Moving forward, it will be an on-going agenda item to review where we are in the process and what the working group is currently studying and implementing</li> <li>• Mr. Norrie discussed the role that the LAC fulfills noting that the working group requires advice that can be factored into future plans. The best insight for local priorities can come directly from the community. The role of the LAC is to also help determine how and when community engagement should be scheduled, alignment of city plans and LAC member plans, and helping to fill in knowledge gaps like: customer trends, distributed energy resources, storage and smart grid, urban resilience, etc.</li> </ul> <p><b>Committee members asked questions/commented on the following:</b></p> <ul style="list-style-type: none"> <li>• Need to look at distributed energy and local generation opportunities. Offshore wind shouldn't be lost from the agenda of the LAC. We need to conserve and grow at the same time.</li> <li>• The working group is focusing too much on the peak demand. We need to focus on local pressures. Conservation First is the mandate and should be the main focus not just at peak, but all the time. We should look to have a combined, integrated solution that is the lowest cost for customers.</li> <li>• Peak demand is staying fairly constant over the last few years. We must be meeting reliability standards. Carbon emissions targets need to be met at the same time we're meeting the peak demand.</li> <li>• There should be more demand response (DR) in downtown Toronto. There is very little right now. We need to develop DR solutions for commercial customers <ul style="list-style-type: none"> <li>○ A: The Working Group is considering additional DR as it is a great option for downtown Toronto. The peaksaver program helped during the 2013 flood</li> </ul> </li> <li>• What has been standing in the way of moving DR projects forward? Is it a policy issue? Technology issue? We need to move these ideas forward <ul style="list-style-type: none"> <li>○ A: DR has gone through several iterations. This is not the first regional plan meeting where DR has been discussed</li> </ul> </li> </ul>	<p><b>ACTION:</b> Add update on where working group is in implementation process to each meeting agenda</p>

**LAC Framework Discussion – review of survey results and setting future agendas**

- Ms. Da Rocha, and Andrea Corkum, Marketing Specialist, Toronto Hydro, reviewed the results of the LAC member survey following the inaugural meeting, which included committee member plans, objectives and the main topics the members would like covered in future LAC meetings
- The LAC members undertook a brainstorming session to align the working group’s November meeting priorities with a complimentary topic from the LAC
- Working Group priorities for November meeting:
  - Distributed energy resources (solar, DE, DR)
  - *Aspects to consider for Working Group priorities:*
    - How can these opportunities be leveraged to offset Toronto’s long-term needs?
    - How can we guide “DER” to address summer peak demand?
    - Are there local policy barriers, technology barriers, other?
    - How do we assess the full opportunities and impacts, community acceptance, etc.?
    - What do we need to conserve as much as possible
      - fuel switching
      - achieving 80% reduction target
    - Will there be a wattage density?
    - How do we increase local DR by “X” date? (need a target)
    - Explore opportunities for lake-related projects (and magnitude of contribution)
    - Explore CHP going in to rate base (e.g. California)
    - Identify and address market changes
    - Cost/benefit analysis – how we ensure institutional and large buildings can make the most of economic opportunities (quantify net costs/savings)
    - Identify opportunities for investment in low carbon (what is needed for investment)
    - Distribution of cap and trade funds
    - LTEP engagement (overview of IESO planning outlook)
- LAC member priorities for November meeting:
  - Cost and affordability - should be our main priority
  - Planning assumptions
  - Need to look at linkage between provincial goals (LTEP, cap and trade) and how they work with IRRP
  - *Aspects to consider for LAC member priorities:*
    - Potential in Toronto for lowest cost
    - What is the future system design to meet our needs?
    - Rate of change in the market vs. in planning assumptions (e.g., the market can move faster than planning assumptions can keep up) – growth, storms, cap and trade, transit, etc.
    - Ensure exact infrastructure is identified
    - Cost vs. time of usage – must connect with usage to drive projects
    - Information on pricing
    - Surplus base load generation

5

6	<p><b>Public Questions/Comments</b></p> <ul style="list-style-type: none"> <li>• Why isn't Enbridge or Toronto Water present at the meetings? It would be very valuable to have other members of the public sector attend these meetings moving forward.</li> <li>• The peak will only get worse with electrification. Could this analysis be presented in a future meeting?             <ul style="list-style-type: none"> <li>○ Could this hourly demand data be plotted on a chart?</li> </ul> </li> <li>• Enbridge is having a consultation meeting with their large volume customers on June 14; connect with Enbridge to attend the event</li> </ul>	<p><b>ACTION:</b> present overview of possible impact on electricity demand of greater end-use electrification</p>
7	<p><b>Closing Remarks</b></p> <ul style="list-style-type: none"> <li>• Chuck Farmer, Director, Stakeholder and Public Affairs, IESO, closed out the 2<sup>nd</sup> Toronto LAC meeting with comments about the passion and knowledge of the committee members and encouraged further collaboration in future meetings</li> </ul>	
8	<p><b>Meeting closed at 8:40 pm</b></p> <ul style="list-style-type: none"> <li>• Next meeting will be scheduled in November 2016</li> </ul>	