

# TORONTO REGION SCOPING ASSESSMENT OUTCOME REPORT – RESPONSES TO PUBLIC COMMENTS

FEBRUARY 9, 2018



**Toronto Scoping Assessment Outcome Report:  
Summary of Advice and Responses from the Working Group**

Source	Advice	Response
City of Toronto	1. Include the City of Toronto as a member of the Integrated Regional Resource Plan (IRRP) Working Group (also referred to as simply, the “working group”)	<p>The working group agrees that further engagement with municipalities, gas utilities and solution providers would be beneficial to the regional planning process and outcomes. Conducting this engagement through the forum of a technical working group may not be the most effective way of achieving these outcomes or having these conversations, and the working group is open to discussion with interested groups on how to more effectively engage on the regional planning dialogue.</p> <p>As part of the 2017 Long-Term Energy Plan (LTEP) directives outlined for the IESO, there will be a review of regional planning processes, which will include exploring methods to more effectively engage stakeholders and communities.</p> <p>The IESO is also open to participating in the City of Toronto’s municipal energy planning process as a means of achieving coordination between the two planning activities, so long as it is clear that this participation would be in addition to, and would not overlap with, the direct participation of Toronto Hydro.</p>
	2. Establish a local avoided cost and approach for application given Toronto’s unique electricity constraints which are substantively different than the Ontario-wide situation	The working group agrees with this comment and, as such, has added a task to calculate avoided costs in the scope of work. Please see page 18 of the Scoping Assessment report, under Activity 4 in Section 3.2 of the IRRP Terms of Reference for this additional step.
	3. Undertake a bottom-up analysis – technical potential – of distributed resources (conservation, renewables, storage,	<p>The working group agrees with undertaking the suggested analysis and a Toronto-focused Local Achievable Potential study is already underway.</p> <p>The study will establish the potential of Conservation and Demand Management (“CDM”) and Distributed</p>

**Toronto Scoping Assessment Outcome Report:  
Summary of Advice and Responses from the Working Group**

	<p>demand response), which can then be analyzed for cost-effective potential when we have a local avoided cost policy</p>	<p>Energy Resource (“DER”) tools to manage current and future electricity demand.</p> <p>This work is being led by Toronto Hydro, with funding support from the IESO, to serve as an input to the IRRP.</p> <p>The study will include areas poised for higher than average growth, including the service areas of Esplanade TS, Basin TS, Terauley TS and Carlaw TS, with the understanding that the approach will be transferable to other areas.</p>
	<p>4. Operationalize the “Conservation First” policy, tailored to the Toronto context</p>	<p>The working group agrees with this comment.</p> <p>Details contained within the CDM plans developed by Local Distribution Companies (LDC) under the Conservation First Framework (CFF), will be included in the demand forecasts for the Toronto IRRP.</p> <p>As specified in the Terms of Reference, the working group will look for additional opportunities for CDM to meet capacity needs identified in the area. Refer to Section 3.2 of the IRRP Terms of Reference, Activity 4d.</p>
The Atmospheric Fund	<p>5. Develop avoided cost estimates that are Toronto-specific</p>	<p>See response to the City of Toronto (2), above.</p>
	<p>6. Conduct an analysis of the technical potential of distributed energy resources (both conservation and generation)</p>	<p>See response to the City of Toronto (3), above.</p> <p>A Local Achievable Potential study is currently underway that includes an analysis of the potential of CDM and DER in areas that are poised to experience higher than average growth.</p>
	<p>7. Apply the Conservation First framework to the development of the IRRP</p>	<p>See response to the City of Toronto (4), above.</p>
	<p>8. Endorsement of the City of Toronto’s submission, to have the</p>	<p>See response to the City of Toronto (1), above.</p>

**Toronto Scoping Assessment Outcome Report:  
Summary of Advice and Responses from the Working Group**

	City as a member of the IRRP Working Group	
Peter Bettle (member of Local Advisory Committee)	9. Broaden the plan objectives to include an assessment of the adequacy and reliability of electricity supply to the region as a whole, and not just to the existing delivery points	The working group agrees with this comment. Refer to revised objective in Section 2 of the IRRP Terms of Reference (page 14).
	10. Consider broadening the working group’s membership to include participants with expertise in conservation, distributed energy, natural gas supply, or city energy and environmental policies	See response to the City of Toronto (1), above.
	11. Formally task the working group with evaluating a systematic plan to increase the transmission supply voltage across the downtown network from 115 kV to 230 kV	<p>The working group agrees with this comment. This task is captured in Section 3.2 of the IRRP Terms of Reference, Activities 1b and further in Activity 7.</p> <p>These related activities will include a broader assessment of possible long-term supply configurations, including the prevailing transmission supply voltage in downtown Toronto.</p>
	12. Evaluate the creation of microgrids capable of supplying critical loads, such as hospitals, during emergencies	<p>The working group will assess all viable options to meet the IESO’s customer reliability standards in Section 7 of ORTAC, including the creation of microgrids, and will identify the most cost-effective solution. The scope of the plan is limited to meeting those standards.</p> <p>To better understand the electric reliability needs of several critical load customers including hospitals, multi-unit residential buildings, water treatment, emergency services, and public transit, the IESO engaged a third party consultant to engage directly</p>

**Toronto Scoping Assessment Outcome Report:  
Summary of Advice and Responses from the Working Group**

		with these customers. The results of this study will be communicated to the LAC at a future meeting.
Ontario Clean Air Alliance	<p>13. Revise the Draft Terms of Reference to explicitly include the following objectives:</p> <p>Develop a plan to obtain all of Toronto’s cost-effective and achievable energy conservation and efficiency resources</p>	<p>See response to the City of Toronto (3), above.</p> <p>A Local Achievable Potential study is currently underway that includes an analysis of the potential of CDM and DER in areas that are poised to experience higher than average growth.</p>
	<p>14. Develop avoided cost estimates that reflect the potential for incremental energy conservation and efficiency savings to reduce the need for centralized generation as well as incremental transmission and/or distribution resources</p>	<p>See responses to the City of Toronto (2), above.</p>
	<p>15. Develop a plan to ensure that Toronto’s hospitals, large multi-unit residential buildings, water treatment facilities, emergency services, and public transit system can operate at full capacity in the event of the loss of a Hydro One transmission supply path or a widespread or long-lasting provincial blackout</p>	<p>See response to P. Bettle (12), above.</p>

**Toronto Scoping Assessment Outcome Report:  
Summary of Advice and Responses from the Working Group**

	16. Analyse the costs and benefits of providing the Portlands Energy Centre with black start capability and creating a micro grid that connects it to critical loads in downtown Toronto	See response to P. Bettle (12), above.
	17. Expand the core Working Group’s membership to include representatives from Enbridge Gas Distribution and the Local Advisory Group	See response to the City of Toronto (1), above.
Beach Community Energy Cooperative Inc.	18. Renewable energy generator representation should be included in the Terms of Reference for the IRRP	See response to the City of Toronto (1), above.
Enbridge Gas Distribution	19. Realizing the greatest potential for integrated resource planning will necessitate consideration of both electricity and gas infrastructure	See response to the City of Toronto (1), above.  The working group can meet with Enbridge as the IRRP develops to discuss coordination and alignment of plans and activities.  In addition, the working group understands that the City of Toronto considers all forms of energy when developing their overarching Municipal Energy Plan. This is another potential means for coordination and alignment.
David Kiguel (Member of Local Advisory Committee)	20. Information about the criteria and rationale for the prioritization of needs introduced in the Scoping Assessment will be appreciated	Please see Section 3.III on page 8 of the Scoping Assessment report.
	21. The Scoping	The plans in the IRRP will meet the IESO’s load

**Toronto Scoping Assessment Outcome Report:  
Summary of Advice and Responses from the Working Group**

	<p>document should contain a requirement to develop a restoration plan for the supply to the City of Toronto, with special consideration to restoring critical loads, for the case of loss of any one, or more than one, of the 115 kV line sections between Manby TS and Leaside TS or the loss of supply from the 230 kV transmission, either from the Richview TS / Manby TS system (West side of the city) or from the Cherrywood TS / Leaside TS system (East side of the city), or both</p>	<p>restoration criteria, as described in the ORTAC, Section 7. Please see <a href="http://www.ieso.ca/-/media/files/ieso/Document%20Library/Market-Rules-and-Manuals-Library/market-manuals/market-administration/IMO-REQ-0041-TransmissionAssessmentCriteria.pdf">http://www.ieso.ca/-/media/files/ieso/Document%20Library/Market-Rules-and-Manuals-Library/market-manuals/market-administration/IMO-REQ-0041-TransmissionAssessmentCriteria.pdf</a></p>
	<p>22. The Criteria, codes and other requirements bullet (pages 19-20) shows: “NERC Reliability Standards and NPCC Reliability Criteria and Directives, as applicable.” The reference should be to “Directories”, not to “Directives.”</p>	<p>Typo corrected in Terms of Reference.</p>