

## National Forum – December 17 and 18<sup>th</sup>, 2019

Holliday Inn & Suite Centre-Ville Ouest, 1390 René-Lévesque Blvd W, Montreal, Quebec H3G 0E3

*Discussing the Draft Long-Term Proposal of the Energy Modelling Initiative (EMI)*

### Preliminary Agenda

Day 1 – December 17, 2019

Time	Activity	Purpose
<b>8h30</b>	<b>Registration and Breakfast</b>	
<b>9h00</b>	<b>Opening and Introduction</b> - Madeleine McPherson, EMI - André Bernier, NRcan - Moe Esfahlani, EMI	Provide background and context for this initiative; Lay out the plan and expectations for the two days.
<b>9h25</b>	<b>Workshops Outcome 1: The Political and economic potential of applied modelling</b>  With: - Andrew Rowe (Western) - Lindsay Miller-Branovacki, Rupp Carriveau (Central) - David Foord (Atlantic)	Present workshops outcomes organized around those questions: - What policy makers, utilities and others needs were identified in regional workshops that can be addressed through modelling? - Which stakeholders were identified that could benefit from this initiative? - What kinds of practical decisions can energy modelling address? - What are the values that this initiative could create for the stakeholders? - What are the requirements for such an initiative to succeed?
<b>10h10</b>	<b>Draft Proposal Presentation</b> - Normand Mousseau, EMI	Present the draft proposal that will be discussed during the Forum.
<b>10h30</b>	<b>Break</b>	
<b>10h45</b>	<b>Panel 1: The context and expectations for the proposed initiative from various institutions' perspective</b> Panelists: - Patrick Bateman, WaterPower Canada - André Bernier, NRCan - Lorne Johnson, Ivey Foundation - Étienne St-Cyr, Hydro-Québec - Thomas Williams, Manitoba Ministry of Conservation and Climate Moderator: Louis Beaumier, EMI	Understand how potential model users see the EMI proposal: - How do you think this initiative can help/impact your organisation? - How would you see your organisation working with this initiative? - What do you like best with this initiative in terms of mandate/structure? - What do you think could be improved? - Any other issues/problems/questions?
<b>12h00</b>	<b>Lunch</b>	
<b>13h00</b>	<b>Presentations: Linkage with other initiatives</b>  With: - Mary Beth Garneau, CCEI - Dale Beugin, CICC	Learn about two other related federal government initiatives - Canadian Center for Energy Information (CCEI) - Canadian Institute for Climate Choices (CICC)

<b>13h30</b>	<p><b>Panel 2: The institutional and intellectual ecosystem of the proposed initiative</b></p> <p>Panelists:</p> <ul style="list-style-type: none"> <li>- Jocelyn Millette, CanmetENERGY-Varenes</li> <li>- Katya Rhodes, University of Victoria</li> <li>- Ralph Torrie, Sustainability Solutions Group</li> <li>- Bryce van Sluys, Canadian Energy Regulator</li> <li>- Mary Beth Garneau, CCEI</li> <li>- Dale Beugin, CICC</li> </ul> <p>Moderator: Madeleine McPherson, EMI</p>	<p>Understand the place of EMI in the ecosystem.</p> <ul style="list-style-type: none"> <li>- How do you think this initiative links with your organisation?</li> <li>- How does the initiative fit in the modelling/policy ecosystem?</li> <li>- What do you like best with this initiative in terms of mandate/structure?</li> <li>- What do you think could be improved?</li> <li>- Any issues/problems/questions?</li> </ul>
<b>14h45</b>	<b>Break</b>	
<b>15h00</b>	<p><b>Breakout 1: Vision, Mission and Strategy</b></p> <p>Moderated discussions on the draft proposal</p>	<p>Further refine the proposal.</p> <ul style="list-style-type: none"> <li>- Aspects and issues to be considered in the mission and related strategic elements and activities: <ul style="list-style-type: none"> <li>- What other essential issues need to be addressed in the mission statement that are currently missing?</li> <li>- Does the proposed structure and strategic elements support the mission?</li> <li>- What other elements of the structure need to be reflected or prioritized in the mission?</li> </ul> </li> <li>- Other stakeholders of such an initiative: <ul style="list-style-type: none"> <li>- What value/services do they seek that this initiative has to offer?</li> <li>- What value/services can they add to the initiative?</li> </ul> </li> </ul>
<b>16h00</b>	<p><b>Plenary 1: Vision, Mission and Strategy</b></p> <p>Summary of discussions by table moderators</p>	<p>Summary of table discussion and other comments.</p>
<b>16h45</b>	<b>Closing remarks</b>	
<b>17h00</b>	<p><b>Cocktail Dinner</b></p> <p>Courtesy of the Trottier Family Foundation</p>	

Day 2 – December 18, 2019

Time	Activity	Purpose
8h30	<b>Registration and Breakfast</b>	
9h00	<b>Opening</b> Moe Esfahlani, EMI	
9h15	<b>Modelling Presentations</b> <ol style="list-style-type: none"> <li><i>Interactions of policies acting at the local, regional, and national scales for Canada's Energy transition</i> – Simon Fraser University, Canadian Energy &amp; Emissions Data Centre</li> <li><i>Management of Canada's energy transition and associated risks through optimized CGE approach</i> – URegina, SK Ministry of Environment</li> <li><i>An open source Energy Transition Tool for Canada Energy Sectors toward Deep Decarbonisation Pathway Projects</i> – Hydro-Québec Research Institute (IREQ)</li> <li><i>Examining the contribution of hydroelectric renewal and greenfield development to grid decarbonization: An enhanced capacity expansion model</i> – Uvictoria, Utoronto</li> <li><i>Pumped Hydro Storage (PHS) and Battery Energy Storage Systems (BESS): An Assessment of Energy 2020 Initial Response and Identification of Possible Improvements</i> – Environment and Climate Change Canada</li> <li><i>Hourly Electricity Projections from Canada's Energy Future 2019</i> – Canada Energy Regulator</li> </ol>	Present a sample of the variety and richness of energy modelling in Canada, its relevance and its value for policy and decision making.  Guiding questions: <ul style="list-style-type: none"> <li>- Where does the model fit within the broader spectrum?</li> <li>- What type of decision making does the model inform?</li> <li>- What is the range of data that the model uses?</li> <li>- How can the model be developed?</li> </ul> <p><b>NOTE: presentations will be stopped at the 10-minute mark</b></p>
10h30	<b>Break</b>	
11h00	<b>Modelling Presentations (continued)</b> <ol style="list-style-type: none"> <li><i>Modeling Increased Electric Vehicle Charging Demand on Greenhouse Gas Emissions in Quebec and Ontario</i> – UQAM, Joint Clean Climate Transport Research Partnership</li> <li><i>CityInSight – Spatially resolved modelling of energy and emissions in Canadian municipalities</i> – Whatif? Technologies, Sustainability Solutions Group</li> <li><i>A Cluster-Based load Model for a Resilient and Sustainable Community</i> – Uwaterloo, Qualsys Engco Inc.</li> <li><i>Smart Microgrid Solutions to Reducing Fossil Fuels Dependence in Canada's Rural and Remote Communities</i> – Unew Brunswick</li> <li><i>Modelling of remote diesel-based power systems and equipment in the Canadian Territories</i> – Yukon College</li> <li><i>Near real-time modelling and smart Management of electricity consumption</i> – Polytechnique Montreal, CIRAIG</li> </ol>	Idem

<b>12h00</b>	<b>Lunch</b>	
<b>13h00</b>	<p><b>Workshop Outcomes 2</b>  <b>Scope of the Proposed Initiative and the Modellers' Perspective</b></p> <p>With:</p> <ul style="list-style-type: none"> <li>- Andrew Rowe (Western)</li> <li>- Lindsay Miller-Branovacki, Rupp Carriveau (Central)</li> <li>- David Foord (Atlantic)</li> </ul>	<p>Present workshops outcomes concerning these questions:</p> <ul style="list-style-type: none"> <li>- What are the benefits, opportunities, challenges and prospects of the proposed EMI for modellers?</li> <li>- What components/requirements should be included in a shared platform for energy systems modelling in Canada?</li> <li>- How can a shared platform lead to synergies and encourage collaboration?</li> <li>- What should the relationship/fit between the shared platform and proposed initiative look like?</li> </ul>
<b>13h30</b>	<p><b>Breakout 2: Towards a Shared Platform</b>  Moderated discussions on the draft proposal</p>	<p>Refine the proposal by pursuing the following questions:</p> <ul style="list-style-type: none"> <li>- What are the crucial technical aspects for (a) the proposed initiative and (b) the shared platform (data, software, protocols)?</li> <li>- What does your interaction with (a) the proposed initiative and (b) the shared platform look like (providing data, software, offering services, etc.)?</li> <li>- What are the needs from your point of view? <ul style="list-style-type: none"> <li>- Which ones are not met with the proposed initiative?</li> <li>- By what mean should we address that?</li> </ul> </li> </ul>
<b>14h30</b>	<p><b>Towards a Shared Platform / Plenary 2</b>  Summary of discussions by table moderators</p>	<p>Summary of table discussions;  Other steps to be taken beyond the proposal.</p>
<b>15h15</b>	<b>Closing Remarks</b>	<p>Summary and takeaways from the day;  List the next steps for EMI.</p>
<b>15h30</b>	<b>End of Forum</b>	