

## **Appendix 1 - Workshop Agenda**

### **University of New Brunswick Emera and NB Power Research Centre for Smart Grid Technologies**

#### **Energy Modelling Initiative - Initiative de modélisation énergétique**

Bringing the Tools to Support Canada's Energy Transition - Outiller le Canada pour réussir la transition

### **Atlantic Region Energy Modelling Workshop**

November 12, 2019

University of New Brunswick (UNB), Wu Conference Centre  
6 Duffie Drive, Fredericton, NB E3B 0R6

Natural Resources Canada (NRCan) sponsored a Workshop on the Development of an Open Modelling Platform for Electrification and Deep Decarbonization Studies in Montreal on February 21 and 22, 2019. The resulting Energy Modelling Initiative is supporting, in collaboration with local researchers, three regional workshops in Victoria, Ottawa and Fredericton. These workshops are bringing together local energy policy makers, energy modellers and users to expand the inventory of modelling tools, identify region-specific needs, and to develop new collaborations as Canada moves towards a clean electric future. The next steps include a national workshop to be held in Montreal on December 17 and 18, 2019.

#### **Workshop Objectives**

1. Convene the regional modelling and energy policies communities – modellers and users
2. Lay out policy's use of and demand for modelling results
3. Explore how to strengthen the community through collaborations and enhanced policy relevance
4. Provide input for a regional report on energy system modelling in Atlantic Canada
5. Identify the essential ingredients for a unified modelling community and expectation from both modellers and policy makers

#### **Agenda**

##### **8:00 – 8:30 Arrival and Breakfast (supplied)**

##### **8:30 – 9:00 Welcome and Introductions**

- Dr. David Foord, Assistant Professor, Technology Management and Entrepreneurship Centre (TME) and Emera & NB Power Research Centre for Smart Grid Technologies (ENBRC), UNB
- Dr. Dave MaGee, UNB Vice President (Research)
- Dr. Chris Diduch, Dean of Engineering and Director of ENBRC
- Introductions by participants (15 min)

**9:00 – 9:30 Setting the Table: Context and Visions**

- Dr. Wong, Research Advisor, Renewable Energy Integration, CanmetENERGY, Natural Resources Canada - Deep decarbonization and electrification in Canada (20 min)
- Dr. Moe Esfahlani, EMI Coordinator / Louis Beaumier, IET - Polytechnique Montreal, The Energy Modelling Initiative (10 min)

**9:30 – 10:45 Panel: Meeting Climate Action Goals - The View from Policy Makers**

- Moderator: Dr. David Foord, UNB
- Dr. Ganesh Doluweera, Director, Research, Canadian Energy Research Institute
- Brad Little, Renewable and Electrical Energy Division, Natural Resources Canada
- Dave Sollows, Senior Advisor, Energy (Division), Natural Resources and Energy Development, Government of New Brunswick
- W. K. (Bill) Marshall, President, WKM Energy Consultants Inc.

**10:45 – 11:00 Break**

**11:00 – 12:15 Panel: An Overview of Energy Models**

- Moderator: Dr. Kush Bubbar, Assistant Professor, TME, UNB
- Dr. Bo Cao, Research Associate, Electrical and Computer Engineering, UNB
- Craig Church, NB Power, Senior Corporate Modeller
- Ann Evans, Senior Engineer, Power Systems, WSP
- Matthew McCarville, McCarville Research

**12:15 – 1:00 Lunch (supplied)**

**1:00 – 3:00 Case Study Roundtable Discussion**

- Presentation of case study, Dr. David Foord, UNB
- Attendees will be divided into groups, each composed of a diversity of stakeholders (modellers, policy makers, academics, etc.).
- Each group has a designated moderator (UNB professors Kush Bubbar, Chris Diduch, David Foord, Mary Kaye, Julian Meng) and one student note taker per group.

**3:00 – 3:15 Break**

**3:15 – 3:45 Case Study Roundtable Discussion Reports**

- Note takers will prepare summaries of the table discussions and post them in the room.
- Table moderators will present to all participants on the results of the table discussions.

**3:45 – 4:30 Panel: New Policy Needs and Models**

- Moderator: Dr. Chris Diduch, UNB
- Steven Wong, Natural Resources Canada
- Darren Clark, Senior System Planning Engineer, NB Power

- Dr. Moe Esfahlani, EMI Coordinator / Louis Beaumier, IET - Polytechnique Montreal

**4:30 – 4:35 Wrap-up**

- Dr. Chris Diduch, UNB

**End of Program**

*Participants are invited to join us at the Crowne Plaza Lord Beaverbrook Hotel for a reception at the James Joyce Pub starting at 5:00 pm, followed by a self-funded dinner at 6:30 pm in the Maverick Room.*