

Message

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Sent: 2017-12-13 3:48:52 PM
To: Joyce Poon [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3093c75378834fd195c6a07d2c0aded1-Joyce Poon]; Simon Zhang [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=3f293b2300524a9babd5abfeef83386d-Simon Zhang]; Brendan Callery [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8d566c63fc78445aa59f4be51e5f8ac0-Brendan Cal]; Bonnie Chan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=a617163bdc2c45f0838f8bfd1665a47b-Bonnie Chan]
CC: George Pessione [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=fe1264f59cb3428a90a73766e96ea517-George Pess]; Andrew Pietrewicz [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=99d9da55c0a54dba8f5bc54affe89031-Andrew Piet]
Subject: RE: Foreward to Achievable Potential Study Addendum 1 - Ministry comments
Attachments: MAP Foreword to Addendum 1 12-13-2017 v12.docx

I've made most of the edits mentioned below. Joyce – will need your help with comment BB2 and BB3. Hoping to send out an updated draft by EOD tomorrow (Thursday) as I will be out of office Friday/most of next week/rest of year.

One new item – I think we should include the carbon price outlook in the LTEP module. We can then refer to that module in this foreword. Brendan/Bonnie – can you help with that?

Thanks.

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From: Bashir Bhana
Sent: December 13, 2017 3:23 PM
To: Joyce Poon; Simon Zhang
Cc: George Pessione
Subject: FW: Foreward to Achievable Potential Study Addendum 1 - Ministry comments

Some comments from the Ministry.

Joyce - will need your help on the fair hydro comment (first bullet) and clarifying the \$600 million number (last bullet). I will drop by to discuss.

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From: David Barrett
Sent: December 07, 2017 10:47 PM
To: Bashir Bhana; Nik Schruder
Cc: Jordan Penic; Anthy Lovachis
Subject: Foreward to Achievable Potential Study Addendum 1 - Ministry comments

All, here are the comments back on the APS Addendum. We're still looking for information on when the LTEP modules will be posted.

Thanks,
David

- Given that the publication date for the Foreword is after LTEP 2017, it will be important to clarify whether the analysis in the Foreword incorporates 2017 LTEP supply and demand assumptions. It is also important to clarify that the impact of the Ontario Fair Hydro plan is not considered in the analysis, and to explain why. Suggest these details be added upfront to the Background section.
- Suggested edit to page 1 (in red): "The MAP identified that 29 TWh of cost-effective achievable conservation potential are available by 2035 at a cost of approximately \$15 billion. This represents an incremental potential of 11.2 TWh and an incremental budget of \$14.5 billion relative to the Budget-Constrained Achievable Potential."
- Page 3: "A variety of electricity resources could help meet needs under each outlook. Higher levels of conservation savings would tend to reduce the need for such resources."
 - The reading flow is a bit awkward here since by design the MAP outlook considers higher conservation savings. Is there a better way to structure this?
- Page 4: "The average cost of this incremental GHG reduction ranges from \$100 to \$200/tonne, compared to the economic value of cap and trade of about \$30/tonne throughout the planning period."
 - Could we add a footnote to this indicating that \$30/tonne is an average for the planning period. Please also include the source for this estimate.
 - For comparison purposes, suggest also referencing the cost per tonne estimates included in the Climate Change Action Plan
- Page 4: "As the incremental conservation in the MAP Outlook begins to ramp up in 2021 after the current CFF ends, the incremental cost of the MAP would exceed the avoided cost of supply resources between 2021 and 2030, leading to an average \$600 million per year increase in the total cost of electricity service during this period."
 - This statement is misleading. Our understanding is that \$600 million is a maximum per year amount rather than an average amount between 2021 and 2030 (May 24 IESO deck, slide 3). Please correct – we had seen \$100-\$200 million in the May deck.