

AG Report Backpocket 2.pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#)
Cc: [Cayley, Daniel \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: AG Report Backpacket 2
Date: November 22, 2016 7:36:16 PM
Attachments: [AG Report Backpacket 2.xlsx](#)
[ATT00001.txt](#)

Hi Tim: attached are some edits to the chart you sent me (and pertain to my follow-up questions).

Let use the attached version to make any additional edits.

Thank you,

AG Report Backpocket 2_1.pdf

AG Report Backpacket

			2015		2020
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential	Unknown		Unknown
		Industrial	Unknown		Unknown

			2015	2016	2020
Ministry	2013 LTEP + Cost of Carbon	Residential	146	168	182
		Industrial	92	96	105
	OPO + Recent Rate Mitigation (8%, RRRP and ICI)	Residential	138	152	163

	+ Proceeds Recycling (Volumetric / Off-Peak)*	Industrial	81	92	99
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* Does not include LRPII Suspension, etc.

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
23%		5%		OCEB, Refurb, LRC, FIT, Dx/Tx
13%		3%		Refurb, LRC, FIT, Dx/Tx

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
25%	8%	5%	2%	OCEB, Refurb, LRC, FIT, Dx/Tx
14%	9%	3%	2%	Refurb, LRC, FIT, Dx/Tx
18%	7%	4%	2%	OCEB, Refurb, LRC, FIT, Dx/Tx, 8% rebate

22%	8%	4%	2%	Refurb, LRC, FIT, Dx/Tx,Regulatory
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ATT00001.pdf

Sent from my iPad

Backpocket _ Working Draft (1).pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Katona, Keley \(ENERGY\)](#)
Cc: [Cox, Hilary \(ENERGY\)](#); [Martin, Eric \(ENERGY\)](#)
Subject: Backpacket / Working Draft
Date: November 22, 2016 8:30:17 PM
Attachments: [Copy of AG Report Backpacket 2.xlsx](#)
[ATT00001.txt](#)

Hi. Attached is the proposed chart for evening review.

Couple of things to highlight in the attached:

- 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.
- 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.
- 3) Included "LRP II" because its now included in recent IESO's analysis.

Hope this helps, Steen

Copy of AG Report Backpocket 2.pdf

AG Report Backpack

			2015		2020
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential	Unknown		Unknown
		Industrial	Unknown		Unknown

			2015	2016	2020
Ministry	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / All-hours for Commercial and Industrial Electricity Consumers)	Residential	146	157	171
		Industrial	92	96	101
	OPO + Recent Rate Mitigation (8%, RRRP and ICI) + Proceeds Recycling	Residential	138	152	163

	(Volumetric / Off-peak for Commercial and Industrial Electricity Consumers)	Industrial	81	92	99
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*Note: Regulatory is a line item charge on industrial bills (i.e., includes wholesale market service charges, upl

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
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22%	8%	4%	2%	Refurb, LRP, FIT, Dx/Tx, Regulatory*
lifts, IESO fee and RRRP)				

ATT00001_1.pdf

Sent from my iPad

Backpocket _ Working Draft .pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Katona, Keley \(ENERGY\)](#)
Cc: [Martin, Eric \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: Backpacket / Working Draft
Date: November 23, 2016 8:44:05 AM
Attachments: [Copy of Copy of AG Report Backpacket 3 \(3\).xlsx](#)

Good morning Keley. Attached is an updated product.

- 1) Includes the new row to show just 2013 LTEP; and
- 2) All now show volumetric off-peak (Note: No change to numbers as just the average impacts are shown).

Re relabeling Refurb reference, we can relabel to OPG, but folks should be aware that the main cost driver is the "whole refurb" (i.e., both BPRIA and OPG). How would you like us to proceed? The attached still has the Refurb reference.

Re IESO modelling, it has not yet run its model.

Steen

Copy of Copy of AG Report Backpack 3 (3).pdf

AG Report Backpacket (Updated)

			2015		2020
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential	Unknown		Unknown
		Industrial	Unknown		Unknown

			2015	2016	2020
Ministry	2013 LTEP	Residential	145	167	181
		Industrial	92	96	104
	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling	Residential	146	157	171

	(Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Industrial	92	96	101
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22%	8%	4%	2%	Refurb, LRP, FIT, Dx/Tx, Regulatory*

lifts, IESO fee and RRRP)

FW_ AG Report Backpocket.pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Cayley, Daniel \(ENERGY\)](#)
Cc: [Christie, Tim \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: FW: AG Report Backpocket
Date: November 22, 2016 5:49:02 PM
Attachments: [AG Report Backpocket.xlsx](#)

Hi. Attached is the format that the DM would like to use for this backpocket item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

AG Report Backpocket.pdf

AG Report Backpocket

			2015		2020	2015-2020 Average Annual Growth	2016-2020 Average Annual Growth	Key Drivers of Growth
Auditor General	2013 LTEP with original cap and trade proceeds recycling through GA to all consumers	Residential				23%		OCEB, etc...
		Industrial				23%		OCEB, etc...

			2015	2016	2020	2015-2020 Average Annual Growth	2016-2020 Average Annual Growth	Key Drivers of Growth
Ministry	2013 LTEP + [OTHER ITEMS SINCE LTEP] + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (volumetric / off-peak)*	Residential						
		Industrial						
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (volumetric / off-peak)*	Residential						
		Industrial						

* Does not include LRPII Suspension, ETC

FW_ Backpocket _ Working Draft .pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#)
Cc: [Cox, Hilary \(ENERGY\)](#); [Cavley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: FW: Backpacket / Working Draft
Date: November 23, 2016 9:38:10 AM
Attachments: [AG Report Backpacket 4.xlsx](#)

FYI

-----Original Message-----

From: Katona, Keley (ENERGY)
Sent: November-23-16 9:33 AM
To: Hume, Steen (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: RE: Backpacket / Working Draft

See attached revised version.

-----Original Message-----

From: Katona, Keley (ENERGY)
Sent: November-23-16 8:47 AM
To: Hume, Steen (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Re: Backpacket / Working Draft

Thanks. I thought we included LRP II in our numbers? Did IESO provide the numbers?

Original Message

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 8:44 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Backpacket / Working Draft

Good morning Keley. Attached is an updated product.

- 1) Includes the new row to show just 2013 LTPE; and
- 2) All now show volumetric off-peak (Note: No change to numbers as just the average impacts are shown).

Re relabeling Refurb reference, we can relabel to OPG, but folks should be aware that the main cost driver is the "whole refurb" (i.e., both BPRIA and OPG). How would you like us to proceed? The attached still has the Refurb reference.

Re IESO modelling, it has not yet run its model.

Steen

AG Report Backpocket 4.pdf

AG Report Backpocket (Updated)

			2015		2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015- 2020)	Average Annual Growth (2016- 2020)	Key Drivers of Growth
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential (monthly)	Unknown		Unknown	23%		5%		OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	Unknown		Unknown	13%		3%		Bruce/OPG, LRP, FIT, Dx/Tx

			2015	2016	2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015- 2020)	Average Annual Growth (2016- 2020)	Key Drivers of Growth
Ministry	2013 LTEP	Residential (monthly)	145	167	181	25%	8%	5%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	92	96	104	13%	8%	3%	2%	Bruce/OPG, LRP, FIT, Dx/Tx
	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (monthly)	146	157	171	18%	9%	4%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	92	96	101	10%	5%	2%	1%	Bruce/OPG, LRP, FIT, Dx/Tx
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (monthly)	138	152	163	18%	7%	4%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx, 8% rebate
		Industrial (\$/MWh)	81	92	99	22%	8%	4%	2%	Bruce/OPG, LRP, FIT, Dx/Tx, Regulatory*

***Note:** Regulatory is a line item charge on industrial bills (i.e., includes wholesale market service charges, uplifts, IESO fee and RRRP)

FW_ PAC Committee Follow Ups.pdf

From: [Latto-Hall, Arla \(ENERGY\)](#)
To: [Reid, Michael \(ENERGY\)](#)
Subject: FW: PAC Committee Follow Ups
Date: November 9, 2016 8:22:01 PM
Attachments: [SP - DM - Public Accounts Committee - November 2016 EMedit.docx](#)

FYI – I'll action in the AM but wanted to give you a preview.

This is pretty light on indigenous LTEP engagement stuff so far so we'll probably add to that and cut any repetitive LTEP process stuff elsewhere, but let me know if you'd like to see anything different. ...

From: McGoey, Eric (ENERGY)
Sent: November-09-16 6:48 PM
To: Chatterjee, Jeet (ENERGY); Latto-Hall, Arla (ENERGY); Cox, Hilary (ENERGY); Thompson, Erin (ENERGY)
Cc: Martin, Eric (ENERGY); Pagel, Alexa (ENERGY); Kitchen, Matthew (ENERGY); Biggs, Megan (ENERGY); Berg, Denna (ENERGY); Barbaro, Rachel (ENERGY)
Subject: Re: PAC Committee Follow Ups

Here's a draft of the DM's introductory speaking remarks. I suspect they'll take more than six minutes for him to get through, so the bias should be toward cutting rather than adding as DMO and the Divisions do their reviews.

Thanks,

E.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Chatterjee, Jeet (ENERGY)
Sent: Wednesday, November 9, 2016 4:53 PM
To: Latto-Hall, Arla (ENERGY); Cox, Hilary (ENERGY); Thompson, Erin (ENERGY); McGoey, Eric (ENERGY)
Cc: Martin, Eric (ENERGY); Pagel, Alexa (ENERGY); Kitchen, Matthew (ENERGY)
Subject: RE: PAC Committee Follow Ups

Hi there,

Just wanted to check in on the status of these products.

- 1) Speaking Notes
- 2) KMs and QnAs
- 3) Friendly Questions – list of questions (without answers)
- 4) List of BNs

Jeet Chatterjee
Senior Policy Advisor, Deputy Minister's Office
Ontario Ministry of Energy
P: 416-327-7025

From: Chatterjee, Jeet (ENERGY)

Sent: November 9, 2016 12:16 PM

To: Latto-Hall, Arla (ENERGY); Cox, Hilary (ENERGY); Thompson, Erin (ENERGY); McGoey, Eric (ENERGY)

Cc: Martin, Eric (ENERGY); Pagel, Alexa (ENERGY)

Subject: PAC Committee Follow Ups

Hi there,

Just ccing EAs and Comms Director on this email.

So, as mentioned earlier, the following products need to be created/revised. Highlighting specific issues that were raised in the meeting but please ensure that the products are comprehensive, beyond the items listed here.

- 1) Speaking Notes – please update the Speaking Points being circulated (not sure if they're with staff or with Comms)
 - a. Topics to be covered include, but not limited to:
 - i. LTEP
 - ii. Legislation
 - iii. Consultations
 - iv. LTEP 2016 Implementation Process
 - v. OPO
 - vi. Fuels Technical Report
 - vii. Codifying the LTEP process through the 2016 LTEP process
 - viii. Mentioning new LTEP as replacing IPSP
- 2) KMs and QnAs – update based on discussion in meeting. Including but not limited to:
 - a. Global Adjustment
 - b. OEB independence
 - c. OEB role in LTEP implementation
 - d. Pensions
 - e. Consolidation
 - f. Gas Plants
 - g. GSGs
 - h. Quebec trade deal
 - i. Exports
 - j. Cap and Trade costs
 - k. IESO accounting treatment
 - l. Paying too much for renewable power
 - m. Global Adjustment

Both #1 and #2 are revisions to existing products – can we see those by EOD today? As you heard, these will need to be shared with MO/IESO before the long weekend.

- 3) Friendly Questions (6-7) – Eric, I'd emailed Meredith, ccing you last week on these.
 - a. Please include a friendly on Conservation

Eric, can we provide a list of just the friendly questions as soon as possible this afternoon. For the version with the answers also in there, can we see those by EOD?

- 4) Supporting Materials
 - a. Arla – could SNAP coordinate Michael's comments about past materials? Do we have these in the binder already? Additional materials from Estimates binder (Steen brought this up)?
 - b. Will require briefing notes on contentious issues in the report
 - i. Can SNAP/ESP/CRED provide a list to DMO of BNs that should be brought up?

Lets discuss timelines when we have a list of BNs required. As you heard in the meeting, the DM would like these briefing notes for review over the long weekend.

Please let me know if I've missed something.

Thanks,

Jeet

Jeet Chatterjee
Senior Policy Advisor, Deputy Minister's Office
Ontario Ministry of Energy
P: 416-327-7025

SP - DM - Public Accounts Committee - Novembe.pdf

Remarks for
Deputy Minister Serge Imbrogno
Public Accounts Committee
Date: TBC

Time: TBC

**Location: Main Legislative Building
Committee Room 151 (TBC)**

Good morning/afternoon.

Thank you to all of the Standing Committee members who are here today.

My name is Serge Imbrogno, and I'm the Deputy Minister of Energy. I am joined at the table today by [make appropriate introductions – names TBC.]

It's my pleasure to be here and to discuss the Auditor General's Report on Electricity and Power System Planning and I look forward to our discussions over the next few hours.

Our government recognizes that sound, prudent long-term energy planning is essential to a clean, reliable and affordable energy future. We're achieving that goal and these key objectives through the implementation of the 2013 Long-Term Energy Plan, or more commonly known as LTEP.

The Ministry of Energy has produced two Long Term Energy Plans - one in 2010 and another in 2013 to guide energy planning and advance energy policy initiatives.

The 2013 LTEP was the biggest, most open and comprehensive consultation in ministry history and an early leading example of the principles of Open Government.

Legislation

In October 2015, the Minister of Energy introduced the *Energy Statute Law Amendment Act* (Bill 135) that would enshrine in legislation a long term energy planning framework that is transparent, efficient and responsive to changing technology, policy and program needs.

The legislated LTEP process builds on the planning principles used by the Ministry to develop the 2010 and 2013 LTEPs. The LTEPs identified the need for various investments over the shorter term while broadly mapping out the direction of the sector over a 20 year timeframe.

The 2013 LTEP had a consultation process that allowed for transparency in the decisions being made by government in energy planning, including the costs associated with various planning scenarios, as well as a more robust consultation process than the former Integrated Power System Plan (IPSP) process.

This legislation specifies that energy planning takes a transparent and pragmatic approach, and that future LTEPs are developed consistent with the following principles:

- Cost-effectiveness;
- Reliability;
- Clean energy;
- Community and Indigenous engagement; and
- Emphasis on conservation and demand management before building new generation.

The Ministry is developing its next LTEP that will follow the process outlined in the recent legislative changes to the *Electricity Act, 1998*.

This legislation was passed by the legislature, received Royal Assent in June 2016, and came into effect on July 1, 2016.

The legislation amended the *Electricity Act, 1998* and the *Ontario Energy Board Act, 1998* to replace the former electricity planning process, the IPSP with an LTEP process.

The process for developing the next LTEP has been as follows:

Technical Report:

The Minister of Energy requested the Independent Electricity System Operator (IESO) to prepare a technical report on the adequacy and reliability of electricity resources with respect to anticipated electricity supply, capacity, storage, reliability, demand, and any other matters identified by the Minister.

The IESO's technical report is the 'starting point' information that helped to inform the consultation process. This document has been made available to the public to inform the consultation process.

The first technical report was released by the IESO on September 1, 2016. The report, entitled the *Ontario Planning Outlook*, a ten-year review and a twenty-year outlook (to 2035) for electricity demand, supply, system costs, conservation and emissions.

As requested by the Minister, the Ontario Planning Outlook, or OPO, considers other government commitments, including the Climate Change Action Plan, the Climate Change Mitigation and Low-Carbon Economy Act, 2016 and the Vancouver Declaration.

Alongside the OPO, the IESO posted seven modules with underlying data and assumptions.

Beyond the legislative requirements, the Ministry also released a technical report on the fuels sector. This report was completed by Navigant Consulting, with advice from a Fuels Sector Working Group. While the fuels-sector technical report is not a requirement of the legislative process, it is complementary to the IESO's OPO and provides stakeholders with a more holistic view of the energy sector.

LTEP Consultations:

The next step in the LTEP planning process is for the Ministry to conduct comprehensive consultation and engagement.

Developing the LTEP is a highly collaborative process. The Ministry works closely with its agencies and stakeholders during LTEP consultations and development.

As I mentioned earlier, the consultation process outlined in the *Energy Statute Law Amendment Act* builds off the 2013 LTEP consultation process which was the most comprehensive consultation and engagement process ever undertaken by the Ministry of Energy. For example, it included:

- 13 public open houses in 12 different communities
- 10 sessions with First Nations and Métis communities
- Over 1000 submissions via the Environmental Registry & directly
- Nearly 8000 responses to an online questionnaire

The next LTEP will expand on the lessons-learned in the 2013 LTEP by increasing the number of in-person engagement sessions and the use of online and other consultation tools.

In support of Open Government, the Ministry of Energy has engaged with relevant distributors, consumers, generators, transmitters, Indigenous communities and other stakeholders

The Ministry has met its requirements to promote the participation of the public and stakeholders in the consultation process by:

- posting information on the Environmental Registry;
- having in-person sessions; and
- making use of online and other consultation tools.

Ontarians also have the opportunity to have their say about the LTEP online. This includes providing a formal submission through the Environmental Registry website or completing an online survey, which includes an open comment section. The Ministry is also providing LTEP updates via its Twitter handle: @ONenergy

Feedback received from consultations will be considered by the Minister in developing the next LTEP.

In preparation for the next LTEP, the Ministry of Energy took further steps to improve engagement beyond what is outlined in the *Electricity Act* process.

In May 2016, the Ministry sent early-engagement letters to 735 stakeholders inviting comment on the scope of LTEP.

The Ministry received more than 90 responses. Responses were provided by a mix of industry associations, municipalities, utilities and other private sector stakeholders

Indigenous Community Engagement:

A critical part of the LTEP development process is Indigenous community engagement.

It is important to ensure that the perspectives and input of First Nation and Métis communities are considered in our updated plan and related policy priorities.

The Ministry of Energy will be hosting [XX] First Nation and Métis engagement sessions across the province.

Michael Reid, the Assistant Deputy Minister of the Strategic, Network and Agency Policy division will discuss our commitment to Indigenous engagement shortly.

LTEP Development

Following LTEP consultations, the Ministry of Energy will develop the Long-Term Energy Plan taking into account feedback obtained during the LTEP engagement and consultation process.

The LTEP and other information used in the development of the LTEP will be posted on a Government of Ontario website, supporting the Open Data initiative.

The LTEP will be approved by Cabinet.

IESO and OEB Implementation Directives and Plans

To ensure that the government's goals and expectations outlined in the LTEP are implemented, the proposed legislation includes authority for directives, approved by Cabinet to be sent to the IESO and the Ontario Energy Board (OEB) setting out the government's requirements for implementation and directing each agency to develop respective implementation plans.

Upon receiving an implementation directive, the two agencies would develop respective implementation plans outlining frameworks on how best to implement the government's objectives and requirements.

IESO's implementation plan may also include, if required, the development of processes for entering into procurement contracts and/or selecting transmitters.

Both implementation plans would be submitted to the Minister for approval.

Once implementation plans have been approved by the Minister, the IESO and OEB would move forward with procurements and the development of programs or policies as identified in their implementation plans.

Conclusion

We agree with the Auditor General (AG) that a clear planning process is critical for Ontario's electricity system and we are confident the LTEP process achieves this .

I would now like to introduce Michael Reid, the Assistant Deputy Minister of the Strategic, Network and Agency Policy division who will discuss our Indigenous Relations program as it relates to the LTEP process.

Thank you for your time.

For today_ Backpocket _ Working Draft .pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Cc: [DeSouza, Avril \(ENERGY\)](#)
Subject: For today: Backpacket / Working Draft
Date: November 25, 2016 10:10:33 AM
Attachments: [Copy of Copy of AG Report Backpacket 3 \(3\).xlsx](#)

Hi Guys –

As below, DMO requests that we add a new row to the AG table we provided (latest version attached) using our numbers (the \$155) and explain the difference between the new row and the \$152 row?

By end of day if possible please.

HC

Hilary Cox
T: (416) 327-7204
Bb: (647) 237-8140

From: Martin, Eric (ENERGY)
Sent: November 25, 2016 10:06 AM
To: Cox, Hilary (ENERGY)
Cc: Hume, Steen (ENERGY); Katona, Keley (ENERGY)
Subject: FW: Backpacket / Working Draft

Hi Hilary,

You know how we're using the \$155 because it's ours instead of the \$152 in the attached table?

Can the team please add a new row to the table with our numbers (including the 155) and an explanation/note in the document itself explaining the difference between the new row and the last row (i.e., Rows 14/15)?

(Request comes from Keley.)

Thanks,

Eric Martin

—

Deputy Minister's Office | Ministry of Energy

-----Original Message-----

From: Hume, Steen (ENERGY)

Sent: November-23-16 8:44 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Backpacket / Working Draft

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Re IESO modelling, it has not yet run its model.

Steen

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AG Report Backpacket (Updated)

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22%	8%	4%	2%	Refurb, LRP, FIT, Dx/Tx, Regulatory*

lifts, IESO fee and RRRP)

Fw_ Backpocket _ Working Draft (1).pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Cayley, Daniel \(ENERGY\)](#)
Cc: [Christie, Tim \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: Fw: Backpocket / Working Draft
Date: November 23, 2016 8:56:35 AM

Hi. Can you help with this?

Thanks.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:50 AM
To: Christie, Tim (ENERGY)
Subject: RE: Backpocket / Working Draft

Tim, I thought we included LRP II in our numbers?

Didn't IESO provide the numbers?

Confusion re comment below that IESO hasn't run its model.

Can you swing by.

Thanks

-----Original Message-----

From: Christie, Tim (ENERGY)
Sent: November-23-16 8:13 AM
To: Hume, Steen (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: RE: Backpocket / Working Draft

Here are the edits including the new row to show just LTEP.

On the other questions:

- All now show volumetric off peak (no change to numbers as just the average impacts are shown)
- Refurb could be relabelled to OPG, but the main cost driver is the whole refurb, including BPRIA and OPG.
- IESO has not yet run its model.

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 6:51 AM
To: Christie, Tim (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpacket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpacket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:
>
> Deputy,
> See attached and below. Let us know if this works.
> Thanks,
> Keley
>
> Original Message
> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
> Sent: Tuesday, November 22, 2016 8:30 PM
> To: Katona, Keley (ENERGY)
> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
> Subject: Backpacket / Working Draft
>
> Hi. Attached is the proposed chart for evening review.
>
> Couple of things to highlight in the attached:
>
> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.
> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.
> 3) Included "LRP II" because its now included in recent IESO's analysis.
>
> Hope this helps, Steen
>
>
>
> <Copy of AG Report Backpacket 2.xlsx>

Fw_ Backpocket _ Working Draft (2).pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#)
Cc: [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: Fw: Backpocket / Working Draft
Date: November 23, 2016 6:51:10 AM

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpocket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpocket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:
>

> Deputy,
> See attached and below. Let us know if this works.
> Thanks,
> Keley

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> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
> Sent: Tuesday, November 22, 2016 8:30 PM
> To: Katona, Keley (ENERGY)
> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
> Subject: Backpocket / Working Draft

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> Hi. Attached is the proposed chart for evening review.

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> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.

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>
> Hope this helps, Steen
>
>
>
> <Copy of AG Report Backpocket 2.xlsx>

Fw_ Backpocket _ Working Draft _1.pdf

From: [Cayley, Daniel \(ENERGY\)](#)
To: [Cox, Hilary \(ENERGY\)](#)
Subject: Fw: Backpocket / Working Draft
Date: November 23, 2016 9:31:50 AM

Is Tim in? Did Steen connect with him? Larissa is stuck on the subway.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:56 AM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Hi. Can you help with this?

Thanks.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:50 AM
To: Christie, Tim (ENERGY)
Subject: RE: Backpocket / Working Draft

Tim, I thought we included LRP II in our numbers?

Didn't IESO provide the numbers?

Confusion re comment below that IESO hasn't run its model.

Can you swing by.

Thanks

-----Original Message-----

From: Christie, Tim (ENERGY)
Sent: November-23-16 8:13 AM
To: Hume, Steen (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: RE: Backpocket / Working Draft

Here are the edits including the new row to show just LTEP.

On the other questions:

- All now show volumetric off peak (no change to numbers as just the average impacts are shown)
- Refurb could be relabelled to OPG, but the main cost driver is the whole refurb, including BPRIA and OPG.
- IESO has not yet run its model.

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 6:51 AM

To: Christie, Tim (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpacket / Working Draft

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message
From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpacket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message
From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpacket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:
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> Deputy,
> See attached and below. Let us know if this works.
> Thanks,
> Keley
>
> Original Message
> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
> Sent: Tuesday, November 22, 2016 8:30 PM
> To: Katona, Keley (ENERGY)
> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
> Subject: Backpacket / Working Draft
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> Hi. Attached is the proposed chart for evening review.
>
> Couple of things to highlight in the attached:
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> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.
> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.
> 3) Included "LRP II" because its now included in recent IESO's analysis.
>
> Hope this helps, Steen
>

>

>

> <Copy of AG Report Backpocket 2.xlsx>

Please use this version_ Backpacket _ Working D....pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Cc: [DeSouza, Avril \(ENERGY\)](#)
Subject: Please use this version: Backpocket / Working Draft
Date: November 25, 2016 11:16:57 AM
Attachments: [AG Report Backpocket 4.xlsx](#)

Hi Guys -

Please use this version of the AG table for your update.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Martin, Eric (ENERGY) <Eric.Martin@ontario.ca>
Sent: Friday, November 25, 2016 11:15 AM
To: Cox, Hilary (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: FW: Backpocket / Working Draft

Hi Hilary,

For my earlier request this morning for an update, please use this version (v4). I earlier sent you v3.

Eric Martin

—

Deputy Minister's Office | Ministry of Energy

-----Original Message-----

From: Katona, Keley (ENERGY)
Sent: November-23-16 9:33 AM
To: Hume, Steen (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: RE: Backpocket / Working Draft

See attached revised version.

-----Original Message-----

From: Katona, Keley (ENERGY)
Sent: November-23-16 8:47 AM
To: Hume, Steen (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Re: Backpocket / Working Draft

Thanks. I thought we included LRP II in our numbers? Did IESO provide the numbers?

Original Message

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 8:44 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Backpocket / Working Draft

Good morning Keley. Attached is an updated product.

1) Includes the new row to show just 2013 LTEP; and

2) All now show volumetric off-peak (Note: No change to numbers as just the average impacts are shown).

Re relabeling Refurb reference, we can relabel to OPG, but folks should be aware that the main cost driver is the "whole refurb" (i.e., both BPRIA and OPG). How would you like us to proceed? The attached still has the Refurb reference.

Re IESO modelling, it has not yet run its model.

Steen

AG Report Backpocket 4_1.pdf

AG Report Backpocket (Updated)

			2015		2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015- 2020)	Average Annual Growth (2016- 2020)	Key Drivers of Growth
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential (monthly)	Unknown		Unknown	23%		5%		OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	Unknown		Unknown	13%		3%		Bruce/OPG, LRP, FIT, Dx/Tx

			2015	2016	2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015- 2020)	Average Annual Growth (2016- 2020)	Key Drivers of Growth
Ministry	2013 LTEP	Residential (monthly)	145	167	181	25%	8%	5%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	92	96	104	13%	8%	3%	2%	Bruce/OPG, LRP, FIT, Dx/Tx
	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (monthly)	146	157	171	18%	9%	4%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	92	96	101	10%	5%	2%	1%	Bruce/OPG, LRP, FIT, Dx/Tx
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (monthly)	138	152	163	18%	7%	4%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx, 8% rebate
		Industrial (\$/MWh)	81	92	99	22%	8%	4%	2%	Bruce/OPG, LRP, FIT, Dx/Tx, Regulatory*

***Note:** Regulatory is a line item charge on industrial bills (i.e., includes wholesale market service charges, uplifts, IESO fee and RRRP)

RE_ AG Report Backpocket(1).pdf

From: [Ho, Larissa \(ENERGY\)](#)
To: [Cayley, Daniel \(ENERGY\)](#); [Christie, Tim \(ENERGY\)](#)
Cc: [Cox, Hilary \(ENERGY\)](#)
Subject: RE: AG Report Backpacket
Date: November 22, 2016 6:42:18 PM
Attachments: [Copy of AG Report Backpacket - EPE.xlsx](#)

The September cabinet deck had illustrative residential bar charts with the 8% applied to YTD 2016 May prices based on 750 kWh/month. It didn't have a "2013 LTEP update" per se, nor did it include any forecasted prices for 2016 and 2020.

So I just used the "2013 LTEP update" to layer on the cost of RRRP and ICI then apply the 8%. Total for 2016 and 2020 was forecast by the IESO to be \$148.36/800 kWh month and \$161.10/month before taxes after carbon. ICI is about 79 cents based on 800 kWh and RRRP is about 61 cents for the same volume of consumption.

See attached.

From: Hume, Steen (ENERGY)
Sent: November 22, 2016 5:49 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: FW: AG Report Backpacket

Hi. Attached is the format that the DM would like to use for this backpacket item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

Copy of AG Report Backpocket - EPE.pdf

AG Report Backpacket

			2015	2016	2020	2015-2020 Average Annual Growth	2016-2020 Average Annual Growth	Key Drivers of Growth
Auditor General *	2013 LTEP with original cap and trade proceeds recycling through GA to all consumers	Residential	not specified		not specified	5%		
		Industrial	not specified		not specified	3%		

			2015	2016	2020	2015-2020 Average Annual Growth	2016-2020 Average Annual Growth	Key Drivers of Growth
Ministry	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (volumetric all-hours for commercial and industrial)	Residential	146	157	171	4%	2%	Generation
		Industrial	92	96	101	2%	1%	Generation
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (volumetric / off-peak)**	Residential	138	152	163	4%	2%	Generation
		Industrial	81	92	99	4%	2%	Generation

* Annual growth rate based on report stating an increase of 23% and 13% over 5 years for residential and industrial electricity consumers respectively.

** Does not include LRP11 Suspension.

RE_ AG Report Backpocket(2).pdf

From: [Christie, Tim \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#)
Cc: [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: RE: AG Report Backpacket
Date: November 22, 2016 6:42:10 PM
Attachments: [AG Report Backpacket.xlsx](#)

Here is the table. I've made some modifications to hopefully add clarity.

Note the IESO did include LRP II cancellation. I missed that note the first time.

From: Hume, Steen (ENERGY)
Sent: November-22-16 5:55 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY)
Subject: FW: AG Report Backpacket

FYI

From: Katona, Keley (ENERGY)
Sent: November-22-16 5:53 PM
To: Hume, Steen (ENERGY); Cox, Hilary (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: RE: AG Report Backpacket

Sorry, you should correct my growth rate label. It's not 'Average annual' growth.

From: Katona, Keley (ENERGY)
Sent: November-22-16 5:42 PM
To: Hume, Steen (ENERGY) (Steen.Hume@ontario.ca); Cox, Hilary (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: AG Report Backpacket

AG Report Backpocket_1.pdf

AG Report Backpacket

			2015		2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)
Auditor General	2013 LTEP with original cap and trade proceeds recycling through GA to all consumers	Residential	unknown		unknown	23%		5%
		Industrial	unknown		unknown	13%		3%

			2015	2016	2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)
Ministry	2013 LTEP + cost of carbon	Residential	146	168	182	25%	8%	5%
		Industrial	92	96	105	14%	9%	3%
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (volumetric / off-peak)*	Residential	138	152	163	18%	7%	4%
		Industrial	81	92	99	22%	8%	4%

* Does not include LRPII Suspension, ETC

Average Annual Growth (2016-2020)	Key Drivers of Growth
	OCEB, refurb, LRC, FIT, Dx/Tx
	refurb, LRC, FIT, Dx/Tx

Average Annual Growth (2016-2020)	Key Drivers of Growth
2%	OCEB, refurb, LRC, FIT, Dx/Tx
2%	refurb, LRC, FIT, Dx/Tx
2%	OCEB, refurb, LRC, FIT, Dx/Tx, 8% rebate
2%	refurb, LRC, FIT, Dx/Tx, regulatory

RE_ AG Report Backpocket.pdf

From: [Christie, Tim \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#)
Cc: [Cox, Hilary \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: RE: AG Report Backpacket
Date: November 22, 2016 7:54:00 PM
Attachments: [Copy of AG Report Backpacket 2.xlsx](#)

Steen, I've made some updates to this version. I reverted the first row in the "Ministry" table to show LTEP 2013 + updates, which is what the DM originally asked for.

On your questions:

- 1) LRC should have read LRP (fixed in this version).
- 2) I didn't include RRRP as it is not material (but it is a driver). It could go back in.
- 3) The regulatory charge is a line item on industrial bills and includes wholesale market service charges, uplifts, IESO fee, and RRRP. It's not a large item, but it more than doubles in IESO's forecast (some of that is the RRRP update). I'm not sure what the other drivers are behind this increase but it's only 10% of the bill so could also be left out. It does not ICI, I also left that out as it is small for residential and non-existent for industrials.
- 4) I removed the LRP II note as upon closer reading of the IESO's analysis they did include the suspension of LRP II. As noted earlier it makes little to no difference in the final numbers.

From: Hume, Steen (ENERGY)
Sent: November-22-16 7:23 PM
To: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: Re: AG Report Backpacket

Thanks Tim.

This looks good, few questions for clarification:

- 1) what's "LRC" referring to in the key drivers columns?
- 2) should RRRP be included in any of the drivers columns?
- 3) what's "regulatory" referring to in the key drivers columns? Is this ICI? Do we need a reference to ICI in the key drivers column?
4. Noticed the note at the bottom of the table re LRP2 not being included. Should that be removed per your note below? Also, should a reference be included in the drivers column?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Hume, Steen (ENERGY); Cayley, Daniel (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: RE: AG Report Backpocket

Here is the table. I've made some modifications to hopefully add clarity.

Note the IESO did include LRP II cancellation. I missed that note the first time.

From: Hume, Steen (ENERGY)
Sent: November-22-16 5:55 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY)
Subject: FW: AG Report Backpocket

FYI

From: Katona, Keley (ENERGY)
Sent: November-22-16 5:53 PM
To: Hume, Steen (ENERGY); Cox, Hilary (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: RE: AG Report Backpocket

Sorry, you should correct my growth rate label. It's not 'Average annual' growth.

From: Katona, Keley (ENERGY)
Sent: November-22-16 5:42 PM
To: Hume, Steen (ENERGY) (Steen.Hume@ontario.ca); Cox, Hilary (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: AG Report Backpocket

Copy of AG Report Backpacket 2_1.pdf

AG Report Backpack

			2015		2020
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential	Unknown		Unknown
		Industrial	Unknown		Unknown

			2015	2016	2020
Ministry	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (volumetric all-hours for commercial and industrial)	Residential	146	157	171
		Industrial	92	96	101
	OPO + Recent Rate Mitigation (8%, RRRP and ICI)	Residential	138	152	163

	+ Proceeds Recycling (Volumetric / Off-Peak)	Industrial	81	92	99
--	---	------------	----	----	----

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
23%		5%		OCEB, Refurb, LRP, FIT, Dx/Tx
13%		3%		Refurb, LRP, FIT, Dx/Tx

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
18%	9%	4%	2%	OCEB, Refurb, LRP, FIT, Dx/Tx
10%	5%	2%	1%	Refurb, LRP, FIT, Dx/Tx
18%	7%	4%	2%	OCEB, Refurb, LRP, FIT, Dx/Tx, 8% rebate

22%	8%	4%	2%	Refurb, LRP, FIT, Dx/Tx,Regulatory
-----	----	----	----	---------------------------------------

RE_ Backpocket _ Working Draft (1).pdf

From: [Christie, Tim \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#)
Cc: [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: RE: Backpacket / Working Draft
Date: November 23, 2016 8:13:00 AM
Attachments: [Copy of AG Report Backpacket 3.xlsx](#)

Here are the edits including the new row to show just LTEP.

On the other questions:

- All now show volumetric off peak (no change to numbers as just the average impacts are shown)
- Refurb could be relabelled to OPG, but the main cost driver is the whole refurb, including BPRIA and OPG.
- IESO has not yet run its model.

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 6:51 AM
To: Christie, Tim (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpacket / Working Draft

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpacket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpacket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:
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> Deputy,
> See attached and below. Let us know if this works.
> Thanks,
> Keley
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> Original Message
> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
> Sent: Tuesday, November 22, 2016 8:30 PM
> To: Katona, Keley (ENERGY)
> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
> Subject: Backpacket / Working Draft
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> Hi. Attached is the proposed chart for evening review.
>
> Couple of things to highlight in the attached:
>
> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.
> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.
> 3) Included "LRP II" because its now included in recent IESO's analysis.
>
> Hope this helps, Steen
>
>
>
> <Copy of AG Report Backpacket 2.xlsx>

Copy of AG Report Backpocket 3.pdf

AG Report Backpack

			2015		2020
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential	Unknown		Unknown
		Industrial	Unknown		Unknown

			2015	2016	2020
Ministry	2013 LTEP	Residential	145	167	181
		Industrial	92	96	104
	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling	Residential	146	157	171

	Proceeds Recycling (Volumetric / Off-Peak for commercial and industrial)	Industrial	92	96	101
	OPO + Recent Rate Mitigation (8%, RRRP and ICI) + Proceeds Recycling (Volumetric / Off-Peak)	Residential	138	152	163
		Industrial	81	92	99

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
23%		5%		OCEB, Refurb, LRP, FIT, Dx/Tx
13%		3%		Refurb, LRP, FIT, Dx/Tx

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
25%	8%	5%	2%	OCEB, Refurb, LRP, FIT, Dx/Tx
13%	8%	3%	2%	Refurb, LRP, FIT, Dx/Tx
18%	9%	4%	2%	OCEB, Refurb, LRP, FIT, Dx/Tx

10%	5%	2%	1%	Refurb, LRP, FIT, Dx/Tx
18%	7%	4%	2%	OCEB, Refurb, LRP, FIT, Dx/Tx, 8% rebate
22%	8%	4%	2%	Refurb, LRP, FIT, Dx/Tx,Regulatory

RE_ Backpocket _ Working Draft .pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#)
Cc: [Martin, Eric \(ENERGY\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: RE: Backpacket / Working Draft
Date: November 23, 2016 9:33:00 AM
Attachments: [AG Report Backpacket 4.xlsx](#)

See attached revised version.

-----Original Message-----

From: Katona, Keley (ENERGY)
Sent: November-23-16 8:47 AM
To: Hume, Steen (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Re: Backpacket / Working Draft

Thanks. I thought we included LRP II in our numbers? Did IESO provide the numbers?

Original Message

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 8:44 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)
Subject: Backpacket / Working Draft

Good morning Keley. Attached is an updated product.

- 1) Includes the new row to show just 2013 LTPE; and
- 2) All now show volumetric off-peak (Note: No change to numbers as just the average impacts are shown).

Re relabeling Refurb reference, we can relabel to OPG, but folks should be aware that the main cost driver is the "whole refurb" (i.e., both BPRIA and OPG). How would you like us to proceed? The attached still has the Refurb reference.

Re IESO modelling, it has not yet run its model.

Steen

AG Report Backpocket 4_2.pdf

AG Report Backpocket (Updated)

			2015		2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015- 2020)	Average Annual Growth (2016- 2020)	Key Drivers of Growth
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential (monthly)	Unknown		Unknown	23%		5%		OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	Unknown		Unknown	13%		3%		Bruce/OPG, LRP, FIT, Dx/Tx

			2015	2016	2020	2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015- 2020)	Average Annual Growth (2016- 2020)	Key Drivers of Growth
Ministry	2013 LTEP	Residential (monthly)	145	167	181	25%	8%	5%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	92	96	104	13%	8%	3%	2%	Bruce/OPG, LRP, FIT, Dx/Tx
	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (monthly)	146	157	171	18%	9%	4%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx
		Industrial (\$/MWh)	92	96	101	10%	5%	2%	1%	Bruce/OPG, LRP, FIT, Dx/Tx
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (monthly)	138	152	163	18%	7%	4%	2%	OCEB, Bruce/OPG, LRP, FIT, Dx/Tx, 8% rebate
		Industrial (\$/MWh)	81	92	99	22%	8%	4%	2%	Bruce/OPG, LRP, FIT, Dx/Tx, Regulatory*

***Note:** Regulatory is a line item charge on industrial bills (i.e., includes wholesale market service charges, uplifts, IESO fee and RRRP)

RE_ For today_ Backpacket _ Working Draft .pdf

From: [Ho, Larissa \(ENERGY\)](#)
To: [Cayley, Daniel \(ENERGY\)](#); [Christie, Tim \(ENERGY\)](#)
Cc: [DeSouza, Avril \(ENERGY\)](#)
Subject: RE: For today: Backpocket / Working Draft
Date: November 25, 2016 11:22:40 AM
Attachments: [AG Report Backpocket 20161125.xlsx](#)

I added a new row – edits are marked in red in the attached. Labelling now shows that the \$152/month is an annual 2016 forecast, whereas the \$155/month is a YTD September 2016 value. We don't have a monthly forecast to provide a YTD September 2020 value.

From: Cox, Hilary (ENERGY)
Sent: November 25, 2016 10:11 AM
To: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Cc: DeSouza, Avril (ENERGY)
Subject: For today: Backpocket / Working Draft

Hi Guys –

As below, DMO requests that we add a new row to the AG table we provided (latest version attached) using our numbers (the \$155) and explain the difference between the new row and the \$152 row?

By end of day if possible please.

HC

Hilary Cox
T: (416) 327-7204
Bb: (647) 237-8140

From: Martin, Eric (ENERGY)
Sent: November 25, 2016 10:06 AM
To: Cox, Hilary (ENERGY)
Cc: Hume, Steen (ENERGY); Katona, Keley (ENERGY)
Subject: FW: Backpocket / Working Draft

Hi Hilary,

You know how we're using the \$155 because it's ours instead of the \$152 in the attached table?

Can the team please add a new row to the table with our numbers (including the 155) and an explanation/note in the document itself explaining the difference between the new row and the last row (i.e., Rows 14/15)?

(Request comes from Keley.)

Thanks,

Eric Martin

—

Deputy Minister's Office | Ministry of Energy

-----Original Message-----

From: Hume, Steen (ENERGY)

Sent: November-23-16 8:44 AM

To: Katona, Keley (ENERGY)

Cc: Martin, Eric (ENERGY); Cox, Hilary (ENERGY)

Subject: Backpacket / Working Draft

Good morning Keley. Attached is an updated product.

- 1) Includes the new row to show just 2013 LTEP; and
- 2) All now show volumetric off-peak (Note: No change to numbers as just the average impacts are shown).

Re relabeling Refurb reference, we can relabel to OPG, but folks should be aware that the main cost driver is the "whole refurb" (i.e., both BPRIA and OPG). How would you like us to proceed? The attached still has the Refurb reference.

Re IESO modelling, it has not yet run its model.

Steen

AG Report Backpocket 20161125.pdf

AG Report Backpacket (Updated)

			2015		2020
Auditor General	2013 LTEP + Proceeds Recycling (Global Adjustment to All Electricity Consumers)	Residential	Unknown		Unknown
		Industrial	Unknown		Unknown

			2015	2016	2020
Ministry	2013 LTEP	Residential	145	167	181
		Industrial	92	96	104
	2013 LTEP + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling	Residential	146	157	171

	(Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Industrial	92	96	101
	OPO + Recent Rate Mitigation (8%, RRRP, ICI) + Proceeds Recycling (Volumetric / Off-Peak for Commercial and Industrial Electricity Consumers)	Residential (Annual forecast)	138	152	163
		Residential (YTD September 2016)	134	155	
		Industrial	81	92	99

***Note:** Regulatory is a line item charge on industrial bills (i.e., includes wholesale market service charges, upl

2015-2020 Growth	2016-2020 Growth	Average Annual Growth (2015-2020)	Average Annual Growth (2016-2020)	Key Drivers of Growth
23%		5%		OCEB, Refurb, LRP, FIT, Dx/Tx
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10%	5%	2%	1%	Refurb, LRP, FIT, Dx/Tx
18%	7%	4%	2%	OCEB, Refurb, LRP, FIT, Dx/Tx, 8% rebate
22%	8%	4%	2%	Refurb, LRP, FIT, Dx/Tx, Regulatory*

lifts, IESO fee and RRRP)

RE_ Rate Mitigation - Minister's Deck(1).pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Thompson, Erin \(ENERGY\)](#); [Feather, Adam \(ENERGY\)](#); [Waddell, Colleen \(MOF\)](#)
Cc: [Christie, Tim \(ENERGY\)](#)
Subject: RE: Rate Mitigation - Minister's Deck
Date: March 29, 2017 10:22:09 AM

Hi Erin –

I think that's the safest guess for now, though the request could indicate that we'll be scheduled for Minister's briefing on the deck early next week.

HC

From: Thompson, Erin (ENERGY)
Sent: March 29, 2017 10:21 AM
To: Cox, Hilary (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: RE: Rate Mitigation - Minister's Deck

What is the deck tracking to? Monday's DM/CoS briefing and Tuesday's M briefing?

From: Cox, Hilary (ENERGY)
Sent: March-29-17 10:12 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: RE: Rate Mitigation - Minister's Deck

Apologies – Please send for consolidation by tomorrow at 2 pm.

HC

From: Cox, Hilary (ENERGY)
Sent: March 29, 2017 10:06 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Heads-up, we're being asked to update the Minister's rate mitigation implementation deck from last week with content from this week's matrix (materials attached).

This will need to go to DMO tomorrow for Friday/weekend package. ESPD will consolidate.

HC

RE_ Rate Mitigation - Minister's Deck(2).pdf

From: [Thompson, Erin \(ENERGY\)](#)
To: [Cox, Hilary \(ENERGY\)](#); [Feather, Adam \(ENERGY\)](#); [Waddell, Colleen \(MOF\)](#)
Cc: [Christie, Tim \(ENERGY\)](#)
Subject: RE: Rate Mitigation - Minister's Deck
Date: March 29, 2017 10:20:40 AM

What is the deck tracking to? Monday's DM/CoS briefing and Tuesday's M briefing?

From: Cox, Hilary (ENERGY)
Sent: March-29-17 10:12 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: RE: Rate Mitigation - Minister's Deck

Apologies – Please send for consolidation by tomorrow at 2 pm.

HC

From: Cox, Hilary (ENERGY)
Sent: March 29, 2017 10:06 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Heads-up, we're being asked to update the Minister's rate mitigation implementation deck from last week with content from this week's matrix (materials attached).

This will need to go to DMO tomorrow for Friday/weekend package. ESPD will consolidate.

HC

RE_ Rate Mitigation - Minister's Deck(3).pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Thompson, Erin \(ENERGY\)](#); [Feather, Adam \(ENERGY\)](#); [Waddell, Colleen \(MOF\)](#)
Cc: [Christie, Tim \(ENERGY\)](#)
Subject: RE: Rate Mitigation - Minister's Deck
Date: March 29, 2017 10:12:13 AM

Apologies – Please send for consolidation by tomorrow at 2 pm.

HC

From: Cox, Hilary (ENERGY)
Sent: March 29, 2017 10:06 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Heads-up, we're being asked to update the Minister's rate mitigation implementation deck from last week with content from this week's matrix (materials attached).

This will need to go to DMO tomorrow for Friday/weekend package. ESPD will consolidate.

HC

RE_ Rate Mitigation - Minister's Deck.pdf

From: Feather, Adam (ENERGY)
To: [Cox, Hilary \(ENERGY\)](#)
Subject: RE: Rate Mitigation - Minister's Deck
Date: March 30, 2017 5:47:00 PM

Keley was jumping on me for it so now she'll be jumping on you. FYI.

From: Cox, Hilary (ENERGY)
Sent: March-30-17 5:41 PM
To: Feather, Adam (ENERGY)
Subject: Re: Rate Mitigation - Minister's Deck

Awesome.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Feather, Adam (ENERGY)
Sent: Thursday, March 30, 2017 5:39 PM
To: Cox, Hilary (ENERGY)
Subject: RE: Rate Mitigation - Minister's Deck

SNAP ADM approved edits.

From: Cox, Hilary (ENERGY)
Sent: March-30-17 4:54 PM
To: Feather, Adam (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Original request on rate mitigation implantation update deck for Minister.

HC

From: Cox, Hilary (ENERGY)
Sent: March 29, 2017 10:06 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Heads-up, we're being asked to update the Minister's rate mitigation implementation deck from last week with content from this week's matrix (materials attached).

This will need to go to DMO tomorrow for Friday/weekend package. ESPD will consolidate.

HC

RE_ Rate Mitigation Implementation Meeting - Ap...(1).pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Sermat-Harding, Kaili \(ENERGY\)](#); [Reid, Michael \(ENERGY\)](#); [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#); [Nelms, Scott \(MOF\)](#); ["jeffrey.lyash@opg.com" \(jeffrey.lyash@opg.com\)](#); [HARTWICK Ken - FINANCE \(ken.hartwick@opg.com\)](#); [Rosemaire Leclair](#); [Mary Anne Aldred \(maryanne.albred@ontarioenergyboard.ca\)](#); [Campbell, Bruce \(bruce.campbell@ieso.ca\)](#); [Kim Marshall \(Kim.Marshall@ieso.ca\)](#); [Thompson, Scott \(MOF\)](#); [Angus, Helen \(TBS\)](#); [Davidson, Steven \(CAB\)](#); ["Martine Band"](#); ["CROZZOLI Carlo -CBUSDEV&STRT"](#); [Mayman, Gadi \(OFA\)](#); [LEE John -TREASURY](#)
Cc: [Imbrogno, Serge \(ENERGY\)](#); [Teliszewsky, Andrew \(ENERGY\)](#); [Whittington, Matt \(ENERGY\)](#); [Baker, Carys \(ENERGY\)](#); [MacIntyre, Kyle \(TBS\)](#); [McLean, David \(MOF\)](#); [Foster, Robert \(CAB\)](#); [jordan.penic@ieso.ca](#); ["sarah.branco@ontarioenergyboard.ca"](#); [Turnevicius, Lorraine](#); [catriona.king@opg.com](#); [Bungaro-Yemec, Francesca \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - April 20, 2017
Date: April 20, 2017 3:08:48 PM
Attachments: [Action Items April 20.docx](#)

Attached are the action items from today's meeting.

From: Katona, Keley (ENERGY)
Sent: April-19-17 5:11 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); "jeffrey.lyash@opg.com" (jeffrey.lyash@opg.com); 'HARTWICK Ken -FINANCE (ken.hartwick@opg.com)'; 'Rosemaire Leclair'; 'Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca)'; 'Campbell, Bruce (bruce.campbell@ieso.ca)'; 'Kim Marshall (Kim.Marshall@ieso.ca)'; Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); 'LEE John -TREASURY'
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); 'jordan.penic@ieso.ca'; 'sarah.branco@ontarioenergyboard.ca'; 'Turnevicius, Lorraine'; 'catriona.king@opg.com'; Bungaro-Yemec, Francesca (ENERGY)
Subject: Rate Mitigation Implementation Meeting - April 20, 2017

Good afternoon,
Please find attached the material for discussion tomorrow morning.
Thanks,
Keley

Action Items April 20.pdf

Action Items – April 20, 2017

GA Refinancing

- LSB / Blakes to turn around revised document today with comments due by end of day Sunday
- IESO / OPG to work together on outstanding issue regarding OPG cash flows
- OPG to draft terms of guarantee to dealers which will be presented to dealers
- MOF (IGS) to work through equity injection mechanics and will report back next week
- IESO to work with KPMG on IESO recovery mechanism
- Pens down on refinancing legislation April 28

Other OFHP Initiatives

- Pens down on social program legislation April 28
- ENERGY working with MCSS on automatic enrolment
- ENERGY meeting with COO next week on FN rate
- ENERGY / MOF / OEB / ICF discussions with CRA ongoing on wet signature
- Affordability Fund advisory committee met this week and reached consensus on three LDCs + two social agencies to be represented on Trust Board (Ottawa Carlton UW / Advocacy Centre for Tenants Ontario / Thunder Bay Hydro / Hydro One / Alectra)
- ENERGY continues to work with OCC / CME on targeted outreach regarding energy programs for business, including ICI

Other Items

- ENERGY drafting TB / LRC submissions as well as presentation to Cabinet – May 9, 10

RE_ Rate Mitigation Implementation Meeting - Ap...(2).pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Sermat-Harding, Kaili \(ENERGY\)](#); [Reid, Michael \(ENERGY\)](#); [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#); [Nelms, Scott \(MOF\)](#); ["jeffrey.lyash@opg.com" \(jeffrey.lyash@opg.com\)](#); [HARTWICK Ken - FINANCE \(ken.hartwick@opg.com\)](#); [Rosemaire Leclair](#); [Mary Anne Aldred \(maryanne.albred@ontarioenergyboard.ca\)](#); [Campbell, Bruce \(bruce.campbell@ieso.ca\)](#); [Kim Marshall \(Kim.Marshall@ieso.ca\)](#); [Thompson, Scott \(MOF\)](#); [Angus, Helen \(TBS\)](#); [Davidson, Steven \(CAB\)](#); ["Martine Band"](#); ["CROZZOLI Carlo -CBUSDEV&STRT"](#); [Mayman, Gadi \(OFA\)](#); [LEE John -TREASURY](#)
Cc: [Imbrogno, Serge \(ENERGY\)](#); [Teliszewsky, Andrew \(ENERGY\)](#); [Whittington, Matt \(ENERGY\)](#); [Baker, Carys \(ENERGY\)](#); [MacIntyre, Kyle \(TBS\)](#); [McLean, David \(MOF\)](#); [Foster, Robert \(CAB\)](#); [jordan.penic@ieso.ca](#); ["sarah.branco@ontarioenergyboard.ca"](#); [Turnevicius, Lorraine](#); [catriona.king@opg.com](#); [Bungaro-Yemec, Francesca \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - April 13, 2017
Date: April 13, 2017 6:35:45 PM
Attachments: [Action Items - April 13.docx](#)

Please find attached the action items from today's meeting.

From: Katona, Keley (ENERGY)
Sent: April-12-17 5:33 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); Campbell, Bruce (bruce.campbell@ieso.ca); Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); LEE John -TREASURY
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; Turnevicius, Lorraine; catriona.king@opg.com; Bungaro-Yemec, Francesca (ENERGY)
Subject: Rate Mitigation Implementation Meeting - April 13, 2017

Good evening,

Please find attached the material for discussion tomorrow morning.

Thanks,

Keley

Action Items - April 13.pdf

Action Items – April 13, 2017

- 1) GA Refinancing
 - LSB / Blakes / OPG to ask dealers about whether a rate class can be named as the backstop in legislation instead of individual ratepayers
 - LSB to circulate legislation for review and comment over the weekend
 - OPG Board to meet on May 1 for approval (Committee meetings to occur in advance)
 - TB / MBC to meet at 9am on May 1
 - OEB working to finalize RPP rates and release by April 20
 - OPG to develop note on why we can't revisit the financing structure (51/49)
 - KPMG, E&Y opinions to be provided by May 1
 - Constitutional Law opinion to be provided at a later date
 - 'Navigant Report' tracking for a later date; Ministry and OPG to work together to ensure alignment with internal OPG report for their Board
 - Ministry to work with OFA / TD to support report back to TB / MBC on overall structure and financibility
- 2) OPG Letter
 - Ministry to turn around comments on letter for end of day April 13
- 3) Other Items
 - RRRP / OESP / FN Rate
 - Ministry to meet with COO on April 26 re: FN Rate implementation
 - Ministry to develop briefing note on why LDCs with RRRP continue to track to OEB for rate increases
 - ICI
 - CME / OCC outreach continues
- 4) Other: Ministry to develop deck on bill presentment with high level slides on legislation

RE_ Rate Mitigation Implementation Meeting - Ap...(3).pdf

From: [Sermat-Harding, Kaili \(ENERGY\)](#)
To: [Katona, Keley \(ENERGY\)](#)
Cc: [Thompson, Erin \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - April 13, 2017
Date: April 12, 2017 5:39:00 PM

Hi Keley,

I am away from the office off tomorrow. I would prefer not to ask Usman to attend given how brief the update for the Affordability Fund is: Ministry briefing of the Advisory Committee took place on April 7th and the first meeting of the Advisory Committee is scheduled for April 18th. Ministry staff (me) will be attending Advisory Committee meetings as an observer. That said, please let me know if DM would prefer Usman to be there.

Thanks,

Kaili

From: Katona, Keley (ENERGY)
Sent: April-12-17 5:33 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); Campbell, Bruce (bruce.campbell@ieso.ca); Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); LEE John -TREASURY
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; Turnevicius, Lorraine; catriona.king@opg.com; Bungaro-Yemec, Francesca (ENERGY)
Subject: Rate Mitigation Implementation Meeting - April 13, 2017

Good evening,
Please find attached the material for discussion tomorrow morning.
Thanks,
Keley

RE_ Rate Mitigation Implementation Meeting - Ap....pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Sermat-Harding, Kaili \(ENERGY\)](#); [Reid, Michael \(ENERGY\)](#); [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#); [Nelms, Scott \(MOF\)](#); ["jeffrey.lyash@opg.com" \(jeffrey.lyash@opg.com\)](#); [HARTWICK Ken - FINANCE \(ken.hartwick@opg.com\)](#); [Rosemaire Leclair](#); [Mary Anne Aldred \(maryanne.albred@ontarioenergyboard.ca\)](#); [Campbell, Bruce \(bruce.campbell@ieso.ca\)](#); [Kim Marshall \(Kim.Marshall@ieso.ca\)](#); [Thompson, Scott \(MOF\)](#); [Angus, Helen \(TBS\)](#); [Davidson, Steven \(CAB\)](#); ["Martine Band"](#); ["CROZZOLI Carlo -CBUSDEV&STRT"](#); [Mayman, Gadi \(OFA\)](#); [LEE John -TREASURY](#)
Cc: [Imbrogno, Serge \(ENERGY\)](#); [Teliszewsky, Andrew \(ENERGY\)](#); [Whittington, Matt \(ENERGY\)](#); [Baker, Carys \(ENERGY\)](#); [MacIntyre, Kyle \(TBS\)](#); [McLean, David \(MOF\)](#); [Foster, Robert \(CAB\)](#); [jordan.penic@ieso.ca](#); ["sarah.branco@ontarioenergyboard.ca"](#); [Turnevicius, Lorraine](#); [catriona.king@opg.com](#); [Bungaro-Yemec, Francesca \(ENERGY\)](#); [Schlaepfer, Martin \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - April 25, 2017
Date: April 25, 2017 4:30:46 PM
Attachments: [Action Items - April 25.docx](#)

Please find attached action items from today's meeting.

From: Katona, Keley (ENERGY)
Sent: April-24-17 5:02 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); "jeffrey.lyash@opg.com" (jeffrey.lyash@opg.com); 'HARTWICK Ken -FINANCE (ken.hartwick@opg.com)'; 'Rosemaire Leclair'; 'Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca)'; 'Campbell, Bruce (bruce.campbell@ieso.ca)'; 'Kim Marshall (Kim.Marshall@ieso.ca)'; Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); 'LEE John -TREASURY'
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); 'jordan.penic@ieso.ca'; 'sarah.branco@ontarioenergyboard.ca'; 'Turnevicius, Lorraine'; 'catriona.king@opg.com'; Bungaro-Yemec, Francesca (ENERGY); Schlaepfer, Martin (ENERGY)
Subject: Rate Mitigation Implementation Meeting - April 25, 2017

Good afternoon,

Please find attached the material for discussion tomorrow morning.

Thanks,

Keley

Action Items - April 25.pdf

Action Items – April 25, 2017

1) Global Adjustment

- LSB / Blakes turning around comments received over the weekend; new draft of the legislation will be circulated later today or early tomorrow
- Comments on next draft of legislation will be due Wednesday to keep on track with Friday pens down on legislation
- E&Y opinion on track
- OPG undertaking modelling but initial borrowing amount will come from formula in legislation
- Ministry working with Navigant on report (interim report expected in a couple of weeks followed by a final report)
- CoS to discuss inflation provision with PO to confirm comfort with including it in regulation vs legislation
- IESO working with KPMG on opinion (draft tracking for later this week)
- IESO to discuss Board assurances with Ministry later this week
- OEB continues to work through a few issues with LSB (e.g. role in review of admin costs, timing of revised RPP, why there needs to be an OEB objective)
- MOF and ENERGY Ministers will be signatories to springing guarantee, performance guarantee and protection to boards

2) Other OFHP Items

- RRRP, OESP, FN
 - New turn of social legislation expected today for comment by Wednesday to meet Friday pens down timeline
 - Ministry sorting through issue with Dubreuilville to ensure the legislation is permissive enough to allow them to be eligible
 - Ministry meeting with COO tomorrow on FN rate implementation
 - Ministry to meet with MCSS re: taking over OESP administration
- Affordability Fund
 - Hydro One to prepare letters that will go out to social service agencies
- ICI
 - Ministry continues to work with CME / OCC on targeted outreach

3) Other Items

- IGS continues to work with MOF / TBS on equity injection to ensure we have appropriate approvals for appropriation room this fiscal year, needs to be included in Estimates so approvals required on Thursday
- OFA working with TD on content to be included in TB submission on financial viability
- MO to work with MOF / TBS MOs to request their Ministers for debate on May 15th and 16th

RE_ Rate Mitigation Implementation Meeting - Ma...(1).pdf

From: [Johnson, Paul \(ENERGY/MEDEI/MRI\)](#)
To: [Cox, Hilary \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 30, 2017
Date: March 30, 2017 5:21:00 PM

Can you call me about this when you have a sec? I think we may have crossed wires.

PJ

From: Hume, Steen (ENERGY)
Sent: Thursday, March 30, 2017 4:55 PM
To: Johnson, Paul (ENERGY/MEDEI/MRI)
Cc: Cox, Hilary (ENERGY)
Subject: FW: Rate Mitigation Implementation Meeting - March 30, 2017

Hi. Spoke to DMO. In addition to the Leg walk-through meeting on Tuesday, we'll also need to invite OPCD/Cindy to the Tuesday session with Blakes, IESO, OEB and OPG OPCD. I think your office is setting that one up. Can you invite Tim and I to that one? We'll need a different name for the meeting to avoid confusion.

Good times. Steen

From: Katona, Keley (ENERGY)
Sent: March-30-17 4:33 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); Campbell, Bruce (bruce.campbell@ieso.ca); Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); LEE John -TREASURY
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; Turnevicius, Lorraine; catriona.king@opg.com
Subject: RE: Rate Mitigation Implementation Meeting - March 30, 2017

Good afternoon,
Please find attached the action items from this morning's meeting.
Keley

From: Katona, Keley (ENERGY)
Sent: March-29-17 5:15 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); 'HARTWICK Ken -FINANCE' (ken.hartwick@opg.com); 'Rosemaire Leclair'; 'Mary Anne Aldred' (maryanne.albred@ontarioenergyboard.ca); 'Campbell, Bruce' (bruce.campbell@ieso.ca); 'Kim Marshall' (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); 'LEE John -TREASURY'
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; 'Turnevicius, Lorraine'; catriona.king@opg.com
Subject: Rate Mitigation Implementation Meeting - March 30, 2017

Good afternoon,

Please find attached material for discussion at the weekly rate mitigation implementation working group meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

RE_ Rate Mitigation Implementation Meeting - Ma...(2).pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Sermat-Harding, Kaili \(ENERGY\)](#); [Reid, Michael \(ENERGY\)](#); [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#); [Nelms, Scott \(MOF\)](#); ["jeffrey.lyash@opg.com" \(jeffrey.lyash@opg.com\)](#); [HARTWICK Ken - FINANCE \(ken.hartwick@opg.com\)](#); [Rosemaire Leclair](#); [Mary Anne Aldred \(maryanne.albred@ontarioenergyboard.ca\)](#); [Campbell, Bruce \(bruce.campbell@ieso.ca\)](#); [Kim Marshall \(Kim.Marshall@ieso.ca\)](#); [Thompson, Scott \(MOF\)](#); [Angus, Helen \(TBS\)](#); [Davidson, Steven \(CAB\)](#); ["Martine Band"](#); ["CROZZOLI Carlo -CBUSDEV&STRT"](#); [Mayman, Gadi \(OFA\)](#); [LEE John -TREASURY](#)
Cc: [Imbrogno, Serge \(ENERGY\)](#); [Teliszewsky, Andrew \(ENERGY\)](#); [Whittington, Matt \(ENERGY\)](#); [Baker, Carys \(ENERGY\)](#); [MacIntyre, Kyle \(TBS\)](#); [McLean, David \(MOF\)](#); [Foster, Robert \(CAB\)](#); [jordan.penic@ieso.ca](#); ["sarah.branco@ontarioenergyboard.ca"](#); [Turnevicius, Lorraine](#); [catriona.king@opg.com](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 30, 2017
Date: March 30, 2017 4:32:48 PM
Attachments: [Action Items_March 30.docx](#)

Good afternoon,
Please find attached the action items from this morning's meeting.
Keley

From: Katona, Keley (ENERGY)
Sent: March-29-17 5:15 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); "jeffrey.lyash@opg.com" (jeffrey.lyash@opg.com); 'HARTWICK Ken -FINANCE (ken.hartwick@opg.com)'; 'Rosemaire Leclair'; 'Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca)'; 'Campbell, Bruce (bruce.campbell@ieso.ca)'; 'Kim Marshall (Kim.Marshall@ieso.ca)'; Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); 'LEE John -TREASURY'
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; 'Turnevicius, Lorraine'; catriona.king@opg.com
Subject: Rate Mitigation Implementation Meeting - March 30, 2017

Good afternoon,

Please find attached material for discussion at the weekly rate mitigation implementation working group meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

Action Items_March 30.pdf

Action Items – Thursday March 30, 2017

- 1) GA Refinancing
 - ENERGY / Blakes / IESO / OEB / OPG / OPCD to meet on Tuesday to work through issues related to legislation
 - LSB / Blakes to brief OPCD on legislation
 - KPMG / E&Y to continue to be informed so that they can eventually confirm we've met all conditions
 - Blakes / OPG to work through financing issues related to 10% cap
 - Blakes / LSB to work with MAG on a second constitutional law opinion from Peter Hogg
 - TD being engaged through OFA to provide financial advice
 - ESP to make presentation on GA financing at upcoming IESO Board meeting
 - OEB to continue to work with Ministry LSB on comfort letter / OEB doesn't need letter until mid-April
- 2) Affordability Fund
 - Briefing being scheduled for advisory committee
 - Trust will establish process for accessing funds by Summer
- 3) RRRP / OESP / FN Rate
 - SNAP working on LRC materials for OESP tracking to April 10 LRC
 - SNAP to work with TBS to ensure funds flow from fiscal plan as soon as legislation passes
 - SNAP meeting with OEB / MCSS on options for automatic enrolment
 - SNAP to sit down with COO next week on FN Rate
 - SNAP to review Toronto Hydro issues
- 4) ICI
 - ESP working on LRC approval package tracking to April 10 LRC
 - Outreach with OCC / CME ongoing
- 5) Other items
 - LSB to draft memo to LDCs letting them know about legislative issue related to advertising

RE_ Rate Mitigation Implementation Meeting - Ma...(3).pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Hume, Steen \(ENERGY\)](#); [Sermat-Harding, Kaili \(ENERGY\)](#); [Reid, Michael \(ENERGY\)](#); [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#); [Nelms, Scott \(MOF\)](#); ["jeffrey.lyash@opg.com" \(jeffrey.lyash@opg.com\)](#); [HARTWICK Ken - FINANCE \(ken.hartwick@opg.com\)](#); [Rosemaire Leclair](#); [Mary Anne Aldred \(maryanne.albred@ontarioenergyboard.ca\)](#); [Campbell, Bruce \(bruce.campbell@ieso.ca\)](#); [Kim Marshall \(Kim.Marshall@ieso.ca\)](#); [Thompson, Scott \(MOF\)](#); [Angus, Helen \(TBS\)](#); [Davidson, Steven \(CAB\)](#); ["Martine Band"](#); ["CROZZOLI Carlo -CBUSDEV&STRT"](#); [Mayman, Gadi \(OFA\)](#); [LEE John -TREASURY](#)
Cc: [Imbrogno, Serge \(ENERGY\)](#); [Teliszewsky, Andrew \(ENERGY\)](#); [Whittington, Matt \(ENERGY\)](#); [Baker, Carys \(ENERGY\)](#); [MacIntyre, Kyle \(TBS\)](#); [McLean, David \(MOF\)](#); [Foster, Robert \(CAB\)](#); [jordan.penic@ieso.ca](#); ["sarah.branco@ontarioenergyboard.ca"](#); [Turnevicius, Lorraine](#); [catriona.king@opg.com](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 23, 2017
Date: March 23, 2017 4:39:02 PM
Attachments: [Rate Mitigation Implementation Action Items March 23.docx](#)

Please find attached action items discussed at today's meeting.

From: Katona, Keley (ENERGY)
Sent: March-22-17 2:08 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); "jeffrey.lyash@opg.com" (jeffrey.lyash@opg.com); 'HARTWICK Ken -FINANCE (ken.hartwick@opg.com)'; 'catriona.king@opg.com'; 'Rosemaire Leclair'; 'Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca)'; 'Sarah Branco'; 'Campbell, Bruce (bruce.campbell@ieso.ca)'; 'Turnevicius, Lorraine'; 'Kim Marshall (Kim.Marshall@ieso.ca)'; Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB)
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca
Subject: Rate Mitigation Implementation Meeting - March 23, 2017

Good afternoon,

Please find attached material for discussion at the weekly rate mitigation implementation working group meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

Rate Mitigation Implementation Action Items M.pdf

Action Items – March 23rd, 2017

1) GA Refinancing

- AG briefing on April 19, 2017
- Legislative Drafting
 - Legislation to be complete by April 17 , drafting instructions are in circulation
 - OPG to undertake modelling on assets / determine whether rating agency risk to proposed structure
 - OPG / IESO to determine who will finance / hold the asset until it goes to the market
- OPG Update
 - OPG / LSB continue to work on shareholder direction / resolution
 - OPG continues to work on indemnification of Board issue
 - OPG to embed OFA/ENERGY (as necessary) in their ongoing internal discussions
 - OPG, ENERGY and IESO to continue discussions around refining refinancing modelling
- IESO Update
 - IESO to discuss LDC issues with OEB
 - IESO to work through legislation / accounting opinion
- OEB Update
 - OEB decision this week on removing OESP from bill as of May 1st
 - OEB to work with ENERGY to finalize RPP comfort letter

2) Affordability Fund

- No follow ups, except that everything is on track to be finalized for this week

3) RRRP / OESP / FN Rate

- OESP reg to continue to track to April 10th LRC
- MOF / OEB / ENE continues to work with CRA on “wet signature”
- OEB has not posted FN rate report just yet as conversations are ongoing between Ministry on a letter from the Minister to the OEB acknowledging receipt of the report and outlining the plan for implementation

4) ICI

- ICI to continue to track to April 10th LRC / materials being finalized
- TPA being finalized with OCC / discussions ongoing with CME
- ESP to continue to meet with MEDG / MOECC / MOL on broader issues for business

5) Other items

- Ministry to begin work on bill presentment / add as agenda item for next week

RE_ Rate Mitigation Implementation Meeting - Ma...(4).pdf

From: [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#)
To: [Katona, Keley \(ENERGY\)](#)
Cc: [Hume, Steen \(ENERGY\)](#); [Nelms, Scott \(MOF\)](#); [Cox, Hilary \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 23, 2017
Date: March 22, 2017 6:29:00 PM
Attachments: [TOR_2024-#12889484-v2-Update.docx](#)

Keley – attached is a legislative update that Blakes will bring in tomorrow.

From: Katona, Keley (ENERGY)
Sent: March-22-17 2:08 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); catriona.king@opg.com; Rosemaire Leclair; Mary Anne Aldred (maryanne.alred@ontarioenergyboard.ca); 'Sarah Branco'; Campbell, Bruce (bruce.campbell@ieso.ca); Turnevicius, Lorraine; Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB)
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca
Subject: Rate Mitigation Implementation Meeting - March 23, 2017

Good afternoon,

Please find attached material for discussion at the weekly rate mitigation implementation working group meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

TOR_2024-#12889484-v2-Update.pdf

Legislative Changes – Update

The legislative team is currently working through a number of detailed issues surrounding possible transaction structures to ensure that the legislative framework provides appropriate flexibility.

What follows are some of the issues currently under consideration by the legislative team:

1. “Deferral” Characterization

- The concept of “deferral” mischaracterizes the true nature of the program
- GA Smoothing Program is intended to spread the cost of the generation assets to which the GA applies among the present and future ratepayers who will be expected to benefit from such assets (having regard to the useful life of the assets in question)
- Linking the charges to the useful life of the assets, and spreading the costs more fairly across the generations of ratepayers benefitting and expected to benefit from the assets, helps to make it clear that the program costs are intended to be a regulatory charge to ratepayers and not an indirect tax

2. Market Considerations

- Capital market requirements are becoming clearer, including the elements surrounding the definition of and rights related to the regulatory asset, and further refinement will be necessary as we obtain more specific input from financial advisors and stakeholders
- The obligation to pay must be a traceable obligation directly to the individual consumers in the applicable rate class and the legislation must provide for a pre-agreed collection mechanism
- An issue being considered is whether there will be any concern by the market that the cash flow needed to service all of the financing costs due within any period will be constrained by the policy objective regarding maximum annual rate increases for the relevant class of ratepayers. Consideration should be given to ways to provide certainty of cash flows in circumstances where payments under the financing obligations become due prior to the corresponding cash flows from the regulatory asset are available.

3. Timing and Frequency of Sales of the Regulatory Asset to the Financing Entity

- What triggers a sale of the regulatory asset from IESO to the Financing Entity?
- Until a sale occurs, IESO will need to finance the shortfall. For what duration?
- Bond issuances will not occur monthly – and the timing of long term financing in the capital markets will, in part, be linked to market conditions.
- Which entity (IESO/Financing Entity) will obtain non-market-based funding (for example, bank financing) until market-based funding is obtained (both at the outset and throughout the life of the program)?

- Would the funding of any shortfall occur no matter what the conditions are in the financial market or the electricity market?
- Electricity market: large fluctuations (e.g. rise) in commodity price of electricity could materially impact the amounts which need to be borrowed annually
- Financial markets: borrowing could become very expensive for any entity (IESO or OPG/Trust/SPV). Should the program be made to change, stop or adapt to these kinds of material changes?

4. Conditions to Sale of Regulatory Asset and to Market Transactions.

- The team is working to identify appropriate conditions to the sale of the regulatory asset and to new financings and the incurrence of related costs, given that the financing costs incurred will automatically get passed through to the ratepayers. The location of any such requirements (legislation, regulation, etc.) is currently being determined.
- At the most general level, consider whether there will need to be any required approvals, including approvals over financing costs to be incurred (e.g., including a determination if third party costs are reasonable) prior to any particular financing transaction?
- Should OPG be guided by any prescribed rules or principles when making decisions about financings (e.g., decisions about short term vs. long term financing)?

RE_ Rate Mitigation Implementation Meeting - Ma...(5).pdf

From: [Sermat-Harding, Kaili \(ENERGY\)](#)
To: [Katona, Keley \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 23, 2017
Date: March 22, 2017 4:37:00 PM

I won't be able to attend tomorrow as I will be going to the MTCC meeting. Usman will be very focussed on any final edits/questions re the TPA and Trust Deed so I'd prefer not to send him to the rate mitigation meeting. I'd like to ask Carolyn to provide the A Fund update (LSB is closely involved). I'm sure she'd be OK with that, but I'd also provide her with some bullets to reflect latest status. Let me know if DMO has any concerns. Thx.

From: Katona, Keley (ENERGY)
Sent: March-22-17 2:08 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); catriona.king@opg.com; Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); 'Sarah Branco'; Campbell, Bruce (bruce.campbell@ieso.ca); Turnevicius, Lorraine; Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB)
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca
Subject: Rate Mitigation Implementation Meeting - March 23, 2017

Good afternoon,

Please find attached material for discussion at the weekly rate mitigation implementation working group meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

RE_ Rate Mitigation Implementation Meeting - Ma...(6).pdf

From: [Calwell, Carolyn \(ENERGY/MEDEI/MRI\)](#)
To: [Katona, Keley \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 9, 2017
Date: March 8, 2017 5:46:00 PM

Yes. I will forward your message to Judy Wilson. I think she and Bryson Stokes will attend.

Carolyn

From: Katona, Keley (ENERGY)
Sent: March-08-17 5:33 PM
To: Calwell, Carolyn (ENERGY/MEDEI/MRI)
Subject: FW: Rate Mitigation Implementation Meeting - March 9, 2017

You invited Blakes right?

From: Katona, Keley (ENERGY)
Sent: March-08-17 5:32 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); catriona.king@opg.com; McLean, David (MOF); MacIntyre, Kyle (TBS); Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); 'Sarah Branco'; Campbell, Bruce (bruce.campbell@ieso.ca); Turnevicius, Lorraine; Kim Marshall (Kim.Marshall@ieso.ca)
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY)
Subject: Rate Mitigation Implementation Meeting - March 9, 2017

Good evening,

Please find attached material for discussion at tomorrow morning's meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

RE_ Rate Mitigation Implementation Meeting - Ma....pdf

From: [Johnson, Paul \(ENERGY/MEDEI/MRI\)](#)
To: [Cox, Hilary \(ENERGY\)](#)
Subject: RE: Rate Mitigation Implementation Meeting - March 30, 2017
Date: March 30, 2017 5:26:00 PM

Actually, no.

From: Cox, Hilary (ENERGY)
Sent: Thursday, March 30, 2017 5:26 PM
To: Johnson, Paul (ENERGY/MEDEI/MRI)
Subject: Re: Rate Mitigation Implementation Meeting - March 30, 2017

I get that. I think he's saying that there need to be 2 meeting with Legal on Tuesday - one that I will organize (with that invite list he sent) and on that he's suggesting you organize and forward to him and Tim.

Make more sense?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Johnson, Paul (ENERGY/MEDEI/MRI)
Sent: Thursday, March 30, 2017 5:21 PM
To: Cox, Hilary (ENERGY)
Subject: RE: Rate Mitigation Implementation Meeting - March 30, 2017

Can you call me about this when you have a sec? I think we may have crossed wires.

PJ

From: Hume, Steen (ENERGY)
Sent: Thursday, March 30, 2017 4:55 PM
To: Johnson, Paul (ENERGY/MEDEI/MRI)
Cc: Cox, Hilary (ENERGY)
Subject: FW: Rate Mitigation Implementation Meeting - March 30, 2017

Hi. Spoke to DMO. In addition to the Leg walk-through meeting on Tuesday, we'll also need to invite OPGD/Cindy to the Tuesday session with Blakes, IESO, OEB and OPG OPGD. I think your office is setting that one up. Can you invite Tim and I to that one? We'll need a different name for the meeting to avoid confusion.

Good times. Steen

From: Katona, Keley (ENERGY)
Sent: March-30-17 4:33 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); Campbell, Bruce (bruce.campbell@ieso.ca); Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); LEE John -TREASURY
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker,

Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; Turnevicius, Lorraine; catriona.king@opg.com

Subject: RE: Rate Mitigation Implementation Meeting - March 30, 2017

Good afternoon,

Please find attached the action items from this morning's meeting.

Keley

From: Katona, Keley (ENERGY)

Sent: March-29-17 5:15 PM

To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); "jeffrey.lyash@opg.com" (jeffrey.lyash@opg.com); 'HARTWICK Ken -FINANCE' (ken.hartwick@opg.com); 'Rosemaire Leclair'; 'Mary Anne Aldred' (maryanne.albred@ontarioenergyboard.ca); 'Campbell, Bruce' (bruce.campbell@ieso.ca); 'Kim Marshall' (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); 'LEE John -TREASURY'

Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; 'Turnevicius, Lorraine'; catriona.king@opg.com

Subject: Rate Mitigation Implementation Meeting - March 30, 2017

Good afternoon,

Please find attached material for discussion at the weekly rate mitigation implementation working group meeting.

Keley

Keley Katona | Director of Operations

Deputy Minister's Office | Ministry of Energy

Tel: 416-326-7688 | BB: 647-980-4634

E-mail: Keley.Katona@Ontario.ca

4th Floor, Hearst Block, 900 Bay Street

RE_ Rate mitigation implementation.pdf

From: [Shear, Dan \(ENERGY/MEDEI/MRI\)](#)
To: [Calwell, Carolyn \(ENERGY\)](#)
Cc: [Johnson, Paul \(ENERGY\)](#)
Subject: RE: Rate mitigation implementation
Date: November 25, 2016 3:55:32 PM

Thanks Carolyn!

Status of a couple of items:

- Still waiting on clients (who are waiting on Corporate Services) re: MOUs. SNAP staff have sent drafts along to Sunita with the intention of having her forward to IESO and OFA for review in the meantime.
- Still waiting on clients to provide draft IPA package including consent form and energy agreement for LSB review. Expecting to get something by eod, for review early next week.

From: Calwell, Carolyn (ENERGY/MEDEI/MRI)
Sent: November-25-16 3:43 PM
To: Shear, Dan (ENERGY/MEDEI/MRI)
Cc: Johnson, Paul (ENERGY/MEDEI/MRI)
Subject: Rate mitigation implementation

From a short meeting this morning – not much discussion.

Carolyn Calwell
Legal Director
MAG Civil Law Division
Ministries of Energy / Economic Development & Growth /
Research, Innovation & Science / Infrastructure / Accessibility
416-212-8392

This communication may be solicitor/client privileged and contain confidential information only intended for the person(s) to whom it is addressed. Any dissemination or use of this information by others than the intended recipient(s) is prohibited. If you have received this message in error please notify the writer and permanently delete the message and all attachments. Thank you.

Re_ AG Report Backpocket(1)_1.pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: Re: AG Report Backpocket
Date: November 22, 2016 7:35:53 PM

Is this the version he's supposed to be reviewing?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 7:21 PM
To: Cox, Hilary (ENERGY); Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: Re: AG Report Backpocket

You can send it now

On Tue, Nov 22, 2016 at 7:18 PM -0500, "Cox, Hilary (ENERGY)"
<Hilary.Cox@ontario.ca> wrote:

Lemme know when I can send this to Steen.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Ho, Larissa (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Cayley, Daniel (ENERGY); Christie, Tim (ENERGY)
Cc: Cox, Hilary (ENERGY)
Subject: RE: AG Report Backpocket

The September cabinet deck had illustrative residential bar charts with the 8% applied to YTD 2016 May prices based on 750 kWh/month. It didn't have a "2013 LTEP update" per se, nor did it include any forecasted prices for 2016 and 2020.

So I just used the "2013 LTEP update" to layer on the cost of RRRP and ICI then apply the 8%. Total for 2016 and 2020 was forecast by the IESO to be \$148.36/800 kWh month and \$161.10/month before taxes after carbon. ICI is about 79 cents based on 800 kWh and RRRP is about 61 cents for the same volume of consumption.

See attached.

From: Hume, Steen (ENERGY)
Sent: November 22, 2016 5:49 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: FW: AG Report Backpocket

Hi. Attached is the format that the DM would like to use for this backpocket item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

Re_ AG Report Backpocket(2)_1.pdf

From: [Cayley, Daniel \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#)
Subject: Re: AG Report Backpocket
Date: November 22, 2016 7:30:45 PM

Tim - I would suggest taking the first row under "ministry" from Larissa's version (except the drivers column) - I think that is what Keley/DM were looking for.

I am out so can't make any chances but can chat if you call me at my desk number if needed.

Daniel

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 7:21 PM
To: Cox, Hilary (ENERGY); Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: Re: AG Report Backpocket

You can send it now

On Tue, Nov 22, 2016 at 7:18 PM -0500, "Cox, Hilary (ENERGY)"
<Hilary.Cox@ontario.ca> wrote:

Lemme know when I can send this to Steen.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Ho, Larissa (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Cayley, Daniel (ENERGY); Christie, Tim (ENERGY)
Cc: Cox, Hilary (ENERGY)
Subject: RE: AG Report Backpocket

The September cabinet deck had illustrative residential bar charts with the 8% applied to YTD 2016 May prices based on 750 kWh/month. It didn't have a "2013 LTEP update" per se, nor did it include any forecasted prices for 2016 and 2020.

So I just used the "2013 LTEP update" to layer on the cost of RRRP and ICI then apply the 8%. Total for 2016 and 2020 was forecast by the IESO to be \$148.36/800 kWh month and \$161.10/month before taxes after carbon. ICI is about 79 cents based on 800 kWh and RRRP is about 61 cents for the same volume of consumption.

See attached.

From: Hume, Steen (ENERGY)
Sent: November 22, 2016 5:49 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: FW: AG Report Backpack

Hi. Attached is the format that the DM would like to use for this backpack item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

Re_ AG Report Backpocket(3).pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#)
Subject: Re: AG Report Backpocket
Date: November 22, 2016 7:30:16 PM

Did you also just send something to Steen?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 7:21 PM
To: Cox, Hilary (ENERGY); Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: Re: AG Report Backpocket

You can send it now

On Tue, Nov 22, 2016 at 7:18 PM -0500, "Cox, Hilary (ENERGY)"
<Hilary.Cox@ontario.ca> wrote:

Lemme know when I can send this to Steen.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Ho, Larissa (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Cayley, Daniel (ENERGY); Christie, Tim (ENERGY)
Cc: Cox, Hilary (ENERGY)
Subject: RE: AG Report Backpocket

The September cabinet deck had illustrative residential bar charts with the 8% applied to YTD 2016 May prices based on 750 kWh/month. It didn't have a "2013 LTEP update" per se, nor did it include any forecasted prices for 2016 and 2020.

So I just used the "2013 LTEP update" to layer on the cost of RRRP and ICI then apply the 8%. Total for 2016 and 2020 was forecast by the IESO to be \$148.36/800 kWh month and \$161.10/month before taxes after carbon. ICI is about 79 cents based on 800 kWh and RRRP is about 61 cents for the same volume of consumption.

See attached.

From: Hume, Steen (ENERGY)
Sent: November 22, 2016 5:49 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: FW: AG Report Backpocket

Hi. Attached is the format that the DM would like to use for this backpocket item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

Re_ AG Report Backpocket(4).pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#)
Cc: [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: Re: AG Report Backpacket
Date: November 22, 2016 7:22:51 PM

Thanks Tim.

This looks good, few questions for clarification:

- 1) what's "LRC" referring to in the key drivers columns?
- 2) should RRRP be included in any of the drivers columns?
- 3) what's "regulatory" referring to in the key drivers columns? Is this ICI? Do we need a reference to ICI in the key drivers column?
4. Noticed the note at the bottom of the table re LRP2 not being included. Should that be removed per your note below? Also, should a reference be included in the drivers column?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Hume, Steen (ENERGY); Cayley, Daniel (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: RE: AG Report Backpacket

Here is the table. I've made some modifications to hopefully add clarity.

Note the IESO did include LRP II cancellation. I missed that note the first time.

From: Hume, Steen (ENERGY)
Sent: November-22-16 5:55 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY)
Subject: FW: AG Report Backpacket

FYI

From: Katona, Keley (ENERGY)
Sent: November-22-16 5:53 PM
To: Hume, Steen (ENERGY); Cox, Hilary (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: RE: AG Report Backpacket

Sorry, you should correct my growth rate label. It's not 'Average annual' growth.

From: Katona, Keley (ENERGY)

Sent: November-22-16 5:42 PM

To: Hume, Steen (ENERGY) (Steen.Hume@ontario.ca); Cox, Hilary (ENERGY)

Cc: Martin, Eric (ENERGY)

Subject: AG Report Backpacket

Re_ AG Report Backpocket(5).pdf

From: [Christie, Tim \(ENERGY\)](#)
To: [Cox, Hilary \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: Re: AG Report Backpocket
Date: November 22, 2016 7:21:30 PM

You can send it now

On Tue, Nov 22, 2016 at 7:18 PM -0500, "Cox, Hilary (ENERGY)"
<Hilary.Cox@ontario.ca> wrote:

Lemme know when I can send this to Steen.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Ho, Larissa (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Cayley, Daniel (ENERGY); Christie, Tim (ENERGY)
Cc: Cox, Hilary (ENERGY)
Subject: RE: AG Report Backpocket

The September cabinet deck had illustrative residential bar charts with the 8% applied to YTD 2016 May prices based on 750 kWh/month. It didn't have a "2013 LTEP update" per se, nor did it include any forecasted prices for 2016 and 2020.

So I just used the "2013 LTEP update" to layer on the cost of RRRP and ICI then apply the 8%. Total for 2016 and 2020 was forecast by the IESO to be \$148.36/800 kWh month and \$161.10/month before taxes after carbon. ICI is about 79 cents based on 800 kWh and RRRP is about 61 cents for the same volume of consumption.

See attached.

From: Hume, Steen (ENERGY)
Sent: November 22, 2016 5:49 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: FW: AG Report Backpocket

Hi. Attached is the format that the DM would like to use for this backpocket item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

Re_ AG Report Backpocket(6).pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Ho, Larissa \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#); [Christie, Tim \(ENERGY\)](#)
Subject: Re: AG Report Backpocket
Date: November 22, 2016 7:18:38 PM

Lemme know when I can send this to Steen.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Ho, Larissa (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Cayley, Daniel (ENERGY); Christie, Tim (ENERGY)
Cc: Cox, Hilary (ENERGY)
Subject: RE: AG Report Backpocket

The September cabinet deck had illustrative residential bar charts with the 8% applied to YTD 2016 May prices based on 750 kWh/month. It didn't have a "2013 LTEP update" per se, nor did it include any forecasted prices for 2016 and 2020.

So I just used the "2013 LTEP update" to layer on the cost of RRRP and ICI then apply the 8%. Total for 2016 and 2020 was forecast by the IESO to be \$148.36/800 kWh month and \$161.10/month before taxes after carbon. ICI is about 79 cents based on 800 kWh and RRRP is about 61 cents for the same volume of consumption.

See attached.

From: Hume, Steen (ENERGY)
Sent: November 22, 2016 5:49 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: FW: AG Report Backpocket

Hi. Attached is the format that the DM would like to use for this backpocket item.

Can we pay close attention to how the columns have been labeled so there is not confusion what the underlining assumptions are.

Thank you all.

Re_ AG Report Backpocket_1.pdf

From: [Hume, Steen \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#)
Cc: [Cox, Hilary \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: Re: AG Report Backpacket
Date: November 22, 2016 8:35:36 PM

Thank you Tim. Perfect.

Have shared with DMO for evening review.

Appreciate everyone's work on this one. Will keep you posted on how this it unfolds.

Have a good evening. Steen

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 7:52 PM
To: Hume, Steen (ENERGY); Cayley, Daniel (ENERGY)
Cc: Cox, Hilary (ENERGY); Ho, Larissa (ENERGY)
Subject: RE: AG Report Backpacket

Steen, I've made some updates to this version. I reverted the first row in the "Ministry" table to show LTEP 2013 + updates, which is what the DM originally asked for.

On your questions:

- 1) LRC should have read LRP (fixed in this version).
- 2) I didn't include RRRP as it is not material (but it is a driver). It could go back in.
- 3) The regulatory charge is a line item on industrial bills and includes wholesale market service charges, uplifts, IESO fee, and RRRP. It's not a large item, but it more than doubles in IESO's forecast (some of that is the RRRP update). I'm not sure what the other drivers are behind this increase but it's only 10% of the bill so could also be left out. It does not ICI, I also left that out as it is small for residential and non-existent for industrials.
- 4) I removed the LRP II note as upon closer reading of the IESO's analysis they did include the suspension of LRP II. As noted earlier it makes little to no difference in the final numbers.

From: Hume, Steen (ENERGY)
Sent: November-22-16 7:23 PM
To: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: Re: AG Report Backpacket

Thanks Tim.

This looks good, few questions for clarification:

1) what's "LRC" referring to in the key drivers columns?

2) should RRRP be included in any of the drivers columns?

3) what's "regulatory" referring to in the key drivers columns? Is this ICI? Do we need a reference to ICI in the key drivers column?

4. Noticed the note at the bottom of the table re LRP2 not being included. Should that be removed per your note below? Also, should a reference be included in the drivers column?

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Tuesday, November 22, 2016 6:42 PM
To: Hume, Steen (ENERGY); Cayley, Daniel (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY)
Subject: RE: AG Report Backpocket

Here is the table. I've made some modifications to hopefully add clarity.

Note the IESO did include LRP II cancellation. I missed that note the first time.

From: Hume, Steen (ENERGY)
Sent: November-22-16 5:55 PM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cayley, Daniel (ENERGY)
Subject: FW: AG Report Backpocket

FYI

From: Katona, Keley (ENERGY)
Sent: November-22-16 5:53 PM
To: Hume, Steen (ENERGY); Cox, Hilary (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: RE: AG Report Backpocket

Sorry, you should correct my growth rate label. It's not 'Average annual' growth.

From: Katona, Keley (ENERGY)

Sent: November-22-16 5:42 PM

To: Hume, Steen (ENERGY) (Steen.Hume@ontario.ca); Cox, Hilary (ENERGY)

Cc: Martin, Eric (ENERGY)

Subject: AG Report Backpacket

Re_Backpocket_Working Draft (1)_1.pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Cayley, Daniel \(ENERGY\)](#)
Subject: Re: Backpocket / Working Draft
Date: November 23, 2016 9:32:25 AM

All good

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Cayley, Daniel (ENERGY)
Sent: Wednesday, November 23, 2016 9:31 AM
To: Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Is Tim in? Did Steen connect with him? Larissa is stuck on the subway.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:56 AM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Hi. Can you help with this?

Thanks.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:50 AM
To: Christie, Tim (ENERGY)
Subject: RE: Backpocket / Working Draft

Tim, I thought we included LRP II in our numbers?

Didn't IESO provide the numbers?

Confusion re comment below that IESO hasn't run its model.

Can you swing by.

Thanks

-----Original Message-----

From: Christie, Tim (ENERGY)
Sent: November-23-16 8:13 AM
To: Hume, Steen (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: RE: Backpocket / Working Draft

Here are the edits including the new row to show just LTEP.

On the other questions:

- All now show volumetric off peak (no change to numbers as just the average impacts are shown)
- Refurb could be relabelled to OPG, but the main cost driver is the whole refurb, including BPRIA and OPG.
- IESO has not yet run its model.

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 6:51 AM
To: Christie, Tim (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpocket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpocket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:

>

> Deputy,

> See attached and below. Let us know if this works.

> Thanks,

> Keley

>

> Original Message

> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>

> Sent: Tuesday, November 22, 2016 8:30 PM

> To: Katona, Keley (ENERGY)

> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)

> Subject: Backpocket / Working Draft

>

> Hi. Attached is the proposed chart for evening review.

>
> Couple of things to highlight in the attached:
>
> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.
> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.
> 3) Included "LRP II" because its now included in recent IESO's analysis.
>
> Hope this helps, Steen
>
>
>
> <Copy of AG Report Backpacket 2.xlsx>

Re_Backpocket _ Working Draft _1.pdf

From: [Cayley, Daniel \(ENERGY\)](#)
To: [Cox, Hilary \(ENERGY\)](#)
Subject: Re: Backpocket / Working Draft
Date: November 23, 2016 9:32:44 AM

Fantastic

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Cox, Hilary (ENERGY)
Sent: Wednesday, November 23, 2016 9:32 AM
To: Cayley, Daniel (ENERGY)
Subject: Re: Backpocket / Working Draft

All good

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Cayley, Daniel (ENERGY)
Sent: Wednesday, November 23, 2016 9:31 AM
To: Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Is Tim in? Did Steen connect with him? Larissa is stuck on the subway.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:56 AM
To: Cayley, Daniel (ENERGY)
Cc: Christie, Tim (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Hi. Can you help with this?

Thanks.

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
Sent: Wednesday, November 23, 2016 8:50 AM
To: Christie, Tim (ENERGY)
Subject: RE: Backpocket / Working Draft

Tim, I thought we included LRP II in our numbers?

Didn't IESO provide the numbers?

Confusion re comment below that IESO hasn't run its model.

Can you swing by.

Thanks

-----Original Message-----

From: Christie, Tim (ENERGY)
Sent: November-23-16 8:13 AM
To: Hume, Steen (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: RE: Backpocket / Working Draft

Here are the edits including the new row to show just LTEP.

On the other questions:

- All now show volumetric off peak (no change to numbers as just the average impacts are shown)
- Refurb could be relabelled to OPG, but the main cost driver is the whole refurb, including BPRIA and OPG.
- IESO has not yet run its model.

From: Hume, Steen (ENERGY)
Sent: Wednesday, November 23, 2016 6:51 AM
To: Christie, Tim (ENERGY)
Cc: Cayley, Daniel (ENERGY); Ho, Larissa (ENERGY); Cox, Hilary (ENERGY)
Subject: Fw: Backpocket / Working Draft

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message
From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpocket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message
From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpocket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

- > On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:
- >
- > Deputy,
- > See attached and below. Let us know if this works.
- > Thanks,

> Keley
>
> Original Message
> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>
> Sent: Tuesday, November 22, 2016 8:30 PM
> To: Katona, Keley (ENERGY)
> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
> Subject: Backpacket / Working Draft
>
> Hi. Attached is the proposed chart for evening review.
>
> Couple of things to highlight in the attached:
>
> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.
> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.
> 3) Included "LRP II" because its now included in recent IESO's analysis.
>
> Hope this helps, Steen
>
>
>
> <Copy of AG Report Backpacket 2.xlsx>

Re_Backpocket _ Working Draft(1).pdf

From: [Christie, Tim \(ENERGY\)](#)
To: [Cayley, Daniel \(ENERGY\)](#)
Cc: [Ho, Larissa \(ENERGY\)](#)
Subject: Re: Backpacket / Working Draft
Date: November 23, 2016 7:51:01 AM

Didn't we show a difference in the proceeds deck? Maybe it was only 10 cents

On Wed, Nov 23, 2016 at 7:45 AM -0500, "Cayley, Daniel (ENERGY)"
<Daniel.Cayley@ontario.ca> wrote:

As the impact on average is designed to be the same, shouldn't change the numbers.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Wednesday, November 23, 2016 7:28 AM
Cc: Ho, Larissa (ENERGY); Cayley, Daniel (ENERGY)
Subject: Re: Backpacket / Working Draft

Larissa, please change the volumetric proceeds recycling to off peak in ministry option 1.

From: Hume, Steen (ENERGY) <steen.hume@ontario.ca>
Sent: Wednesday, November 23, 2016 6:51 AM
Subject: Fw: Backpacket / Working Draft
To: Christie, Tim (ENERGY) <tim.christie@ontario.ca>
Cc: Ho, Larissa (ENERGY) <larissa.ho@ontario.ca>, Cox, Hilary (ENERGY) <hilary.cox@ontario.ca>, Cayley, Daniel (ENERGY) <daniel.cayley@ontario.ca>

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpacket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>

Sent: Wednesday, November 23, 2016 5:35 AM

To: Katona, Keley (ENERGY)

Cc: Martin, Eric (ENERGY)

Subject: Re: Backpocket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:

>

> Deputy,

> See attached and below. Let us know if this works.

> Thanks,

> Keley

>

> Original Message

> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>

> Sent: Tuesday, November 22, 2016 8:30 PM

> To: Katona, Keley (ENERGY)

> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)

> Subject: Backpocket / Working Draft

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> Hi. Attached is the proposed chart for evening review.

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> Couple of things to highlight in the attached:

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> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.

> 2) Although a Key Driver, did not include RRRP due to materiality (i.e., Low). However, in the morning could add back in if necessary.

> 3) Included "LRP II" because its now included in recent IESO's analysis.

>

> Hope this helps, Steen

>

>

>

> <Copy of AG Report Backpocket 2.xlsx>

Re_Backpocket _ Working Draft(2).pdf

From: [Cayley, Daniel \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#)
Cc: [Ho, Larissa \(ENERGY\)](#)
Subject: Re: Backpacket / Working Draft
Date: November 23, 2016 7:45:15 AM

As the impact on average is designed to be the same, shouldn't change the numbers.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Christie, Tim (ENERGY)
Sent: Wednesday, November 23, 2016 7:28 AM
Cc: Ho, Larissa (ENERGY); Cayley, Daniel (ENERGY)
Subject: Re: Backpacket / Working Draft

Larissa, please change the volumetric proceeds recycling to off peak in ministry option 1.

From: Hume, Steen (ENERGY) <steen.hume@ontario.ca>
Sent: Wednesday, November 23, 2016 6:51 AM
Subject: Fw: Backpacket / Working Draft
To: Christie, Tim (ENERGY) <tim.christie@ontario.ca>
Cc: Ho, Larissa (ENERGY) <larissa.ho@ontario.ca>, Cox, Hilary (ENERGY) <hilary.cox@ontario.ca>, Cayley, Daniel (ENERGY) <daniel.cayley@ontario.ca>

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpacket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)

Subject: Re: Backpacket / Working Draft

Hi. Don't think we show volumetric in all hours as the option -- both should be peak/offpeak. Also, I'd rather say OPG rather than refurb assuming that's what the driver is. Did the IESO have a chance to run its model?

Sent from my iPad

> On Nov 22, 2016, at 8:32 PM, Katona, Keley (ENERGY) <Keley.Katona@ontario.ca> wrote:

>

> Deputy,

> See attached and below. Let us know if this works.

> Thanks,

> Keley

>

> Original Message

> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>

> Sent: Tuesday, November 22, 2016 8:30 PM

> To: Katona, Keley (ENERGY)

> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)

> Subject: Backpacket / Working Draft

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> Hi. Attached is the proposed chart for evening review.

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> Couple of things to highlight in the attached:

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> 1) Reverted the first row in the "Ministry" section of the table to show LTEP 2013 + updates.

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> 3) Included "LRP II" because its now included in recent IESO's analysis.

>

> Hope this helps, Steen

>

>

>

>

> <Copy of AG Report Backpacket 2.xlsx>

Re_ Backpocket _ Working Draft(3).pdf

From: [Christie, Tim \(ENERGY\)](#)
Cc: [Ho, Larissa \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#)
Subject: Re: Backpacket / Working Draft
Date: November 23, 2016 7:28:44 AM

Larissa, please change the volumetric proceeds recycling to off peak in ministry option 1.

From: Hume, Steen (ENERGY) <steen.hume@ontario.ca>
Sent: Wednesday, November 23, 2016 6:51 AM
Subject: Fw: Backpacket / Working Draft
To: Christie, Tim (ENERGY) <tim.christie@ontario.ca>
Cc: Ho, Larissa (ENERGY) <larissa.ho@ontario.ca>, Cox, Hilary (ENERGY) <hilary.cox@ontario.ca>, Cayley, Daniel (ENERGY) <daniel.cayley@ontario.ca>

Good morning. See below. Few comments / adjustments from the DM for turn around this morning.

Thank you,

Sent from my BlackBerry 10 smartphone on the Rogers network.

Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>
Sent: Wednesday, November 23, 2016 6:28 AM
To: Hume, Steen (ENERGY)
Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)
Subject: Fw: Backpacket / Working Draft

A few comments below. Could we turn around as soon as possible this morning?

Original Message

From: Imbrogno, Serge (ENERGY) <Serge.Imbrogno@ontario.ca>
Sent: Wednesday, November 23, 2016 5:35 AM
To: Katona, Keley (ENERGY)
Cc: Martin, Eric (ENERGY)
Subject: Re: Backpacket / Working Draft

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> From: Hume, Steen (ENERGY) <Steen.Hume@ontario.ca>

> Sent: Tuesday, November 22, 2016 8:30 PM

> To: Katona, Keley (ENERGY)

> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)

> Subject: Backpacket / Working Draft

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> <Copy of AG Report Backpacket 2.xlsx>

Re_Backpocket _ Working Draft.pdf

From: [Ho, Larissa \(ENERGY\)](#)
To: [Christie, Tim \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#)
Subject: Re: Backpacket / Working Draft
Date: November 23, 2016 8:11:28 AM

If I recall correctly, average is the same but high/low ends changed about 10 cents. I'll check.

From: Christie, Tim (ENERGY)
Sent: Wednesday, November 23, 2016 7:51 AM
To: Cayley, Daniel (ENERGY)
Cc: Ho, Larissa (ENERGY)
Subject: Re: Backpacket / Working Draft

Didn't we show a difference in the proceeds deck? Maybe it was only 10 cents

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Subject: Fw: Backpacket / Working Draft
To: Christie, Tim (ENERGY) <tim.christie@ontario.ca>
Cc: Ho, Larissa (ENERGY) <larissa.ho@ontario.ca>, Cox, Hilary (ENERGY) <hilary.cox@ontario.ca>, Cayley, Daniel (ENERGY) <daniel.cayley@ontario.ca>

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Original Message

From: Katona, Keley (ENERGY) <Keley.Katona@ontario.ca>

Sent: Wednesday, November 23, 2016 6:28 AM

To: Hume, Steen (ENERGY)

Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)

Subject: Fw: Backpacket / Working Draft

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> Keley

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> Original Message

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> Sent: Tuesday, November 22, 2016 8:30 PM

> To: Katona, Keley (ENERGY)

> Cc: Cox, Hilary (ENERGY); Martin, Eric (ENERGY)

> Subject: Backpacket / Working Draft

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> Hope this helps, Steen

>

>

>

> <Copy of AG Report Backpocket 2.xlsx>

Re_ Please review edits ASAP_ Tracking Below Fo....pdf

From: [Christie, Tim \(ENERGY\)](#)
To: [Cox, Hilary \(ENERGY\)](#); [Cayley, Daniel \(ENERGY\)](#); [Ho, Larissa \(ENERGY\)](#)
Subject: Re: Please review edits ASAP: Tracking Below Forecast News Release
Date: November 23, 2016 6:22:02 PM

The change in consumption volume needs to be referenced somewhere. Every time we do messaging for rpp changes we convert the 2013 ltep to 750 kWh to make a direct comparison. It would be inconsistent with prior messaging not to do it here.

On Wed, Nov 23, 2016 at 5:54 PM -0500, "Cox, Hilary (ENERGY)"
<Hilary.Cox@ontario.ca> wrote:

Hi Guys – see DM requested edits as tracked in attached.

Hilary Cox
T: (416) 327-7204
Bb: (647) 237-8140

From: Martin, Eric (ENERGY)
Sent: November 23, 2016 5:38 PM
To: Cox, Hilary (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: RE: Tracking Below Forecast News Release

Hi Hilary,

The deputy wasn't quite comfortable with that main paragraph, so I edited based on his guidance.

He's okay with the attached, but can ESP please confirm comfort with the tracked changes before we send to MO? (We accepted all the other changes further down in the NR).

Thanks,

Eric Martin

— Deputy Minister's Office | Ministry of Energy

From: Cox, Hilary (ENERGY)
Sent: November-23-16 5:18 PM
To: Martin, Eric (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: RE: Tracking Below Forecast News Release

Hi Eric –

Revised NR attached.

HC

Hilary Cox
T: (416) 327-7204
Bb: (647) 237-8140

From: Martin, Eric (ENERGY)
Sent: November 23, 2016 4:53 PM
To: Cox, Hilary (ENERGY)
Cc: Hume, Steen (ENERGY); Katona, Keley (ENERGY)
Subject: RE: Tracking Below Forecast News Release

Hi Hilary,

The deputy is looking for two changes to the doc (attached with no changes):

1. In that main second paragraph, please use the numbers we used in the AG backpocket (i.e., the 800 kWh numbers) because those are the ones we've shared with governmental counterparts; and
2. Please add explicit reference to the RRRP in that third bullet point.

Please send back asap and we'll send to MO with our caveats and cautions.

Eric Martin

Deputy Minister's Office | Ministry of Energy

From: Cox, Hilary (ENERGY)
Sent: November-23-16 4:28 PM
To: Martin, Eric (ENERGY)
Cc: Katona, Keley (ENERGY); Christie, Tim (ENERGY); Cayley, Daniel (ENERGY); DeSouza, Avril (ENERGY)
Subject: Tracking Below Forecast News Release

Hi Eric and Keley –
Attached is the ESPD ADM approved news release on electricity prices tracking below forecast.

Also have copy with comments indicating sources of numbers etc., if you'd like.

HC

Hilary Cox

Executive Assistant/Sr. Policy Advisor (A) | Assistant Deputy Minister's Office
Energy Supply Policy Division | Ministry of Energy

T: 416.327.7204 | Bb: 647.237.8140 |

E: Hilary.cox@ontario.ca

Re_ Rate Mitigation - Minister's Deck_1.pdf

From: [Cox, Hilary \(ENERGY\)](#)
To: [Feather, Adam \(ENERGY\)](#)
Subject: Re: Rate Mitigation - Minister's Deck
Date: March 30, 2017 5:41:06 PM

Awesome.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Feather, Adam (ENERGY)
Sent: Thursday, March 30, 2017 5:39 PM
To: Cox, Hilary (ENERGY)
Subject: RE: Rate Mitigation - Minister's Deck

SNAP ADM approved edits.

From: Cox, Hilary (ENERGY)
Sent: March-30-17 4:54 PM
To: Feather, Adam (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Original request on rate mitigation implantation update deck for Minister.

HC

From: Cox, Hilary (ENERGY)
Sent: March 29, 2017 10:06 AM
To: Thompson, Erin (ENERGY); Feather, Adam (ENERGY); Waddell, Colleen (MOF)
Cc: Christie, Tim (ENERGY)
Subject: FW: Rate Mitigation - Minister's Deck

Heads-up, we're being asked to update the Minister's rate mitigation implementation deck from last week with content from this week's matrix (materials attached).

This will need to go to DMO tomorrow for Friday/weekend package. ESPD will consolidate.

HC

Re_ Rate Mitigation Implementation Meeting - Ap..._1.pdf

From: [Katona, Keley \(ENERGY\)](#)
To: [Sermat-Harding, Kaili \(ENERGY\)](#)
Cc: [Thompson, Erin \(ENERGY\)](#)
Subject: Re: Rate Mitigation Implementation Meeting - April 13, 2017
Date: April 12, 2017 5:41:25 PM

All good, the Deputy can provide the update.

From: Sermat-Harding, Kaili (ENERGY)
Sent: Wednesday, April 12, 2017 5:39 PM
To: Katona, Keley (ENERGY)
Cc: Thompson, Erin (ENERGY)
Subject: RE: Rate Mitigation Implementation Meeting - April 13, 2017

Hi Keley,

I am away from the office off tomorrow. I would prefer not to ask Usman to attend given how brief the update for the Affordability Fund is: Ministry briefing of the Advisory Committee took place on April 7th and the first meeting of the Advisory Committee is scheduled for April 18th. Ministry staff (me) will be attending Advisory Committee meetings as an observer. That said, please let me know if DM would prefer Usman to be there.

Thanks,

Kaili

From: Katona, Keley (ENERGY)
Sent: April-12-17 5:33 PM
To: Hume, Steen (ENERGY); Sermat-Harding, Kaili (ENERGY); Reid, Michael (ENERGY); Calwell, Carolyn (ENERGY/MEDEI/MRI); Nelms, Scott (MOF); 'jeffrey.lyash@opg.com' (jeffrey.lyash@opg.com); HARTWICK Ken -FINANCE (ken.hartwick@opg.com); Rosemaire Leclair; Mary Anne Aldred (maryanne.albred@ontarioenergyboard.ca); Campbell, Bruce (bruce.campbell@ieso.ca); Kim Marshall (Kim.Marshall@ieso.ca); Thompson, Scott (MOF); Angus, Helen (TBS); Davidson, Steven (CAB); 'Martine Band'; 'CROZZOLI Carlo -CBUSDEV&STRT'; Mayman, Gadi (OFA); LEE John -TREASURY
Cc: Imbrogno, Serge (ENERGY); Teliszewsky, Andrew (ENERGY); Whittington, Matt (ENERGY); Baker, Carys (ENERGY); MacIntyre, Kyle (TBS); McLean, David (MOF); Foster, Robert (CAB); jordan.penic@ieso.ca; 'sarah.branco@ontarioenergyboard.ca'; Turnevicius, Lorraine; catriona.king@opg.com; Bungaro-Yemec, Francesca (ENERGY)
Subject: Rate Mitigation Implementation Meeting - April 13, 2017

Good evening,
Please find attached the material for discussion tomorrow morning.
Thanks,
Keley

Re_ Today's rate mitigation implementation grou....pdf

From: [Imbrogno, Serge \(ENERGY\)](#)
To: [Sermat-Harding, Kaili \(ENERGY\)](#)
Cc: [Katona, Keley \(ENERGY\)](#)
Subject: Re: Today's rate mitigation implementation group meeting
Date: April 25, 2017 8:26:27 AM

Sounds good. Thanks for the update.

Sent from my iPad

On Apr 25, 2017, at 8:25 AM, Sermat-Harding, Kaili (ENERGY) <Kaili.Sermat-Harding@ontario.ca> wrote:

Good morning,

This morning's rate mitigation meeting coincides with our regular monthly meeting with Samsung. We understand that Steve Cho will be attending and that he plans to raise at least one issue so I want to be there to hear/address.

Regarding the Affordability Fund, there is not much to report at this time. I called Hydro One yesterday on status. They have prepared letters to send to the two social service agencies inviting participation on the Trust; Alex was going to discuss with Ferio later yesterday his preferred approach, i.e. call first and then send letters, or send letters and follow up with calls. In any case, intention was to reach out yesterday or today. Once names are confirmed, Hydro One plans to provide the two social service agency reps with a background briefing as soon as possible to get them up to speed, and so that the Trustees can meet as a group within the next few weeks and begin their work. I asked Alex to keep me posted.

Let me know if you have any questions.

Thx.

Kaili

*Kaili Sermat-Harding
Assistant Deputy Minister
Conservation and Renewable Energy Division
Ministry of Energy
77 Grenville Street, 5th Floor
Toronto, Ontario
M7A 2C1
Telephone: 416-327-5555*

Today's rate mitigation implementation group m....pdf

From: [Sermat-Harding, Kaili \(ENERGY\)](#)
To: [Imbrogno, Serge \(ENERGY\)](#)
Cc: [Katona, Keley \(ENERGY\)](#)
Subject: Today's rate mitigation implementation group meeting
Date: April 25, 2017 8:25:00 AM

Good morning,

This morning's rate mitigation meeting coincides with our regular monthly meeting with Samsung. We understand that Steve Cho will be attending and that he plans to raise at least one issue so I want to be there to hear/address.

Regarding the Affordability Fund, there is not much to report at this time. I called Hydro One yesterday on status. They have prepared letters to send to the two social service agencies inviting participation on the Trust; Alex was going to discuss with Ferio later yesterday his preferred approach, i.e. call first and then send letters, or send letters and follow up with calls. In any case, intention was to reach out yesterday or today. Once names are confirmed, Hydro One plans to provide the two social service agency reps with a background briefing as soon as possible to get them up to speed, and so that the Trustees can meet as a group within the next few weeks and begin their work. I asked Alex to keep me posted.

Let me know if you have any questions.

Thx.

Kaili

*Kaili Sermat-Harding
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Conservation and Renewable Energy Division
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77 Grenville Street, 5th Floor
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Telephone: 416-327-5555*