

RE: LRC (Jan. 31) | Net metering

From: "Coker, Meaghan (ENERGY)" <meaghan.coker@ontario.ca>
To: "Pagel, Alexa (ENERGY)" <alexa.pagel@ontario.ca>, "Esdaile, Trevor (ENERGY)" <trevor.esdaile@ontario.ca>
Cc: "Katona, Keley (ENERGY)" <keley.katona@ontario.ca>, "Whittington, Matt (ENERGY)" <matt.whittington@ontario.ca>
Date: Wed, 22 Feb 2017 15:08:17 -0500

Thanks, good to go! Just change Update on heading to "Updated"

-MC

From: Pagel, Alexa (ENERGY)
Sent: February-22-17 3:01 PM
To: Coker, Meaghan (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY); Whittington, Matt (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

Following up on the below. Could you please let me know if there are any concerns with staff sending out the eblast?

Thank you,
Alexa

From: Pagel, Alexa (ENERGY)
Sent: February-21-17 1:01 PM
To: Coker, Meaghan (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY); Whittington, Matt (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

Staff would like to send out the attached eblast to their 500+ distribution list letting them know that the amended regulation is now [online](#) (MOF's DRC amendment is also [online](#)).

This eblast would be followed by the below email being sent out to the AWG.

Could you please let me know if you have any concerns with the below or attached eblast? Staff would like to send out asap.

Thank you,
Alexa

Email to AWG:

Dear Net Metering Advisory Working Group members,

A recent notice was sent out notifying stakeholders that the amended Net Metering Regulation was posted to elaws on Friday, February 10, 2017. I would like to personally thank you for your guidance and input providing through the Net Metering Advisory Working Group since June 2015, through meetings, individual calls, and solicitation of your organization's feedback. We believe that, as a result of your input, the updated program meets the Ministry's objectives to provide flexibility and customer choice, while being attuned to electricity system costs.

On behalf of the Conservation and Renewable Energy Division, thank you again. We look forward to continuing to work with you on the Part 2 updates under consideration.

Usman Syed

b/o Kaili Sermat-Harding
Assistant Deputy Minister, Conservation and Renewable Energy

From: Coker, Meaghan (ENERGY)
Sent: January-28-17 12:15 PM
To: Pagel, Alexa (ENERGY); Whittington, Matt (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: Re: LRC (Jan. 31) | Net metering

Thanks Alexa, these are great! Will share with the PA's staff.

From: Pagel, Alexa (ENERGY)
Sent: Thursday, January 26, 2017 4:34 PM
To: Coker, Meaghan (ENERGY); Whittington, Matt (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

Attached are speaking remarks for the PA on Tuesday. Please let me know if you need any edits to this document.

For your reference, I have also attached all of the final copies of the net metering package:

- Ministry Approval Form
- Preliminary Regulatory Impact Assessment
- Communications snapshot
- Sealed amending regulation
 - *Password: billing*
- Regulatory comparison chart
- QAs (internal use only)

Thank you,
Alexa

From: Coker, Meaghan (ENERGY)
Sent: January-25-17 9:48 PM
To: Pagel, Alexa (ENERGY); Whittington, Matt (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: Re: LRC (Jan. 31) | Net metering

Thanks Alexa, good to go!

From: Pagel, Alexa (ENERGY)
Sent: Wednesday, January 25, 2017 9:20 PM
To: Coker, Meaghan (ENERGY); Whittington, Matt (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

CO asked if ENERGY received any questions/comments from First Nations or Indigenous groups about the net metering program, to which staff prepared the below response. This question is to support a briefing at **8:00am tomorrow morning**.

Could you please let me know if you have any comments/concerns?

Thanks so much,
Alexa

Has ENERGY received any questions/comments from First Nations or Indigenous groups about the Net Metering program?

- There was a great deal of interest regarding net metering at ENERGY's Long-term Energy Plan (LTEP) Indigenous engagement sessions held across the province in the fall of 2016 and in early 2017.
- Participants including Chiefs, Councillors, Elders, economic development staff, Political-Territorial Organization representatives, business leaders and community members saw net metering as a potential way to help off-set high bills and promote energy independence.
- Concerns were raised regarding the ability of First Nations to participate in net metering programs due to housing conditions on reserve, i.e., can rooftops support solar panels and restrictions with their local distribution companies associated with local capacity constraints on the distribution/transmission systems.

Net Metering and Indigenous Engagement

- ENERGY is engaging with First Nation and Métis communities and organizations to seek input further updates to the net metering program, including enabling community or virtual net metering.
- Indigenous community representatives and organization were invited to participate in the net metering webinar held by the Ministry of Energy on January 12, 2017. This included Chiefs of Ontario, Métis Nation of Ontario, Political Territorial organizations as well as key individuals who attended the Indigenous Long Term Energy Plan sessions who expressed interest in net metering in their communities.
- Moving forward, ENERGY will organize a targeted meeting with Hydro One Remote to discuss potential application of third-party ownership and virtual net metering models in communities served by Hydro One Remote and to identify key issues
- ENERGY will work with IESO to engage the Aboriginal Energy Working Group, a group the IESO has established to provide feedback on various energy initiatives, which ENERGY has engaged in the past (i.e., LTEP Indigenous engagement).

From: Coker, Meaghan (ENERGY)
Sent: Tuesday, January 24, 2017 5:58 PM
To: Pagel, Alexa (ENERGY); Whittington, Matt (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Thanks Alexa, these responses are fine to go to CO.

Additional questions for CRED for my own understanding are below. Happy to have a chat if that is easier. Thanks in advance!!

1. In closer review, I'm finding it difficult to understand Table 1 & 2. Why would 50% increase in uptake in the high uptake case (see Table 2) result in the same annual generation as the electricity generation in Table 1's low uptake case?
2. Beyond 2020, will the 3.5 cent estimated subsidy continue to decrease as we reach grid parity?
3. How is Ontario planning on pricing the electricity that consumers can sell back to the grid from their grid-generated stored energy? I.e. What is our response to our process versus California's?

From: Pagel, Alexa (ENERGY)
Sent: January-24-17 12:16 PM
To: Whittington, Matt (ENERGY); Coker, Meaghan (ENERGY); Esdaile, Trevor (ENERGY)
Cc: Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi,

As follow up to the below, CO had questions about the net metering package. Please see questions and responses below, and let me know if there are any concerns before we share with CO. They have asked for this information as soon as possible in order to finalize the LRC binders.

Thank you,
Alexa

#1 Re the MOF consequential amendments - When was the net metering reg passed, and has the exemption been provided to all self-generators in practice? Has MOF just not applied the DRC to these people and it is a matter of catching up the reg?

- * The proposed amendments to the Debt Retirement Charge (DRC) Regulation would sustain the exemption, in place since 2005, for all net metered generators from having to pay DRC on the portion of self-generated electricity that they self-consume.
- * The current round of amendments to the Net Metering Regulation includes the proposal to remove the 500 kilowatt capacity limit. If the DRC exemption is not extended for net metered generation facilities above 500 kW in O. Reg. 493/01, in addition to increased metering costs to customers, distributors would need to update their Customer Information Systems and billing systems in order to charge DRC for net metered customers, which would introduce costs and take time (Hydro One estimates six to eight months).
- * The DRC will be removed from all customers' bills by April 1, 2018, and therefore the costs and effort associated with these changes would be made without long-term benefit.
- * While the DRC is in place, all net metering customers continue to pay DRC on the electricity they consume from the electricity grid.

#2 Why are the Independent Power Authorities not licenced or regulated by the Ontario Energy Board?

- * An IPA is a distributor that is owned and operated by a local First Nation community, is not connected to the provincial grid, and is not otherwise licensed or regulated by the OEB. There are 10 IPAs in Ontario.
- * IPAs fall under the jurisdiction of the federal government and receive funding for operating expenses transferred to the community from Indigenous and Northern Affairs Canada (INAC).
- * IPAs operate on First Nation reserve land under federal jurisdiction and do not impact the Ontario electricity system (being unconnected),.
- * IPAs are currently exempt from licensing and other regulatory provisions of the Ontario Energy Board Act (O.Reg 161/99) and from provisions in the Electricity Act requiring them to provide non-discriminatory access and the obligation to supply customers (O. Reg 160/99).
- * Some remote First Nation communities are served by Hydro One Remote Communities Inc. (HORCI) as a result of historic electricity service agreements between the former Ontario Hydro and INAC. Since HORCI is an OEB-licensed distributor receiving subsidies from Ontario ratepayers, distribution systems in these communities are regulated by the OEB.

#3 The Ministry of Energy consulted in summer and fall 2015 and posted the proposal on the Environmental and Regulatory Registries in August 2016. Why was there a delay between the posting and the proposal?

- * While ENERGY invited feedback on all program aspects during Summer and Fall 2015 consultations, the consultations were weighted towards soliciting feedback on two compensation options: maintaining volumetric electricity rates or moving to a new "Value of Renewables Tariff." A decision on compensation was needed before the Ministry could make recommendations on program design elements (such as credit carryover period, treatment of energy storage).
- * From November 2015 to early March 2016, ENERGY reviewed stakeholder written submissions, and engaged with the Net Metering Advisory Working Group – including separately seeking advice and input from the Independent Electricity System Operator and Ontario Energy Board – to develop a recommendation on compensation. In March 2016, the Ministry decided to continue the practice of compensating generators at volumetric electricity rates.
- * During April and May 2016, the Ministry worked to develop recommendations for each program design element, including credit carryover period, eligible sizing, treatment of energy storage, and cancellation terms.
- * On June 13, 2016, a new Minister was appointed to the Ministry of Energy. ENERGY staff worked to brief the new Minister on net metering in June, and in late July 2016 received the Minister's approval to post the proposed amendments to Net Metering Regulation, which were then posted to the Environmental and Regulatory registries on August 19, 2016 for a 48-day comment period.

From: Whittington, Matt (ENERGY)

Sent: January-20-17 3:44 PM

To: Pagel, Alexa (ENERGY); Coker, Meaghan (ENERGY)

Cc: Esdaile, Trevor (ENERGY); Katona, Keley (ENERGY)

Subject: Re: LRC (Jan. 31) | Net metering

Also - still trying to confirm PAs availability. We'll let you know.

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Whittington, Matt (ENERGY)
Sent: Friday, January 20, 2017 3:34 PM
To: Pagel, Alexa (ENERGY); Coker, Meaghan (ENERGY)
Cc: Esdaile, Trevor (ENERGY); Katona, Keley (ENERGY)
Subject: Re: LRC (Jan. 31) | Net metering

Hi Alexa

This is fine.

Thanks
Matt

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Pagel, Alexa (ENERGY)
Sent: Friday, January 20, 2017 2:54 PM
To: Coker, Meaghan (ENERGY)
Cc: Esdaile, Trevor (ENERGY); Whittington, Matt (ENERGY); Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

For your review, please find attached the pink note related to the net metering package. Apologies for the tight turnaround, could you please send any additional edits/comments **by EOD**? CO is looking to have this draft finalized by the end of the day.

And could you please let me know if the PA is able to attend LRC on January 31? We understand from CO that both net metering and EWRB will be discussion items, so would like to arrange PA briefings next week.

Thank you,
Alexa

From: Pagel, Alexa (ENERGY)
Sent: January-18-17 12:28 PM
To: Coker, Meaghan (ENERGY)
Cc: Esdaile, Trevor (ENERGY); Whittington, Matt (ENERGY); Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

Please find attached the updated version of the Ministry Approval Form (clean and tracked changes). The package is now ready for Minister's signature.

Thanks,
Alexa

From: Coker, Meaghan (ENERGY)
Sent: January-18-17 11:00 AM
To: Pagel, Alexa (ENERGY)
Cc: Esdaile, Trevor (ENERGY); Whittington, Matt (ENERGY); Katona, Keley (ENERGY)

Subject: RE: LRC (Jan. 31) | Net metering

Thanks Alexa, for this info. One small edit below, then good for signature!

Edit:

I think it would be helpful if the package clearly states that NM customers are currently being paid at tiered rates.

Perhaps at the top of the 3.5 cent subsidy section or with the proposed amendment “to clarify the description of the billing method”.

Something as simple as this from the Q/A document ...

Most LDCs in Ontario will bill residential net-metered customers based on the Tiered Pricing structure of the Regulated Price Plan.

Also with that I think it would be helpful to mention ...

The Ministry will be undertaking a cost-benefit analysis to help inform whether investments in Ontario’s MDM/R should be made to enable province-wide TOU billing for these customers.

From: Pagel, Alexa (ENERGY)
Sent: January-18-17 9:33 AM
To: Coker, Meaghan (ENERGY)
Cc: Esdaile, Trevor (ENERGY); Whittington, Matt (ENERGY); Katona, Keley (ENERGY)
Subject: RE: LRC (Jan. 31) | Net metering

Hi Meaghan,

Staff sent the below answers to your questions re: the net metering package.

Let me know if you have any more questions, or if we can get the package ready for DM/Minister signature.

Thanks,
Alexa

1. Can staff provide more context/info. re: costs passed to consumers – is this related to the GA?

Global Adjustment costs would not increase as a result of net metering uptake. However, customers may pass on a small amount of GA and other volumetric electricity charges (e.g. volumetric distribution, transmission, and regulatory charges), that they otherwise would have paid, to other customers. This is because they are consuming less electricity from the grid.

However, these charges (or, a portion of these charges) are only passed on to other consumers where the value of electricity generated by the net metering participant is lower than the volumetric charges listed above. This is further explained in the answer to question 2 below.

2. Why are we using a model that isn’t tiered? (page 12)

Staff did use Tiered Pricing in the analysis. Please see footnote 33 on page 13 which states the following:

“3.5 cents is based on the difference between residential Tiered Prices in 2020 (12 cents/kWh) and the average of IESO’s preliminary estimates of the 20-year levelized value of solar in different regions of the

province (12 cents + 5 cents / 2 = 8.5 cents) in 2020.”

Volumetric electricity rates are used as a proxy for the value of the net-metered renewable energy generation. However, in most areas of the province, the IESO has modelled that the value of the electricity generated by the net metering participant may be slightly lower than the total of volumetric electricity rates.

Most residential net metering participants in the province will be billed for their consumption, and credited for their exports, at Tiered Pricing rates. In 2020, Tiered Pricing rates that a customer would receive on exports to the grid are modelled to be on average \$0.12/kWh (brought back into \$2016, and accounting for average residential solar PV generation and current Tiered Pricing kWh tier thresholds as posted on the OEB’s website).

Based on IESO’s estimate of the value of solar PV generation, however, that \$0.12/kWh is \$0.035 higher than the true value offered by PV generation to the province in 2020. The IESO’s analysis did not account for distribution costs/benefits, so was an indicative estimate. However, for the purpose of the analysis we also only looked at commodity charges paid (Tiered Pricing) as these are the largest source of credits a net metering customer would receive, and as residential customers are being transitioned to a fully fixed distribution charge.

ENERGY staff used this \$0.035 difference between what net metering participants are credited vs. the value offered by their generation to calculate an estimate of the subsidy provided to net metering customers (the total cost shift) assuming different levels of uptake. In terms of the cost shift examples in the LRC package, these would be funded entirely through the Global Adjustment, given the scope of the analysis.

3. **Does the package speak to current subsidies offered to NM customers? See pg. 12 referencing 3.5 cents, but this is not offered now/proposed to be. Should have current pricing.**

Please see answer to question 2 above. There are no direct subsidies currently offered to net metering participants. However, volumetric electricity rates may represent a modest indirect subsidy in certain areas of the province.

From: Armstrong, Hillary (ENERGY)
Sent: January-16-17 4:22 PM
To: Teliszewsky, Andrew (ENERGY)
Cc: Imbrogno, Serge (ENERGY); Katona, Keley (ENERGY); Pagel, Alexa (ENERGY); Whittington, Matt (ENERGY); Moulton, Dan (ENERGY); Esdaile, Trevor (ENERGY); Coker, Meaghan (ENERGY); Baker, Carys (ENERGY)
Subject: LRC (Jan. 31) | Net metering

Hi Andrew,

For concurrent review, attached is the net metering package that is tracking to LRC for January 31. As with the Large Building EWRB package, final copies (signed by the Minister) need to be sent to Executive Counsel Office by **January 19**. The password to open the draft reg. is: billing.

And an update on MOF’s DRC regulatory amendments:

- MOF’s EBR posting closed on Jan. 6, and they received no comments.
- MOF is seeking a decision on TB exemption prior to Jan. 31, given the small expected fiscal impact.
- MOF is scheduled to seek LRC approval of amendments to their DRC regulation on Jan. 31. We have reviewed the draft Ministry Approval Form and have provided some edits to ensure alignment with our package.

Staff are also preparing speaking remarks for the Minister/PA at LRC.

If you are comfortable with this package, we can prepare it for signature.

Thanks,
Hillary