

Message

From: Jeannette Briggs [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=148095610F7242F48A5A9DA24B1A8A87-JEANNETTE B]
Sent: 2017-12-05 6:16:57 AM
To: Richard Zaworski [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=74d62df3fb2c4216ad3bf4a4804aeeab-Richard Zaw]; Idalin McKenzie [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d7d5b89cca6a4afa88ab3660c7e6c103-Idalin McKe]
CC: Anthy Lovachis [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=42a8bb25d4b341b6aa9c16b1ddbc0790-Anthy Lovac]; James Hunter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=992c64fe8e394f9aa03d6c20e657c555-James Hunte]; Beverly Nollert [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=77d8dd544ae147549a653b31016467e9-Beverly Nol]; Tam Wagner [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=70ad853871354761a98848de59c4c792-Tam Wagner]; James Hunter [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=992c64fe8e394f9aa03d6c20e657c555-James Hunte]
Subject: Re: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Thanks Richard. Can you please propose edits to the last draft for James to submit.

Regards

Jeannette Briggs
416 997-6364

From: richard.zaworski@ieso.ca
Sent: December 4, 2017 10:54 PM
To: jeannette.briggs@ieso.ca; idalin.mckenzie@ieso.ca
Cc: Anthy.Lovachis@ieso.ca; James.Hunter@ieso.ca; Beverly.Nollert@ieso.ca; tam.wagner@ieso.ca
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Jeannette,

I see the concerns raised wrt 16(4). Current proposed wording suggests distributors will net out metered quantities for ESF's. If the MOE wants to move away from netting of metered quantities because of MC concerns, we can propose wording to net out the dollars instead (i.e. apply credits based on volumes conveyed back into the distribution system – consistent to what we will be doing in the IAM). I will review this with Idalin before our conference call tomorrow.

Richard

Richard Zaworski Sr. Manager, Meter Data Management – Corporate Services
Independent Electricity System Operator (IESO) T: 905 855 6458 | C: 416 432 3216
Station A, Box 4474, Toronto, Ontario, M5W 4E5
Web: www.ieso.ca | Twitter: [IESO Tweets](https://twitter.com/IESO_Tweets) | LinkedIn: [IESO](https://www.linkedin.com/company/ieso)
Conservation: www.saveONenergy.ca | Twitter: [saveONenergyOnt](https://twitter.com/saveONenergyOnt) | LinkedIn: [saveONenergy](https://www.linkedin.com/company/saveONenergy)

Corporate Services collaborates with you to deliver solutions and expertise that enable the IESO to achieve its goals

From: Jeannette Briggs
Sent: December 04, 2017 7:40 PM
To: Idalin McKenzie; Richard Zaworski

Cc: Anthy Lovachis; James Hunter; Beverly Nollert; Tam Wagner
Subject: FW: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Idalin/Richard

Can you please lead the review of the regulations to see if there is any unintended consequences of the IESO asking for O Reg. 429/04 changing net volume to volume and not updating the other regulations similarly. Make sure everyone is kept in the loop.

Richard can you review section 16 and assure yourself that no else will interpret this to be netting LUMs outside the meter contrary to MC current permissions.

Regards,

Jeannette Briggs Director, Settlements - Corporate Services
Independent Electricity System Operator (IESO) | T: 905-855-6364 | C: 416-997-6364
Station A, Box 4474, Toronto, ON, M5W 4E5
Web: www.ieso.ca | Twitter: [IESO_Tweets](https://twitter.com/IESO_Tweets) | LinkedIn: [IESO](https://www.linkedin.com/company/ieso)
Conservation: www.saveONenergy.ca | Twitter: [saveONenergyOnt](https://twitter.com/saveONenergyOnt) | LinkedIn: [saveONenergy](https://www.linkedin.com/company/saveONenergy)

Corporate Services collaborates with you to deliver solutions and expertise that enable the IESO to achieve its goals

From: Ian Richler [<mailto:Ian.Richler@oeb.ca>]
Sent: December 04, 2017 6:07 PM
To: Jeannette Briggs; Smith, Brett (ENERGY); Stephen Cain; Zade, Ryan (ENERGY); James Hunter; Shear, Dan (ENERGY)
Cc: Hunter, Robert A. (ENERGY); Andres Mand; Tam Wagner; Anthy Lovachis; Brian Hewson; Chander, Sunita (ENERGY); Idalin McKenzie; Richard Zaworski; Beverly Nollert
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Further to our phone call this afternoon, here is the list of other regulations that use the term "net volume of electricity":

- O. Reg. 430/04 under the Electricity Act
- O. Reg. 195/17 under the Ontario Fair Hydro Plan Act
- O. Reg. 330/09 under the OEB Act
- O. Reg. 314/15 under the OEB Act

Ian Richler
Counsel
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, ON M4P 1E4
416-440-7676

From: Jeannette Briggs [<mailto:jeannette.briggs@ieso.ca>]
Sent: Monday, December 4, 2017 3:14 PM
To: Smith, Brett (ENERGY) <Brett.Smith@ontario.ca>; Stephen Cain <Stephen.Cain@oeb.ca>; Zade, Ryan (ENERGY) <Ryan.Zade@ontario.ca>; James Hunter <James.Hunter@ieso.ca>; Shear, Dan (ENERGY) <Dan.Shear@ontario.ca>
Cc: Hunter, Robert A. (ENERGY) <Robert.A.Hunter@ontario.ca>; Andres Mand <Andres.Mand@oeb.ca>; Ian Richler <Ian.Richler@oeb.ca>; Tam Wagner <tam.wagner@ieso.ca>; Anthy Lovachis <Anthy.Lovachis@ieso.ca>; Brian Hewson

<Brian.Hewson@oeb.ca>; Chander, Sunita (ENERGY) <Sunita.Chander@ontario.ca>; Idalin McKenzie <idalin.mckenzie@ieso.ca>; Richard Zaworski <richard.zaworski@ieso.ca>; Beverly Nollert <Beverly.Nollert@ieso.ca>
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Please see below IESO responses in red – we will be happy to discuss at the 4 pm call.

Regards,

Jeannette Briggs Director, Settlements - Corporate Services
Independent Electricity System Operator (IESO) | T: 905-855-6364 | C: 416-997-6364
Station A, Box 4474, Toronto, ON, M5W 4E5
Web: www.ieso.ca | Twitter: [IESO_Tweets](https://twitter.com/IESO_Tweets) | LinkedIn: [IESO](https://www.linkedin.com/company/ieso)
Conservation: www.saveONenergy.ca | Twitter: [saveONenergyOnt](https://twitter.com/saveONenergyOnt) | LinkedIn: [saveONenergy](https://www.linkedin.com/company/saveONenergy)

Corporate Services collaborates with you to deliver solutions and expertise that enable the IESO to achieve its goals

From: Smith, Brett (ENERGY) [<mailto:Brett.Smith@ontario.ca>]
Sent: December 04, 2017 2:17 PM
To: Stephen Cain; Zade, Ryan (ENERGY); James Hunter; Shear, Dan (ENERGY)
Cc: Hunter, Robert A. (ENERGY); Andres Mand; Ian Richler; Jeannette Briggs; Tam Wagner; Anthony Lovachis; Brian Hewson; Chander, Sunita (ENERGY)
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Stephen et al: thank you for this.

Since the reg needs to be finalized for EOD tomorrow, I ask that we convene by teleconference at 4pm to discuss. That would give time for us and IESO to review the comments so we can find consensus on the wording.

Invite to follow shortly. Thanks in advance,
Brett

From: Stephen Cain [<mailto:Stephen.Cain@oeb.ca>]
Sent: December 4, 2017 1:18 PM
To: Zade, Ryan (ENERGY); James Hunter; Shear, Dan (ENERGY)
Cc: Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY); Andres Mand; Ian Richler; Jeannette Briggs; Tam Wagner; Anthony Lovachis; Brian Hewson
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage
Importance: High

Ryan,

Our comments, in no particular order, on the Nov. 30 version of the proposed amendments are provided below.

1. Re: the IESO's suggestion to change all references to "net volume of electricity" to "volume of electricity": we note that the term "net volume of electricity" is used in other regulations under the Electricity Act, the OEB Act and the Ontario Fair Hydro Plan Act. Changing the term in this reg. but not others might have unintended consequences. There is no reference to net volume in any of the laws noted above, could the OEB direct the IESO to the corresponding regulations they are specifically referring to so that we might review the potential

unintended consequences. Given that O Reg. 429/04 is only regulation that is consistently challenged for the definition of "net volume", the IESO does not believe there will be unintended consequences. We see the change as beneficial savings to IESO workload.

2. We have no issues with the IESO's suggestion to change the references to "distributor" to "licensed distributor".
3. Re the definition of "electricity storage facility": we see two potential issues. First, in the proposed 5(1.1), the phrase "a facility is not an electricity storage facility if it is connected behind the meter or is connected to any load other than the distribution system of a distributor" is not as clear as it could be. What is the purpose of the word "or"? Wouldn't the same purpose be achieved by saying "... if it is connected to any load other than..."? Second, in 5(1), as we noted in our Nov. 24 comments, it is not clear what "a portion of that electricity" refers to -- is it meant to allow the ESF to use some of the stored energy for its own use (e.g. to keep the lights on in the ESF)? IESO agrees with first statement regarding 'if it is connected . . .' is clearer. The IESO's experience is that storage has less than 100% efficiency so rebate for GA would be for only a portion of injected MWs and why the term "a portion of that electricity is required".
4. Re the IESO's suggested revisions to sections 10, 11 and 12: we do not understand the need to revise any of the formulas for the rates/allocation methodologies in these sections. It is not clear to us why the Ministry's initial proposed revisions to section 16 would not be sufficient to achieve the Ministry's policy intention. (We would expect the total volumes returned to the grid by electricity storage facilities to be inconsequential for the calculation of the overall GA -- and even if there were some impact (e.g. the overall Class B rate were set too low because it didn't account for ESF), that would be sorted out the next month through the regular reconciliation process.) If the IESO is being asked to rebate GA, we need to collect this amount from others paying, regardless of how inconsequential it may appear at the inception of the rebating exercise in order for the GA to be neutral -- collections equals payments.

If revisions to those sections are required, we would note the following:

- a. 10.(1) - the definition of "U.1" has not been modified as per James' comment (JH11).
 - b. 11.(4) - The reason for subtracting the volume of ESF electricity conveyed to the IESO grid during peak hours from "W" is not self-evident. Isn't that electricity (W(c)) also consumed during peak hours in the same way kWh withdrawn from the grid (W(a)) and supplied by EG (W(b)) are? W(b) embedded generation is the amount of generation that offsets the load in the Distributors' service territories (which is used by the IESO to determine the gross Ontario load). Introducing W (c) is to adjust the gross load (i.e. AQEW + Embedded generation and which includes ESF load) to exempt the load re-supplied to the transmission system and distribution by the energy storage facilities (and in this case the Class B ESFs).
5. 16 (4) (Adjustments by Dx re: Class B Consumers who are not low volume consumers): we are not clear on the potential incremental metering requirements for ESFs. The calculations distributors will need to make under s. 16(4) for interval and non-interval metered Class B ESF consumers must be aligned with Measurement Canada compliant metering. Will the distributor be able to "subtract" the volume of electricity returned to the grid, or would the MC compliant meter only record the net amount? In other words, would it be more accurate to require the distributor to "take into account" the volume of electricity returned to the grid? The IESO's understanding is that it will not be net metering -- there will be a requirement for two channel measurement -- one recording withdraw and the other recording injection. Distributors would be required to submit the kWh of injection by ESF
 6. Re the IESO's suggested revision to s. 16(7)2i invoicing requirement: based on the wording of 16(4), we did not understand the Ministry's policy intention for there to be a separate "credit" issued to the customer in respect of the electricity returned to the grid, as the proposed language suggests. While there might be some benefit in requiring the invoice to show what volume of electricity was used to calculate the customer's GA (i.e. to show how the amount was netted in the case of ESFs), we do not think it would be accurate to refer to a separate "credit". Also, to echo our comment #5 above, we do not know whether a distributor would actually know (and

therefore be able to show on the bill) how much electricity was “subtracted” for the purpose of deriving the net amount. In order to rebate for ESF injection, the IESO would set up a separate charge type to pay back TX connected ESF and use the same for Distributors as aggregate value on their IESO invoice. How Distributors pay ESF is up to the OEB.

I am available this afternoon if discussion is needed.

Regards,

Stephen Cain
Policy Advisor
Consumer Protection & Industry Performance
Ontario Energy Board
416 440-8144

From: Zade, Ryan (ENERGY) [<mailto:Ryan.Zade@ontario.ca>]
Sent: Thursday, November 30, 2017 3:52 PM
To: James Hunter <James.Hunter@ieso.ca>; Stephen Cain <Stephen.Cain@oeb.ca>; Shear, Dan (ENERGY) <Dan.Shear@ontario.ca>
Cc: Smith, Brett (ENERGY) <Brett.Smith@ontario.ca>; Hunter, Robert A. (ENERGY) <Robert.A.Hunter@ontario.ca>; Andres Mand <Andres.Mand@oeb.ca>; Ian Richler <Ian.Richler@oeb.ca>; Jeannette Briggs <jeannette.briggs@ieso.ca>; Tam Wagner <tam.wagner@ieso.ca>; Anthy Lovachis <Anthy.Lovachis@ieso.ca>
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Hi everyone:

Here is input from policy. Many thanks Jeannette for your time today; and for our chat a few minutes ago, Stephen. I look forward to the OEB's input and review on this version.

RCZ

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

From: James Hunter [<mailto:James.Hunter@ieso.ca>]
Sent: November 30, 2017 11:24 AM
To: Stephen Cain; Shear, Dan (ENERGY)
Cc: Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY); Zade, Ryan (ENERGY); Andres Mand; Ian Richler; Jeannette Briggs; Tam Wagner; Anthy Lovachis
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Good morning Dan and Stephen,

Attached is a consolidated update of the IESO's suggestions in connection with the proposed amendments to 429/04.

Please note, in particular, that we have included updated suggestions in response to your comments regarding Class A storage facilities in the note below, Stephen. Given the additional administrative complications associated with allowing storage providers to elect to be Class A, the IESO's recommendation is still to include the proposed amendments to 6(1) and 7(1). If a decision is reached to not include those amendments, then we have provided alternative variable definitions to the formulae provided which we believe would achieve the objective of limiting the provisions to Class B providers by construction, as suggested.

Please let us know if you would like to discuss any of the changes we have proposed, or would like any additional clarification. We would be happy to accommodate a meeting on short notice.

With apologies for the delay,

James

James Hunter | Legal Counsel
Independent Electricity System Operator (IESO) | T: 416-969-6378
1600-120 Adelaide Street West, Toronto, ON M5H 1T1
Web: www.ieso.ca | Twitter: IESO_Tweets | LinkedIn: IESO

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

From: Stephen Cain [<mailto:Stephen.Cain@oeb.ca>]
Sent: November 27, 2017 2:18 PM
To: James Hunter; Shear, Dan (ENERGY)
Cc: Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY); Zade, Ryan (ENERGY) (Ryan.Zade@ontario.ca); Andres Mand; Ian Richler
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

James/Dan,

For your consideration, some observations regarding the discussion below:

We infer from Ryan's comment that Class A SFs are not to be eligible for "netting". We infer from the proposed amendments to 6. (1) and 7. (1) that SF consumers and market participants, respectively, would not be permitted to opt for Class A.

Our reading of the changes to 11.(2) and 3. (1) to 3. (4), on the other hand, is that Class A SF participation in "netting" is precluded by construction - i.e. these sections do not apply to Class A - in which case the 'no netting for Class A' requirement appears to be satisfied.

Thanks,

Stephen Cain
Policy Advisor
Consumer Protection & Industry Performance Ontario Energy Board
416 440-8144

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

From: James Hunter [<mailto:James.Hunter@ieso.ca>]
Sent: Monday, November 27, 2017 10:55 AM
To: Zade, Ryan (ENERGY) <Ryan.Zade@ontario.ca>; Shear, Dan (ENERGY) <Dan.Shear@ontario.ca>; Stephen Cain <Stephen.Cain@oeb.ca>
Cc: Smith, Brett (ENERGY) <Brett.Smith@ontario.ca>; Hunter, Robert A. (ENERGY) <Robert.A.Hunter@ontario.ca>
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Thanks Ryan. That makes a lot of sense to me.

Given that, Dan, we would have to include the changes to 6 and 7 noted below.

With thanks, once again.

James

James Hunter | Legal Counsel

Independent Electricity System Operator (IESO) | T: 416-969-6378

1600-120 Adelaide Street West, Toronto, ON M5H 1T1

Web:

<https://na01.safelinks.protection.outlook.com/?url=www.ieso.ca&data=01%7C01%7Cjames.hunter%40ieso.ca%7C3eeb907e963d4b6d03dd08d535cbaa0f%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=l%2FPBt%2BmRSzhe9kn12T8wIBcz1q0xEnPCwZfahGYWPI0%3D&reserved=0> | Twitter: IESO_Tweets | LinkedIn: IESO

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

From: Zade, Ryan (ENERGY) [mailto:Ryan.Zade@ontario.ca]

Sent: November 27, 2017 10:44 AM

To: James Hunter; Shear, Dan (ENERGY); Stephen Cain

Cc: Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: Re: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Thanks James!

Just to interject: only class B will be subject to netting. Policy rationale: Facilities have a choice to opt in/out of class A; if you make that business decision, one would presume it is since you can control your peaks.

R

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: James Hunter

Sent: Monday, November 27, 2017 10:24

To: Shear, Dan (ENERGY); Stephen Cain

Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Hi Dan,

Some additional discussion and reflection over the weekend has resulted in a final concern about scenarios where a storage providers elect to be Class A. All of the proposed changes we provided were on the presumption that storage providers would be Class B only. If we are leaving open the possibility of storage providers opting to become Class A, though, we would have to revisit the relevant formulae in light of some policy direction with respect to how we should approach the offsets.

Alternatively, if our intention is to keep the door closed to Class A storage for the time being, then we would have to make the following additional changes to the act in order to ensure storage providers could not have Class A status:

Section 6 (1)

1. The consumer is not a market participant, an embedded distributor, or a regulated consumer, or an energy storage facility

Section 7 (1)

1. The market participant is neither a licensed distributor, or a regulated consumer, or an energy storage facility

Please let me know if you would like to discuss,

James

James Hunter | Legal Counsel

Independent Electricity System Operator (IESO) | T: 416-969-6378

1600-120 Adelaide Street West, Toronto, ON M5H 1T1

Web:

<https://na01.safelinks.protection.outlook.com/?url=www.ieso.ca&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=nDxgBxJ2vpzJXkXkxh9sctZIWLSudzi43vZE%2BliwuhQ%3D&reserved=0><https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.ieso.ca%2F&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=GQsz%2BL2FiWGifRWMNDoNhPL%2FM%2B7i%2F0NituFo55UHg2Y%3D&reserved=0>

| Twitter:

[IESO_Tweets<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.twitter.com%2Fieso_tweets&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=PAa1fixWb6aW8cP6bTE03G1OCcVrfkc89orglx7t5fY%3D&reserved=0](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.twitter.com%2Fieso_tweets&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=PAa1fixWb6aW8cP6bTE03G1OCcVrfkc89orglx7t5fY%3D&reserved=0)

| LinkedIn:

[IESO<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.linkedin.com%2Fcompany%2Fieso&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=P6clSzIToFcmp1et%2F2TtBPFjHLL2HoD4l3wcC9rQ41k%3D&reserved=0](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.linkedin.com%2Fcompany%2Fieso&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=P6clSzIToFcmp1et%2F2TtBPFjHLL2HoD4l3wcC9rQ41k%3D&reserved=0)

From: Shear, Dan (ENERGY) [mailto:Dan.Shear@ontario.ca]

Sent: November 24, 2017 5:04 PM

To: James Hunter; Stephen Cain

Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Thanks James.

Dan

From: James Hunter [mailto:James.Hunter@ieso.ca]

Sent: November-24-17 4:33 PM

To: Shear, Dan (ENERGY); Stephen Cain

Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Importance: High

Dan,

Please disregard the previous version, and see the attached with an important clarification to the peak demand factor calculation at 11(3)(4).

Thanks again,

James

James Hunter | Legal Counsel

Independent Electricity System Operator (IESO) | T: 416-969-6378

1600-120 Adelaide Street West, Toronto, ON M5H 1T1

Web:

<https://na01.safelinks.protection.outlook.com/?url=www.ieso.ca&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=nDxgBxJ2vpzJXkXkxh9sctZIWLSudzi43vZE%2BliwuhQ%3D&reserved=0><<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.ieso.ca%2F&data=01%7C01%7Cjames.hunter%40ieso.ca%7C04b560d2793d4306eb0b08d533873923%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=v7Bmgb5b1nIYXekxiPhDYyMpFrCedyI%2FId3jAt9ni2s%3D&reserved=0>> | Twitter: IESO_Tweets<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.twitter.com%2Fieso_tweets&data=01%7C01%7Cjames.hunter%40ieso.ca%7C04b560d2793d4306eb0b08d533873923%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=e6GyT9IHowj6IkeUSXadoCrc1O%2BZ5Ib6MZ%2Fe4s0hQt8%3D&reserved=0> | LinkedIn: IESO<<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.linkedin.com%2Fcompany%2Fieso&data=01%7C01%7Cjames.hunter%40ieso.ca%7C04b560d2793d4306eb0b08d533873923%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=5%2BbWF9Qf4Aw6r1aStKhAX%2B4KwEeFlzYNbwu4tr5nGic%3D&reserved=0>>

From: James Hunter

Sent: November 24, 2017 4:01 PM

To: 'Shear, Dan (ENERGY)'; Stephen Cain

Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Dan,

Please see the IESO's suggested changes, with apologies for the delay. We are happy to discuss any questions you may have, or clarifications you may require.

And have a great weekend,

James

James Hunter | Legal Counsel

Independent Electricity System Operator (IESO) | T: 416-969-6378

1600-120 Adelaide Street West, Toronto, ON M5H 1T1

Web:

<https://na01.safelinks.protection.outlook.com/?url=www.ieso.ca&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=nDxgBxJ2vpzJXkXkxh9sctZIWLSudzi43vZE%2BliwuhQ%3D&reserved=0><<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.ieso.ca%2F&data=01%7C01%7Cjames.hunter%40ieso.ca%7C04b560d2793d4306eb0b08d533873923%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=v7Bmgb5b1nIYXekxiPhDYyMpFrCedyI%2FId3jAt9ni2s%3D&reserved=0>> | Twitter: IESO_Tweets<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.twitter.com%2Fieso_tweets&data=01%7C01%7Cjames.hunter%40ieso.ca%7C04b560d2793d4306eb0b08d533873923%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=e6GyT9IHowj6IkeUSXadoCrc1O%2BZ5Ib6MZ%2Fe4s0hQt8%3D&reserved=0> | LinkedIn: IESO<<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.linkedin.com%2Fcompany%2Fieso&data=01%7C01%7Cjames.hunter%40ieso.ca%7C04b560d2793d4306eb0b08d533873923%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=5%2BbWF9Qf4Aw6r1aStKhAX%2B4KwEeFlzYNbwu4tr5nGic%3D&reserved=0>>

From: Shear, Dan (ENERGY) [mailto:Dan.Shear@ontario.ca]

Sent: November 24, 2017 11:55 AM

To: Stephen Cain; James Hunter

Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Yes of course. The deadline is not a hard deadline. Comments by say 1 pm would be fine.

Thanks!

Dan

From: Stephen Cain [mailto:Stephen.Cain@oeb.ca]
Sent: November-24-17 11:48 AM
To: Shear, Dan (ENERGY); James Hunter
Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Dan,

We'll assume the new deadline applies generally.

Thanks,

Stephen Cain
Policy Advisor
Consumer Protection & Industry Performance Ontario Energy Board
416 440-8144

From: Shear, Dan (ENERGY) [mailto:Dan.Shear@ontario.ca]
Sent: Friday, November 24, 2017 10:46 AM
To: James Hunter <James.Hunter@ieso.ca<mailto:James.Hunter@ieso.ca>>; Stephen Cain <Stephen.Cain@oeb.ca<mailto:Stephen.Cain@oeb.ca>>
Cc: Zade, Ryan (ENERGY) <Ryan.Zade@ontario.ca<mailto:Ryan.Zade@ontario.ca>>; Smith, Brett (ENERGY) <Brett.Smith@ontario.ca<mailto:Brett.Smith@ontario.ca>>; Hunter, Robert A. (ENERGY) <Robert.A.Hunter@ontario.ca<mailto:Robert.A.Hunter@ontario.ca>>
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Hi James,

No, that is not an inconvenience. Thanks for letting us know. We are very appreciative that you are taking the time to provide comments.

Regards,

Dan

From: James Hunter [mailto:James.Hunter@ieso.ca]
Sent: November-24-17 10:36 AM
To: Shear, Dan (ENERGY); Stephen.Cain@oeb.ca<mailto:Stephen.Cain@oeb.ca>
Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)
Subject: RE: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Good morning Dan,

The IESO may require an additional 30 min. We hope this is not an inconvenience.

James

James Hunter | Legal Counsel
Independent Electricity System Operator (IESO) | T: 416-969-6378
1600-120 Adelaide Street West, Toronto, ON M5H 1T1

Web:

<https://na01.safelinks.protection.outlook.com/?url=www.ieso.ca&data=01%7C01%7Cjames.hunter%40ieso.ca%7Cee9706da89c648ab598008d535adb3f1%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=nDxgBxJ2vpzJXkXkxh9sctZIWLSudzi43vZE%2BliwuhQ%3D&reserved=0><<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.ieso.ca%2F&data=01%7C01%7Cjames.hunter%40ieso.ca%7C5b983fbc4d9244f473c208d5335c1809%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=fUsF7i0SrKbeRteFmDmwrOqOvdcacd7q%2BJdSBKVLr3Q%3D&reserved=0>> | Twitter: IESO_Tweets<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.twitter.com%2Fieso_tweets&data=01%7C01%7Cjames.hunter%40ieso.ca%7C5b983fbc4d9244f473c208d5335c1809%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=o0vVXMsKy5d06rni%2BW1%2BYNLCT8nlqt5rFFz6UoF4SZs%3D&reserved=0> | LinkedIn: IESO<<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.linkedin.com%2Fcompany%2Fieso&data=01%7C01%7Cjames.hunter%40ieso.ca%7C5b983fbc4d9244f473c208d5335c1809%7C7cd55abd63f243c58f4bd38ea458add8%7C0&sdata=EfYiaA8KtyuJV82iLApIKdenHwgIP3Um5ziGMXNdAE0%3D&reserved=0>>

From: Shear, Dan (ENERGY) [mailto:Dan.Shear@ontario.ca]

Sent: November 23, 2017 12:17 PM

To: James Hunter; Stephen.Cain@oeb.ca<mailto:Stephen.Cain@oeb.ca>

Cc: Zade, Ryan (ENERGY); Smith, Brett (ENERGY); Hunter, Robert A. (ENERGY)

Subject: Proposed Amendments to O. Reg. 429/04 - Energy Storage

Importance: High

Hi James/Stephen,

I am told you are the respective IESO and OEB contacts for sharing discussion drafts of the proposed amendments to O. Reg. 429/04 dealing with electricity storage facilities. A discussion draft of these proposed amendments is attached for your review and comment.

Since we are taking these amendments to the December 11 LRC, timing is very tight, so if you could provide any comments by no later than noon tomorrow, that would be greatly appreciated.

Thanks so much,

Dan

This e-mail message and any files transmitted with it are intended only for the named recipient(s) above and may contain information that is privileged, confidential and/or exempt from disclosure under applicable law. If you are not the intended recipient(s), any dissemination, distribution or copying of this e-mail message or any files transmitted with it is strictly prohibited. If you have received this message in error, or are not the named recipient(s), please notify the sender immediately and delete this e-mail message.

This electronic transmission, including any accompanying attachments, may contain information that is confidential, privileged and/or exempt from disclosure under applicable law, and is intended only for the recipient(s) named above. Any distribution, review, dissemination or copying of the contents of this communication by anyone other than the intended recipient(s) is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return e-mail and permanently delete the copy you have received.

Ce message, transmis par courriel, y compris tout fichier joint, peut contenir des renseignements qui sont confidentiels, qui sont protégés par le secret professionnel ou qui ne peuvent être divulgués aux termes des lois applicables et s'adressent exclusivement au(x) destinataire(s) indiqué(s) ci-dessus. La distribution, la diffusion, l'examen ou la reproduction du contenu du courriel par une autre personne que le(s) destinataire(s) voulu(s) sont strictement interdits. Si vous recevez ce message par erreur, veuillez le supprimer définitivement et en aviser l'expéditeur immédiatement par retour du courriel.

This electronic transmission, including any accompanying attachments, may contain information that is confidential, privileged and/or exempt from disclosure under applicable law, and is intended only for the recipient(s) named above. Any distribution, review, dissemination or copying of the contents of this communication by anyone other than the intended recipient(s) is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return e-mail and permanently delete the copy you have received.

Ce message, transmis par courriel, y compris tout fichier joint, peut contenir des renseignements qui sont confidentiels, qui sont protégés par le secret professionnel ou qui ne peuvent être divulgués aux termes des lois applicables et s'adressent exclusivement au(x) destinataire(s) indiqué(s) ci-dessus. La distribution, la diffusion, l'examen ou la reproduction du contenu du courriel par une autre personne que le(s) destinataire(s) voulu(s) sont strictement interdits. Si vous recevez ce message par erreur, veuillez le supprimer définitivement et en aviser l'expéditeur immédiatement par retour du courriel.

This electronic transmission, including any accompanying attachments, may contain information that is confidential, privileged and/or exempt from disclosure under applicable law, and is intended only for the recipient(s) named above. Any distribution, review, dissemination or copying of the contents of this communication by anyone other than the intended recipient(s) is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return e-mail and permanently delete the copy you have received.

Ce message, transmis par courriel, y compris tout fichier joint, peut contenir des renseignements qui sont confidentiels, qui sont protégés par le secret professionnel ou qui ne peuvent être divulgués aux termes des lois applicables et s'adressent exclusivement au(x) destinataire(s) indiqué(s) ci-dessus. La distribution, la diffusion, l'examen ou la reproduction du contenu du courriel par une autre personne que le(s) destinataire(s) voulu(s) sont strictement interdits. Si vous recevez ce message par erreur, veuillez le supprimer définitivement et en aviser l'expéditeur immédiatement par retour du courriel.

This electronic transmission, including any accompanying attachments, may contain information that is confidential, privileged and/or exempt from disclosure under applicable law, and is intended only for the recipient(s) named above. Any distribution, review, dissemination or copying of the contents of this communication by anyone other than the intended recipient(s) is strictly prohibited. If you have received this communication in error, please notify the sender immediately by return e-mail and permanently delete the copy you have received.

Ce message, transmis par courriel, y compris tout fichier joint, peut contenir des renseignements qui sont confidentiels, qui sont protégés par le secret professionnel ou qui ne peuvent être divulgués aux termes des lois applicables et s'adressent exclusivement au(x) destinataire(s) indiqué(s) ci-dessus. La distribution, la diffusion, l'examen ou la reproduction du contenu du courriel par une autre personne que le(s) destinataire(s) voulu(s) sont strictement interdits. Si vous recevez ce message par erreur, veuillez le supprimer définitivement et en aviser l'expéditeur immédiatement par retour du courriel.