



# ONTARIO ENERGY BOARD

**FILE NO.:** EB-2017-0049 Hydro One Networks Inc.

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**VOLUME:** Volume 11

**DATE:** June 28, 2018

**BEFORE:** Ken Quesnelle Presiding Member and Vice-Chair  
Lynne Anderson Member  
Emad Elsayed Member

EB-2017-0049

THE ONTARIO ENERGY BOARD

Hydro One Networks Inc.

Application for electricity distribution rates  
beginning January 1, 2018 until December 31, 2022

Hearing held at 2300 Yonge Street,  
25th Floor, Toronto, Ontario,  
on Thursday, June 28, 2018,  
commencing at 9:05 a.m.

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VOLUME 11  
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BEFORE:

KEN QUESNELLE	Presiding Member and Vice-Chair
LYNNE ANDERSON	Member
EMAD ELSAYED	Member

A P P E A R A N C E S

JAMES SIDLOFSKY	Board Counsel
MARTIN DAVIES KEITH RITCHIE	Board Staff
GORDON NETTLETON GEORGE VEGH SAM ROGERS	Hydro One Networks Inc. (HONI)
LISA (ELISABETH) DeMARCO JONATHAN MCGILLIVRAY	Anwaatin Inc., Energy Storage Canada (ESC)
SHELLEY GRICE	Association of Major Power Consumers in Ontario (AMPCO)
MICHAEL BUONAGURO	Balsam Lake Coalition (BLC) Arbourbrook Estates
TOM BRETT	Building Owners and Managers Association, Toronto (BOMA)
EMMA BLANCHARD ERIN DURANT SCOTT POLLOCK	Canadian Manufacturers & Exporters (CME)
JULIE GIRVAN	Consumers' Council of Canada (CCC)
BRADY YAUCH TOM LADANYI	Energy Probe Research Foundation
ADA CHIDICHIMO KEON	City of Hamilton
ROBERT WOON	Ontario Sustainable Energy Association (OSEA)
RICHARD STEPHENSON	Power Workers' Union (PWU)
MICHAEL McLEOD	Quinte Manufacturers' Association (QMA)
JAY SHEPHERD MARK RUBENSTEIN	School Energy Coalition (SEC)

A P P E A R A N C E S

BOHDAN DUMKA

Society of United Professionals  
(SUP)

MARK GARNER  
BEN SEGEL-BROWN

Vulnerable Energy Consumers'  
Coalition (VECC)

ALSO PRESENT:

JODY McEACHRAN

Hydro One Networks Inc.

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1 Thursday, June 28, 2018

2 --- On commencing at 9:05 a.m.

3 MR. QUESNELLE: Good morning, everyone, please be  
4 seated. Okay. Are there any preliminary matters this  
5 morning? Anything from you, Mr. Vegh?

6 **PRELIMINARY MATTERS:**

7 MR. VEGH: There are -- there will be a couple from  
8 the witnesses, but first Mr. Rubenstein told me he had a  
9 preliminary matter that perhaps we can address before the  
10 witnesses provide evidence.

11 MR. QUESNELLE: Okay, Mr. Rubenstein.

12 MR. RUBENSTEIN: Good morning, Panel. As you may  
13 recall, I wrote the Board on May 4th regarding the  
14 announcement of a tentative deal between Hydro One and the  
15 Power Workers Union, a tentative deal between the Power  
16 Workers Union and the Board, and requesting certain  
17 information. And in the Board's decision on  
18 confidentiality in Procedural Order No. 6 dated May 18th,  
19 2018, the Board wrote that it will not at this time require  
20 the additional information, but noting that Hydro One had  
21 stated that it anticipates the outcome of the vote by PWU  
22 members on a tentative settlement by June 27, 2018, and the  
23 OEB will provide further direction in this regard once the  
24 outcome of the vote on the tentative settlement is known.

25 Based on a press release issued by Hydro One last  
26 night at about 11:00 p.m., my understanding is that the  
27 Power Workers Union has ratified a two-year collective  
28 agreement with Hydro One, so I would renew my request for

1 the Board to require Hydro One to provide details of the  
2 agreed-upon settlement, as well as information detailing  
3 the cost impacts and especially the cost impacts as it  
4 relates to this application, so the differential between  
5 the agreement, as well as what is -- underlies the  
6 application with respect to the assumptions made.

7 MR. QUESNELLE: Okay, thank you. Mr. Vegh, response?

8 MR. VEGH: Thank you, Mr. Quesnelle.

9 Now, Mr. Rubenstein, I did mention this on the way in  
10 today, and while I don't have an objection, I would  
11 appreciate the opportunity to get instructions from the  
12 people at Hydro One who are responsible for this matter.  
13 As you can tell, this panel is addressing cost allocation  
14 and rate design, so we are seeking those instructions for a  
15 response, and we would be able to provide that after the  
16 morning break if that's acceptable.

17 MR. QUESNELLE: I think it is, thank you. Ms. Girvan?

18 MS. GIRVAN: Yes, I would just like to say that we  
19 support Mr. Rubenstein's request, thanks.

20 MR. QUESNELLE: Okay. Thank you. I don't think we  
21 need to do a show of hands, but that's fine. Okay. Thank  
22 you.

23 Mr. Vegh, anything else?

24 MR. VEGH: Thank you. As I mentioned, the witnesses  
25 do have a couple of points they would like to address.  
26 Maybe I will start with Mr. Andre.

27 MR. ANDRE: Thank you.

28 At the end of the finance panel number 2 -- and this

1 appears on page 110 of transcript Volume 4 -- Ms. Anderson,  
2 you may recall, you had asked about the appropriateness of  
3 an LRAM VA account in the context of a revenue cap  
4 approach, and I think that's a question that's still  
5 outstanding, and so I wanted to address your question.

6 So page 39 of the filing requirements for distribution  
7 cost-of-service applications -- and I have the quote, but I  
8 don't know if we wanted to bring that up if we have it.  
9 Excellent. And it's section 2.461, so page 39, I believe.  
10 Yes, so 2461. So... Okay. If you could just stop it  
11 there.

12 So Ms. Anderson, in there, right under 2461, you see  
13 that says:

14 "The lost revenue adjustment mechanism variance  
15 account, LRAM VA, is a retrospective adjustment  
16 designed to account for differences between  
17 forecast revenue loss attributable to CDM  
18 activity embedded in rates and the actual revenue  
19 loss due to the impacts of CDM programs."

20 And so while HONI's custom IR proposal has been  
21 characterized as a revenue cap -- and I think I have spoken  
22 about this a number of times -- the revenue cap is -- you  
23 know, the proposed custom index is going to be applied to  
24 the prior years' revenue requirement as part of our custom  
25 IR proposal, but as I have also mentioned on a number of  
26 occasions, we are also going to be providing a load  
27 forecast for each of the five years of our application, and  
28 we will be calculating rates in each year, taking into

1 account the load forecast for that year. So the rates that  
2 the Board will ultimately approve and we will be levying to  
3 our customers will have our load forecast assumptions,  
4 which include a certain amount of CDM embedded in them in  
5 the rates that we charge to customers.

6 MS. ANDERSON: So just to clarify, the LRAM VA will be  
7 plus or minus whatever CDM target is in that load forecast?

8 MR. ANDRE: Oh, absolutely, yeah, it would.

9 MS. ANDERSON: And given that we are here, could we  
10 call up -- my notes say Exhibit A-3.1, page 7. And I just  
11 -- this one goes to perhaps where my confusion was, and I  
12 just wanted to clarify something.

13 MR. ANDRE: And what page was that?

14 MS. ANDERSON: Yeah, page 7 there. And in the fourth  
15 bullet it refers to "will update its billing determinants  
16 and cost-of-service parameters in 2021", so am I correct  
17 then to say that the 2021 only refers to cost of capital?

18 MR. ANDRE: No, so as we have talked about, so in the  
19 application for 2020 we are going to update the load  
20 forecast, which results in billing determinants, for '21  
21 and '22. That's part of our ask, is an opportunity to  
22 update the load forecast. So the LRAM VA, of course, at  
23 that point in time would be updated to reflect whatever  
24 assumptions are made in the load forecast that's provided  
25 in 2020 for '21 and '22.

26 MS. ANDERSON: But the way I understood you saying is  
27 that that the billing determinants are being updated each  
28 year.

1 MR. ANDRE: Right, and so the billing determinants are  
2 being updated each year to reflect the forecasts that we  
3 are providing now. So we are not updating the forecasts we  
4 are providing now. So we are giving a forecast for 2019  
5 and 2020, and we will be setting rates in those years to  
6 reflect the forecasts that we are asking you to approve  
7 now.

8 But that forecast that we are asking you to approve  
9 now has a certain amount of CDM embedded in it. In 2020 we  
10 are going to ask the Board per our proposal to update the  
11 forecast for '21 and '22, and that is different, so that is  
12 an actual update to what we propose the load forecast to be  
13 in those years, and it will have different economic  
14 assumptions built into it, different CDM assumptions built  
15 into it, reflecting the best information available at that  
16 time.

17 MS. ANDERSON: So would it be fair to say that in your  
18 proposal you are changing the billing determinants each  
19 year based on your proposal, but you are updating those  
20 amounts for 2021?

21 MR. ANDRE: Yeah, and 2022, yeah; that's correct. The  
22 distinction between changing them versus updating them,  
23 yes; that's correct.

24 MS. ANDERSON: Thank you.

25 MR. VEGH: Thank you, Mr. Andre. And Mr. Boldt, I  
26 understand you have something you'd like to address as  
27 well.

28 MR. BOLDT: Yes, good morning. On Tuesday we had a

1 discussion regarding Hydro One's understanding of the  
2 regulatory requirements that informed the scope of review  
3 of Hydro One's time study and its proposal regarding  
4 miscellaneous service charges. That discussion caused us  
5 to reconsider our interpretation of the OEB's guidance, in  
6 particular the paragraph on page 106 of the OEB's 2006  
7 handbook that states:

8 "A distributor may determine that a particular  
9 service charge -- sorry, a specific service  
10 charge is not necessary, as it considers the  
11 activity to be part of the standard level of  
12 service and the costs are covered or recovered in  
13 its regular distribution rates."

14 As a result, Hydro One proposes to no longer introduce  
15 the following specific charges. They would be rate code 1,  
16 the arrears certificate; rate code 2, the statement of  
17 account; rate code 3, pulling post-dated cheques; rate code  
18 4, duplicate invoices for previous billing; rate code 5,  
19 requests for other billing information; rate code 7,  
20 income-tax letter; rate code 8, notification charge; rate  
21 code 9, account history; rate code 10, credit  
22 reference/credit check; rate code 12, charge to certify a  
23 cheque; rate code 13, legal letter charge; rate code 31(a),  
24 vacant premise move-in with reconnect electrical service at  
25 meter; and rate code 31(b), which is a vacant premise move-  
26 in with reconnect electrical service at a pole.

27 Hydro One sees no reason why these activities should  
28 cease to be part of the standard level of service and

1 proposes to continue to include the costs for these  
2 activities in its distribution rates consistent with its  
3 past service. This change will result in a shift of about  
4 \$341,000 from 2018 external revenues to Hydro One's rates'  
5 revenue requirement, which will not materially impact Hydro  
6 One's customers.

7 Additionally, Hydro One proposes to maintain the  
8 specification service charge it charges for disconnections  
9 and reconnections at the meter, during regular hours and  
10 during after-hours, at the current OEB-approved rates.

11 The rate arising from the time study reflects the cost  
12 of the current practice of sending a crew to perform the  
13 disconnection or reconnection. Since the time of study,  
14 Hydro One has been installing remote disconnect meters  
15 which can be disconnected without dispatching a crew. As  
16 Hydro One continues to increase the number of remote  
17 disconnect meters in service, the overall costs associated  
18 with this activity will decline.

19 Hydro One believes it's appropriate to maintain the  
20 existing rate. This change will result in a reduction to  
21 the external revenue of \$1.3 million, and a revised table 4  
22 of Exhibit E-1, tab 1, schedule 2, has been provided this  
23 morning which reflects these changes, and it will be  
24 submitted electronically.

25 MR. VEGH: Thank you, Mr. Boldt. I believe that's  
26 all.

27 MR. QUESNELLE: Thank you, Mr. Vegh.

28 MS. GIRVAN: Could I just ask a clarification

1 question?

2 MR. QUESNELLE: Yes, Ms. Girvan.

3 MS. GIRVAN: With respect to the disconnection charge,  
4 can you just clarify what you were proposing and what you  
5 are proposing now, the level of the charge?

6 MR. BOLDT: Yes, if you could just give me one second,  
7 please.

8 As you will find in Exhibit H, tab 2, schedule 3.  
9 Sorry, I will just go ahead, then -- okay, here we go. And  
10 in table 1, please. On page 5. Just go to page 5,  
11 please. Thank you.

12 As you can see on this table for rate code 18 and 19,  
13 you'll see that the first column has \$65. And what that is  
14 is a collection disconnect/reconnect at a meter during  
15 regular hours. So currently it's \$65, and our proposal  
16 from our time study in 2018 had that cost going to 120,  
17 which is right beside the 65.

18 And below that, which are rate code 20 and 21, which  
19 is a disconnect/reconnect at a meter after regular hours,  
20 it is currently \$185, and the proposal based on the time  
21 study was 430.

22 MS. GIRVAN: So you are maintaining those charges, the  
23 65 and the 185?

24 MR. BOLDT: Yes, that's what we are proposing.

25 MS. GONSALVES: Great. Thank you very much.

26 MS. ANDERSON: Can I just clarify? It does say  
27 disconnect/reconnect and I know it's a historical term.  
28 When it is charged? Is it upon the reconnect?

1 MR. BOLDT: It's actually charged when you disconnect  
2 the service and then after payment is made, it's charged  
3 again to reconnect the service. So it's charged twice.

4 MS. ANDERSON: Okay, thank you.

5 MR. QUESNELLE: Thank you, Mr. Vegh. Mr. Shepherd?

6 MR. SHEPHERD: Thank you, Mr. Chairman. Mr. Andre, I  
7 just want to follow up on something you said about the load  
8 forecast.

9 If I understand what you're saying, you have basically  
10 a five-year load forecast now, which of course gets older  
11 and older and therefore less correct, if you like, as time  
12 goes on. And you are saying -- you are balancing  
13 predictability against accuracy and in 2020, you are saying  
14 let's reset it, let's recalibrate it to get it right,  
15 right?

16 MR. ANDRE: Recalibrate, yes. But it's -- the primary  
17 driver for that is the fact that in 2021, we are running  
18 the cost allocation model and allocating the costs to the  
19 acquireds.

20 So getting the load forecast right for 2021, the year  
21 that we are going to be doing that cost allocation is the  
22 primary driver for wanting to recalibrate or update the  
23 forecast.

24 MR. SHEPHERD: Excellent. So the point of this -- if  
25 I were the Board Panel, I'd be saying, well, why don't we  
26 just do this every year? Why don't we fix it every year?  
27 And your answer is, well, A, it's a lot of work and we're  
28 not running cost allocation every year, so we do have to do

1 it for 2021, because we have a special purpose, right?

2 MR. ANDRE: Yes, that's correct, that's what's in our  
3 proposal.

4 MR. SHEPHERD: All right, thank you. Now back to our  
5 regularly scheduled programming.

6 **HYDRO ONE NETWORKS INC. - PANEL 7, LOAD FORECASTING &**  
7 **RATE DESIGN, RESUMED**

8 **Henry Andre,**

9 **Bijan Alagheband,**

10 **Clement Li,**

11 **John Boldt; Previously Affirmed**

12 **CROSS-EXAMINATION BY MR. SHEPHERD (CONT'D):**

13 Mr. Chairman, I have a new exhibit which was provided  
14 more than 24 hours ago to my friends, and it is three  
15 pages. One is an excerpt from the 2021 cost allocation  
16 model from the March filing. The second is from the  
17 December filing, the same excerpt. And the front page is a  
18 comparison of data on those two pages.

19 My friends will be familiar with these numbers. Can  
20 you confirm that, Mr. Andre, that you are familiar with  
21 these numbers?

22 MR. ANDRE: Yes, Mr. Shepherd, and I do want to just  
23 highlight a couple of things here.

24 I am familiar with the two models, and I was able to  
25 verify the majority of the numbers in here. But for some  
26 reason -- and I don't know why, Mr. Shepherd -- there are a  
27 couple of rows that aren't consistent with both what we had  
28 put in our PDF in the pre-filed evidence, and I went so far

1 as to look at what was on the Board's WebDrawer in terms of  
2 what was filed, and perhaps it's rows that are not going to  
3 matter, so I will just point them out to you.

4 The total revenue at status quo rates numbers --

5 MR. SHEPHERD: Yes.

6 MR. ANDRE: -- if you add it across the six rate  
7 classes, you show 34,501,000, for example, for March. When  
8 I do that same addition, I get a close number, 33,584,000.  
9 So that's not hugely different. But down at the bottom the,  
10 net income line -- so that's, I guess, the fourth row with  
11 numbers from the bottom. Do you see that line at the  
12 bottom, the net income?

13 MR. SHEPHERD: Yes.

14 MR. ANDRE: So the number for March is again not  
15 consistent with what I saw on the two, both the PDF and the  
16 Excel spreadsheet. I get 4,990,000 instead of 4,073,000 as  
17 you show there.

18 But the next one over, I get negative 799,000 where  
19 you show a positive 18,423. I tried to figure out why the  
20 numbers were coming in different and, like I say, I did go  
21 both to the PDF that's in our pre-filed evidence and the --  
22 so if you go to your -- you have attached copies of what  
23 you saw. And so if you go to that copy, again the issue is  
24 with the number in the net income on allocated assets,  
25 which is like towards the bottom.

26 MR. SHEPHERD: Yes.

27 MR. ANDRE: As I say, that's not what's in the Board's  
28 WebDrawer. I don't know if you were going to refer to that

1 row, but ...

2 MR. SHEPHERD: Mr. Andre, I just took what was in the  
3 Board's WebDrawer and copied it. I provided you with the  
4 spreadsheet that I --

5 MR. ANDRE: Yes, and so I did the same thing, because  
6 I have the spreadsheets that were submitted, so that was my  
7 first place that I went to. And like I say, all of the  
8 other rows add up. But for some reason that row, or those  
9 two rows that I pointed out, weren't adding up.

10 And you know, we could -- so last night, I went to the  
11 WebDrawer and pulled out the actual attachment that's in  
12 the WebDrawer and found exactly what I said, that all of  
13 the rows were adding up except for the ones that I  
14 mentioned.

15 MR. SHEPHERD: Can I suggest, Mr. Andre -- and I will  
16 ask for an exhibit number for this, Mr. Chairman, but I  
17 just wanted to make sure we are clear on it.

18 I am not actually going to refer to either of the rows  
19 you referred to.

20 MR. ANDRE: Okay.

21 MR. SHEPHERD: Can I suggest that in order to get it  
22 accurate, when you are finished here and you are feeling  
23 fresh and at your best, you can -- maybe we can figure out  
24 what the right numbers are and fix this for the Board, even  
25 though I am not referring to those rows.

26 MR. ANDRE: Yes. And, Mr. Shepherd, the information  
27 that's both in the PDF and, as I say, last night I went to  
28 the WebDrawer and pulled it out, so I have the correct

1 numbers. But the correct numbers are in the WebDrawer, so  
2 I am quite comfortable saying that that's where the correct  
3 numbers exist.

4 MR. SHEPHERD: With that caveat, Mr. Chairman, can we  
5 give this an exhibit number?

6 MR. QUESNELLE: Yes.

7 MR. SIDLOFSKY: That will be K11.1.

8 **EXHIBIT NO. K11.1: SEC BUNDLE OF DOCUMENTS (3 PAGES.)**

9 MR. SHEPHERD: And Mr. Andre, before I get to that --  
10 I am going to get to that in a second, but I wonder if you  
11 could turn to page 37 of our compendium, which is K10.7.

12 MR. ANDRE: And what's the reference in that page of  
13 the compendium?

14 MR. SHEPHERD: Oh, JT3.18-19, page 2.

15 So here's what I am trying to understand. So these  
16 numbers, for example the 25.6, that is -- once you have  
17 integrated these acquired utilities, these three, that's  
18 the incremental cost to serve them; right? It's not the  
19 allocated cost, it's the incremental cost, right?

20 MR. ANDRE: Right. That's the incremental cost added  
21 to Hydro One's revenue requirement, correct.

22 MR. SHEPHERD: And that's less than they would be  
23 paying, which is 36.9, and we had some discussion on  
24 Tuesday about what that number is, but right I'm just  
25 looking at this evidence. Your evidence says 36.9, so  
26 let's leave it at that for now. The extra couple million  
27 here or there doesn't matter. That 36.9 is what you say  
28 they would be paying if they hadn't been acquired, right,

1 subject to the adjustments you wanted to make on Tuesday?

2 MR. ANDRE: Right. So just to be clear, so it's -- so  
3 for OM&A, for example, it includes their forecast of OM&A  
4 over that period, it includes their forecast of capital  
5 additions over that period, so, yes, it would be a  
6 reflection, subject to the correction or the items that I  
7 talked about yesterday, it would be a reflection of what  
8 they would be paying had they not been acquired, yes.

9 MR. SHEPHERD: Now, if you turn to K11.1, in your  
10 December allocation -- and you can use the first page, I  
11 think, is more easy for people to understand -- under that  
12 December column you'll see, about the middle of the page,  
13 revenue requirement, 41.2, so that's what your current cost  
14 allocation model allocates; right?

15 MR. ANDRE: Yes, that's correct.

16 MR. SHEPHERD: So that's essentially on similar --  
17 except that it's fully allocated, it's on a similar basis  
18 to the 25.6 and the 36.9.

19 MR. ANDRE: Yes, the 36.9, with the 2.1 for  
20 depreciation, and that other number that I mentioned that I  
21 think is really quite important that I spoke with Ms.  
22 Anderson about yesterday, that .94 for the upstream  
23 distribution costs that are in the 41.2 that you are  
24 pointing me to in my model, versus they are not in the  
25 distribution costs of the embedded, but if you are going to  
26 compare those two numbers, you definitely have to include  
27 those upstream --

28 MR. SHEPHERD: We heard that on Tuesday, but I don't

1 really want to talk about that more today --

2 MR. ANDRE: Okay.

3 MR. SHEPHERD: -- and hear the explanation again,  
4 because if I give you more opportunity you will keep  
5 raising the number again.

6 The -- I want to then go to March, because in March,  
7 using your standard cost allocation now, right, the one  
8 that you are using for everybody else, you allocated  
9 46.2 million; right?

10 MR. ANDRE: Not quite right, Mr. Shepherd. The March  
11 model, the difference between the March and the December is  
12 essentially that in December we had that different  
13 treatment of the distribution stations, and that's what's  
14 primarily driving that difference between 46 and 41, it's  
15 not what the model would -- I can't remember the words you  
16 used, but it's not like the normal allocation. It's the  
17 same allocation methodology other than in December we are  
18 also adjusting for the distribution stations.

19 MR. SHEPHERD: And -- well, okay, and the poles and  
20 everything else, right?

21 MR. ANDRE: But the poles and everything else were  
22 being adjusted in both the March and December models.

23 MR. SHEPHERD: Ah. All right. See, the reason I am  
24 asking this is because the 46.2 allocates costs to the  
25 acquireds on the same basis as all the previous acquireds,  
26 right?

27 MR. ANDRE: No, the 46.2 includes the same adjustment  
28 factors for the poles and the transformers and all of those

1 other US of As, and the December one includes those same  
2 adjustments plus the adjustment for the distribution  
3 station.

4 MR. SHEPHERD: So actually, for the previous acquireds  
5 -- let's just deal with those for now -- the actual costs  
6 for them on -- the actual cost to these acquireds on that  
7 basis would be even higher, right, because there would be  
8 no adjustments for those things, right?

9 MR. ANDRE: Correct, they would have gone into the  
10 normal R1 and R2 classes and would have been allocated  
11 costs per the costs allocated to those classes normally.

12 MR. SHEPHERD: And do you know what that number would  
13 be if you were just looking at how much they would have to  
14 bear in costs if they had the same deal as the previous  
15 acquireds?

16 MR. ANDRE: Well, our proposal is to create new  
17 acquired classes, so if you are asking did we do a run  
18 where we moved all of these acquired into the R1 and R2 and  
19 our normal classes, no, we didn't do that.

20 MR. SHEPHERD: So you have no idea what their costs  
21 would be if you just treated them like everybody else?

22 MR. ANDRE: I think you'd have to be more specific  
23 about treating them as everyone else. As I said, if you  
24 are asking what the costs would have been if they moved  
25 into R1 and R2, no, we don't have that run. If you are  
26 asking what the costs would be if we didn't apply the  
27 adjustment factors, again, we haven't done that run, but  
28 that would be simply a matter of removing the adjustment

1 factors from the model.

2 MR. SHEPHERD: It would certainly be 10- or 20- or  
3 \$30 million higher, right?

4 MR. ANDRE: I don't know about the exact quantum, but,  
5 yes, it would be notably higher.

6 MR. SHEPHERD: All right. So here's why I am asking  
7 the question. So you have got these 92 acquireds that you  
8 have already got in the fold, and then you have got these  
9 three new ones. Is it 92? Is that right? Niagara-on-the-  
10 Lake said 92, but you said 80 plus --

11 MR. ANDRE: 89 -- I thought it was 89, and then there  
12 was another one -- it's around 90, Mr. Shepherd. I don't  
13 know the exact number.

14 MR. SHEPHERD: Let's say 90 and we will pretend it's  
15 right. If -- so those -- the customers in those acquired  
16 utilities are paying -- they have a different deal than  
17 these ones. This is what you said on Tuesday. They have a  
18 different approach to their rates being set. They go into  
19 the regular classes, and so the costs that they are bearing  
20 are significantly higher than these acquireds; right? It  
21 was not just the 46 million, as you say, it's higher than  
22 that.

23 MR. ANDRE: You're correct. The costs are higher, Mr.  
24 Shepherd. The proposal around the integration of those 90  
25 acquired utilities was fully explored as part of the 2006  
26 application, and there would have been different  
27 circumstances around those 90. I mean, some of those 90  
28 utilities included utilities that had 300 customers, 400

1 customers. I think it was known at the time that some of  
2 those really small utilities hadn't done any kind of  
3 upgrade to their assets in a long period of time.

4 So the circumstances and situation around those 90  
5 utilities would have been very different, very different  
6 than what you see here. And unlike in those -- you know,  
7 back in 2006 when we integrated them, where we presented  
8 the proposal in front of the Board -- in fact, there's  
9 initially a proposal presented in 2005 for integrating the  
10 acquired utilities that was rejected, and then we came back  
11 in 2006 with an alternate proposal, fully discussed with  
12 the Board, fully reviewed by intervenors, and that's what  
13 we landed on.

14 For this, we have specific direction on these three  
15 acquireds from the MAADs decision from the Board in terms  
16 of their expectations with regards to the costs that are  
17 going to get allocated to them, so I think the two  
18 situations are quite different.

19 MR. SHEPHERD: Aside from the fact that the Board's  
20 given you specific direction, you are not suggesting that  
21 Brockville and Lindsay and Owen Sound and Thorold and  
22 Trenton are significantly different in terms of  
23 acquisitions from Woodstock, are you?

24 MR. ANDRE: What I am suggesting is that the  
25 integration of those utilities and the rate harmonization  
26 of those utilities was fully discussed with the Board as  
27 part of the 2006 proceeding, reviewed by intervenors, and  
28 we followed the Board's direction at that time with respect

1 to integrating those utilities at that time.

2 MR. SHEPHERD: See, the way I understand this is --  
3 let's say that you would have allocated 60 million to these  
4 guys, these three new acquireds. I just want to have a  
5 number. I know it's not the right number, but let's say  
6 60 million. And -- if you just followed the same rules as  
7 you did the last time around. It seems to me that what you  
8 have got here is they would have paid 36.9 or 39 or  
9 whatever the number is, and instead they have to pay 60,  
10 but the real cost to serve them is only -- the incremental  
11 cost to serve them is only 25.6, so you have a savings, but  
12 they not only don't get the savings, they have to give more  
13 money to subsidize your other customers; isn't that right?

14 MR. VEGH: If I may, sir, Mr. Shepherd seems to be  
15 going back to decisions around 2004, 2005 with respect to  
16 cost allocation that have already been addressed by the  
17 Board, and the issue in this application is whether the  
18 proposed cost allocation and rate design for the new  
19 utilities -- sorry, for the new acquireds is consistent  
20 with the Board's direction.

21 And the witness has said this two or three times, so I  
22 don't see the value of constantly going back and  
23 speculating on what would have happened if the Board made a  
24 different direction with respect to the previously-acquired  
25 utilities, where the Board has already settled that matter.

26 MR. QUESNELLE: I took Mr. Shepherd's last comments to  
27 be a departure from that line of questions, and basically  
28 putting to the witnesses a scenario only talking about the

1 recent acquireds.

2 MR. SHEPHERD: My question is -- this appears to be  
3 unfair to the old ones, the old acquireds, because you are  
4 giving this special deal to the new ones. And that may be  
5 because the deal for the old acquireds was unfair.

6 MR. QUESNELLE: Mr. Shepherd, now you are definitely  
7 going back to what the Board determined. I think if you  
8 pose your questions as to the acquireds -- what's the  
9 comparison doing for us, as far as understanding whether or  
10 not the direction is involved the issue in this case?

11 MR. SHEPHERD: Why don't I go there, and then I think  
12 you'll see that the questions I was asking were critical.

13 Right now, you're proposing to allocate \$41.2 million  
14 of costs. And the way -- what you did to respond to the  
15 Board is you said, okay, first we are going to reduce it  
16 from 60 to 46, wait that's not enough because now we've got  
17 the Orillia decision. Let's reduce it another 5 million  
18 because of the distribution stations, ah, that's still not  
19 enough. So now we have to reduce it by having those  
20 customers at 80 percent, or I think it's 83 percent,  
21 revenue to cost ratio just to keep their rates below what  
22 they would have paid otherwise.

23 Isn't that what you ended up doing? Because  
24 otherwise, you can't -- Hydro One can't get its costs low  
25 enough so that the costs to serve these customers are below  
26 what they would have paid. You can't, right?

27 MR. VEGH: Again, Mr. Shepherd is now creating a  
28 narrative around how these costs were allocated. If he has

1 questions around how the costs were actually allocated, he  
2 can ask those questions.

3 But so far it's been a bit of a speech about how he  
4 believes what was motivating Hydro One's activities.

5 MR. SHEPHERD: Well, maybe my friend Mr. Vegh hasn't  
6 done as much cross as some other people, because one of the  
7 things you do in cross is you put a narrative to the  
8 witness and you say isn't that true, and that's what I just  
9 did.

10 MR. ANDRE: I am happy to answer the question. And I  
11 would start, Mr. Shepherd, by saying, you know, you went  
12 through -- you started here and then I think you mentioned,  
13 and then the Orillia decision came along and you thought,  
14 okay, the costs were too low.

15 I believe during the technical conference we had  
16 specific discussion around that, and there's an  
17 interrogatory where you asked about that. And I  
18 specifically responded that the Orillia decision had  
19 nothing to do with the move to eliminate the distribution  
20 stations.

21 When we looked closer at the costs that were being  
22 allocated to the acquired utilities, what we noticed was  
23 that the amount of distribution stations that were being  
24 allocated was significantly higher than the actual  
25 distribution station asset costs for the acquireds. And we  
26 looked at that and said, does that seem right?

27 And when we looked at the operation of the acquireds,  
28 we thought, okay, the distribution stations really do

1 provide more of a local service. I mean, in the future  
2 there may be some feeders that go outside the -- outside  
3 the acquired utility service territory. But right now,  
4 they provide a local service, very similar to the poles and  
5 the wires and the transformers that are within those  
6 acquired utilities.

7 So that's the driver for making that change. It had  
8 nothing to do with the Orillia decision. And what we  
9 arrive at, the 41 million, is a cost that we believe fairly  
10 captures two things: It captures the incremental costs.  
11 So if you go back to JT3.18-19 and you reference the 25.6  
12 figure, I think you correctly pointed out that figure  
13 represents the only the incremental costs associated with  
14 acquiring the utilities.

15 The 41.2 that we end up allocating to them captures  
16 not only the incremental cost, it captures the fact that  
17 there's upstream distribution facilities that are now being  
18 used to serve the acquired utilities. There are common  
19 shared facilities, things like operating centres, service  
20 centres, call centres, the meter services shop, our head  
21 office building, our IT and billing systems, those are all  
22 shared facilities that now we are allocating a share of  
23 those costs to the acquired customers per the Board's  
24 methodology, and we believe it's appropriate that they  
25 share in those costs and that's where you end up with the  
26 41.2 million.

27 MR. SHEPHERD: And so the bottom line ends up being  
28 that your costs go up by 25.6 to serve these people, but

1 you think that they should pay another 15.7 -- 15.6, sorry,  
2 as their share of the common costs, which basically reduces  
3 the rates for everybody else, right?

4 MR. ANDRE: Yes, that's right.

5 MR. SHEPHERD: Because otherwise, everybody else would  
6 have to pay.

7 MR. ANDRE: That's correct. To the extent we don't  
8 recover a share of those costs from the acquired customers,  
9 we'd be recovering from the other rate classes, that's  
10 right.

11 MR. SHEPHERD: And the thing that happened between  
12 March and December is -- aside from the Orillia decision  
13 which you say has no bearing -- is that somebody had the  
14 bright idea to go look and see whether this was right?

15 MR. ANDRE: Yes. I mean, we were looking at those, you  
16 know, in preparation for the upcoming interrogatories, in  
17 preparation for the hearing. I mean, like we were looking  
18 at, you know, are these numbers correct.

19 MR. SHEPHERD: And so the people in Smiths Falls, for  
20 example, they pay the full amount of all these things.  
21 There's no adjustment for them, right?

22 MR. ANDRE: Yes, that's correct.

23 MR. SHEPHERD: And the people in Trenton, and the  
24 people in Thorold, they all pay the full -- I am trying to  
25 understand why, aside from the fact that the Board is  
26 getting tougher with you about acquisitions, I am trying to  
27 understand why the cost allocation to these acquisitions is  
28 fair and the cost allocation markedly different for the old

1   acquireds is also fair. Which one is no longer fair?

2           MR. QUESNELLE: Mr. Shepherd, I think Mr. Vegh made an  
3   objection to that line as to whether or not the original  
4   acquired costs are fair. Those are acquired entities now.  
5   They are customers of Hydro One, and have been for twelve  
6   years.

7           I recognize -- I think it's valid to have the  
8   comparison of the methodology and point to the differences.  
9   But at this juncture, I think the evidence that has been  
10  given is that there was a conversation and there were Board  
11  decisions back in 2006.

12          MR. SHEPHERD: Mr. Chairman, if Mr. Andre answers my  
13  question that the current cost allocation is fair, then  
14  that's the end of it. By implication, the old one is  
15  unfair, but you're right, there's nothing we can do about  
16  it.

17          But if his answer is neither of them is fair, or  
18  there's a balance, or they're fair in different ways, then  
19  I think this Board should hear it because that relates to  
20  these acquireds.

21          MR. QUESNELLE: In that context, Mr. Andre.

22          MR. ANDRE: I think the allocation to the three  
23  acquireds that we have now follows the Board's underlying  
24  principles that are in the cost allocation model. There  
25  are certain costs that are allocated based on number of  
26  customers and weighted number of bills, and that is the  
27  same as it always has been.

28          And then on top of that, we've adjusted -- we have

1 made an adjustment to what the model would normally  
2 allocate to be consistent with the direction that the Board  
3 has provided with respect to setting rates for these three  
4 acquired classes as part of their MAAD decision.

5 MR. SHEPHERD: I wonder if you could turn to Exhibit  
6 K10.8, which is the materials from the Orillia motion. And  
7 I am looking at page 31, which is part of the Niagara-on-  
8 the-Lake analysis.

9 I am not going to ask you to agree with the analysis;  
10 I know there's lots of things you disagree with in it. But  
11 I am going to ask you about one statement in here. It's  
12 the last two bullets on page 31 -- does do you want to wait  
13 to get it up on the screen?

14 MR. ANDRE: I have it. It's not up on the screen; I  
15 don't know if we want to wait to bring it up on the screen.

16 MR. SHEPHERD: You can read those two bullets while we  
17 are waiting for it to get up on the screen, page 31 of  
18 K10.8. Sorry, page 31 of K10.8. There you go. And right  
19 at the bottom of the page, you see those last two bullets?  
20 So basically they have stated two sort of basic underlying  
21 rate principles, and I am going to ask you whether you  
22 agree with them. The first is, if ownership changes but  
23 the acquired service territory is merged with a lower-cost  
24 service territory then rates in the acquired territory  
25 should fall.

26 And then the second -- the last bullet is, if  
27 ownership changes but the acquired service territory is  
28 merged with a higher cost service territory, then the rates

1 in the acquired territory will rise. This has occurred  
2 with the Hydro One acquisitions.

3 So do you agree that in principle that's correct?

4 MR. ANDRE: I think that's a very generic statement.  
5 And if -- the reference to rates would be if there was a  
6 single rate that would apply to a utility that averaged  
7 everything in that utility, in generic terms, yes, whenever  
8 you merge two things of different values the merged entity  
9 will always in principle come out at the average of the  
10 two, but that's an average rate for the -- all customers in  
11 the utility as a whole. That's not what we have here in  
12 terms of the rates of individual classes within the  
13 acquired utilities, and it doesn't take into account the  
14 cost allocation that happens in terms of allocating costs  
15 to individual classes within the utility.

16 So in terms of a generic statement, I don't disagree,  
17 but I don't think that accurately captures what's happening  
18 with the three acquired utilities that are part of this  
19 application.

20 MR. SHEPHERD: Well, that's right, right, because you  
21 have responded to that, to that problem, if you like, by  
22 saying, well, let's be more precise in our cost allocation,  
23 because not all of our assets are serving these guys, and  
24 let's work within the ranges of revenue-to-cost ratio so we  
25 can get their rates below what they would have been. And  
26 you have done that on purpose, right? You said so.

27 MR. ANDRE: I don't believe I said I have done it on  
28 purpose. I've talked about the cost allocation quite a bit

1 already. With respect to the rate design, what I have  
2 talked about is that with respect to rate design we get  
3 them to within the Board-approved range. And to me, being  
4 within the Board-approved range is essentially charging  
5 them their cost to serve, because it is recognized that  
6 cost allocation isn't perfect, and the Board has set up a  
7 range from 85 to 115 or from 80 to 120 that it considers to  
8 be an acceptable representation of the cost to serve a  
9 particular class.

10 MR. SHEPHERD: So should this Board Panel assume that  
11 indefinitely going forward these acquired classes will have  
12 low revenue-to-cost ratios?

13 MR. ANDRE: I think those revenue-to-cost ratios will  
14 change as a function of the change in the total revenue  
15 requirement that Hydro One as a utility needs and the  
16 drivers of the allocation. So I wouldn't say -- like,  
17 there is not going to be a conscious attempt, Mr. Shepherd,  
18 to keep that ratio at .8. We will let the model do what it  
19 does in terms of allocating costs and comparing those to  
20 revenues, and then whatever revenue-to-cost ratio falls out  
21 of that, if it drops below 80 we will bring it back up to  
22 80. If it climbs above 80 -- if it goes up then that's the  
23 ratio that we would leave it at. We wouldn't bring them  
24 back down to 80. As long as it's in within the range we  
25 would consider it acceptable.

26 MR. SHEPHERD: But on rate base and all the costs  
27 associated with rate base you have said that since you are  
28 not going to be keeping separate track of it, you are going

1 to have these same adjustment factors essentially forever;  
2 right?

3 MR. ANDRE: I think we have put on the record that  
4 there may be a need to revisit it at some point in time in  
5 the far future, certainly not in the next five or ten  
6 years, but I wouldn't say forever. I think we have put on  
7 the record that there may be a need to review these  
8 adjustment factors at some point in the distant future.

9 MR. SHEPHERD: But the bottom line ends up being that  
10 these acquired customers have to bear some of the common  
11 costs of Hydro One, which they wouldn't otherwise have to  
12 bear, but you are keeping that under control with  
13 appropriate techniques, I am not disagreeing, you are  
14 keeping how much of the common costs, the non-incremental  
15 costs, they share, and only to that extent do your other  
16 customers benefit; right? By this acquisition.

17 MR. ANDRE: Right. And so for the common costs -- so  
18 let's be very clear -- the adjustment factors apply to  
19 those assets that we believe are local. When it comes to  
20 common costs, billing and those general admin costs, they  
21 are getting -- these new acquired classes are getting the  
22 same share on the same basis as all the classes.

23 So if it's number of customers, then the number of  
24 customers that they represent, if there's a, you know, a  
25 customer-service-related US of A that's based on number of  
26 customers, they will get the same share as all the other  
27 classes based on number of customers. The adjustment  
28 factors apply only to those assets that we believe are

1 local and serve the local utilities. The other items, like  
2 shared costs, are shared equally among all classes.

3 MR. SHEPHERD: Well, yeah, except that you were very  
4 clear on Tuesday that a large amount of those costs are  
5 subject to the adjustment factor; right? Not only the  
6 direct costs associated with rate base but also OM&A are  
7 directly related to that allocation; right?

8 MR. ANDRE: Agreed. But I just wanted to make the  
9 point that the majority are associated with local assets,  
10 the maintaining the poles, the transformers, and the OM&A  
11 associated with that, but there is, as the allocation  
12 shows, there is not an insignificant amount of costs that  
13 are related to shared services, which is driving the number  
14 that you see, that is allocated to the acquired classes on  
15 the same basis as all other rate classes.

16 MR. SHEPHERD: Can you go to page 43? I am almost  
17 finished, Mr. Chairman, maybe two more minutes. Can you go  
18 to page 43 of that same exhibit, K10.8. And if you see on  
19 item number 4, the -- what the authors of this report say  
20 is the subsidization -- that is, the new customers coming  
21 in at lower incremental costs so that they are picking up  
22 some of the costs you are already spending -- the  
23 subsidization is hiding further inefficiencies of Hydro  
24 One. Basically, what I think their point is -- and I am  
25 going to ask you whether you agree with this -- is if by  
26 acquisitions you are able to get more people to share your  
27 costs, that artificially reduces your rates instead of  
28 actually controlling the costs; is that right?

1 MR. ANDRE: So Mr. Shepherd, I mean, we are towards  
2 the end of the report, and their reference to subsidization  
3 and inefficiencies, I can't comment on how they arrived at  
4 their quantification of the subsidization or how they  
5 defined efficiencies. I know you did provide this report,  
6 and I skimmed through it, but I don't know the underlying  
7 data, so I wouldn't hazard -- I wouldn't want to comment on  
8 their recommendations, because I don't really understand  
9 the basis for this report.

10 MR. SHEPHERD: I am not actually asking about their  
11 recommendation, I am asking about the principle. If you  
12 are able to keep rates down to at least some extent by  
13 doing acquisitions and therefore having lower incremental  
14 costs and having the new customers share some of your  
15 existing costs, is that not true that it reduces your need  
16 to actually reduce your costs because you are getting an  
17 artificial reduction through having more people share them.  
18 Isn't that right?

19 MR. ANDRE: No, I would disagree. I have been  
20 following the other panels, and I would think that they  
21 have been very clear about the steps that the company's  
22 taking to increase productivity and increase efficiencies,  
23 and nothing in what I have heard or what I am aware of in  
24 what they said relates to, we are relying on acquisitions  
25 to drive those productivity efficiencies. I think the  
26 evidence is very clear on that.

27 MR. SHEPHERD: Now, you did one acquisition, Hydro One  
28 Brampton, a long time ago, and you kept them in a separate

1 company so that their local costs were actually ring-  
2 fenced; right?

3 MR. ANDRE: Yes, I am aware that we kept them as a  
4 separate company, and therefore they had their own rates.  
5 The basis and rationale for that, I wasn't privy to that.

6 MR. SHEPHERD: They actually had -- for all the time  
7 they were owned by Hydro One they actually had much lower  
8 rates than any of the Hydro One classes; isn't that right?

9 MR. ANDRE: Yeah, Hydro One Brampton had lower rates  
10 at the time that we acquired them. We kept them separate,  
11 and therefore, by virtue of the fact that they were kept  
12 separate they maintained those lower rates.

13 MR. SHEPHERD: So in order to achieve the Board's goal  
14 of ensuring that the costs for the acquisitions reflect the  
15 costs to serve them, why wouldn't you just simply put them  
16 in a separate company, as you do these acquisitions, the three  
17 you have done, Orillia if it happens, Peterborough if it  
18 happens, all these various things? Why wouldn't you just  
19 put them in a separate company like Brampton so that you  
20 can ring-fence those costs? You will still have some  
21 shared costs, but that would do exactly what the Board told  
22 you, wouldn't it?

23 MR. ANDRE: I am not exactly sure that we are the  
24 right panel to speak to that. I am aware that trying to do  
25 that -- so keeping a different set of books, creating  
26 within our financial systems a different structure,  
27 requiring our field crews who would be in the field driving  
28 through Hydro One's service territory providing their

1 service and then driving into what is an artificial  
2 boundary that exists within the financial system to say,  
3 okay, now I am in this other jurisdiction and now I've got  
4 to track my costs separately because these costs go to a  
5 different business, I think there are certain practical  
6 realities that would really limit our ability to  
7 efficiently integrate these utilities if we created a  
8 separate company.

9 MR. SHEPHERD: The problem is Brampton was big enough  
10 that it basically could have its own service centres and  
11 everything and be treated separately, whereas you couldn't  
12 do with that Norfolk or Haldimand because it's embedded  
13 within a whole bunch of other Hydro One territories, right?

14 MR. VEGH: Again sir, the witness is giving evidence  
15 on cost allocation, not the structure. I believe the  
16 structure of the acquisitions -- I don't know if they were  
17 addressed in the MAADs application; that's a completely  
18 different application.

19 But what they're addressing is how the costs are  
20 proposed to be allocated to these new rate classes, and  
21 they have given the reasons for taking this approach. And  
22 going back to old alternatives like Brampton again I don't  
23 think sheds much light on the appropriateness of the cost  
24 allocation or rate design for the acquired utilities in  
25 light of the Board's direction in applications with respect  
26 to those utilities.

27 MR. SHEPHERD: Mr. Chairman, the problem here is that  
28 these three companies are being -- these three service

1 territories are being given a special deal. And what we  
2 are trying to explore is what's the solution to that.

3 Hydro One's proposed a solution. Let's have this  
4 special cost allocation deal for them, and let's set their  
5 rates in a certain way so that we can achieve the Board's  
6 results. We're saying, well, maybe there are other ways to  
7 do that. We are going to suggest in our final argument  
8 other ways to do that, one of which is to simply tell them  
9 don't buy anymore utilities. That will solve the problem.

10 But I think it's legitimate to ask would you have  
11 problems if you went the Brampton route, which did achieve  
12 the result that the Board wanted, in these cases.

13 MR. QUESNELLE: I think, from a cost allocation point  
14 of view, Mr. Vegh, this would be the panel that could  
15 describe how costs would be captured and used in the  
16 modelling, and also in the tracking of costs and I think  
17 Mr. Andre is talking about some of the barriers.

18 So I think that it is a model Mr. Shepherd is  
19 exploring, and I think Mr. Andre is well suited to respond.

20 MR. SHEPHERD: So the practical reality is that  
21 Brampton and Norfolk, let's say, are different because  
22 Brampton was self contained an Norfolk and Haldimand  
23 essentially are not. Maybe Woodstock might be a little bit  
24 more, but the others are not.

25 MR. ANDRE: As I have indicated, I think the  
26 assumptions around those acquisitions was that they would  
27 be integrated within Hydro One. We would generate  
28 efficiencies by having field crews that could service all

1 of the service territory. We'd be able to operationally  
2 integrate those utilities.

3 So, you know, that's the underlying premise of why we  
4 acquired those utilities. I think to try to create  
5 separate companies like we did for Brampton, yes, that  
6 would be -- that would have a lot of attendant costs with  
7 that.

8 MR. SHEPHERD: Mr. Chairman, I have gone over my time  
9 and I appreciate your indulgence. Thank you very much.

10 MR. QUESNELLE: Thank you, Mr. Shepherd. Mr. McLeod?

11 **CROSS-EXAMINATION BY MR. MCLEOD:**

12 MR. MCLEOD: Thank you, Mr. Chair. Good morning,  
13 panel. My name is Michael McLeod, and I am with the Quinte  
14 Manufacturers Association. So that's, I'm sure you,  
15 Belleville and Trenton; I like to put that out there all  
16 the time.

17 There's two areas of clarification I'd like to explore  
18 with you. The first one is the time study, and the second  
19 one is load forecasting and rate design with respect to  
20 manufacturing.

21 So on the time study, and we know that the Energy  
22 Board asked for a study of service charges back in EB-2013-  
23 0416, and you're undertaking the time study for the  
24 miscellaneous charges.

25 I just wanted to point out here, too, because this  
26 becomes important for us, the Board in its handbook to  
27 utility rate applications in October 13, 2016 -- I don't  
28 think we need to turn this up because I am just going to

1 quote a sentence out of there -- dated October 16, 2016 --  
2 October 13, 2016, I am sorry. In quotes:

3 "The utilities are expected to demonstrate value  
4 for money by delivering genuine benefits to  
5 customers in providing services in a manner which  
6 is responsive to customer preferences."

7 So with that in mind, could you just take me through  
8 the process you went through in the time study? Because we  
9 look at these things as being absolutely critical to the  
10 operation -- to manufacturing operations. And I know when  
11 I went through the evidence, I could see the six or seven  
12 sort of steps you went through in doing it. But could you  
13 just take me to how you actually did that to come up with  
14 the study results that we see? That would be very helpful.

15 MR. BOLDT: Yes, certainly. I was the lead on the  
16 time study, and just without going into it because it talks  
17 about in the back of the study are details and the forms  
18 that we created.

19 What we looked at was the -- we took a bottom-up  
20 approach on this study, being we knew the activities that  
21 needed to be studied based on the handbook. We brought  
22 resources from around the company into the meeting room  
23 that had a vision of the work that needed to be done.

24 We talked about being unbiased, how do you -- you  
25 know, you want to cherry-pick, for a lack of better words,  
26 the good ones, the bad ones, whatever. So we didn't want  
27 that. We wanted a true look at what the whole of the work  
28 we do today.

1           So we developed forms, the very high volume -- if you  
2 will, the customer care functions that were very high  
3 volume. What we did was we picked two days a week when we  
4 were doing those high volume activities, and we recorded  
5 all of them on Tuesdays and Thursdays. The worker actually  
6 filled in a piece of paper that when they started their  
7 work in the morning and they went right to the minute on  
8 the travel that it took them to get to the first site, the  
9 work during the site that they were there, and they  
10 recorded that and they ended when they were going to the  
11 next site to work.

12           And at the end of the day, they PDFed those files and  
13 they sent them into a tracking system where we had people  
14 track those activities.

15           The low-volume work, the things that were very -- we  
16 don't see many of them, we indicated to our field sources  
17 and anybody who was doing it that they were to be done a  
18 hundred percent of the time. And basically, they did the  
19 contact same thing with those entities; the time it took  
20 them to do the work, to travel and do the work, the costs  
21 and the travel time, and we added any material, any trucks  
22 that were there, whether it was large or small trucks and  
23 the appropriate vehicles, whether it was boats, whatever it  
24 may be, and that's what -- how we did the study with  
25 different forms.

26           Related to CIAs, which is another one that's been  
27 modified again with the five or six different types of  
28 CIAs. Different work groups in the organization do the

1 CIAs and what we did was we divided -- we don't need to go  
2 to the forms, but the forms are attached. And whether  
3 there were field visits involved in CIAs or different  
4 working groups, whether they were engineering people  
5 downtown or whether they were people in Barrie, they filled  
6 out different forms based on when the form B comes into the  
7 -- when a person applies for a generation connection, there  
8 were two forms, the administrative work there to get it  
9 into the system, and then it went to the appropriate other  
10 people who filled out their form, and then at the end of  
11 that, it came back to the administrative function and they  
12 had a separate form to fill out.

13 So we basically captured every minute that was being  
14 worked by an employee and/or the equipment and any material  
15 that they were using in the study.

16 MR. McLEOD: Was it just for that group -- let me back  
17 up a second. Has Hydro One done studies in any other parts  
18 of the corporation, or is it sort of -- is this the first  
19 time you've kind of done it in your area, for example?

20 MR. BOLDT: There is a reference, we had some -- I  
21 would have to go and check, but I believe it was our  
22 railway crossings, pipeline crossings, and -- did I say  
23 railway? Water, railway and pipelines, I think is what  
24 they were.

25 MR. McLEOD: Yes, I vaguely remember reading that.

26 MR. BOLDT: And that study was done in 2015. So in  
27 our study, there was -- some of them had no volume. They  
28 are very, very rare, and what we did was we looked back at

1 a previous study and the hours that were in that study were  
2 accepted, and that's how we compiled the cost in those --  
3 on those things, just updating the labour components and  
4 the equipment based on the old study.

5 MR. McLEOD: So the time study was built in-house,  
6 effectively, for your staff. Like, you didn't use an  
7 outside consultant to do this.

8 MR. BOLDT: No, we used an Elenchus consultant to make  
9 sure that we were on the right approach. We have an  
10 independent consultant that reviewed our material, reviewed  
11 our forms, and as we progressed through it at the end of it  
12 he gave us recommendations, which we took and we  
13 implemented to make sure that, you know -- the truth is  
14 when it's an in-house study of time and labour we brought  
15 the people in that were knowledgeable of the workers and  
16 what they were doing and that's how we did it.

17 MR. McLEOD: Okay. And just one other question  
18 related to that. So it's not a time-in-motion study, it  
19 was just a pure time study? So in other words, a time-  
20 motion study, for example, would be to say exactly --  
21 there's the time you apply to do the piece of work, but  
22 inside that amount of time there's other bits of work that  
23 have to be done to build up that time, so it wasn't one of  
24 those kinds of studies. It wasn't that in-depth.

25 MR. BOLDT: I am unclear in what you just said,  
26 because of the activities. Like, we captured the true time  
27 that it took to do from cradle to grave of those individual  
28 jobs.

1 MR. McLEOD: Okay.

2 MR. BOLDT: And we captured every person along the  
3 way, every resource along the way.

4 MR. McLEOD: Okay. So I think what I am doing is  
5 getting down to that more granular stuff inside that period  
6 of time, that one hour that person took. You didn't go in  
7 and say, okay, to work my desk I did this, but I had to get  
8 up and go over there to get something else to come back and  
9 help me do that to help me build up that hour. So it's a  
10 very detailed, more granular -- so I am getting a sense  
11 that you didn't do that, it was just pure time, which is  
12 fine.

13 MR. BOLDT: No, I would disagree with that in the  
14 sense that if a person was getting in their truck and  
15 driving, the 10,000 samples that we had for, like,  
16 disconnects and reconnects, there would be obstacles in  
17 their way in driving, right, there was different weather,  
18 there was different locations, which we captured, but at  
19 the same time when they got to do the work at the site  
20 there would be different obstacles there.

21 So, you know, one might be very easy to go and do, and  
22 the other one, there may be obstacles, like fences. They  
23 may have to go back to their truck --

24 MR. McLEOD: Fair enough.

25 MR. BOLDT: -- so we had a very detailed look at all  
26 the possible things that we feel was in the study to cover  
27 their full -- to be able to do their work properly.

28 MR. McLEOD: Good. Okay. Thank you very much.

1           Just moving on to the load forecasting and rate design  
2 section here. Most of our members are Class B customers,  
3 and I have mentioned it in earlier panels. They want a  
4 closer relationship with the utility that they are working  
5 with, and some feel that they are getting a little bit lost  
6 in the general-service category, that the issues that may  
7 affect them in terms of service quality, power quality, and  
8 things like that are not always getting picked up. It  
9 doesn't mean they are not getting service locally. They  
10 are they are getting great service, and I have mentioned  
11 that before.

12           Is there a concern that -- and I think it has been  
13 touched on a couple times, and Mr. Shepherd was sort of  
14 hinting at it here -- as the utility, Hydro One, gets  
15 bigger and bigger -- it's becoming a massive utility now --  
16 should we be concerned that our customers are kind of  
17 getting lost in the pool of big general-service customers?  
18 In other words, the specific issues that would be  
19 particular to their manufacturing situation and the things  
20 they do and produce -- and typically -- and I have  
21 mentioned this before -- they are a manufacturing hub, so  
22 they kind of feed each other in in certain circumstances --  
23 are they going to get lost in this? Because the feeling is  
24 that they just become an account number and not something  
25 that really the utility should start paying attention to  
26 because they produce highly specialized products, they are  
27 just-in-time businesses, power is an essential service to  
28 them, and they are sort of missing that. So that goes to

1 load forecasting so they know what's coming down the pipe,  
2 and the rate design, how they are designed.

3 Can you just respond to that? That would be helpful.

4 MR. ANDRE: I will offer it up to Mr. Alagheband if he  
5 wants to say something with respect to load forecasting.  
6 But Mr. McLeod, the one thing that popped to mind when you  
7 were speaking is that as a load forecasting and rate design  
8 group, the director of that group, we absolutely get lots  
9 of interaction with either account executives or customer-  
10 service staff. When they hear complaints or issues from  
11 customers like the ones that you are referring to, and if  
12 they feel that there is an issue there that could  
13 potentially be addressed by cost allocation or rate design  
14 or want to understand how cost allocation and rate design  
15 might be influencing those particular customers, we get  
16 inquiries like that all the time, and we respond as a  
17 group, as a cost allocation, rate design, and load  
18 forecasting group, we respond to those inquiries and look  
19 at whether there is something within the load forecasting  
20 or the rates that needs to be revisited in order to address  
21 those concerns.

22 So we are getting -- I mean, not directly, but through  
23 our account executives and our customer-service folks that  
24 deal with your clients.

25 MR. McLEOD: Okay. I think that's where part of our  
26 concern comes, because back in the customer engagement  
27 panel I think I mentioned about, the account executives --  
28 there's thought that there'd be account executives assigned

1 to accounts that are at the 2-megawatt level peak and are  
2 transmission connectible. Some of ours are and some of  
3 ours aren't. And they are looking for something a bit  
4 closer to their issues in their geographic area, and it  
5 doesn't apply across the entire province, and I am sure you  
6 guys know, and you have probably seen it, that  
7 manufacturers do different things in different parts of the  
8 province, and they have different needs when it comes to  
9 power.

10 So there isn't any thought right now that we need to  
11 kind of break this up, and I am using it as a general term,  
12 to focus maybe on more regional or zonal cost allocation  
13 that fits the geography and the nature of manufacturers or  
14 CNI customers in certain geographic areas. So there's  
15 no -- I am getting the sense there's no thought about that  
16 right now. And you wouldn't see that kind of thing coming,  
17 I don't suppose.

18 MR. ANDRE: If we saw them, if we heard issues, as I  
19 said, through our account executives or through our  
20 customer service, like, if customers that don't have  
21 account executives but they go through our call centre and  
22 raise issues through that forum, we would get that  
23 information. And if it's something that we as a company  
24 feel that needs to be addressed because perhaps the way the  
25 rates are set for general service -- large -- general  
26 service demand customers, the larger type customers or  
27 general service energy customers -- if we feel it's  
28 something that needs to be revisited we would typically go

1 to the Board with those and raise those issues with the  
2 Board, and in fact, the Board is right now looking at  
3 whether there needs to be a change to the rate design for  
4 general service customers. They previously looked at  
5 residential customers. They are currently looking at  
6 whether there's changes required on the general service  
7 customers.

8 And so I think part of what drove that need to revisit  
9 it was the kind of issues that you looked at. But in terms  
10 of regional rates, no, you know, a utility, we use postage  
11 stamp rates, so when we develop rates for a class it  
12 applies to all customers in our service territory, and  
13 really that provides the benefit of sharing the costs among  
14 everybody, and, you know, it's arguable how you  
15 characterize what is fair, but, you know, if you didn't do  
16 that there would certainly be parts of our service  
17 territory that are much harder to reach, have much lower  
18 density, whose costs would go substantially up.

19 So, you know, the Board has adopted postage stamp  
20 rates within a utility, and that's the approach that we are  
21 taking. But I think your concerns, whether they are raised  
22 directly -- if it's something that we feel we can do within  
23 the company with respect to rates and load forecasting or  
24 if it's something that we feel needs to go through the  
25 Ontario Energy Board because it's broader industry-wide  
26 issue, those would be the two avenues that we would look at  
27 the issue at.

28 MR. McLEOD: Right. Thank you very much, panel. I

1 appreciate that. And Mr. Chair, I was trying to keep tight  
2 to my time.

3 MR. QUESNELLE: Okay. Thank you, Mr. McLeod. Mr.  
4 Pollock.

5 **CROSS-EXAMINATION BY MR. POLLOCK:**

6 MR. POLLOCK: Thank you very much, Mr. Chair.

7 And good morning, witnesses. I have one line of  
8 questions today, and I think they will be for you, Mr.  
9 Boldt, and they are about external revenues, so  
10 unfortunately I think the questions will be a little bit  
11 complicated by the fact that they are updated this morning.  
12 Do I understand that correctly? The external revenue  
13 amounts were updated?

14 MR. BOLDT: Yes, that's correct.

15 MR. POLLOCK: So what I propose to do is if we could  
16 just clarify on the basis of the earlier evidence and then  
17 we can layer on the impact of the updates. Does that sound  
18 like a plan?

19 MR. BOLDT: Yes, let's try that.

20 MR. POLLOCK: Okay. So if we could go SEC 4,  
21 attachment 2, page 8, please. If we could just scroll down  
22 a bit.

23 So my colleague Ms. Blanchard asked an earlier panel  
24 about this figure and as I understand it, the figure is  
25 supposed to illustrate all of the factors or the drivers of  
26 non-actionable rate increases for 2018; is that correct?

27 MR. ANDRE: So I will give you the response, because I  
28 think the chart that you are pointing to is from a higher-

1 level document. I think I've seen this chart in the  
2 context of business planning, which is really not specific  
3 to Mr. Boldt's area.

4 But, yes, this chart illustrates the different  
5 components that are driving the increase that's proposed in  
6 this rate application at a point in time. I know that  
7 there's been changes, but at that point in time, this  
8 illustrates the various components, that's correct.

9 MR. POLLOCK: Right, and we asked you in J1.4 what the  
10 teal box that .7 percent of the revenue impacts was. And I  
11 understand it, Mr. Boldt, you are co-owner of that  
12 undertaking response and essentially, you said it was  
13 external revenues, correct?

14 MR. BOLDT: Yes. The response says to look at  
15 external revenues, yes.

16 MR. POLLOCK: So that I understand the relationship,  
17 the figure in the exhibit previous, the reason that it's  
18 driving a rates increase would be if external revenues were  
19 trending downwards, correct? So the less external revenues  
20 you're collecting, the more you would need to collect in  
21 rates. That's the relationship, correct?

22 MR. BOLDT: Yes, external revenue offsets the rates,  
23 would reduce them.

24 MR. ANDRE: And if I could just add. So what you  
25 would be seeing there is the difference between other  
26 revenue, as was in our previous application and approved by  
27 the Board, so as it was currently approved for '17, and  
28 then other revenue as it's proposed in the current

1 application.

2 So it would be the difference between other revenue as  
3 approved versus as proposed.

4 MR. POLLOCK: Okay. So could we go to Exhibit E.1,  
5 tab 1, schedule 2, page 2, please?

6 So, Mr. Boldt, you are also listed as a co-owner of  
7 this exhibit, and I note -- sorry, if we could just scroll  
8 up a little bit -- sorry, down a little bit. I want the  
9 see both, thank you.

10 So we have the total external revenue and other in the  
11 bottom row, and 52.7 is the 2017 approved amount. And then  
12 if we go to table 2, the total external revenue and other  
13 is 53.6.

14 So as I understand it, the external revenues are going  
15 up, so shouldn't that be driving rates downwards?

16 MR. BOLDT: Just so I understand your question,  
17 table 2 is for the test years 2018 to 2022. And the  
18 forecast, the total of this table, is made up of regulated  
19 revenues, unregulated revenues, and standard supply service  
20 charges.

21 The individual tables within the revenue exhibit break  
22 that out, but the forecasts that we have based on the  
23 volume that we see, the total revenue is going up.

24 MR. POLLOCK: So my question is specific back to the  
25 original figure that I brought you to. It seems that in  
26 that figure, other revenue impacts, and which I understood  
27 to be external revenues, are a factor that's driving rates  
28 upwards by .7 percent.

1           And my question to you is, if external revenues are in  
2 fact growing between 2017 and 2018, wouldn't that put a  
3 downward pressure on rates rather than requiring a  
4 .7 percent increase?

5           MR. QUESNELLE: Mr. Pollock, would it be okay if we  
6 had the original exhibit you requested back up?

7           MR. POLLOCK: Yes, absolutely; SEC 4, attachment 2,  
8 page 8. So while the witnesses are conferring, the teal  
9 box, the .7 percent for other revenue impacts, as I  
10 understood it was supposed to be driving a rate increase.

11          MR. QUESNELLE: Thank you.

12          MR. BOLDT: So I do agree that the external revenues  
13 are going up, and there could be other costs or other  
14 revenues that are affecting it that isn't seen it drive  
15 down.

16          MR. POLLOCK: Sorry, there's other things within  
17 external revenues, or are you saying there's other things  
18 in the category of other revenues aside from and apart from  
19 external revenues?

20          MR. ANDRE: If I could clarify, yes, you're right. So  
21 in principle, if other external revenues goes up, that  
22 should have a downward pressure. So I what I think that  
23 points to is that other revenue must include other things,  
24 other than external revenues.

25          And I think the best way to deal with that would be to  
26 take an undertaking just to clarify exactly what's in other  
27 revenues, because clearly it goes beyond just external  
28 revenues. There must be another component that's

1 accounting for that.

2 MR. POLLOCK: Yes, if we could get an undertaking for  
3 that I would appreciate it.

4 MR. SIDLOFSKY: That will be J11.1.

5 **UNDERTAKING NO. J11.1: TO CLARIFY THE "OTHER**  
6 **REVENUES", WHETHER IT INCLUDES MORE THAN EXTERNAL**  
7 **REVENUES**

8 MR. POLLOCK: And specifically I am looking to --  
9 because we already sort of asked this question once. But  
10 if you could break out everything that's in other revenues  
11 and if you could show me how they all an add up to  
12 .7 percent, I would appreciate it.

13 And then, to be fair to the witness, if you would like  
14 to explain how your updates this is morning might change  
15 anything we've just talked about, feel free.

16 MR. BOLDT: The updates this morning, let me just go  
17 here.

18 So referring to basically the -- before the update,  
19 what we had was our external revenues. And you can see  
20 those in a previous table, in the previous table.

21 The late payment charge was modified on Tuesday; we  
22 submitted another table there. And it basically in 2018  
23 was reducing the revenue by \$2.1 million.

24 By reducing or removing the rate codes that I spoke of  
25 in my opening statement, in 2018 it's reducing it by  
26 \$341,000. And then by our proposal for rate codes 18, 19,  
27 20 and 21, that we talked about referring back to the \$65  
28 and \$185, that's reducing it by a further \$1.3 million.

1           So the total difference that we are going to see in  
2 revenue is \$3.754 million.

3           MR. POLLOCK:   Okay, thank you very much.   Those are my  
4 questions.

5           MR. QUESNELLE:   Thank you, Mr. Pollock.

6           MS. GIRVAN:   Sorry, can we get that in writing?   I am  
7 having a hard time following, like an update to the  
8 evidence?

9           MR. QUESNELLE:   Mr. Vegh, are we just going to rely on  
10 the transcript for the update, or will there be something  
11 filed?

12          MR. VEGH:   I thought we would just rely on the  
13 transcript because that is in writing now, or it will be in  
14 writing when it's published.   And there is -- the update to  
15 the evidence that was handed out this morning does address  
16 the updated figures.

17          MR. QUESNELLE:   Do you have that, Ms. Girvan?

18          MS. GIRVAN:   I guess I heard 341,000 and 1.3 million,  
19 but then I think I also heard 3 million and I was trying to  
20 reconcile those numbers.

21          MR. BOLDT:   So the late payment charge which we  
22 submitted on Tuesday, the adjustment there was \$2.1 million  
23 for 2018.

24          MS. GIRVAN:   Okay.

25          MR. BOLDT:   Removing the rate codes in my opening  
26 statement that I listed, it was \$341,000.

27          MS. GIRVAN:   Okay.

28          MR. BOLDT:   And then the modification for our proposed

1 charges for disconnects and reconnects during regular and  
2 after-hours, rather than our proposed fees versus reverting  
3 back to the now accepted fees at 65 and 185 is a difference  
4 of \$1.304 million.

5 MS. GIRVAN: Okay. I see that now. So it's 3 --

6 MR. BOLDT: And now the total is 3.754.

7 MS. GIRVAN: Okay, thank you. That's a lot clearer to  
8 me now, thank you.

9 MR. RUBENSTEIN: I'm just wondering if Hydro One could  
10 re -- so put up what was up on the screen during Mr.  
11 Pollock's questions was the other revenue tables for the  
12 forecast of the test period. I was wondering if that could  
13 be updated, because I heard with respect to 2018 changes,  
14 but -- so I understand the proposal is it's five years of  
15 other revenues you're...

16 MR. BOLDT: Yes, Mr. Rubenstein, it is actually -- if  
17 you compare the two tables, the existing and the one we  
18 submitted this morning, it does go from 2018 to 2022. I am  
19 just stating the 2018 changes.

20 MR. QUESNELLE: Were you referring to the other  
21 exhibit that showed the graph?

22 MR. RUBENSTEIN: It was just sort of a simple, what  
23 the other revenues are. I was wondering if that just could  
24 be updated with the --

25 MR. POLLOCK: I think we are talking about Exhibit E1,  
26 tab 1, schedule 2, page 2, to be helpful.

27 MR. QUESNELLE: If you can put that up so we are all  
28 on literally the same page.

1 MR. BOLDT: Sorry, page 2 or Table 2?

2 MS. GIBBONS: Table 2.

3 MR. BOLDT: Yes, page 2, Table 2, right? So that's  
4 '18 to 2022.

5 MR. RUBENSTEIN: And so the information you provided  
6 is a sub-category within that.

7 MR. BOLDT: Yes, correct.

8 MR. RUBENSTEIN: I was wondering if Hydro One could  
9 just provide an update to table 2 so we know the --

10 MR. BOLDT: Yes, I think we could do that, yes.

11 MR. QUESNELLE: Mark that as an undertaking.

12 MR. SIDLOFSKY: J11.2.

13 **UNDERTAKING NO. J11.2: TO PROVIDE AN UPDATE TO TABLE**  
14 **2.**

15 MR. QUESNELLE: Thank you. Mr. Woon.

16 MR. WOON: Thank you, Mr. Chair.

17 MR. QUESNELLE: Do you have a good line of sight  
18 there? Are you okay where you are, or --

19 MR. WOON: I think so. I think the witness panel can  
20 see me.

21 MR. QUESNELLE: Okay.

22 **CROSS-EXAMINATION BY MR. WOON:**

23 MR. WOON: Good morning to the witness panel. My name  
24 is Robert Woon. I am representing OSEA. My questions are  
25 just going to be focusing on the connection impact  
26 assessment charges.

27 So historically the company's had two rate charges for  
28 connection impact assessments, and this year they are

1 proposing to add four more. For reference you can refer to  
2 Exhibit H1, schedule 2, tab 1, page 18 to 21.

3 MR. BOLDT: Sorry, can you repeat that again, please?  
4 Is it H1, tab 2, Schedule 3?

5 MR. WOON: H1, schedule 2, tab 1, page 18. Perfect,  
6 thank you.

7 So what I was saying was the company is now proposing  
8 four new rate codes for connection impact assessments. My  
9 understanding is that this was -- the key factor of this  
10 was a time study that was prepared by the company.

11 So my question was in terms of the time study, so the  
12 rate codes, they're primarily driven by how much staff time  
13 is taken by Hydro One; correct?

14 MR. BOLDT: Correct.

15 MR. WOON: And the time study indicated is educating  
16 what kind of how you develop that rate class; correct?

17 MR. BOLDT: Sorry, the time --

18 MR. WOON: So for example, the connection impact  
19 assessment for net metering, the time study looked at how  
20 long staff took to file that application or process that  
21 application. That's what is developing that rate --

22 MR. BOLDT: Correct, but what we looked at before the  
23 time study is the company that does -- the portion of the  
24 company that does the time studies -- or, sorry, does the  
25 CIAs, there was only two possible codes before, and what  
26 they did was they realized through different models and  
27 over time that they could break it into different costs  
28 because there was different labour components required to

1 do different types of studies.

2 So what we did originally was we had took the  
3 opportunity based on the history and based on what they  
4 knew to say, let's break it into different types of CIAs  
5 and then study the costs or study the hours that it takes  
6 and the individuals to do the work to then compile a cost  
7 that reflects the work to do that individual study.

8 MR. WOON: Understood. So, for example, if we take --  
9 let's stick with the net metering example, so the rate is  
10 \$3,146.11, so to develop that you looked at how much staff  
11 time took to process application, right, and that was based  
12 on the time study. My understanding -- or my question is,  
13 how did you come across -- how did you develop that rate in  
14 terms of the time it took for the application? Was it the  
15 average time? Was it, you know, the maximum time staff  
16 took? How did you come to the hours taken to process that  
17 application?

18 MR. BOLDT: So like I stated earlier, in the time  
19 study there was a set of forms that relate to actually  
20 which CIA it's related to, so in this case the net  
21 metering, when the requests came into the organization,  
22 there's an administrative function, and then from there  
23 it's sent into CRM, to which the staff that are required to  
24 do the work on the net meter study, the CIA, they then  
25 record their time and what level of the organization --  
26 like, what level of the pay scale they are at, and they did  
27 it on all the CIAs that came across and -- or came into the  
28 system. Those forms were uploaded into a database, and

1 then what we did was we took an average of all the data  
2 that was received to do the CIAs based on that net metering  
3 study.

4 MR. WOON: So it's the average time it took to process  
5 the --

6 MR. BOLDT: It is, yes.

7 MR. WOON: So -- and my understanding -- this is going  
8 to be a set fee, so no matter how long the actual  
9 application takes, you are always going to charge that set  
10 rate; correct?

11 MR. BOLDT: Yes, that's correct. That's the proposal  
12 that we have broken it out into the different styles of  
13 CIAs, studied the time, and of these rates, comparable to a  
14 previous, the rates that were available, they have all been  
15 reduced, they have come down.

16 MR. WOON: So theoretically even if an application  
17 took less time to process, they would -- the person who is  
18 applying for the connection impact assessment would still  
19 be charged the standard rate of the 3,100 or 3,200.

20 MR. BOLDT: Yes. All applications will be charged the  
21 same fee.

22 MR. WOON: My next questions refer to the time it  
23 takes to actually get the assessments done. So I  
24 understand you have the 60 days under the Distribution  
25 System Code to get the applications done, and I think you  
26 reference in your application that you basically are near  
27 99 to 100 percent meeting that 60-day deadline.

28 My question is, do you know what the average time it

1 takes to actually process those applications? Is it always  
2 near that 60 days or the average time takes 30 or 40 days?

3 MR. BOLDT: I wouldn't be the right person to ask  
4 that.

5 MR. WOON: That's okay.

6 Mr. Chair, thank you, that's all my questions.

7 MR. QUESNELLE: Thank you, Mr. Woon.

8 Mr. Buonaguro, we will be breaking at about 10:45, so  
9 if you want to -- I know you are scheduled for longer than  
10 that, obviously, so if you want to find a natural break  
11 around that time that would be great.

12 **CROSS-EXAMINATION BY MR. BUONAGURO:**

13 MR. BUONAGURO: Okay. Thank you very much. I will  
14 shuffle around my order to try and come up with a discrete  
15 issue that we can do in the 15 minutes.

16 Good morning, panel. My name is Michael Buonaguro. I  
17 am counsel for the Balsam Lake Coalition, and I have some  
18 questions for you.

19 I have prepared an electronic version of a compendium  
20 to make it easy for whomever it is that's running the video  
21 presentation unit to put my references up, so that's --  
22 there it is. BLC compendium for panel 7, and I assume  
23 that's need an exhibit number.

24 MR. SIDLOFSKY: That will be K11.2.

25 **EXHIBIT NO. K11.2: BLC CROSS-EXAMINATION COMPENDIUM**  
26 **FOR HONI PANEL 7.**

27 MR. BUONAGURO: And I may referring to some exhibit --  
28 or to some documents that were included in our BLC

1 compendium panel number 3, which was given Exhibit No.  
2 K4.5.

3       So I am going to do, because we're -- just before  
4 break, I am going to skip down to -- in BLC compendium  
5 number 7 the -- I believe it's the fourth document. It's  
6 called Undertaking J4.5. It's the third-last or the  
7 fourth-last page in the document. So I think it's page 8.  
8 That's right. Got a full page view, and then just scroll  
9 down. I'm not looking at that one. I'm looking at J4.5,  
10 which is further down in the document, I believe it's page  
11 8 or page 9. There you go, thank you very much.

12       So this was an undertaking that panel 3 gave me in  
13 response to some questions about how the company put -- how  
14 the company formulated its proposal to the provincial  
15 government in support of what turned out to be the  
16 distribution rate protection plan.

17       And I was wondering if you could help me with what  
18 this means, and specifically I am looking at lines 16 to  
19 20. It says:

20               "Based on an analysis of overdue receivables for  
21               residential customers at 2016 year-end ..."

22       I can stop there. In relation to the total number  
23 which is further on of \$88 million, can somebody explain to  
24 me what that means?

25       I can sort of put propositions to you, but it might be  
26 simpler if someone just explains to me what that  
27 represents.

28       MR. ANDRE: Mr. Buonaguro, I note that the undertaking

1 response was provided by Mr. Merali, and I don't think  
2 anybody on this panel would have been involved in pulling  
3 that information.

4 On the face of it, it suggests that it's the  
5 information available for customers as of 2016 year-end.  
6 But beyond that, I don't think I can help you.

7 MR. BUONAGURO: So I am in a bit of a pickle, because  
8 if you don't understand it, I am definitely not going to  
9 understand it.

10 MR. ANDRE: I'm sorry. Like, I would take that on the  
11 face of it, that they've pulled information on overdue  
12 receivables as of 2016 year-end. But in terms of what  
13 overdue receivables are, that's -- you know, nobody in my  
14 group deals with the collection of overdue receivables, so  
15 we wouldn't have information on the details of that.

16 MR. BUONAGURO: Right. So what I am looking for is a  
17 way to understand this undertaking response, and I am  
18 looking to the Board Panel if there's something we can do  
19 here.

20 I note that this panel, for example, was given a  
21 series of written questions by VECC on Tuesday to provide  
22 answers to, rather than taking up Board time. Given how  
23 this undertaking came to me, I would humbly ask the Board  
24 for a similar concession in order to understand what this  
25 means.

26 I can speak more about how this came -- how this  
27 undertaking came about, if you like. But maybe if the  
28 company is agreeable, then we can just agree that I will

1 provide some written questions about this undertaking.  
2 Otherwise, I can explain more why I think it's appropriate.

3 MR. QUESNELLE: Mr. Vegh?

4 MR. VEGH: Just to clarify, I think with respect to  
5 VECC's questions, it wasn't so much a concession but a way  
6 to more efficiently deal with a number of technical  
7 questions. It could have been objected that these  
8 questions looked a lot more like interrogatories than what  
9 we would proceed with in the oral hearing.

10 But I think that if Mr. Buonaguro puts his  
11 clarification -- if he can state the clarification requests  
12 on the record, we can see if the previous panel can provide  
13 that clarification. But I don't really see the value in  
14 another stage of interrogatories with respect to  
15 undertaking responses.

16 MR. QUESNELLE: Could you simply state it on the  
17 record, Mr. Buonaguro?

18 MR. BUONAGURO: Well, I could ...

19 MR. QUESNELLE: Do you have a series of questions?

20 MR. BRETT: I could try. I mean the way -- if I can  
21 give an example. It says here:

22 "Based on analysis of overdue receivables for  
23 residential customers at 2016 year end."

24 If I had a witness here, I would put to them so what  
25 does that mean? Does that mean as of December 31st, 2016,  
26 you were owed \$84 million from customers from outstanding  
27 bills? Presumably, the answer would be yes or no.

28 And then I would go on, well, what billing cycle is

1 that based on, for example, for R1 and R2 and urban  
2 customers that would be their -- presumably from their  
3 December bill, whereas for the seasonal customers, they're  
4 on a quarterly billing cycle, as I understand it, and  
5 therefore their bill would have been from September; so we  
6 are talking about three months versus one month overdue.

7 I would be wanting to understand how many customers in  
8 each class were overdue, because if what they are talking  
9 about is a point in time billing overdue or accounts  
10 receivable for everybody, that could mean customers who  
11 were three months overdue on their bills, but actually only  
12 have a handful of customers, or it could be more than that.  
13 It would have been much, much easier to have done this with  
14 a panel.

15 MR. QUESNELLE: Understood. Perhaps you could go back  
16 and -- how is it you came about being in receipt of this?

17 MR. BUONAGURO: So I asked -- if you look at the  
18 question at the top of the undertaking, it says to provide  
19 an analysis that was done in 2017 in support of the  
20 proposal with respect to prioritization of customers  
21 between R1 and R2 class and resulting in the conclusion by  
22 Hydro One to exclude seasonal customers.

23 And if you recall panel 3, I included the full  
24 transcript of my tech conference exchange with this  
25 particular witness, Mr. Merali, where I asked several times  
26 in several different ways to explain to me how it is that  
27 they decided to exclude seasonal customers from that  
28 particular proposal.

1 MR. QUESNELLE: I recall the exchange, yes.

2 MR. BUONAGURO: Yes, and in the tech conference I got  
3 -- if you look at lines 25 and 26, I got that answer in  
4 slightly different ways. I never got anything close to the  
5 answer that's from 16 to 20.

6 So, I mean, it obviously would have been appropriate  
7 in the technical conference to follow-up on this type of  
8 answer. But I didn't get that opportunity, because I never  
9 got this answer.

10 And then we had the oral hearing on panel 3 and I  
11 pursued it again several times, and there was an objection  
12 by Mr. Nettleton to the whole line of questioning, and the  
13 Board ruled on that, if I can call it that, and I finally  
14 got the suggestion that there was this type of analysis for  
15 the first time, and I got it on Monday, this analysis, and  
16 I don't understand what it means and I there's -- if it  
17 comes close to being what I think it is, I think there are  
18 major holes on it, but I can't follow-up without asking  
19 questions.

20 MR. QUESNELLE: Do you have any proposals, Mr. Vegh?

21 MR. VEGH: Well, we do want to be helpful to the  
22 Panel, and if the Panel from that introduction would find  
23 value in some questions being put in writing with  
24 respect -- factual questions, not argumentative, with  
25 respect to the facts underlying undertaking J4.5, that may  
26 be an effective way to then provide this information to  
27 Mr. Merali, that request.

28 I'd have to have more context from the transcript, et

1 cetera. But if it is a factual clarification of what's  
2 being requested, perhaps we could forward to that  
3 Mr. Merali, and we can provide an answer in writing.

4 MR. QUESNELLE: That would be appreciated. I  
5 recognize your concern, and we certainly don't want to make  
6 this routine. But I think Mr. Buonaguro has certainly  
7 convinced me he has made attempts to get this level of  
8 detail, and it's come after the opportunity has gone to put  
9 it to the witnesses.

10 So I think that if that could be facilitated in  
11 writing, that would be appreciated.

12 MR. VEGH: Thank you, sir.

13 MR. BUONAGURO: Thank you very much, I appreciate it.  
14 So I'll just -- I think we're about 5 minutes before the  
15 break, so I'll just start briefly with sort of an overview  
16 question.

17 MR. SIDLOFSKY: Sorry to interrupt you, Mr. Buonaguro,  
18 but it sounds like that was an undertaking.

19 MR. BUONAGURO: Sure, thank you.

20 MR. SIDLOFSKY: J11.3.

21 MR. BUONAGURO: I am too trusting.

22 MR. SIDLOFSKY: I will help you with that. J11.3.

23 **UNDERTAKING NO. J11.3: TO PROVIDE AN ANALYSIS THAT**  
24 **WAS DONE IN 2017 IN SUPPORT OF THE PROPOSAL WITH**  
25 **RESPECT TO PRIORITIZATION OF CUSTOMERS BETWEEN R1 AND**  
26 **R2 CLASS AND RESULTING IN THE CONCLUSION BY HYDRO ONE**  
27 **TO EXCLUDE SEASONAL CUSTOMERS.**

28 MR. QUESNELLE: Mr. Buonaguro, I take it you will be

1 providing written questions and also, I guess, Mr. Merali  
2 can obviously rely on the conversation on the transcript as  
3 well, thank you.

4 MR. BUONAGURO: Thank you very much. So just to kick  
5 off before the break, if you go to the compendium for  
6 panel 7 and the first document, so that's the document you  
7 have on the screen, and this is from Exhibit H1, tab 1,  
8 schedule 1, page 9.

9 And I did read the transcript from Tuesday, and I did  
10 get here in time to hear some of Mr. Andre's responses to  
11 Mr. Shepherd's questions. And I think -- so part of what I  
12 was going to ask has been covered off, but I just wanted to  
13 confirm.

14 What are included here at table 5 from the evidence  
15 are the revenue to cost ratios and class revenue recovery  
16 from 2017 to 2018, and I have highlighted in my compendium  
17 the Board ranges.

18 I am assuming this is for Mr. Andre. You spoke several  
19 times about the acceptable ranges of revenue cost ratios  
20 for rates from a cost allocation perspective. And as I  
21 understood your conversation with Mr. Shepherd, both on  
22 Tuesday and today, my understanding is that from a purely  
23 cost allocation point of view, if the company charges a  
24 class in rates in revenue -- a rate that recovers anywhere  
25 between -- in this case, residential cost is between 85 per  
26 cent and 115 of the costs that have been allocated to them  
27 through the model.

28 From a cost allocation point of view, that means that

1 they are being charged an appropriate amount?

2 MR. ANDRE: Yes, that would be our position that, you  
3 know, as long as the revenue-to-cost ratio falls within  
4 that range the Board doesn't require any adjustments to be  
5 made in terms of shifting revenue from one class to the  
6 other.

7 MR. BUONAGURO: From the point of view of an  
8 appropriate allocation of costs?

9 MR. ANDRE: Again, yeah, the cost allocation model is  
10 not an exact science, as I have said before, and so if it's  
11 within that range the Board, as I have said, doesn't  
12 require a utility to make any adjustment. It considers  
13 that to be an acceptable range of revenue-to-cost ratios  
14 for, in this case, the residential classes that you've  
15 highlighted.

16 MR. BUONAGURO: And then on Tuesday -- and I will give  
17 you a reference just from page 150 of the transcript, so I  
18 guess that's Volume 10 -- you went on to say when you're  
19 making delivered changes to the revenue-to-cost ratio, so  
20 when you are adjusting rates to increase or decrease the  
21 revenue-to-cost ratios, you call that -- those are changes  
22 that are made at the rate design phase.

23 MR. ANDRE: Yes, that's correct.

24 MR. BUONAGURO: And that the Board might have various  
25 reasons for that -- for doing that, one of the reasons  
26 being that a particular rate falls outside the acceptable  
27 range, and I put acceptable in air quotes.

28 MR. ANDRE: Yeah, the Board -- I mean, the Board has

1 specified the ranges, so the utility would then propose if  
2 it's, you know -- to follow the Board's guidelines it would  
3 propose moving the revenue-to-cost ratios to within the  
4 range, you know, for review by the Board. And -- yeah.

5 MR. BUONAGURO: Right. And then I am assuming one of  
6 the concerns when you are moving -- at the rate design  
7 phase, when you are moving revenue-to-cost ratios around,  
8 one of the things you are looking at are rate impacts,  
9 because anytime you move somebody up in revenue-to-cost  
10 ratios there could be an impact, and same thing when you  
11 are moving people down.

12 MR. ANDRE: Yes, so we would, you know -- an  
13 adjustment to move revenue-to-cost ratios up would mean  
14 that there's revenue available to reduce the revenue-to-  
15 cost ratio for those classes who is have the highest  
16 revenue-to-cost ratios, and then we would calculate the  
17 bill impacts for all classes at the resulting revenue-to-  
18 cost ratio that is being proposed.

19 MR. BUONAGURO: Thank you. That's an opportune time  
20 to break.

21 MR. QUESNELLE: Thank you, Mr. Buonaguro. Let's  
22 break until five after 11:00

23 --- Recess taken at 10:48 a.m.

24 --- On resuming at 11:09 a.m.

25 MR. QUESNELLE: Thank you, please be seated. Okay,  
26 Mr. Buonaguro, you can resume at your will.

27 MR. BUONAGURO: Thank you very much. I should  
28 apologize to the witness panel. I am usually not this far

1 to the left, so don't take anything from it. I am usually  
2 much more central.

3 MR. QUESNELLE: We were all talking about it at the  
4 break.

5 MR. BUONAGURO: That's what I get for coming in late.

6 So I am going to take you to the second document in  
7 compendium 7, it's undertaking JT3.23. And by way of  
8 background, this is -- it refers to an undertaking. So we  
9 had originally asked for this type of analysis in Exhibit  
10 I, tab 49, schedule BLC.5, part B. So this originated in  
11 an interrogatory, and the interrogatory response, the  
12 company refused because of the effort that was involved in  
13 it, if I can summarize.

14 I followed up in the tech conference and asked the  
15 company to reconsider, and the company was able to provide  
16 this undertaking sometime after most of the undertakings  
17 were in to try and help out, so I appreciate that.

18 The original undertaking -- so basically, the  
19 undertaking was to run a cost allocation run where, from  
20 the seasonal class, the seasonal members that would be  
21 classified as urban would be moved to the urban class, the  
22 seasonal customers that were labelled R1 would be moved  
23 into the R1 class, and the seasonal customers that were in  
24 R2 would be left in the seasonal class, and how does that  
25 look like.

26 Now, when I asked the original question, I had asked  
27 you to keep all of the allocation factors for the seasonal  
28 class constant and to keep the proposed fixed and variable

1 charges constant to see what happens.

2 And in your response, you say that that -- part of  
3 that was inappropriate. Basically, you said we weren't  
4 going to keep the seasonal weightings and allocation  
5 factors and so on constant; we were going to redo it to  
6 reflect the characteristics of the remaining seasonal R2  
7 customers, correct?

8 MR. ANDRE: Yes, that's correct. That's -- we  
9 provided that response in the updated undertaking response.

10 MR. BUONAGURO: And my understanding would be that  
11 because I asked you to freeze, if I can call it that, the  
12 fixed and variable charges that you're proposing for that  
13 class, changing the allocation factors in the way that you  
14 describe in the interrogatory, the effect would be to  
15 change the resulting revenue to cost ratio, assuming there  
16 was a material difference in the cost to be allocated to  
17 that class, but it doesn't change -- it obviously doesn't  
18 change the rates since I asked you to freeze them, right?

19 So instead of -- and if we go to the actual answer,  
20 you get a resulting revenue to cost ratio of 86 percent  
21 based on the parameters that you put in. That 86 percent  
22 would be something different if you had done what I asked  
23 you to do, but that would be the major effect?

24 MR. ANDRE: Sorry, let me just have a look, I am not  
25 exactly sure with respect to what you're asking, because I  
26 don't know that -- just give us a sec.

27 So, Mr. Buonaguro, I agreed with what you were saying  
28 in terms of for cost allocation purposes. I mean, for cost

1 allocation a class that consisted of R1 and R2 customers  
2 take a simple thing like their density, the density of  
3 customers would have been one thing.

4 And if you take out the higher density R1, the  
5 customers that are remaining in the seasonal class, in this  
6 case the R2 seasonal customers, would obviously not have  
7 the same density.

8 So from a cost allocation perspective, there were a  
9 number of cost allocation weighting factors where we would  
10 have said, no, the weighting factors for a new season until  
11 class that included just the R2 customers would be  
12 different than a seasonal class that included R2 and R1 and  
13 a very small amount of UR. So I agree with that point.

14 I don't recall any commitment with respect to the rate  
15 design, and that's what I was just trying to confirm. I  
16 think from a rate design perspective, we just followed the  
17 normal rate design.

18 MR. BUONAGURO: Oh, okay.

19 MR. ANDRE: We didn't -- I can't recall now if the  
20 approach was to keep the same fixed to revenue -- fixed to  
21 variable revenue split, or whether we kept the same fixed  
22 charge. But there was no, you know, with respect to  
23 revenue to cost ratios, that's completely flexible.

24 MR. BUONAGURO: I can you tell you that in the  
25 original IR, which was never answered until after the tech  
26 conference, I had asked to keep the fixed and variable  
27 charges in the same amounts. And the only reason I did  
28 that was I wanted to see what kind of shortfalls were

1 created when you moved everybody out, and I was going to  
2 ask you why you didn't do that in your answer. But now I  
3 understand that you knew you didn't do it in the answer, so  
4 that's a slight difference from what I asked.

5 That's fair enough. Now I understand what you have  
6 done here is you've ...

7 MR. ANDRE: Kept the same ratio.

8 MR. BUONAGURO: You kept the same fixed variable  
9 ratio.

10 MR. ANDRE: Right.

11 MR. BUONAGURO: Okay, fair enough, thank you very  
12 much.

13 Now, as an example, what I -- the way I asked you to  
14 do it would have maintained a density factor of 3.6 for the  
15 seasonal class, and instead you say you used all the R2  
16 factors except for one, which I'll ask you about in a  
17 second. Instead you would have used the R2 factor of 4.8  
18 for the density factor.

19 MR. ANDRE: Right, that's correct.

20 MR. BUONAGURO: Okay.

21 MR. ANDRE: So a seasonal class that includes some,  
22 you know, some higher density seasonal customers and some  
23 lower density seasonal customers would have had the -- the  
24 blended density factor would have been 3.4.

25 But if you take out those higher density customers,  
26 then the density weight that most closely approximates a  
27 seasonal class that consists just of R2 customers would be  
28 the same weight as the R2 class.

1 MR. BUONAGURO: Thank you, thank you. And then you did  
2 make -- you said you made one change. So there's one --  
3 from a cost allocation weightings factor and density  
4 factors and so on, there's one material difference, as I  
5 understand it, between the R2 class and the seasonal class  
6 with only R2 customers in it, and that was the meter  
7 weightings, correct -- sorry the meter reading?

8 MR. ANDRE: Correct.

9 MR. BUONAGURO: And I just wanted to confirm. Did you  
10 use the factor that is already in the seasonal class, or  
11 did you create some new factor? I wasn't sure from what  
12 you wrote.

13 MR. ANDRE: Your first assumption. We used the meter  
14 reading weighting factor that currently exists for seasonal  
15 class.

16 MR. BUONAGURO: I apologize these are somewhat  
17 technical questions that would have been better for a  
18 technical conference. But again, it's the way the  
19 interrogatory came in front of me that I have to ask the  
20 questions now, so I apologize.

21 Now, if we take a look at that - the actual  
22 allocation, I actually compared it. So if you go to the  
23 next, the next one is the most -- as I understand it, the  
24 most up to date version from the filing. And you'll see I  
25 highlighted the total revenue requirement as sort of a  
26 sanity check to make sure that it's like for like.

27 So what's -- the answer to the undertaking is based on  
28 the same revenue requirement and other factors that are in

1 your application as filed, the current application,  
2 notwithstanding any changes that have been proposed today  
3 and I think there has been some.

4 So they are like for like, though?

5 MR. ANDRE: Yes, that's correct.

6 MR. BUONAGURO: Okay, thank you. And if we look at  
7 the original one, this is the one from the evidence and I  
8 have a printout for me to help myself, but even I can't  
9 read it.

10 MR. ANDRE: Perhaps we can zoom up the version that's  
11 on the screen.

12 MR. BUONAGURO: Yes. So the one from the evidence is  
13 Exhibit H1, tab 1, schedule 2, and I just have a few  
14 questions on that.

15 If we go down to the box at the bottom that's sort of  
16 a summary of the fixed charges and the movement of fixed  
17 charges -- yes, there it is. Am I right that -- just a  
18 couple questions. Am I right that when we look at the 2018  
19 all fixed charge, that's essentially -- that's what the  
20 fixed charge would be if you went to an all fixed charge,  
21 obviously, right?

22 MR. ANDRE: Yes, that's correct. So if instead of  
23 having a fixed and variable component in 2018, if it was  
24 all fixed, that's the numbers that you would see there.

25 MR. BUONAGURO: And as a -- I think it also serves as  
26 a proxy for an average rate impact because of -- I mean, if  
27 you were to collect from the average consumer in a  
28 particular rate class, in those rate classes, so the

1 average are two customers having the average consumption  
2 would have a bill of \$130.02, notwithstanding DRP and RRRPS  
3 funding?

4 MR. ANDRE: Yes.

5 MR. BUONAGURO: That's generally true. It's a proxy.

6 MR. ANDRE: Yes, the average consumption for the  
7 class. So if you divided the consumption of the class by  
8 the number of customers and that's what we call the  
9 average, then, yes, that would be the amount --

10 MR. BUONAGURO: It may not be the typical customer,  
11 may not be the median --

12 MR. ANDRE: Correct.

13 MR. BUONAGURO: -- but it's the average. Just for  
14 comparison, thank you.

15 Now, looking over at the 2018 proposed fixed charges -  
16 - and I ask about this because in an interrogatory to us,  
17 so at I.5.1.BLC.7 I asked what the consequences would be to  
18 R1 and R2 customers if the revenue-to-cost ratios were  
19 increased. I made the assumption that they would have no  
20 rate impact because of the DRP, the distribution rate  
21 protection plan, and the answer was, well, some of the low-  
22 volume would, and that confused me, because my  
23 understanding is that the -- if you can confirm subject to  
24 check -- that the DRP cap for this rate filing is \$36.43.  
25 Does that sound right?

26 MR. ANDRE: That was the amount at the time the  
27 application was filed, yes.

28 MR. BUONAGURO: Right. And it will go up. It will go

1 up sometime this year. It probably goes up.

2 MR. ANDRE: There was -- that was recently issued,  
3 like, a couple weeks ago, and it has gone up by a margin  
4 amount, 43 cents, so the minimum amount is available --

5 MR. BUONAGURO: Oh. Okay. Sorry.

6 MR. ANDRE: -- and it is a small increase, yes.

7 MR. BUONAGURO: Okay. So -- but if you look at the  
8 2018 proposed fixed charges for the R1 and R2 classes,  
9 which are the classes that get the distribution rate  
10 protection, both of the fixed charges for those -- proposed  
11 fixed charges for those classes are above the DRP cap, so  
12 wouldn't that -- isn't it true then that if you increase  
13 the revenue-to-cost ratios for R1 and R2 anybody in those  
14 classes that's eligible for rate protection would see no  
15 effect on their bill, because the fixed charge is already  
16 over the DRP cap.

17 MR. ANDRE: Yes, I see what you are referring to, so  
18 you are saying that the fixed charge that's proposed in  
19 2018 for the R1 classes is \$37.56, and that is above the  
20 DRP protection amount, and therefore regardless of the  
21 volume they are consuming they would be lowered down to  
22 36.43, so, yes, I would agree with your statement.

23 MR. BUONAGURO: Right, thank you.

24 Now, you had already answered part of this question,  
25 but if you go back to the original -- sorry, the answer to  
26 the undertaking, which was -- yes -- no, that was it.  
27 Thank you.

28 You had already answered my question in part, where

1 you actually didn't hold the fixed charge in volumetric  
2 charges for the new -- I will call it the new seasonal  
3 class at the rate at which you are proposing. There are  
4 some slight changes in there; right? A slight increase, I  
5 think.

6 MR. ANDRE: Sorry, Mr. Buonaguro, could you ask your  
7 question again?

8 MR. BUONAGURO: Sorry. So if you look at the fixed  
9 charge, I have highlighted the column, fixed charge dollars  
10 per month for the new seasonal class 40.77, and you compare  
11 that to the original -- the original proposal. So if you  
12 go down to the original, the original was 40.52. So you  
13 have slightly increased the fixed charge by about 20 cents?

14 MR. ANDRE: Yes, so the increase required to the  
15 revenue requirement when you move the R1 customers --  
16 sorry, the seasonal customers to the R1 class, it changes  
17 the revenue that's collected from each class, and so we  
18 would have -- we wouldn't have been, like I said,  
19 attempting to hold the fixed charge constant, we would have  
20 been applying whatever the fixed to variable split was to  
21 the new revenue that's to be collected from this scenario  
22 where it says "seasonal R2 group of customers."

23 MR. BUONAGURO: All right. I think I am starting to  
24 understand as you're talking what happened then, so  
25 notwithstanding the fact that you didn't do precisely what  
26 I asked you to do, I am not faulting you for it, I  
27 understand, so -- not intentional. But the reason that you  
28 end up -- I'm assuming that the reason you come up with an

1 86 percent revenue-to-cost ratio for the new seasonal class  
2 is that you're -- it's a function of escalating from the  
3 revenue we're collecting from those customers in 2017 and  
4 doing sort of your normal escalation, and that just pops  
5 out at 86 percent revenue-to-cost ratio.

6 MR. ANDRE: Yes, that's exactly right --

7 MR. BUONAGURO: All right.

8 MR. ANDRE: -- you take the revenue that would have  
9 been collected from the seasonal R2 customers at the rates  
10 that they were paying in '17 and then you escalate it based  
11 on the revenue deficiency, and that same increase across  
12 all classes per the Board's model when there is a revenue  
13 deficiency, it gets applied equally to all rate classes.  
14 So this number, this 85, is a -- falls out of the cost  
15 allocation model.

16 MR. BUONAGURO: Right. So from a cost allocation  
17 perspective -- well, first, as we talked about, you  
18 actually went in and fixed the new seasonal rate class, as  
19 I proposed it, only including seasonal R2s, so that it has  
20 proper allocators and weightings and such from your  
21 perspective?

22 MR. ANDRE: Yes, so we would have adjusted -- Mr.  
23 Alagheband's group would have provided the load forecast  
24 for just the R2 seasonal, and we would have moved the load  
25 associated with R1 seasonal and the UR, the very small  
26 amount of UR seasonal to the other classes, and we would  
27 have developed a new coincident peak allocation factor.  
28 So, yes, that's what we did.

1 MR. BUONAGURO: And the second part of that, from a --  
2 and I didn't ask you to do it this way, but as it turns  
3 out, the way you have done it, you ended up with an 86  
4 percent revenue-cost ratio which falls within the  
5 acceptable ranges for residential rate classes?

6 MR. ANDRE: Yes, that's correct.

7 MR. BUONAGURO: Now, if you're looking at the box --  
8 and I guess we should look at the box for the undertaking,  
9 so we are already there -- just -- and this won't be  
10 precise, but if we are looking at what's happening to the  
11 customers that under this scenario are moving out of the  
12 seasonal class and are moving to in this case UR and R1,  
13 the average under 2018 all fixed charge -- and we assume  
14 that's an average customer -- the average UR customer, if  
15 they were using an average amount of volumetric -- an  
16 average throughput per month, would be going from a charge  
17 of \$63.23 per month to just under \$34 per month? It will  
18 be slightly different, because I am using the seasonal R2  
19 as the -- we could go back to the other seasonal class and  
20 get the more precise number, but it's a significant  
21 decrease in their rates.

22 MR. ANDRE: Yes, if -- a seasonal customer that's in  
23 UR -- and just to be clear, that's only about 300 out of  
24 our 160-some-odd-thousand seasonal customers. There's only  
25 about 300 that would go to the UR class, so we're talking  
26 about a very small number.

27 MR. BUONAGURO: Right.

28 MR. ANDRE: But, yes, their fixed charge would drop

1 considerably in moving to the UR class.

2 MR. BUONAGURO: And the actual -- what they would  
3 actually experience depends on their actual throughput, so  
4 some of the customers that are high-volume might actually  
5 get more of a drop, because they are going from a very high  
6 variable charge in the seasonal class to a much lower one  
7 in the UR class.

8 MR. ANDRE: Yes, that would be correct.

9 MR. BUONAGURO: Right. And then again, the customers  
10 that would be moving from the seasonal class to the R1  
11 class, the average would be a drop of \$6 per month or so?  
12 And that's more. There's about 70- or 80,000 customers in  
13 that class --

14 MR. ANDRE: Yes, yes.

15 MR. BUONAGURO: -- that would have that experience?  
16 And again, the customers that are moving from high-volume -  
17 - they're high-volume and moving from seasonal to R2 --  
18 would get -- the gap would be more, they would be saving  
19 more money in the initial stages as long as there is still  
20 a volumetric charge?

21 MR. ANDRE: Right. And so -- you are correct, Mr.  
22 Buonaguro. But if I could just add, of course, so these,  
23 when we have been talking about these reductions in the  
24 revenue that's collected from these seasonal customers when  
25 they move to the R1, I just wanted to make it clear that  
26 that less revenue that you get from the seasonal customers  
27 has to be made up by other classes. So when you look at  
28 the cost allocation rate design, I am sure you have

1 noticed, Mr. Buonaguro, all of the other classes, everybody  
2 pays 1.1 percent more in their rates to accommodate, to  
3 make up for the fact that lower rates are being paid for by  
4 the group of seasonal customers that move to R1 and those  
5 very small amount of seasonal customers that move to UR.  
6 Everybody else pays 1.1 percent more under the scenario  
7 that we ran for you, Mr. Buonaguro.

8 MR. BUONAGURO: Right. So instead of -- let me put it  
9 this way. Instead of the seasonal R2s, the shortfall, as  
10 it's currently proposed, is being paid for by seasonal R1s  
11 and seasonal URs and under this second proposal is being  
12 paid for by everybody. Is that what happens?

13 MR. ANDRE: What do you mean, under --

14 MR. BUONAGURO: To the extent that there is a  
15 shortfall in the revenue collected from R2 seasonal  
16 customers under the existing seasonal class, it's picked up  
17 for by -- it's picked up by the UR seasonals and the R1  
18 seasonals that are in the same rate class with them. And  
19 when you move the UR seasonals and the R1 seasonals out of  
20 the rate class and you have to make up the revenue  
21 shortfall it gets spread out over all the classes. I think  
22 that's all you just said.

23 MR. ANDRE: Yeah, I don't know if it's so much UR and  
24 R1. When they are together as a group, there's a large  
25 portion of revenue because, as you pointed out, there's a  
26 fairly high variable charge, so when they are all together  
27 in one seasonal class, that additional revenue is really  
28 being made up more by, I would say, the higher-volume

1 seasonal customers, as opposed to saying it's the R1 and  
2 R2. It would be the higher-volume seasonal customers, even  
3 if they are in the R2 class.

4 MR. BUONAGURO: Fair enough.

5 MR. ANDRE: Those are the ones that are currently...

6 MR. BUONAGURO: But it includes UR and R1 customers.

7 MR. ANDRE: It would include those, yes, high volume  
8 customers.

9 MR. BUONAGURO: And I think if you go over to -- if  
10 you go over to the, I think it's the last page of the  
11 compendium -- yes, that's it.

12 So if you look at the table there and look at density  
13 factors -- so this is Exhibit I, tab 49, schedule BLC.6,  
14 page 2 of 2, and I am looking at the answer to part A.

15 When you look at under density factors, density factor  
16 1 for UR, density factor 1.9 for R1, and density factor 4.8  
17 for R2, those are the actual density factors for those  
18 classes, correct?

19 MR. ANDRE: Yes, those were the values determined per  
20 the study that was done.

21 MR. BUONAGURO: Right. And the seasonal density  
22 factor in the table, which is 3.47, isn't the actual  
23 density factor that you used for the seasonal class. That  
24 actual factor is 3.6, right?

25 MR. ANDRE: Yes, that's correct. The study that  
26 looked at developing the density factor for all of our rate  
27 classes had points on the chart for UR, R1 and R2, and then  
28 there was a graph that interpolated the value for the

1 seasonal class based on a curve, a best-fit curve.

2 MR. BUONAGURO: Thank you. And the reason I brought  
3 you here, because of the conversation we just had, was to  
4 point out that when you moved -- I assume that when you  
5 moved, for example, R1 seasonal customers out of the  
6 seasonal class and into R1, they went from attracting costs  
7 at a 3.6 density factor to a 1.9 density factor, right?

8 MR. ANDRE: Yes, that's correct.

9 MR. BUONAGURO: So those customers are attracting less  
10 costs when they go to R1?

11 MR. ANDRE: That's correct.

12 MR. BUONAGURO: And that factors into how much they  
13 pay as an R1 customer?

14 MR. ANDRE: That factors into how much the class pays  
15 as an R1 class, yes.

16 MR. BUONAGURO: And the same thing goes for UR?

17 MR. ANDRE: Correct.

18 MR. BUONAGURO: And also -- I think we already talked  
19 about it, when you moved -- sorry, when you reconstructed  
20 the seasonal class to reflect the characteristics of the R2  
21 seasonal customers that were left in it, you used a factor  
22 of 4.8?

23 MR. ANDRE: That's correct.

24 MR. BUONAGURO: And then what I've proposed here is a  
25 different way of arriving at the density factor for the  
26 seasonal class for how ever long it remains intact, so if  
27 you are keeping all these customers in -- I have suggested  
28 as a possibility and I wanted to see what happened if you

1 weighted the cost, what would the effect be.

2 So what you've done here is you've taken the density  
3 factors that each of these groups of customers would  
4 experience in their -- if I could call it their true rate  
5 classes if the seasonal class was eliminated, and weighted  
6 them, you've come up with a factor of 3.47, right?

7 MR. ANDRE: Yes, that's if we weighted the -- if the  
8 density factor for the seasonal class was calculated on the  
9 basis that you had suggested, which was just weighting  
10 based on the number of customers that are in R1 and R2, but  
11 as I indicated the original study didn't use a linear  
12 interpolation between R1 and R2. It had a non-linear trend  
13 line that was developed from the study that derived the  
14 density factors.

15 So in effect, you are saying if you did a linear  
16 interpolation but the 3.6 was based on a non-linear  
17 interpretation per the study.

18 MR. BUONAGURO: Right.

19 MR. ANDRE: So that's the one thing. The other thing  
20 I would point out is that even with the adjustment that  
21 you're suggesting there, that would change the cost that  
22 would get allocated to the class, but it wouldn't change  
23 the revenue to cost ratio such that it would fall out of  
24 the range.

25 So it would have no impact on the rates that you  
26 ultimately charged to the class. It would just show that,  
27 you know, from a revenue to cost ratio perspective, they  
28 have a slightly different number. But it wouldn't impact

1 the rates that the seasonal class would pay, even if we  
2 made the change that you are suggesting.

3 MR. BRETT: Thank you. I think what you are saying  
4 there is -- we can use the actual numbers. Right now, you  
5 are proposing a revenue cost ratio of 1.09 for the seasonal  
6 rate class, I think that's right. I will below it up  
7 myself.

8 MR. ANDRE: Yes, I think that sounds correct.

9 MR. BUONAGURO: Right. And if you were to -- what you  
10 are saying is if you were to change the methodology for  
11 determining the density factor for the seasonal class by  
12 mapping, on a weighted basis, the density factors that  
13 those customers would experience in the UR, R1 and R2  
14 classes, and that brought the density factor down to 3.47,  
15 that would allocate fewer costs to the seasonal class, and  
16 that would change the 1.09 revenue cost ratio. It would  
17 move it up, and I think it moves up to 1.01, or 1.11 or  
18 1.12, something in that range. It moved it up, and that's  
19 the point -- yes.

20 MR. ANDRE: So it would definitely be below 1.15.

21 MR. BUONAGURO: So you are saying that in the normal  
22 course, if somebody's over 1.15 in the residential classes,  
23 you would then almost automatically take steps to reduce  
24 it, right?

25 MR. ANDRE: Yes, that's correct.

26 MR. BUONAGURO: There's a flip side to that, which is  
27 that if other classes are moving up and there's excess  
28 revenue to bring other rate classes down, you start with

1 the rate classes that are the furthest from 1, right?

2 MR. ANDRE: Yes, that's correct.

3 MR. BUONAGURO: So if that happens in this case, if  
4 there's movement from classes that are below 1 moving up,  
5 and you've now increased the revenue to cost ratio for this  
6 class in theory from 1.09 to 1.12, or 1.11, whatever it is,  
7 it would experience -- it would actually attract more of  
8 the excess revenue in reducing its rates.

9 MR. ANDRE: Yes. Yes, I understand what you are  
10 saying and I would agree with that. If there's revenue to  
11 be shifted, the classes that have the highest revenue to  
12 cost ratios would benefit from that revenue shifting.

13 So using a linear interpretation, which is not  
14 consistent with how the density factor -- I just want to  
15 stress that because there was a study that was put  
16 together, and density factors were developed and proposed  
17 as part of that study and as I have said before, the 3.6  
18 reflects a non-linear interpolation which was the best-fit  
19 curve for how the density factors change among the  
20 different classes.

21 MR. BUONAGURO: I think you mis-spoke. You said 1.6;  
22 I think you meant 3.6.

23 MR. ANDRE: Yes, I did.

24 MR. BUONAGURO: Is there anything fundamentally wrong  
25 with the weighting proposal, other than the fact that you  
26 did it different way?

27 MR. ANDRE: It would be inconsistent with the study  
28 that was used to derive the original factors.

1 MR. BUONAGURO: Okay. I want to take you briefly to  
2 -- I have got papers all over my desk here. I get a little  
3 confused because of where I am sitting.

4 I want to take you to compendium 3 briefly. So this  
5 is the compendium that -- the BLC compendium for panel 3, I  
6 should say.

7 MR. VEGH: I am not sure the panel has that  
8 compendium.

9 MR. ANDRE: It's on the screen.

10 MR. BUONAGURO: I want to start with just one cite  
11 that will be on the screen. I highlighted and we talked  
12 about it briefly, and I think panel 3 actually referred  
13 this panel to it.

14 So this is -- if you go to the bookmarks, this is the  
15 third document, the last -- your bookmark doesn't show up  
16 there, I'm sorry.

17 If you go to the third document, page 13, this is the  
18 updated report on the elimination of the seasonal class in  
19 EB-2013-0416 and EB-2016-0315. So past this document, so  
20 next, past this document, thank you. My apologies, there  
21 used to be bookmarks.

22 And then page 13 of the attached document to this  
23 report. There it is, thank you very much.

24 So I think I gave the full cite; this is the third  
25 document in the BLC compendium for panel 3. So this is an  
26 excerpt from the updated report on the elimination of the  
27 seasonal class and I think, Mr. Andre, you were involved in  
28 the preparation of this.

1 MR. ANDRE: Yes, that's correct.

2 MR. BUONAGURO: So I put this quote here that's been  
3 highlighted, and I'll read it again. It says:

4 "During stakeholdering, some participants noted  
5 that total bill increases of the magnitude driven  
6 by the elimination of the seasonal class combined  
7 with the move to all-fixed residential rates  
8 raises customer affordability issues, which could  
9 possibly lead to customers choosing to disconnect  
10 from the grid. This would result in the  
11 stranding of assets and negatively impact all  
12 remaining customers."

13 I put to panel 3 whether they agreed that this was a  
14 concern, and they eventually did give me a form of answer,  
15 but also referred it to -- I think they referred it to you  
16 or to people involved in the preparation, because you or  
17 people that you worked with on this would have been the  
18 ones interacting with the stakeholders.

19 Does Hydro One agree that that's a concern, that once  
20 there's elimination of the seasonal rate class the impact  
21 on the R2 customers, if I think I can -- specifically the  
22 R2 customers in the seasonal class that the concern is  
23 raised with respect to, that that's -- there's  
24 affordability issues and possibly disconnection from the  
25 grid and stranding of assets and so on?

26 MR. ANDRE: Yes, so the -- you can see the paragraph  
27 starts with "during the stakeholdering", so this actually  
28 refers to comments that were made by the OFA, Ontario

1 Federation of Agriculture, and the comments that led to  
2 this is actually in the feedback summary document which is  
3 part of this report, and you're correct, Mr. Buonaguro,  
4 they were referring to R2. And I think what they were  
5 pointing to was this proposal of eliminating the seasonal  
6 class has very significant impacts on the amount that  
7 customers that would -- seasonal customers that would move  
8 to the R2 class, it has very significant impacts on the  
9 amounts that they would pay on their bill and the bill  
10 increases that they would see, and certainly that is  
11 something that's highlighted in the -- in the report, you  
12 know, and it's highlighted that 54 percent of seasonal  
13 customers roughly are R2, so you would have very large  
14 impacts on 54 percent, negative impacts on 54 percent of  
15 seasonal customers, and the 46 percent of seasonal  
16 customers that would move to R1, they would see a slight  
17 benefit. So this was referring to what would happen to R2  
18 customers and the large impact that they would see.

19 Now, with respect to whether that large impact would  
20 drive them to disconnect from the grid, I think that's very  
21 much an individual decision. It depends on, you know, the  
22 extent to which they use their cottage, the extent to which  
23 individual customers can live with a sustained outage  
24 through their electricity, the extent to which they have  
25 solar panels and batteries and other steps that maybe make  
26 them self-sufficient.

27 So I think the, you know, the extent to whether they  
28 would disconnect from the grid, there's lot of factors that

1 go into it, but the affordability issue is definitely  
2 relating to the increase that would -- that the seasonal  
3 customers moving to the R2 class would see.

4 MR. BUONAGURO: Thank you. So I think at least with  
5 at least to affordability issues you are agreeing that  
6 there is an issue with respect to these R2 customers you  
7 have just been talking about? I don't want to  
8 mischaracterize --

9 MR. ANDRE: Yes, that was a key element of what we  
10 highlighted in this report. And you know what? Just so --  
11 because I think it's one page -- is this from your  
12 compendium? Okay. So you wouldn't have it. I was going  
13 to take you to the actual seasonal report that had a table  
14 below that, that had a table in the report that showed for  
15 a low-volume seasonal customer moving to the R2 class --  
16 and by "low-volume" I mean a customer consuming 50 kilowatt  
17 hours per month on average, which may sound low, but which  
18 actually there is about 15,000 seasonal customers that are  
19 down at that level on average across the year, that they  
20 would see a combined impact of 177 percent on their monthly  
21 bill as a result of eliminating the seasonal class and  
22 moving to all fixed charges.

23 The component of just eliminating the seasonal  
24 classes, that on its own adds 126 percent to their bill.  
25 So, yes, I would agree that that could potentially pose an  
26 affordability issue.

27 MR. BUONAGURO: So this report was prepared in Q4  
28 2016? I think that's when this -- I don't -- sorry, you

1 are right, the compendium that I prepared for panel 3 only  
2 had the one page. I did distribute the entire document  
3 when I highlighted it --

4 MR. ANDRE: Yes, so there was an original report in  
5 August of 2015, and then there was an updated report that  
6 was submitted to the Ontario Energy Board in December of  
7 2016.

8 MR. BUONAGURO: Right. And so if we go back to the  
9 proposal by Hydro One to the provincial government that  
10 included proposal for what turned out to be -- turned into  
11 the distribution rate protection plan, this was known by at  
12 least part of Hydro One, this affordability issue, you knew  
13 -- or Hydro One knew that eventually by Board order the R2  
14 class was -- R2 seasonal customers were going to end up in  
15 the R2 class and experience major rate increases and  
16 possibly affordability issues?

17 MR. ANDRE: I don't know if it would have been known  
18 to the individuals putting together the proposal that went  
19 to the government, but, yes, it would have been -- I knew  
20 about it, for example.

21 MR. BUONAGURO: Thank you. And had the DRP been  
22 extended to include -- or, sorry, not exclude seasonal  
23 customers, they would have been afforded the same  
24 protection -- I don't know how to put it, but rates would  
25 have been -- the affordability issues that are raised here  
26 probably would be avoided; is that fair? If DRP funding  
27 was extended to seasonal customers?

28 MR. ANDRE: If the funding was extended to seasonal

1 customers. As I said, I wasn't involved in the document  
2 that made the proposals, but I was involved in the working  
3 group that the Ministry staff put together to implement the  
4 Fair Hydro Plan and work out the details of the Fair Hydro  
5 Plan, and in that working group, certainly the direction  
6 when I attended the group came from the government as far  
7 as wanting to extend the rate protection to just year-round  
8 residential customers who had an affordability issue with  
9 respect to, you know, making a choice between paying the  
10 bill -- you know, paying the food bills or paying the  
11 monthly rent versus paying electricity, and those were the  
12 affordability issues that were highlighted as part of this  
13 working group.

14 MR. BUONAGURO: Thank you for that.

15 Perhaps I can take you to in this same compendium the  
16 beginning of the first document, which is Exhibit I, tab 5,  
17 Schedule BLC.4. Yes. So the actual -- you are at the  
18 attachment, that's it, thank you, and if I look at the  
19 answer to part (d), starting at line 21, it says here:

20 "Hydro One informed Ministry staff of the OEB's  
21 decisions with respect to the elimination of the  
22 seasonal class and potential for seasonal  
23 customers being included in Hydro One's R1 and R2  
24 year-round resident rate classes."

25 It sounds from that that Hydro One -- and I am  
26 assuming this may involve you because you were involved in  
27 working with Ministry staff -- Hydro One made sure that  
28 seasonal class -- seasonal customers weren't included in

1 the DRP as a result of the elimination of the seasonal  
2 class.

3 MR. ANDRE: No, I -- Mr. Buonaguro, that  
4 characterization that we made sure that it wouldn't be --  
5 what we made sure was that Ministry staff was aware that R1  
6 and R2 -- sorry, seasonal customers could potentially or  
7 would be moving to the R1 and R2 classes, and made them  
8 aware with respect to, if you're writing the regulations  
9 you need to be aware of this fact. So if you want to  
10 accurately reflect your intent of what this DRP is -- or  
11 who is to benefit from the DRP protection, we just wanted  
12 them to be aware that the seasonal customers would be part  
13 of the R1 and R2 residential classes going forward, subject  
14 to the Board's review of the seasonal report that we've put  
15 forward, and subject to their final decisions with respect  
16 to that report.

17 MR. BUONAGURO: Thank you. Those are my questions,  
18 and I point out that I am bang on time.

19 MR. QUESNELLE: Perfect, thank you, Mr. Buonaguro.

20 Ms. Girvan? Oh, Mr. McGillivray, sorry, skipping  
21 over.

22 **CROSS-EXAMINATION BY MR. MCGILLIVRAY:**

23 MR. MCGILLIVRAY: Thank you, Mr. Chair. My name is  
24 Jonathan McGillivray. I am co-counsel with Lisa DeMarco in  
25 this proceeding, and we are here today on behalf of Energy  
26 Storage Canada. Energy Storage Canada has a compendium,  
27 and I wonder if we could have that marked as an exhibit.

28 MR. SIDLOFSKY: That will be K11.3.

1           **EXHIBIT NO. K11.3: ENERGY STORAGE CANADA CROSS-**  
2           **EXAMINATION COMPENDIUM FOR HONI PANEL 7.**

3           MR. MCGILLIVRAY: Thank you.

4           Witnesses, I would like to ask you today about the  
5 system benefits of general storage as they relate to rate  
6 design and load forecasting, and to do that I would like to  
7 address three areas: Connection impact assessment charges,  
8 rate classes, and the Anwaatin settlement proposal.

9           I'd like to start with page 4 of my compendium if we  
10 could go there. This is an attachment to undertaking  
11 response JT3.15 summarizing the EPRI Hydro One energy  
12 storage project, and I'd like to discuss with you some of  
13 the key elements of that project as they relate  
14 specifically to rate design and load forecasting. And I  
15 see on this page some of the key elements of the project.

16           Would you agree with me that they include developing a  
17 distribution needs assessment to identify, define, and  
18 quantify the value of services that energy storage can  
19 provide?

20           MR. BOLDT: Yes, I see that.

21           MR. MCGILLIVRAY: Identifying energy storage system  
22 requirements to adequately address distribution needs?

23           MR. BOLDT: I am sorry, where is that?

24           MR. MCGILLIVRAY: It's the second bullet under key  
25 elements, and developing energy storage deployment  
26 scenarios for insulation in relation to distribution  
27 feeders.

28           MR. BOLDT: Yes, I see that.

1 MR. MCGILLIVRAY: Would you agree that these is part  
2 of the scope of this EPRI-Hydro One project?

3 MR. VEGH: The panel can speak for themselves, but I  
4 am not sure they are fully aware -- this is not one of  
5 their exhibits. They're addressing cost allocation and  
6 rate design, so I am not sure if they can shed a lot of  
7 light on this EPRI project.

8 But I will have the panel speak for itself.

9 MR. BOLDT: Yes, I am not familiar with this as far as  
10 the evidence that I am giving, speaking of the evidence.

11 MR. MCGILLIVRAY: Thank you. I am hoping to address  
12 the system benefits of energy storage as they relate to  
13 rate design and load forecasting ultimately. This document  
14 is helpful because on the second page, it addresses some of  
15 the system benefits of energy storage which are also  
16 discussed elsewhere in the evidence in particular.

17 So we could move down to that second page, if that  
18 would be helpful. If we just scroll up a little bit from  
19 that figure, there's a list of -- this list is titled  
20 benefits, if you go up a little bit further on the bottom  
21 of the previous page.

22 So we can run through these, if that is okay?

23 MR. BOLDT: Sure.

24 MR. MCGILLIVRAY: Looking at that page, some of the  
25 benefits of energy storage are that it has potential  
26 benefits to increase reliability and reduce the cost of  
27 electricity. You'd agree that's a potential benefit of  
28 energy storage?

1 MR. BOLDT: Yes. It says potential benefit, yes.

2 MR. MCGILLIVRAY: Continuing on that page,  
3 applications of energy storage include frequency  
4 regulation, energy, security and outage management, power  
5 quality, voltage VAR management and peak shaving. Would  
6 you agree that's a potential benefit?

7 MR. BOLDT: Yes.

8 MR. MCGILLIVRAY: And energy storage may be especially  
9 important as a flexibility asset to address the integration  
10 of variable generation, such as wind and solar. Yes?

11 MR. BOLDT: Yes.

12 MR. MCGILLIVRAY: And has the potential as solution  
13 for remote communities.

14 MR. BOLDT: Yes.

15 MR. MCGILLIVRAY: And energy storage may be a tool to  
16 improve asset utilization at the distribution level, and  
17 potentially for diurnal energy arbitrage.

18 MR. BOLDT: Yes.

19 MR. MCGILLIVRAY: I see at the bottom of page 4, if we  
20 go back up a little bit, that Hydro One estimated in March  
21 that the project would be completed and ready for use in  
22 September 2018. I know you are not responsible for this  
23 project, but do you have any idea of the status of the  
24 report?

25 MR. BOLDT: No, I don't.

26 MR. MCGILLIVRAY: Would you undertake to find out what  
27 the status of the project is?

28 MR. VEGH: Sorry, I think that really is for a

1 different panel. My friend has had the opportunity to go  
2 through these issues with the assets panel, and the panels  
3 previous.

4 Again, he is reading a number of statements to this  
5 panel on cost allocation rate design external revenues, and  
6 they are agreeing that the statements are what they are.  
7 But this is really not their area, and I don't think it's  
8 appropriate to try to provide undertakings from this panel  
9 on issues that are really not relevant to their evidence.

10 MR. QUESNELLE: Mr. McGillivray, what's the purpose of  
11 your --

12 MR. MCGILLIVRAY: I am happy to move on to topics that  
13 are directly relevant to rate design and load forecasting,  
14 if that's okay.

15 MR. QUESNELLE: Fine, thank you.

16 MR. MCGILLIVRAY: If we could go to page 8 of my  
17 compendium, this is interrogatory response to ESC.2. And  
18 my understanding from this response is that connection  
19 impact assessment charges for generators, including energy  
20 storage customers, are derived by the time and TWE required  
21 to perform the studies and there are, I think, four rate  
22 codes discussed in this interrogatory response in relation  
23 to energy storage connection impact charges.

24 I think this question is for Mr. Boldt. Could you  
25 tell me what TWE refers to in that response, because I  
26 wasn't sure if it was transportation and work equipment or  
27 total work effort.

28 MR. BOLDT: Correct, it is transport work equipment.

1 MR. MCGILLIVRAY: Okay, thank you. And my further  
2 understanding from this response is that Hydro One's view  
3 is that an energy storage facility acts as a load while  
4 charging from the grid, and as an generator while injecting  
5 energy back into the grid, and that the effort and time  
6 required to complete a CIA study for an energy storage  
7 facility is the same as any other generation facility. Do  
8 I have that right?

9 MR. BOLDT: Yes, that's correct.

10 MR. MCGILLIVRAY: And this is part of the specific  
11 service charges which Hydro One is seeking to have approved  
12 in this proceeding, is that right?

13 MR. BOLDT: Yes.

14 MR. MCGILLIVRAY: Would you agree with me that the  
15 revenue requirement does not account for the benefits  
16 savings and avoided costs of energy storage based on these  
17 charges?

18 MR. BOLDT: I'd just like -- I spoke to the manager of  
19 protection and control around your concern of the benefit  
20 of the energy storage device, and he indicated that energy  
21 storage may have a system benefit at a grid level, but it  
22 may actually be detrimental to the local feeder level.

23 And the reason that the study is done -- or the CIA as  
24 what we refer to it as -- is to evaluate the impact to the  
25 system, also to the neighbouring customers, and the quality  
26 of the power when this happens.

27 We, through the CIAs, are looking to recover the costs  
28 from the energy storage application, basically as per the

1 distribution system code which, in section 6.2.11 -- I  
2 don't know if you that to bring up. Could you bring that  
3 up, 6.2.11?

4 Where it says -- at the beginning, it says:

5 "A distributor shall require a person who applies  
6 for the connection of a generation facility to  
7 the distributor's distribution system to, upon  
8 making the application, pay their impact  
9 assessment costs."

10 And as I've stated, or what you stated or read back to  
11 me is that during the time that the storage device is  
12 charging it's a load, and then when it's injecting, it's  
13 being treated as a generator.

14 So the CIA is being -- we are recovering the cost to  
15 do the study to make sure that the system at the  
16 distribution level is held whole and not being changed.

17 MR. MCGILLIVRAY: So section 6.2.11 here refers to the  
18 connection of a generation facility, but that could be any  
19 kind of generation facility, not just an energy storage  
20 facility. Is that correct?

21 MR. BOLDT: Yes, that's correct. And the other thing  
22 I spoke to the manager of protection and control about was  
23 the benefits to the storage, there is also benefits to  
24 distributed generation, and that being if you have a solar  
25 farm or something, a wind turbine, or something close to  
26 the load where the consumer is using it, then there's a  
27 benefit because we don't have to build new generators,  
28 increase the size of our wires.

1           So there's an advantage to them as well, and that's  
2 why our manager of protection and control is saying we  
3 treat the storage device exactly the same as the generator.

4           MR. MCGILLIVRAY: So to skip ahead a little bit to the  
5 sub-transition rate class, in that context, there's a  
6 discrepancy when it comes to renewable generation versus  
7 energy storage in relation to the application of gross load  
8 billing, is that right, in that renewable generation  
9 customers in the sub-transmission rate class have ceiling  
10 room up to 2 megawatts before they are subjected to gross  
11 load billing. You would agree with me on that?

12          MR. BOLDT: I am not familiar. Henry?

13          MR. ANDRE: Yes, the gross load billing applies to  
14 customers with renewable generation greater than  
15 2 megawatts.

16          MR. MCGILLIVRAY: Whereas energy storage customers in  
17 the sub-transmission rate class can only go up to  
18 potentially one megawatt before they are subjected to that  
19 gross load billing, is that right?

20          MR. LI: Yes, that's correct.

21          MR. MCGILLIVRAY: So energy storage customers are at a  
22 disadvantage relative to renewable generation customers in  
23 that rate class?

24          MR. LI: Well, the reason there's a difference is  
25 basically energy storage is not classified as renewable  
26 generation, so there's a difference between 1 megawatt,  
27 where 2 megawatt is applicable only if the generation is  
28 renewable.

1 MR. MCGILLIVRAY: So renewable generation and energy  
2 storage are not treated identically?

3 MR. LI: That's correct.

4 MR. MCGILLIVRAY: Okay, and Mr. Boldt, you referred to  
5 that as well when you discuss the benefits and detriments  
6 that the manager of protection -- was it manager of  
7 protection and control had discussed this?

8 MR. BOLDT: Yes.

9 MR. MCGILLIVRAY: Did you undertake any quantification  
10 of those benefits and detriments in order to understand how  
11 energy storage might work into the charges?

12 MR. BOLDT: Sorry, I don't understand your question.

13 MR. MCGILLIVRAY: Well, if you're recognizing that  
14 there's benefits and detriments to energy storage, are  
15 those quantified so that you can use that information?

16 MR. BOLDT: Just give me a second, please.

17 MR. MCGILLIVRAY: Thank you.

18 [Witness panel confers]

19 MR. BOLDT: So I am not aware of any studies that have  
20 been done to quantify it. But I will also like to go back  
21 to the Distribution System Code. And you stated earlier  
22 the statement of an energy storage unit is to form a  
23 generating facility when it's discharging but it's a load  
24 when it's charging.

25 If you look at -- if you can bring up 6.2.14, please.  
26 I just want to point to this, because what the study's  
27 entailed to or what it's doing underneath the distribution  
28 system code is it says:

1           "The distributor's impact assessment shall set  
2           out the impact of the proposed embedded  
3           generation facility on the distributor's  
4           distribution system and any customers of the  
5           distribution -- of the distributor, including,  
6           (a), any voltage impacts, impacts on current  
7           loading settings, and impacts on pole currents;  
8           (b), the connection feasibility; (c), the need  
9           for any line or equipment upgrades; (d), the need  
10          for transmission system protection modifications  
11          and any metering requirements."

12           It also states in 6.2.25, please -- there you go.

13   Right there:

14           "A distributor shall ensure that the safety,  
15           reliability, and efficiency of the distribution  
16           system is not materially adversely affected by  
17           the connection of a generation facility in the  
18           distribution system."

19           In the development of our costs or the fees we are  
20   following the Distribution System Code in treating everyone  
21   that comes in the same equally. We have to do the studies  
22   to make sure for the reasons noted above that the system is  
23   not impacted, and there's no explicit -- or nothing  
24   explicit in the code that describes how the CIA shall be  
25   determined or the cost of the CIA, but we did use the time  
26   study of our actual estimates of time and to perform the  
27   study to come up with the costs, which have been reduced in  
28   this application.

1 MR. MCGILLIVRAY: Okay, thank you. And just so I am  
2 clear, there's no section of the distribution code that  
3 applies to an asset that's both generation and load? These  
4 are generation?

5 MR. BOLDT: That's correct. And it has not been -- my  
6 understanding is energy storage is relatively new and the  
7 code hasn't been updated to reflect and specifically  
8 discuss energy storage versus generation, but it still has  
9 an adverse effect on the system or the potential on this  
10 distribution system.

11 MR. MCGILLIVRAY: Technology is not so new, so perhaps  
12 an update is required. Would you agree with that?

13 MR. BOLDT: I guess I could agree to that. That would  
14 be up to the writer of the code.

15 MR. QUESNELLE: Note taken.

16 MR. ANDRE: If I could just take a minute to confer  
17 with the witness on this.

18 [Witness panel confers]

19 MR. ANDRE: And through my other work with our  
20 compliance group, I wonder, is this the full Distribution  
21 System Code that's on the screen? And I don't know what  
22 section refers to the definitions, but I just wanted to  
23 confirm since it just came up, I wanted to -- if we could  
24 go to the section that talks about definitions, and I just  
25 wanted to confirm the definition of a generator for the  
26 purposes of the Distribution System Code, because I think  
27 it might be helpful, if my memory serves me. That was  
28 definitions. Can we scroll down to generator? And I may

1 be all wet, but I just didn't want to miss this opportunity  
2 if in fact it's covered. Oh, keep going. Generation...

3 All right. I had discussion with -- because you're  
4 right, energy storage is very new, and so we have been  
5 having discussion with our compliance group and our  
6 customer-service group about the treatment of generators,  
7 and I seem to recall our compliance folks saying that  
8 generation facility actually -- that the definition had  
9 been refreshed, but I don't see it here on the screen. So  
10 I can't confirm exactly where that is. But my apologies.  
11 I thought that the definition had been refreshed for the  
12 purpose of the Distribution System Code to include -- to  
13 specifically refer to energy storage, but I'd have -- if it  
14 may be helpful I can confirm if that's the case. I don't  
15 know if we are going to be back --

16 MR. QUESNELLE: But while we are there, is there one  
17 under storage or energy storage, or -- if we just confirm  
18 while we have got it up.

19 MR. ANDRE: Same place. Could you look for -- yeah,  
20 could you look for energy storage in the definition?

21 MR. MCGILLIVRAY: Energy storage does not appear?  
22 Thank you.

23 MR. ANDRE: Sorry for taking you down the garden path  
24 there.

25 MR. QUESNELLE: All right.

26 MR. MCGILLIVRAY: Just to be clear, I was suggesting  
27 that energy storage is not a new technology, and I  
28 understand that the Board has had a specific licence class

1 for energy storage for approximately three years. Would  
2 you take that subject to check?

3 MR. ANDRE: Subject to check, yes.

4 MR. MCGILLIVRAY: Thank you.

5 I'd now like to take you to page 37 of my compendium,  
6 which is an excerpt from the technical conference  
7 transcript in this proceeding. And there in lines 4  
8 through 19 or so, Mr. Andre, you are speaking about how the  
9 rate class is applicable to energy storage, whether energy  
10 storage is treated as generation or load, do not account  
11 for the system benefits of energy storage, the savings, or  
12 the avoided costs; do I have that right?

13 MR. ANDRE: Yes, you have that right in terms of, you  
14 know, the costs are the -- is there any adjustment to the  
15 costs that are allocated for the benefits provided, and I  
16 would note that when you went through that list of five or  
17 six benefits from the EPRI study, you know, there were  
18 benefits with respect to reliability and voltage support,  
19 et cetera.

20 I would note that none of those five bullets referred  
21 to benefits associated with reducing the costs of the  
22 distribution system, and I think that's part of the reason  
23 why to this point at least when we look at allocating the  
24 costs associated with providing distribution service, yes,  
25 we don't reflect that in the setting of rates.

26 MR. MCGILLIVRAY: Thank you, and that conversation  
27 continued as well, I think it's page 39 of the compendium,  
28 you indicated there that at lines 3 and 4 that there's a

1 lack of clarity on how energy storage customers should be  
2 treated, and I think that's a direct quote?

3 MR. ANDRE: Yes, and I reaffirm that, I can reaffirm  
4 that, yes, we are in discussions with energy storage  
5 customers to confirm exactly the treatment, and we expect  
6 to reach out to the Board at some point when we have some  
7 clarity on what we propose to do.

8 MR. MCGILLIVRAY: You are in discussions presently?

9 MR. ANDRE: We have some energy storage customers that  
10 we are in discussions with, yes.

11 MR. MCGILLIVRAY: So none of these -- I think it's  
12 clear that none of these rate classes are specific to  
13 energy storage, and so there's no specific energy storage  
14 rate class that Hydro One uses for energy storage  
15 facilities, that's right?

16 MR. ANDRE: Yes, that's correct.

17 MR. MCGILLIVRAY: And based on what you've just said,  
18 have you considered the possibility that a separate rate  
19 class for energy storage could be appropriate?

20 MR. ANDRE: That would be something that -- you know,  
21 certainly Hydro One is not unique in having to potentially  
22 connect energy storage customers. So I think that's  
23 something that may need to be addressed from an industry-  
24 wide perspective.

25 But from a Hydro One, our own utility's perspective,  
26 we have the rates that that are currently approved by the  
27 Board. We have the rates that we are asking the Board to  
28 approve in this application and no, at this point, no

1 consideration has been given to how you would allocate  
2 costs to a separate energy storage class.

3 MR. MCGILLIVRAY: Would you consider it?

4 MR. ANDRE: As I said, I think it's -- I think it's an  
5 industry-wide issue that would best be addressed with  
6 guidance and direction by the Ontario Energy Board.

7 MR. MCGILLIVRAY: Thank you. If we can now go to page  
8 45 of my compendium, and this is my last area. This is  
9 Anwaatin's settlement proposal, which I think has been  
10 discussed previously.

11 In light of this settlement proposal, would you agree  
12 me that Hydro One views energy storage as a viable  
13 distribution asset?

14 MR. ANDRE: I don't know if Mr. Boldt is familiar with  
15 this settlement proposal. I am not.

16 MR. VEGH: Again, this panel's really dealing with  
17 cost allocation and rate design, and not assets. So I  
18 would imagine -- I wasn't here, but I imagine my friend's  
19 client had the opportunity to ask questions about this with  
20 the appropriate panel.

21 MR. QUESNELLE: Mr. McGillivray, I see the question as  
22 being one if it's -- from in the context of what this  
23 panel's here to consider, is that the load forecasting and  
24 the cost allocation is that -- is there a context to your  
25 question that includes this panel, or is based on the  
26 subject matter of this panel?

27 MR. MCGILLIVRAY: Well, I was hoping -- thank you, Mr.  
28 Chair -- that if Hydro One did, or on the basis of this

1 settlement proposal does view energy storage as a  
2 distribution asset and that it may be looking to do further  
3 deployment of energy storage, that ultimately that would  
4 bear on load forecasting and rate design. And I was  
5 wanting to understand the assumptions that the people on  
6 this panel may make when it comes to considering the  
7 implications of energy storage for load forecasting, system  
8 productivity and rate design. That's the direction I was  
9 headed.

10 MR. QUESNELLE: Thank you, I think you have asked  
11 specifically in relation to the Anwaatin settlement, but  
12 that's very much the same question as you asked in general,  
13 I think, earlier.

14 Mr. Andre, do you have anything else to add?

15 MR. ANDRE: My colleague, Mr. Alagheband, indicates  
16 that yes, from a load forecast perspective, the extent to  
17 which the energy storage provides generation impacts, that  
18 would be taken account in the load forecast.

19 MR. ALAGHEBAND: What we have as a rate class for  
20 generator is the amount of load that generator would take  
21 as a customer, and then this amount is normally really low  
22 compared to what they generate.

23 So suppose if there is -- I don't know, if there's a  
24 facility that they generate during the day and at night  
25 time, they may have some lights they want to turn on and at  
26 that time, perhaps they are not generating. So when they  
27 take the load in, we calculate that. You know, we have a  
28 meter on that one, so our meters are two-sided. One is

1 when the load goes in and another one for when the load  
2 comes out.

3 We don't include when the load comes out because it's  
4 a generator, but when it goes in, it is as a customer. And  
5 on that basis for distributor generation, we have a rate  
6 class and for that one we have a load forecast. Yes, we  
7 are including that one.

8 So if your facility includes taking loads from Hydro  
9 One distribution it's already included in our forecast.

10 MR. MCGILLIVRAY: Are there any assumptions in that  
11 analysis that are particular to the fact that it's energy  
12 storage rather than another kind of distributed generation?

13 MR. ALAGHEBAND: At this point in time, we have one  
14 class called distributor generation and it includes every  
15 generator. So it includes, for example, wind turbines, it  
16 includes whatever facility is there which takes -- which is  
17 a generator.

18 If somehow at some future point or at some future  
19 point in time injects to the system, once they do that we  
20 say, okay, this is a generator and then at some point --  
21 other points in time, they may take load from Hydro One  
22 distribution. That is what we call a generator as a  
23 customer.

24 So we are looking at the generator as a customer in  
25 our load forecast, not as a generator. Generator is a  
26 different story. This comes into total processes that we  
27 have from embedded generators inside the Hydro One  
28 territory.

1 MR. MCGILLIVRAY: So fair to say that you don't  
2 consider energy storage and its impact on peak load, for  
3 example?

4 MR. ALAGHEBAND: Yes that's correct, that is a system  
5 planning issue; it's not load forecast issue.

6 MR. MCGILLIVRAY: Thank you, witnesses, Panel. Those  
7 are my questions.

8 MR. QUESNELLE: Thank you, Mr. McGillivray. Ms.  
9 Girvan?

10 **CROSS-EXAMINATION BY MS. GIRVAN:**

11 MS. GIRVAN: Thank you. Good afternoon, panel. My  
12 questions are certainly a lot shorter given the opening  
13 statements made today about the specific service charges.

14 So just briefly, there's a few things I want to  
15 clarify. Could you please turn to Exhibit CCC, number 68?  
16 So it's 53.CCC.68, and this is -- if you could scroll down,  
17 please?

18 This is setting out the bill impacts for the acquired  
19 utilities, and I just wanted to confirm that these are the  
20 most updated rate and bill impacts.

21 MR. ANDRE: Ms. Girvan, they will be very close to the  
22 final rates. It doesn't include the adjustment to revenue  
23 requirement that was part of the Q11 exhibit, so this is in  
24 reference to the -- it includes the changes that were made  
25 in Q1.1 with respect to the allocation of costs to the  
26 acquireds, so it reflects that.

27 But there was also a revenue requirement change, which  
28 I think by 2021 was fairly small. I know the change in '18

1 was more significant, but in 2021 the change in revenue  
2 requirement was very small, so it wouldn't reflect that  
3 small change.

4 But other than that, it would be the most current, and  
5 then obviously it wouldn't reflect any of the discussions  
6 we have had since this interrogatory was filed.

7 MS. GIRVAN: What do you mean, discussions?

8 MR. ANDRE: Well, I mean the changes to external  
9 revenues, the updates that have been provided by the  
10 various panels.

11 MS. GIRVAN: So we won't see the final impacts of this  
12 until you do your final rate order?

13 MR. ANDRE: Rate order. You said the final impacts of  
14 this.

15 MS. GIRVAN: Of everything, yes

16 MR. ANDRE: Yes, that's correct. The impacts of the  
17 changes to external revenues and any other revenue  
18 requirement adjustments, which was also made -- I think on  
19 panel 1, we made some adjustments there.

20 So all of those there be reflected in the draft rate  
21 order, as well as whatever decisions the Board makes with  
22 respect to revenue requirement.

23 MS. GIRVAN: Okay. But you don't imagine these are  
24 going to change significantly?

25 MR. ANDRE: I wouldn't --

26 MS. GIRVAN: I'm just trying to get an update, you  
27 know, the most updated that we have on the record to date.

28 MR. ANDRE: I think there this is -- there may be

1 small changes, especially if you are looking at the total  
2 bill impact, I think there would be fairly minor changes, I  
3 would think.

4 But without running through, there have been a number  
5 of updates to revenue requirement and we heard the impacts  
6 today or the updates today around external revenue, so  
7 there may be some changes, but I can't really --

8 MR. QUESNELLE: Mr. Vegh, I am wondering rather than  
9 going through all the exhibits and try to do an update  
10 based on a new revenue requirement, if there was a  
11 percentage difference based on the updates to the overall  
12 revenue requirement, perhaps that would give a comfort  
13 level as to what the outflow of that would be.

14 Like if we are talking less than a percent, people can  
15 look at this and say okay, in that context I don't need an  
16 update of this particular chart.

17 MR. ANDRE: You are absolutely right, Mr. Quesnelle.  
18 I mean, if we had a sense of what happens to the revenue  
19 requirement, that percentage change effectively flows down  
20 to the rates. So I would agree that if we had that number  
21 we could comment on what it would mean for rates.

22 MR. QUESNELLE: And if that could be worked on quickly  
23 just to get a sense of it, and then -- and I don't know if  
24 you can do a back-of-an-envelope over the lunch sort of  
25 thing as to what -- you know, kind of a -- add some context  
26 to this, and perhaps that would be helpful.

27 MS. GIRVAN: Yeah, that would be helpful.

28 MR. ANDRE: We can do something, I am sure.

1 MR. QUESNELLE: Okay, thanks.

2 MS. GIRVAN: Okay, thank you.

3 Mr. Andre, I just wanted to ask you this, and I have  
4 asked you this before, but is Hydro One doing anything  
5 regarding the elimination of the seasonal class at this  
6 time? Or are you waiting for OEB direction?

7 MR. ANDRE: Yes, the report's in front of the Board.  
8 The Board's initiated a proceeding to look at the details  
9 of that report, and we are waiting for the direction.

10 MS. GIRVAN: Okay, all right, thank you.

11 Now, with respect to the amounts that you discussed  
12 this morning, panel, the 341,000, the 1.3 million, and the  
13 2.1 million, how are those amounts going to be reallocated?  
14 To what rate classes?

15 MR. ANDRE: I can speak to that. So the reduction in  
16 external revenues applies across -- the way the cost  
17 allocation works, it would apply across all classes. So  
18 any reductions gets spread across the classes in proportion  
19 to the revenue that's generated by each class.

20 MS. GIRVAN: Okay. And is that in part because these  
21 charges aren't class-specific; right?

22 MR. ANDRE: That's just the principle that the Board  
23 has adopted. I mean, there is an opportunity, for example,  
24 for sentinel light revenue to be specifically allocated or  
25 associated with the sentinel light class, but all of the  
26 other external revenues are treated as a common bucket and  
27 shared among all rate classes because they are not  
28 specifically associated, as you say, Ms. Girvan.

1 MS. GIRVAN: And that's why you are saying the impact  
2 isn't significant.

3 MR. ANDRE: That's correct, yeah.

4 MS. GIRVAN: Okay, thank you.

5 Could you turn to the list of the specific service  
6 charges, please, and that's found in H1, tab 2, schedule 3.  
7 And I just had a few questions. If you look at the codes  
8 22 and 23. And I think you are proposing to increase those  
9 services -- the charges to \$320 and \$850; is that correct?

10 MR. BOLDT: Yes, that's correct for 2018, yes.

11 MS. GIRVAN: Okay, can you give me an example of when  
12 this would be the case, when would these charges be enacted  
13 or be charged to the customers? Under what circumstances?

14 MR. BOLDT: So this is, sorry, 22 and 23. 22 is a  
15 disconnection and/or reconnection. Actually, I will wait  
16 for the screen to catch up, maybe.

17 MS. GIRVAN: Yeah, thanks.

18 MR. BOLDT: It's page 5. There we go.

19 So as you can see in 22, which is a disconnection and  
20 reconnection at the pole during regular hours, the charge  
21 is currently \$185. And it's billed once for the  
22 disconnection, and then when the customer pays it's billed  
23 again for the reconnection. And the one below that, it's  
24 the -- it's at a pole. The key is that it's at a pole and  
25 it's after regular hours, so currently it's \$415.

26 The time study looked at both of these, and in this  
27 particular case we are sending a large truck with two  
28 workers to do this disconnection, and it's something that,

1 there's physical labour to actually disconnect wires when  
2 this happens, and -- as opposed to the meter that is much  
3 easier to do the work.

4 MS. GIRVAN: So under what circumstances? Would it be  
5 someone's renovating their house or is that the type of  
6 circumstance that this would be charged?

7 MR. BOLDT: No, like, if this was for maintenance, if  
8 you were changing your panel in your home or upgrading your  
9 panel or doing something. Every customer gets a free  
10 disconnect and reconnect once per year. This would be --  
11 basically in these categories here it's for collection, so  
12 non-payment of account.

13 MS. GIRVAN: Sorry, non-payment of account?

14 MR. BOLDT: See, it's -- and the category is  
15 collections.

16 MS. GIRVAN: Yeah.

17 MR. BOLDT: So it's in arrears of paying your bill.

18 MS. GIRVAN: Oh, I see. So you're -- but I thought  
19 you said it was if you are changing out your panel.

20 MR. BOLDT: No, no, if you're changing your panel, so  
21 you would call in and ask for a disconnection and a  
22 reconnection, and that is free once per year during regular  
23 hours.

24 MS. GIRVAN: Okay.

25 MR. BOLDT: This is if there is a collection of a  
26 service for non-payment, and through the process where we  
27 actually get to do the disconnection to the point where  
28 there is a disconnection notice issued, this is rolling a

1 truck for non-payment to disconnect the service.

2 MS. GIRVAN: Okay. And what's the difference -- under  
3 what circumstances would you disconnect at the pole versus  
4 disconnect at the meter?

5 MR. BOLDT: There's some things. Lots of times it  
6 might be a farm situation. An example would be where they  
7 have a CM service or what they call a central metering  
8 service, and what that does is the power comes in from the  
9 road to a transformer, and the metering is not -- like, the  
10 current doesn't run through the meter. The meter has  
11 what's called a current transformer, and it -- and  
12 potential on it, which causes it to turn. So the only way  
13 to do this disconnect would be to disconnect it at the  
14 road.

15 There's other disconnections that may happen where the  
16 meter may be inaccessible, may be locked, it could be in a  
17 building where they are not giving us access, and in those  
18 cases you would be forced to do it at the source somewhere  
19 else.

20 MS. GIRVAN: Okay, thank you.

21 And down under 25 and 26, again, can you give me some  
22 examples of this category of service call?

23 MR. BOLDT: Yes, so a service call, lots of times what  
24 -- this is referred to as a service call, where there's  
25 customer-owned equipment, and it's regular hours and also  
26 overtime hours.

27 Typically where this effect would come in and -- is  
28 that when they call in and they are out of power, let's

1 say, and what would happen is the trouble crew, or when  
2 they call the OGCC, or control centre, the customer is  
3 asked to make sure that it's not their equipment that is  
4 causing the outage. And the -- like, something that can  
5 happen is that there is power at the meter outside their  
6 home, and maybe they have got a defective breaker in their  
7 house and -- which causes their power to go out at their  
8 main panel, and instead of checking with a neighbour -- and  
9 we help to assist them on this when they call us -- check  
10 with a neighbour, do you have someone, is there power.

11 The other thing is our new meters today that are  
12 electronic meters, if the power's out at the meter the face  
13 will not be lit. Like, if the system is out as opposed to  
14 that, and what would happen here is that we roll a truck,  
15 whether it's regular time or after regular hours, and we  
16 arrive there to determine that it's the customer's  
17 equipment that has caused the outage, their own outage.  
18 And we are just looking to recover the costs rather than  
19 putting it against a trouble call when it's really their  
20 equipment that has caused their own problem.

21 MS. GIRVAN: Okay, all right. Thank you, those are my  
22 questions.

23 MR. QUESNELLE: Thank you, Ms. Girvan.

24 Mr. Brett?

25 **CROSS-EXAMINATION BY MR. BRETT:**

26 MR. BRETT: Thank you, Mr. Chair. My name is Tom  
27 Brett. I represent BOMA. I'd like to start by asking you  
28 if you could turn up Exhibit G1, tab 2, schedule 1. I just

1 have a few questions on cost allocation and one question on  
2 rate impacts. So that's page 5 of 8, G1, tab 2, schedule  
3 1, page 5. Yes, that's it.

4 I wanted to ask you, on this table, I notice that the  
5 -- that the acquired utilities do not seem to have a  
6 distribution -- distributed generation rate class, so that  
7 you've essentially assigned them the -- Hydro One's  
8 distributed generation rates; is that right? I am looking  
9 down under Norfolk, Haldimand, Woodstock existing classes.  
10 And if you go through those classes, there doesn't seem to  
11 be a class for distributed generation; is that right?

12 MR. LI: Just give me a second here.

13 MR. BRETT: Sure.

14 [Witness panel confers]

15 MR. LI: Yes, if you look at Norfolk embedded  
16 distributor ...

17 MR. BRETT: Yes.

18 MR. LI: When they come to -- I am sorry, just give me  
19 a second here.

20 Sorry, yes, I got a little bit confused there, I am  
21 sorry. There is no DGen customer to move into the Hydro  
22 One class. They don't have any DGen customers.

23 What you are referring to, embedded distributor,  
24 that's a different class.

25 MR. BRETT: I am referring to generators.

26 MR. LI: No, no, there's no generators, sorry.

27 MR. BRETT: So if there is one in the future, what is  
28 the intent? That they will use your distributed generation

1 rate?

2 MR. LI: If there is one in the future, yes, it will  
3 go into the DGen class, the Hydro One class, yes.

4 MR. BRETT: The second thing in this table I wanted to  
5 check with you is I notice, looking again at the Norfolk  
6 column and Woodstock, they don't appear to have a microFIT  
7 rate class, but you do.

8 So is that the same answer, that you don't have any  
9 microFIT facilities at the time being?

10 MR. LI: No, microFIT, I think we are just talking  
11 about the five -- was it \$5 and -- can you let me double-  
12 check? Just give me a second.

13 MR. QUESNELLE: Mr. Brett, from this chart you are  
14 looking at, microFIT is listed at the bottom of the list of  
15 those service customers. There is a microFIT on the bottom  
16 of each line under Norfolk, Haldimand and Woodstock.

17 MR. LI: Yes, I'm sorry, it is the same thing. It's  
18 basically a fixed charge every month. I believe it's  
19 \$5.40, but I could be wrong; that's why I wanted to double-  
20 check.

21 But it's exactly the same. All LDC, I believe, pay  
22 the same charge every month, so there's no difference  
23 there.

24 MR. BRETT: So nothing would change there?

25 MR. LI: There's no change at all.

26 MR. ANDRE: And to clarify further, it shows that --  
27 what this chart is showing is that from 2018 to 2020,  
28 right, which is the first column, the charges that will

1 apply are the rate classes, the existing rate classes that  
2 exist for Norfolk, Haldimand and Woodstock.

3 And then the second column says that for the period  
4 '21 to '22, you will see there's NAs for the individual  
5 acquired utilities because those classes cease to exist.  
6 And what the top part of the chart shows was that for '21  
7 and '22, there will be separate classes -- well, it shows  
8 the -- it shows the new classes that are being created and  
9 it shows the rate classes where existing Norfolk and  
10 Haldimand and Woodstock customers are being merged with.

11 So they are being merged with the street light class,  
12 the sentinel light class, the USL class. As you point out,  
13 it doesn't show for DGen because there are no current DGen  
14 customers. But if there had been, it would show that they  
15 would be -- the acquired customers in that class would be  
16 moving to Hydro One's DGen class and then microFIT, they're  
17 moving to Hydro One's microFIT class.

18 MR. BRETT: Thank you. Could you turn up page 35 of  
19 SEC's compendium for this panel? I don't have the K  
20 number, what's the ... Mr. Shepherd's compendium?

21 MR. SIDLOFSKY: It was Exhibit K10.7 from Tuesday.

22 MR. BRETT: Okay. So at page 35 of that exhibit,  
23 that's the page that had the three tables on it with the  
24 very small numbers. I don't mean small in magnitude, but  
25 small in print size, at least for me.

26 Do you have that? Yes, you do, okay.

27 I wanted to ask you about the differential, if we look  
28 at the -- and this is really a follow-up to a question you

1 received this morning. But if we look at the top table,  
2 the top chart, it talks about total GBV on the left-hand  
3 side that should be allocated to the acquired utilities.  
4 And on the right-hand side, it's GBV that's being allocated  
5 under the existing cost allocation system.

6 And GBV, I am assuming, gross book value is the same  
7 as -- that's to be considered a synonym for gross fixed  
8 assets?

9 MR. ANDRE: Yes.

10 MR. BRETT: The numbers -- you talked about this this  
11 morning, but the number under your existing -- the numbers  
12 of assets that would be allocated, these are the capital-  
13 driven assets, the various classes of fixed assets  
14 including stations, I guess.

15 In any event, the 531, as I understand it, is what  
16 your existing cost allocation system would allocate and  
17 then over on the left-hand side, the 271 million is what  
18 should be allocated and what you did allocate following the  
19 Board's directions; is that right? That's directly from --

20 MR. ANDRE: Yes, so the column on the right, or the  
21 right side of the table, you see it says total GBV that is  
22 being allocated and then in brackets non-adjustment, so  
23 before the adjustment.

24 MR. BRETT: Right.

25 MR. ANDRE: And then the column on the left-hand side  
26 is post the adjustment and that is the actual assets for  
27 those particular categories of US of A accounts that are  
28 being allocated and are reflected in the 42 million in

1 total costs that get allocated to the total acquired  
2 classes.

3 MR. BRETT: Right. Now the -- perhaps just while we  
4 are on this, I will just reverse the order of my question  
5 for a moment. If you look down a little further below --  
6 well, let me go back to the sequence I was going to use.

7 The differential between those two numbers, as you can  
8 see, is somewhere around 260 million. I hope I have got  
9 this right -- no 240 million, maybe. In any event, it's a  
10 large amount. So you have 532 comes down to 271. So you  
11 have a differential there of about 261 million, roughly; is  
12 that right, give or take?

13 MR. ANDRE: Yes, give or take, that's right.

14 MR. BRETT: Now, the question's sort of an open-ended  
15 one, but what -- that's a large differential in the sense  
16 that one number is about half the other. What accounts for  
17 that, broadly? What accounts for the size of that  
18 differential?

19 MR. ANDRE: I think -- so we are looking at the US of  
20 A accounts related to poles, transformers, wires, and so I  
21 think what you are seeing there is a reflection that Hydro  
22 One in total serves a widely dispersed customer base. And  
23 so the number of poles, the kilometres of line that it  
24 requires to serve its customers is on average greater than  
25 other utilities. You know, where other utilities have a  
26 certain number of customers per pole, Hydro One has a  
27 certain number of poles per customer. It's quite  
28 disparate, and so I think that's what you are seeing there.

1           So if you only looked at the peak loading and said  
2 based on the peak loading, let's give them a share of Hydro  
3 One's total service territory that includes serving all of  
4 this low density area, it would attract a bigger share.  
5 Then you say, no, no, if you look at just the Norfolk area  
6 and just the Haldimand area, the amount of assets required  
7 to serve those customers is much lower than the average  
8 number of assets required to serve Hydro One customers in  
9 general.

10           MR. BRETT: More homogeneity in terms of, more  
11 homogeneity in terms of the assets and lesser distances.

12           MR. ANDRE: Yes, more homogeneity and more density  
13 packed, yes.

14           MR. BRETT: And if you go down on the same page to a  
15 little -- on the third of these -- well, no, I guess let's  
16 go the second chart, the second block, it's the same -- I  
17 just want to check if it's the same numbers.

18           This is net book value, which I guess is essentially  
19 rate base. And you've got over at the right in terms of  
20 what your normal -- what your existing cost allocation  
21 would allocate is the 371 -- I think I am reading that  
22 right. I hope I am.

23           MR. ANDRE: 321, I think.

24           MR. BRETT: Okay. 321. And then on the left side --  
25 under the left side of the chart it's down to about 178.  
26 Now, what -- I understand the -- why I think the disparity  
27 between the two. That would be a similar answer to what  
28 you just gave me for gross fixed assets; in other words,

1 the difference between the 321 and the 195. Why are the --  
2 I guess the question that came to my mind is why are the  
3 relative -- why is the ratio different for net fixed assets  
4 relative to gross fixed assets? What's sort of happening  
5 in the middle there to make that a different ratio?

6 MR. ANDRE: And I guess it would be the treatment of  
7 the accumulated depreciation. So we used the relationship  
8 between gross book value of assets and net book value of  
9 assets that exists in the cost allocation model, and we  
10 used that relationship to translate gross book value down  
11 to net book value. And --

12 MR. BRETT: Right.

13 MR. ANDRE: -- the difference is associated with the  
14 different amount of accumulated depreciation.

15 MR. BRETT: Right.

16 MR. ANDRE: Yeah, the details are -- so this is a  
17 summary.

18 MR. BRETT: Right.

19 MR. ANDRE: And if you go to the actual spreadsheet  
20 where these tables are pulled from you will see that  
21 derivation and you will see the impact of accumulated  
22 depreciation, but we use that ratio between gross book  
23 value and net book value, which -- the difference being  
24 accumulated depreciation, and we use that ratio to derive  
25 the numbers that you see in this chart.

26 MR. BRETT: Right, and -- now, just starting from  
27 that, the -- you touched a little bit on this earlier this  
28 morning, so I just wanted to make sure I have kind of got

1 this correct directionally. If you continued to make  
2 acquisitions of other utilities, you would have a set of  
3 numbers -- well, let me go back. I am missing a step  
4 there. But just the difference between the -- your cost  
5 allocation, the amount that would be allocated on your  
6 existing cost allocation and the amount that you actually  
7 allocated, the difference between those two, as I  
8 understand it, is allocated to the other Hydro One  
9 customers, essentially.

10 MR. ANDRE: Yes, that's correct.

11 MR. BRETT: And so if you made other acquisitions  
12 would it be a fair assumption that -- directionally that  
13 you would have similar results, you'd have similar tables  
14 to this, coming out of -- you'd have a similar cost  
15 allocation adjustment that would be necessary, not the  
16 exact same numbers, of course, but that you are going to --  
17 you would find that you would need to -- after you made  
18 your adjustments to make you compliant with the Board  
19 direction, you'd have to reallocate some of that, some of  
20 those accounts, those poles, the physical accounts, you'd  
21 have to reallocate some of those to the other ratepayers;  
22 is that fair? I mean...

23 MR. ANDRE: I think that's a fair statement with  
24 respect to the US of A accounts that are on this chart.

25 MR. BRETT: Right.

26 MR. ANDRE: But then there would be the common assets  
27 and the shared assets that I discussed with --

28 MR. BRETT: You would have reverse flows.

1 MR. ANDRE: Yeah, so for those items they would be  
2 shared among the acquired classes, so they would attract  
3 some of those costs, and I think when you look at the total  
4 dollars that are being allocated the, you know, numbers  
5 show that the acquired classes are in fact attracting a  
6 fair amount of common and shared assets so that that flow  
7 would offset -- some might argue that the flow is too much  
8 one way versus too much the other way, but there is  
9 absolutely an offsetting flow from the numbers that you see  
10 here versus the allocation of common assets and shared  
11 services.

12 MR. BRETT: But it would be fair to say -- I mean, we  
13 discussed earlier in the hearing a bit the sort of the  
14 overriding size of those physical assets and their impact  
15 that they that drive on the revenue requirement and on  
16 rates.

17 Would it be fair to say that the reverse flow, as I'm  
18 putting it -- or you're putting it or I am putting it --  
19 that comes the other way by way of the acquired assets  
20 absorbing a share of common costs, it would not typically  
21 offset the first effect, would it, because it would be  
22 considerably smaller? I mean, we don't have the numbers in  
23 front of us, but I got the sense from listening to you that  
24 those -- and from reading the evidence that that flow would  
25 be smaller in magnitude.

26 MR. ANDRE: Well, I think what the evidence has shown  
27 in the undertaking in -- perhaps I could take you there,  
28 the undertaking that we visited quite a bit this morning.

1 So that would be JT3.18-19, and if we could bring that up  
2 just to refresh people's memories, but -- so JT3.18-19.  
3 And page 2.

4 So what this chart shows is that in terms of the costs  
5 that are added to Hydro One's revenue requirement as a  
6 result of integrating the utilities, that's \$25.6 million  
7 in additional costs, in additional revenue requirement.  
8 But in terms of the status quo -- and actually, sorry, I  
9 mean, status quo is the number, but in terms of the  
10 allocated costs, which we have talked about this morning as  
11 well, which is 42 million, so there is -- that is the  
12 amount of costs that we are allocating to the acquired  
13 utilities versus the 25 million in incremental costs.

14 So we are definitely allocating to the acquired  
15 utilities some of those shared services, so based on a  
16 comparison between the 25.6 and the 42 million that  
17 actually gets allocated to the acquired utilities, I would  
18 say the flow tends to be -- the acquired utilities are  
19 absorbing some of those shared-services costs, more so than  
20 flowing the other way.

21 MR. BRETT: All right. It's -- that's your answer. I  
22 can't -- but in just going back to the question, the  
23 amounts of money that I was quoting, the differentials that  
24 I was quoting between the -- on the physical asset costs, I  
25 mean, are we comparing apples and apples here or is this --  
26 this is a different way of looking at it?

27 MR. ANDRE: I would say this is a different way of  
28 looking at it. I mean, what you were looking at before

1 shows that could more have been allocated to the acquired  
2 classes and provided more of a benefit to the existing  
3 legacy customers? I think those are the tables that you  
4 had started that shows that there's quite a bit of  
5 reduction in terms of what the model would allocate versus  
6 what we end up allocating after the adjustment factors.

7 MR. BRETT: Yeah, I was actually trying to get at the  
8 amount of extra asset cost that's loaded on to the existing  
9 customers.

10 MR. ANDRE: Right. And so I think for that purpose,  
11 Mr. Brett, it's exactly the table that you're seeing here.  
12 The amount of costs that are getting loaded on, as you say,  
13 or added to the revenue requirement that Hydro One needs to  
14 recover is 25.6 million. So to the extent that anything  
15 over and above 25.6 million gets allocated to the acquired  
16 utilities, it means they are sharing in some of those costs  
17 that would normally have flowed, and like right now, before  
18 the integration, are normally flowing to the other classes,  
19 so to the extent that it's over and above 25.6, that  
20 represents a reduction to the revenue requirement that's  
21 being collected from Hydro One's legacy classes.

22 MR. BRETT: Okay. One other question. If you could  
23 turn up -- this is just on a more -- a question on rates,  
24 really, rate design, rate impact. If you could turn up,  
25 please, Exhibit Q, and this is my last area, just a couple  
26 of questions in this area. Exhibit Q, tab 1, Schedule 1.  
27 That's your updated -- page 3 of 25, and that's your --  
28 this is your updated evidence in December. And so that's

1 Q, Exhibit Q, tab 1, Schedule 1, page 3. And that's from  
2 your December 21st filing. And it's --

3 MR. ANDRE: I have it, but let's just wait for it to  
4 come up on the screen.

5 MR. BRETT: Yeah, I will just wait a moment. Yes,  
6 here we go. Could you just scroll down a little bit to the  
7 paragraph below -- that's it right there, thank you.

8 Now, I just want to go over this with you. The  
9 updated 2018 revenue requirement reflects an increase of  
10 3.1 percent over 2017, OEB-approved levels after adjustment  
11 for reduced load forecast 3 percent, the resulting average  
12 impact on distribution rates is an increase of 6.1 percent  
13 in 2018, and an average of 3.4 percent per annum over the  
14 term.

15 And my first question is, are these -- I know we've  
16 had a number of updates and there was talk yesterday about  
17 a Board Staff IR, I think 84 or 94. But are these numbers  
18 pretty much the most current numbers? I mean, the most  
19 current numbers don't vary materially from these numbers;  
20 is that fair?

21 MR. ANDRE: And I think this was part of what Mr.  
22 Quesnelle was asking about --

23 MR. BRETT: Yes, it is.

24 MR. ANDRE: -- to get the most current numbers on the  
25 record. So I believe that the statement made at the  
26 beginning of panel 1, in terms of revenue requirement  
27 changes, would impact the numbers that you see here that we  
28 announced. And then the changes to external revenue that

1 we talked about today would be the second impact that I am  
2 aware of.

3 I don't know if in between panel 1 and what I heard  
4 today on external revenue, I don't know if there were other  
5 items. I am sure our team will know, but those are the  
6 two that I am aware that would change what you see in this  
7 table.

8 MR. BRETT: My purposes for this, it's sort of -- if  
9 it's approximately in the ballpark, so I think I will just  
10 proceed. My question's a general one, so if we get another  
11 document that fine-tunes this, it wouldn't change the  
12 impact of my -- it wouldn't change my question at all.

13 My question really is would you agree with me that the  
14 rate impacts and the distribution rate and the increases to  
15 the distribution rate, those are the matters -- it's the  
16 distribution rate that reflects your costs as a  
17 distributor. In other words, that's the cost that you, in  
18 a sense, are accountable for? Or that's the rate increase,  
19 if you like, that you are accountable for or that you can  
20 control.

21 Would you agree with me on that? In other words, the  
22 other components, just to -- the other components of the  
23 bill, whether it be commodity, or transmission rates, or  
24 global adjustment, or IESO fees or what have you, you can't  
25 do anything about that; that's a given for you.

26 What you can control and work on and try and make more  
27 efficient is your distribution operation, which gets  
28 reflected in these percentages of distribution rates; fair

1 enough?

2 MR. ANDRE: Mr. Brett, I think that's a fair  
3 statement, that it's the distribution component of rates  
4 that we have control over, with one refinement.

5 If you look at this paragraph, what it indicates is  
6 that distribution rates are also being impacted by the  
7 resetting or rebasing of load from what was approved in the  
8 rates that we currently have versus the updated load  
9 forecast that reflects significant reduction in the actual  
10 load that we have seen in our system.

11 So when we talk about distribution rate increase --  
12 and like I said, I agree with your statement -- to the  
13 extent that the distribution rate increase includes a  
14 component that's driven by the reduction in load, I would  
15 put that in the similar category in terms of really being  
16 beyond Hydro One's ability to control.

17 MR. BRETT: That component is slowly disappearing; is  
18 it not? If I have the rate sort of -- at least for the  
19 residential classes, you're almost at a straight per  
20 customer basis?

21 MR. ANDRE: Yeah, I think going forward, the  
22 differences in load forecasts from one application to when  
23 you reset it at a subsequent application, you will see less  
24 of that impact on revenue requirement because the number of  
25 customers is a much easier figure to forecast.

26 MR. BRETT: Fair enough. My question really is -- my  
27 second question there is, I mean, it's a corollary to the  
28 first question. If something were to happen, you know,

1 steps were to be taken by a government or whomever, the  
2 Board, to reduce other elements of the bill, you know, not  
3 the distribution rate, but the other elements of the bill  
4 so that your -- so that these numbers here, these three-  
5 and-a-half percent annual increases in rates were no longer  
6 1 percent of the bill, but were 2 percent or 1 and a half  
7 percent, you would not feel in any way that that was a  
8 failure on your part? I mean, you would -- you are working  
9 to make your own piece of this as efficient as possible.  
10 So the fact that the number jumped from, you know, to 1 and  
11 a half percent of the bill from 1 percent of the bill,  
12 that's not on your -- that's not to your account, so to  
13 speak; fair enough?

14 MR. ANDRE: I think we still want to show the bill  
15 impacts so that the Board understands what it means to the  
16 customer's total bill. I think I have said before that,  
17 you know, what's happening to a customer's total bill is  
18 really ultimately what they are concerned about.

19 But I do take your point that if distribution --  
20 because other portions of the bill decrease and then the  
21 distribution component becomes a bigger share of the bill,  
22 and therefore any increase in that component represent as  
23 bigger increase in the total bill, that is, to a large  
24 extent, outside the control of Hydro One.

25 But I think you heard our panels that the focus is on  
26 trying to reduce the costs and get more productive and more  
27 efficient in that component of the bill that we have a  
28 hundred percent control over.

1 MR. BRETT: Thank you, those are my questions.

2 MR. QUESNELLE: Thank you, Mr. Brett. With that we  
3 will adjourn for lunch and we will return at 5 to 2:00.  
4 Thank you.

5 --- Luncheon recess taken at 12:57 p.m.

6 --- On resuming at 2:07 p.m.

7 MR. QUESNELLE: Please be seated.

8 Mr. Vegh, any preliminary matters this afternoon?

9 **PRELIMINARY MATTERS:**

10 MR. VEGH: Just one for the applicant to speak to the  
11 issue raised this morning by Mr. Rubenstein, with respect  
12 to the memorandum of agreement that was entered into last  
13 night between the Power Workers and Hydro One. So we have  
14 made inquiries, and I could tell the Board that the  
15 memorandum of agreement is for two years, 2018 to 2020.  
16 They are still months away from finalizing a collective  
17 bargaining agreement and will continue in negotiations, and  
18 I am advised that the people I spoke to at least are still  
19 reviewing the document.

20 And in terms of the contents, I can also advise that  
21 the wage increase escalator in the ratified memorandum of  
22 agreement is higher than what is assumed in the  
23 application, but Hydro One is not seeking any change to  
24 what is requested in the application to address that higher  
25 wage escalator, so it has no impact on what's being  
26 requested for rates in this case.

27 MR. QUESNELLE: Okay. So I understand the process --  
28 so that I do understand the process, Mr. Vegh, so there's a

1 memo of understanding, and that memo of understanding lays  
2 out the parameters, but there is no finalized collective  
3 agreement at this point and there won't be, so --

4 MR. VEGH: That's correct.

5 MR. QUESNELLE: -- so the memorandum has the, I  
6 suppose the -- I'd say the force, it's not a force, I  
7 suppose the collective -- the bargaining is still going on,  
8 but at this point there is a strong indication that the  
9 driver to the salary will result in an amount higher than  
10 what's embedded in the application as it stands now.

11 MR. VEGH: Yes, that's correct.

12 MR. QUESNELLE: All right. Thank you for that. Mr.  
13 Rubenstein?

14 MR. RUBENSTEIN: Well, I would still like to see the  
15 information that I originally sought. I know my friend was  
16 saying that the collective agreement -- as I understand a  
17 memorandum of agreement has been signed and now ratified by  
18 the PWU, and what is left, in my understanding, generally  
19 is translating that into existing -- amending the existing  
20 collective agreement, but it's more of a formality.

21 With respect to the specific areas, I think they are  
22 relevant. Even if my friend is not seeking an adjustment  
23 to the application I think it is still relevant for many of  
24 the issues that were raised on panel 2 about, you know, the  
25 trajectory of wage increases. It's important, as well,  
26 what my friend is talking about that the wage increase is  
27 higher than embedded, I still am unclear if there is -- was  
28 there changes to a pension contribution, ratios -- I know

1 that's been an issue that's been, I believe, discussed with  
2 the panel and was discussed during cross-examination on  
3 panel 2, as well as discussed in previous Board decisions.  
4 There are the changes to overtime rules. I mean, usually  
5 these things are covering a lot more than just simply the  
6 wage increase.

7 MR. QUESNELLE: Mr. Vegh, you mentioned that there's  
8 still conversation going on. Have you received final  
9 direction from your client as to whether or not they would  
10 be supplying the memorandum?

11 MR. VEGH: No, so I wouldn't take this as an  
12 objection, sir. I would say that my -- as currently  
13 advised, they are still reviewing it, and they are not in a  
14 position right now to agree to provide it, because they are  
15 still reviewing it and still reviewing it, frankly, with  
16 the PWU, so we are not in a position to agree to provide  
17 that information today, but I wouldn't take this as a  
18 refusal, and of course we are in the Board's hands as to  
19 what should be the next step.

20 MR. QUESNELLE: I suppose from a timing perspective  
21 obviously the provision of it in advance of argument would  
22 be, you know, obviously preferred. And so -- and we  
23 haven't discussed the schedule on that, but maybe when we  
24 get to that conversation we can revisit this and get some  
25 assurance that we could have it, the caveat that -- the  
26 argument schedule around the provision of it, assuming that  
27 it will be provided, but I recognize you haven't got final  
28 direction on that as well.

1 MR. VEGH: Yes, it would be helpful when we talk about  
2 the "it" that's being provided -- as I say, it's not a  
3 refusal, but I think there is still some concern about  
4 putting it out in the public as opposed to, say, a summary  
5 of what's in the memorandum of agreement.

6 MR. QUESNELLE: Well, and I suppose if your client  
7 wants to apply for a confidential treatment at this point,  
8 Mr. Rubenstein, would that be preferred to a summary? Or  
9 both, I suppose.

10 MR. RUBENSTEIN: Well, sure. I mean, I am somewhat  
11 unclear of why at this point there should be any  
12 confidentiality, since it's been ratified, but putting that  
13 aside, I don't fully understand, and maybe I don't fully  
14 understand this at all, so that's fine.

15 That's fine, but just to be clear of what we are  
16 seeking, it's in addition to the memorandum of agreements,  
17 understanding the impacts on the distribution business. So  
18 this is a PWU contract that -- for the entire company, and  
19 we are interested in understanding that but also  
20 understanding what those impacts may look like for the  
21 revenue requirement in either direction. I know they are  
22 not seeking relief, but to understand just -- even with the  
23 increase being above, what actually does that look like in  
24 the revenue requirement, as well if there are other  
25 implications that just are not simple flow-throughs or  
26 pension adjust -- if there's a contribution change or a  
27 lump-sum payment, or those things that don't easily map,  
28 that we would understand that.

1 MR. QUESNELLE: Thank you, Mr. Rubenstein.

2 So Mr. Vegh, if you just want to take that under  
3 advisement when you are having conversation with your  
4 client, then you know what the request is for anyway and  
5 see what your client is willing to provide.

6 MR. VEGH: Thank you. And I think the -- I think  
7 that's fair. Why don't I take that away then.

8 MR. QUESNELLE: All right.

9 MR. VEGH: That's -- we do have some -- the witnesses  
10 were going to provide some information requested, but I  
11 think there are a couple of other preliminary matters that  
12 we can address first, and then we will hand it back.

13 MR. QUESNELLE: Great. Okay. Thank you.

14 Ms. DeMarco?

15 MS. DeMARCO: Mr. Chair, I do have a preliminary  
16 matter, and it pertains to the Anwaatin panel that's  
17 scheduled to appear on direct and cross-examination  
18 tomorrow, and if it pleases the Panel, we undertake to  
19 determine who wishes to cross-examine, and it appears as  
20 though, subject to a few qualifications of Board Staff,  
21 which may be achieved through undertaking, there is no one  
22 who wishes to cross-examine, so we may be in a position to  
23 stand down that panel if it's convenient for you.

24 MR. QUESNELLE: All right. Well, we are prepared to  
25 just receive the evidence as filed, and any undertakings  
26 that you are willing to take, I believe it's Board Staff  
27 that had some clarifications that we could -- that you  
28 would undertake to respond to?

1 MS. DeMARCO: It's my understanding that they may wish  
2 to file those as undertakings with the court reporter and  
3 we will undertake to respond to them promptly.

4 MR. QUESNELLE: Okay. Mr. Sidlofsky, do you want to  
5 do it that way? Do you want to read it into the record  
6 or --

7 MR. SIDLOFSKY: I could do it either way. I do have a  
8 paper copy here, but I'd be happy to read it into the  
9 record and simply have my friend Ms. DeMarco undertake to  
10 provide responses.

11 MR. QUESNELLE: Is that satisfactory?

12 MS. DeMARCO: Sure.

13 MR. QUESNELLE: Okay, let's do that.

14 MR. SIDLOFSKY: Okay. Board Staff had two questions  
15 for Anwaatin. First, on June 15th, 2018 a settlement  
16 proposal was filed between Anwaatin Inc. and Hydro One with  
17 respect to the "Motion to review and vary the Ontario  
18 Energy Board's decision on Hydro One Networks Inc.'s  
19 transmission rates in EB-2016-0160." This has been filed  
20 as Exhibit K4.4 in this proceeding. The question is:  
21 Please discuss what impact, if any, Anwaatin believes the  
22 filing of this settlement proposal would have on this  
23 proceeding.

24 The second question refers to Anwaatin's response to  
25 Board Staff Interrogatory No.8, and in that interrogatory  
26 Board Staff had asked Anwaatin to state what it is  
27 requesting that the OEB direct Hydro One to do in its  
28 decision on the application. In that response Anwaatin

1 said that it hoped to be in a position to provide the Board  
2 with further information in short order. The question now  
3 is: Is Anwaatin now in a position to do this, given the  
4 filing of the settlement agreement on June 15th?

5 MR. QUESNELLE: Okay, thank you. And so undertaking  
6 number?

7 MR. SIDLOFSKY: And that will be Undertaking J11.4.

8 **UNDERTAKING NO. J11.4: WITH REFERENCE TO EXHIBIT K4.4**  
9 **IN THIS PROCEEDING, (1) PLEASE DISCUSS WHAT IMPACT, IF**  
10 **ANY, ANWAATIN BELIEVES THE FILING OF THIS SETTLEMENT**  
11 **PROPOSAL WOULD HAVE ON THIS PROCEEDING; (2) WITH**  
12 **REFERENCE TO ANWAATIN'S RESPONSE TO BOARD STAFF IR NO.**  
13 **8, AND IN THAT INTERROGATORY BOARD STAFF HAD ASKED**  
14 **ANWAATIN TO STATE WHAT IT IS REQUESTING THAT THE OEB**  
15 **DIRECT HYDRO ONE TO DO IN ITS DECISION ON THE**  
16 **APPLICATION; IN THAT RESPONSE ANWAATIN SAID THAT IT**  
17 **HOPED TO BE IN A POSITION TO PROVIDE THE BOARD WITH**  
18 **FURTHER INFORMATION IN SHORT ORDER. THE QUESTION NOW**  
19 **IS: IS ANWAATIN NOW IN A POSITION TO DO THIS, GIVEN**  
20 **THE FILING OF THE SETTLEMENT AGREEMENT ON JUNE 15TH?**

21 MR. QUESNELLE: Great, thank you Ms. DeMarco.

22 Okay, Mr. Vegh. Updates or new information?

23 MR. VEGH: Yes, thank you, so Mr. Andre would like to  
24 address a request from this morning's discussion.

25 MR. ANDRE: So Ms. Girvan had asked about whether the  
26 impacts -- bill impacts shown in Interrogatory I.53.CCC.68  
27 are still accurate. And as, Mr. Quesnelle, you pointed  
28 out, understanding the impact on the revenue requirement --

1 the changes to revenue requirement that Hydro One has made  
2 over the course of this application would be helpful, and  
3 so I did that over lunch.

4 So the impacts that are shown in CCC 68 are relative  
5 to what was filed in June. I know the response references  
6 Exhibit Q, but that's with respect to the changes in the  
7 allocation to the acquired utilities that was factored in.  
8 But in terms of a revenue requirement, it's still referred  
9 to the June revenue requirement.

10 So with respect to June, we had in Exhibit Q made some  
11 changes to revenue requirement and those are detailed in  
12 the evidence. And then panel 1 laid out some changes in  
13 revenue requirement related to the Fair hydro Plan, the  
14 impact on bad debt. Panel 1 also talked about changes to  
15 revenue requirements related to updating for the 2017  
16 actuals, and then the fourth item is the changes in  
17 external revenue that we discussed on this panel this  
18 morning.

19 So when you look at the combined impact of all of  
20 those items, the impact on all rate classes in 2021 would  
21 be a .3 percent, a .3 impact on distribution rates and for  
22 a typical residential customer, that's about a .1 percent  
23 impact on total bill. That would be for all classes.

24 Now, because of the adjustment factors, the acquired  
25 utilities or these new acquired classes would share in less  
26 than that. So in terms of the impact on -- the bill  
27 impacts shown on this interrogatory response, we are  
28 actually looking at a total bill impact of less than

1 .1 percent is what we would estimate.

2 MR. QUESNELLE: Okay, that's helpful. Thank you very  
3 much. Okay, anything else Mr. Vegh?

4 MR. VEGH: No, thank you.

5 MR. QUESNELLE: That's fine. Mr. Sidlofsky?

6 **CROSS-EXAMINATION BY MR. SIDLOFSKY:**

7 MR. SIDLOFSKY: Thank you, sir. Good afternoon, my  
8 name is James Sidlofsky and I am counsel with OEB Staff,  
9 and I think I am scheduled for 30 minutes this afternoon  
10 with you, I think I will be briefer than that. I have a  
11 small number of questions for you.

12 In your responses to both Staff interrogatories 242 --  
13 sorry. Staff have a compendium and members of the panel  
14 have a copy of that. I apologize. I should have entered  
15 that as an exhibit and it will be K11.5 (sic).

16 **EXHIBIT NO. K11.4: BOARD STAFF CROSS-EXAMINATION**  
17 **COMPENDIUM FOR HONI PANEL 7**

18 MR. QUESNELLE: It's hard to drive the limousine and  
19 sit in the back seat at the same time, Mr. Sidlofsky.

20 MR. SIDLOFSKY: I am doing it all, sir. If I could  
21 take you to page 2 of the compendium, you'll find copies of  
22 OEB Staff Interrogatory No. 242. That's Exhibit I, tab 49,  
23 schedule Staff 242, followed by a copy of Exhibit I, tab  
24 49, schedule Staff 243, your response to OEB Staff  
25 Interrogatory No. 243.

26 And in the responses to both of those interrogatories,  
27 it happens to relate to part C of both of those  
28 interrogatories, Hydro One said that once the rate freeze

1 period ends for the acquired utilities and their rates are  
2 harmonized into Hydro One's rate structure, Hydro One will  
3 no longer separately track the costs associated with the  
4 acquired utilities.

5 MR. ANDRE: Yes, that's correct.

6 MR. SIDLOFSKY: Now, just a question about that. When  
7 you say harmonized into Hydro One's rate structure, are you  
8 talking about merging the acquired utility rate classes  
9 into Hydro One's existing rate classes, or simply about  
10 completing cost allocation and rate design with the new  
11 classes included?

12 MR. ANDRE: Absolutely the second one. We are not  
13 merging them -- well, the street lights and sentinel  
14 lights, there are some of smaller classes that are getting  
15 merged with Hydro One classes.

16 But I am referring to 2021, the year that we create  
17 those new rate classes, the six new acquired rate classes.

18 MR. SIDLOFSKY: Just as an example then, when you are  
19 looking at moving Woodstock residential customers into new  
20 acquired urban residential rate class, you wouldn't be  
21 transitioning those at some point into the existing urban  
22 residential rate class. Is that correct?

23 MR. ANDRE: That's correct, we would not be doing  
24 that.

25 MR. SIDLOFSKY: So they will remain in the acquired  
26 urban residential class?

27 MR. ANDRE: That's correct.

28 MR. SIDLOFSKY: And is it still your intention to not

1 separately track the costs associated with the acquired  
2 utilities?

3 MR. ANDRE: Yes, that's correct. You are not able to  
4 generate the efficiencies that you are counting on within  
5 your business structure if you need to continue to  
6 separately track, from a work tracking perspective as well  
7 as financial tracking perspective, if you need to keep  
8 those separate.

9 So yes, we are still planning to integrate them.

10 MR. SIDLOFSKY: If I could take you to page 7 of the  
11 compendium -- well, really what you will find there is the  
12 word no. But to be fair, I should take you to page 6 of  
13 the compendium.

14 And the question in OEB staff Interrogatory No. 265,  
15 Exhibit I, tab 56, schedule Staff 265 is -- sorry, in part  
16 (b) of that, the question is: Does Hydro One plan to  
17 eventually harmonize rates for acquired utilities with the  
18 rates for the legacy customer base?

19 Your answer to that question is no, and you go on to  
20 say that you use the -- you plan to use the proposed  
21 adjustment factors included in the cost allocation in all  
22 future cost allocation runs, so that existing acquired  
23 utilities will attract a share of any growth or decline in  
24 the total investments Hydro One requires to serve all of  
25 its customer base. That's your plan?

26 MR. ANDRE: Yes, and I think the only refinement to  
27 that is both at the technical conference and I think in a  
28 subsequent technical conference undertaking, we clarified

1 that perhaps way down the road that there may be a need to  
2 revisit the quantum of those adjustments, but certainly not  
3 in the next five to ten years.

4 So this, as I say, was slightly tweaked in that  
5 undertaking response.

6 MR. SIDLOFSKY: Okay. And if we move to page 9 of the  
7 compendium, and this is part of your answer to undertaking  
8 JT3.26-3, so this was an undertaking from the technical  
9 conference, you say that Hydro One's total new capital  
10 spending, both within and outside the acquired utility's  
11 service territories, will be shared by all Hydro One  
12 customer classes. This includes the acquired rate classes  
13 who will attract a share of all new capital spending as a  
14 result of the cost allocation model's underlying  
15 methodology and the use of the proposed GFA adjustment  
16 factors. Therefore, there's no need to separately track  
17 the costs associated with the acquired utilities.

18 And that remains your position, correct?

19 MR. ANDRE: Yes.

20 MR. SIDLOFSKY: If, for example, Hydro One determined  
21 a significant amount of capital upgrades were required in  
22 Woodstock, just to name one of the acquired utilities, and  
23 those upgrades were much more than the average requirement  
24 across Hydro One's service territory, would that increase  
25 the costs that feed into the adjustment factors?

26 MR. ANDRE: No, it would not. So the adjustment  
27 factors are developed based on the capital additions that  
28 have been made up to 2021, so it reflects the relationship

1 between assets required by the acquired utilities versus  
2 Hydro One's total asset base, and those adjustment factors  
3 would stay.

4 I mean, I think people could argue that perhaps, you  
5 know, in this case in the example that you just gave, Mr.  
6 Sidlofsky, yes, there are -- there would be investments in  
7 Woodstock, and so people might argue is it fair that they  
8 get just the adjusted share of those investments going to  
9 them?

10 I think other people would argue is it fair that they  
11 are getting share of the common costs and shared services  
12 per the methodology that we have?

13 So, you know, I think there is an allocation process  
14 that's going on, and that allocation process ties back to  
15 the total costs that Hydro One incurs to provide service to  
16 all of its customers, and that means that the acquired  
17 utilities get a share of things like investments and they  
18 share in the investments that are outside their service  
19 territory. But by the same token, customers outside that  
20 service territory share in the investments that are made  
21 within the acquired utility service territory.

22 So it's essentially the same concept as postage  
23 stamps. You then share those costs just as you share the  
24 common and shared service-type assets equally among the  
25 legacy and acquired customers.

26 So, yes, there is a sharing and that is our proposal.

27 MR. SIDLOFSKY: But once you -- once you establish the  
28 adjustment factors, you are not contemplating changing

1 them.

2 MR. ANDRE: No. So investments, investments that are  
3 made will -- you know, Woodstock and -- Woodstock -- all of  
4 the six new acquired classes will get a share of any new  
5 investments that Hydro One makes, whether that new  
6 investment is, you know, outside the acquired service  
7 territories or inside the acquired service territories, and  
8 really it's the only practical way that we could see that  
9 you could do that without tracking, you know, without  
10 continuing to track the acquired utilities separately,  
11 which I think would have large implications that the other  
12 panels probably would have been in a better position to  
13 speak to. But I know it would have big implications on  
14 Hydro One's business if we needed to continue doing that.

15 MR. SIDLOFSKY: So if I can just take you up a  
16 paragraph to part (c) of your response to that undertaking,  
17 so also on page 9 of the compendium, you seem to be  
18 acknowledging the possibility of an update to the  
19 adjustment factors, and I will read a portion of this  
20 paragraph. You state in there that:

21 "In the long-term, as more of the original assets  
22 are replaced at Hydro One's installed capital  
23 costs, Hydro One will assess the need to update  
24 the currently proposed adjustment factors."

25 So in part (d) of that response you have said that you  
26 are not planning to separately track the costs associated  
27 with the acquired utilities, so the question becomes if  
28 costs aren't being separately tracked how can you update

1 the adjustment factors at a later date?

2 MR. ANDRE: So we haven't thought through the precise  
3 methodology that would be used, but it would relate to --  
4 and I think I mentioned this before -- it would relate to  
5 the end of life of the assets. So, you know, all of the  
6 wood poles and transformers and conductor all have an end  
7 of life, and as the assets approach the end of life, the  
8 expectation would be that they would need to be replaced  
9 within the service territory that the acquireds are in, and  
10 so understanding how much time has passed and how much of  
11 the assets are likely to have been replaced since the time  
12 that they were integrated, I think that would be the basis,  
13 and it would be something that would need to be proposed to  
14 the Board at the time that we suggest a change to the  
15 adjustment factors. We would have to defend the  
16 methodology, rationalize the methodology. But at this  
17 point in time what I think would happen is you would have  
18 to defend that methodology based on the length of time that  
19 has passed and the likelihood of the assets within those  
20 acquired utilities having been replaced and now being at  
21 Hydro One's installed costs, as opposed to the original  
22 installed cost.

23 MR. SIDLOFSKY: Okay, thanks, Mr. Andre.

24 A few questions -- a very few questions about specific  
25 service charges. Could I take you to page 15 of the  
26 compendium. This is an extract from Exhibit E1, tab 1,  
27 schedule 2, and specifically it's page 9 of 20. There was  
28 some discussion earlier today about an updated approach to

1 some of the specific service charges, but what I am going  
2 to touch on here is Hydro One's statement in Exhibit E1,  
3 tab 1, schedule 2 that it expects the volume of many  
4 specific service charges to decline as more customers move  
5 to online self-service tools. That's your expectation;  
6 correct?

7 MR. BOLDT: Yes.

8 MR. SIDLOFSKY: Could you tell me what Hydro One is  
9 doing to promote the use of those self-help options and, I  
10 guess, in relation to that, what you are doing to assist  
11 customers in avoiding the use of services where they can?

12 MR. BOLDT: Well, I think my colleague Imran Merali  
13 spoke of this earlier in the week. It's more under his  
14 shop, if you will, but it's my understanding that when  
15 customers do call looking for services, they do direct them  
16 to the web portal to try to allow them to go and get their  
17 own information. I do believe that there's bill stuffers.  
18 I think there's notices as well that they are doing to try  
19 to just notify people of the options that are available.

20 MR. SIDLOFSKY: So it's bill stuffers that --

21 MR. BOLDT: I believe it's more than that, but it's  
22 certainly not my -- it would be better directed to Imran  
23 Merali, this question.

24 MR. SIDLOFSKY: Okay. Is it fair to say that you are  
25 taking steps to let customers know about their self-service  
26 options?

27 MR. BOLDT: Yes, I believe they are even from earlier  
28 discussions earlier this week that I heard Imran say that

1 they are actively notifying people, yes.

2 MR. SIDLOFSKY: Okay, I am going to ask just a couple  
3 of questions to conclude about rate code 16. And that  
4 is -- that's the collection of account charge with no  
5 disconnection. And you're proposing that that charge would  
6 go from \$30 -- and, sorry, I will take you to page 19 of  
7 the compendium. And that's an extract from Exhibit H1, tab  
8 2, schedule 3. And we see that rate code 16 is proposed to  
9 increase from \$30 to approximately \$96, \$95.65.

10 At what point in the arrears or disconnection timeline  
11 would that charge apply? So if I take you to the last page  
12 of the compendium, page 23, this is your response to OEB  
13 Staff Interrogatory No. 4, Exhibit I, tab 2, schedule Staff  
14 4.

15 So we have a timeline, and I think I actually had a  
16 bit of a discussion with Mr. Merali, or one of the parties  
17 did, about this lengthier process before you actually get  
18 to disconnection, the timeline that's at the top of the  
19 page.

20 So my first question would be, where on that timeline  
21 would that charge be imposed?

22 MR. BOLDT: Okay, first off, on the -- on page 13 that  
23 you directed me to, these are 2016 costs from the time  
24 study. The 2018 charge for this same code is found in H1,  
25 tab 2, schedule 3, page 5 of 112. And it's actually going  
26 -- for 2018 it's going to \$100.

27 Based on what's on the screen right now, the charge  
28 does not get charged until after the disconnection. So

1 when it's physically disconnected is when this -- oh, I am  
2 sorry, no, let me back up. This is a collection, no  
3 disconnection.

4 MR. SIDLOFSKY: That's right.

5 MR. BOLDT: So at the point that they go to the  
6 disconnection, so all the way through where there is a door  
7 hanger hung, disconnect letter done, live call made, then  
8 what happens is the disconnect order is issued to our field  
9 staff. At that point they will roll a truck today if there  
10 is not a disconnect meter on their remote disconnect meter,  
11 and it's when the person arrives in the yard to discuss to  
12 the customer that they are going to disconnect them that  
13 day, and the payment is made, then that is when this  
14 gets -- there's a physical trip to the yard where the  
15 collection's paid on that day, and that's where this would  
16 be applied.

17 MR. SIDLOFSKY: So the charge -- sorry, so the charge  
18 is only applied when there's a truck roll?

19 MR. BOLDT: Currently, yes. Our cost on this study  
20 that we did, it was for truck rolls, as I mentioned earlier  
21 today. And like Mr. Merali has said earlier, what they are  
22 doing is if there is a physical disconnection of the  
23 service at a meter they are deploying remote disconnect  
24 meters, so that when the reconnection happens they don't  
25 have to roll a truck again.

26 So this would be in a situation where we actually  
27 physically do a truck roll and get to the site and the  
28 customer pays us or makes arrangements and we don't

1 physically do the disconnection on that day.

2 MR. SIDLOFSKY: Okay. So just so I am clear on that,  
3 if I get to -- if I am your customer and I get to the  
4 disconnect letter stage or the live call stage I won't be  
5 charged that \$100?

6 MR. BOLDT: No, it's not until someone comes to the  
7 site.

8 MR. SIDLOFSKY: Okay. If you can just bear with me  
9 for a moment, Mr. Quesnelle.

10 MR. QUESNELLE: Okay.

11 MR. SIDLOFSKY: In the conversation this morning about  
12 certain rates not going up, the question is why is this  
13 particular rate going up based on the study where you're  
14 not proposing to change other rates?

15 MR. BOLDT: So if you were to follow this process in a  
16 situation like we spoke of this morning or earlier today  
17 with the remote disconnect meter, what will happen -- and  
18 it's forecast that upwards half of the meters at some point  
19 will have remote disconnects or more than that on them.  
20 After the 48-hour call, the live call, the disconnection's  
21 going to happen automatically from our central call centre,  
22 or wherever it will be.

23 The proposal here is that it would still go up because  
24 if you are in a location where the remote meter isn't  
25 located, or basically there's no remote disconnect meter on  
26 the service, we are physically now driving to this location  
27 to actually do the work. And at this point, that's why we  
28 are proposing that you would have to still charge that

1 cost, to recover the cost of that roll of the truck.

2 MR. SIDLOFSKY: Because you are actually signing  
3 assets and going out there and doing it.

4 MR. BOLDT: Correct.

5 MR. SIDLOFSKY: As opposed to doing everything  
6 remotely or from your call central or a central location.

7 MR. BOLDT: Correct. So this would only take effect  
8 if there wasn't a remote ability to disconnect that  
9 service.

10 MR. SIDLOFSKY: Okay, thank you. Those are my  
11 questions, thank you, panel.

12 MR. QUESNELLE: Thank you, Mr. Sidlofsky. Ms. Keon?

13 **CROSS-EXAMINATION BY MS. CHIDICHIMO KEON:**

14 MS. CHIDICHIMO KEON: Yes, thank you, and good  
15 afternoon. My name is Ada Keon and I am here on behalf of  
16 the City of Hamilton. I just have a few questions about  
17 street lights.

18 I have a compendium. Can I ask that it be made an  
19 exhibit at this timer?

20 MR. QUESNELLE: Mr. Sidlofsky?

21 MR. SIDLOFSKY: Sorry, that allows me to correct my  
22 other numbering. K11.4 was the Staff compendium. K11.5  
23 will now be the City of Hamilton compendium.

24 MR. QUESNELLE: Thank you.

25 **EXHIBIT NO. K11.5: CITY OF HAMILTON CROSS-EXAMINATION**  
26 **COMPENDIUM FOR HONI PANEL 7**

27 MS. CHIDICHIMO KEON: So to begin, I would like you to  
28 turn to tab 1, page 1, and at the top of the page, you will

1 see table E4 which is from the pre-filed evidence.

2 I take it that this table is intended to show the  
3 number of customers, historical and forecast, that  
4 contributed to Hydro One's load forecast.

5 MR. ALAGHEBAND: That is correct.

6 MS. CHIDICHIMO KEON: And would you agree, subject to  
7 check, that for the period between 2017 and 2020, the  
8 forecast is that the number of customers will grow by only  
9 about 2 percent for the street light rate class?

10 MR. ALAGHEBAND: I should mention that the 2021 and  
11 '22 includes the acquired street lights.

12 MS. CHIDICHIMO KEON: Yes.

13 MR. ALAGHEBAND: It looks correct, yes, approximately.

14 MS. CHIDICHIMO KEON: And so if we turn to page 2,  
15 then, I understand that this is table E6 and it shows Hydro  
16 One's actual sales and forecasted sales in gigawatt-hours  
17 for its various rate classes.

18 MR. ALAGHEBAND: That is correct.

19 MS. CHIDICHIMO KEON: And would you agree with me that  
20 the values for the period up to 2022 are essentially flat,  
21 with the exception of the acquired utilities in 2021 and  
22 2022?

23 MR. ALAGHEBAND: That is correct, yes.

24 MS. CHIDICHIMO KEON: And then turning one more page  
25 to page 3, at the bottom half of the page on table E9, this  
26 is from the pre-filed evidence and it shows Hydro One's  
27 calculations of the CDM impacts by rate class.

28 MR. ALAGHEBAND: That is correct.

1 MS. CHIDICHIMO KEON: And this calculation is done  
2 because CDM programs impact the rate class?

3 MR. ALAGHEBAND: These are standard CDM rate class  
4 impacts. Yes, we had -- for all these categories we had a  
5 CDM amount, so it's shown here. For example, for  
6 distributor generation, it doesn't apply so it doesn't show  
7 up.

8 MS. CHIDICHIMO KEON: But in general, these figures  
9 are here because the assumption is that CDM programs have  
10 the effect of reducing consumption and reducing sales?

11 MR. ALAGHEBAND: That is correct, yes.

12 MS. CHIDICHIMO KEON: And you have acknowledged in the  
13 evidence that the City of Hamilton has a CDM program in the  
14 form of an LED conversion for street lights?

15 MR. ALAGHEBAND: That is correct. We had a CDM  
16 program there and we are continuing having that one. And  
17 then there is -- as I mentioned earlier, in CDM fields that  
18 you see here, these are the standard CDM categories which  
19 were identified in things like LTEP, things like Ontario  
20 Power Outlook -- planning outlook. But we didn't have a  
21 standard category for street lights. The street lights  
22 were always -- there was nothing assigned to that.

23 And as I mentioned in many responses before, that CDM  
24 is taking into account in terms of implicit CDM in that  
25 historical views.

26 MS. CHIDICHIMO KEON: So going to that notion of  
27 implicit calculation which you have mentioned before in the  
28 undertakings --

1 MR. ALAGHEBAND: Yes.

2 MS. CHIDICHIMO KEON: -- could you explain what that  
3 means, an implicit calculation?

4 MR. ALAGHEBAND: If you go back to response to  
5 undertaking JT1.1...

6 MS. CHIDICHIMO KEON: Yes, I believe I have that in  
7 the compendium on page 4.

8 MR. ALAGHEBAND: Oh, yes, okay. So if you go back to  
9 that one, the answer is that in response to undertaking  
10 number 4(c), we see that there are two components related  
11 to street lighting. One is how much load is increasing,  
12 and the other one is how much number of customers or number  
13 of street lights are increasing.

14 So during this period, during the historical and  
15 forecast period, of course we are forecasting that the  
16 number of street light customers will increase, and that  
17 increase would imply new load coming to the system. But at  
18 the same time we have efficiency improvements, like what we  
19 did in City of Hamilton, that would have a negative impact  
20 on the load. So we have a negative impact on the load  
21 because of the efficiency improvements, and we have a  
22 positive impact because of the increase in number of  
23 customers.

24 So to figure out that how much implicitly was saving  
25 there, we need to do a little further calculations, and I  
26 did some already, so that we can save time on this hearing.  
27 If I get your attention back to Exhibit E1, tab 2, schedule  
28 1, which is the main forecast document, and we go to page

1 39 -- I think these tables are also shown in your  
2 compendium, but I did my calculations on that basis. So  
3 you can refer to your compendium on this one if you refer  
4 us to where is the corresponding table for E4, or we can  
5 look at it here, yes.

6 Table E4 is on page 39. You can see, for example, on  
7 this table, for the period that we had all these  
8 improvements, efficiency improvements, the number of street  
9 light customers went up from 4,724 in 2012 to 5,286 in  
10 2017. That reflects almost a 12 percent increase in the  
11 number of customers.

12 I should make one more qualification here and it's  
13 that this number of customers doesn't -- this 12 percent  
14 doesn't really reflect total number of increase in street  
15 lights, because some of -- when we call a street light  
16 customer we are referring to contracts. For example, the  
17 township may have only one contract, and within that  
18 township if the increased number of street lights, the  
19 number of contract doesn't change, so it has no impact on  
20 number of customers. So the 12 percent increase that you  
21 see is the minimum increase in the number of customers that  
22 we observe for street lights.

23 MS. CHIDICHIMO KEON: So just to clarify for myself,  
24 then, so you are saying that the 12 percent increase in  
25 Table E4 is a calculation which has already taken into  
26 account the efficiencies of, I believe 22 gigawatt-hours  
27 that have been identified previously?

28 MR. ALAGHEBAND: Well, let me explain more. This is

1 -- in Table E4, we are just only showing the total increase  
2 in number of customers. So my conclusion is that if you  
3 were going to have same efficiency for our street lights,  
4 the gigawatt-hour, the sales in the street light should  
5 also -- would have been increased by 12 percent, whereas it  
6 didn't. If you go to table, just a little, scrolling down  
7 to Table E6, for example, we see that from 2012 to 2017 the  
8 load actually went down from 127 to 121, reflecting  
9 5 percent drop in the load.

10 So on one hand number of customers are increasing by  
11 12 percent, but the load is going down by 5 percent. So if  
12 we see what is happening to consumption per number of  
13 street customers, per street customer, the actual  
14 efficiency improvement has been 12 plus 5, which is  
15 19 percent increasing efficiency.

16 So that is what you call implicit efficiency  
17 improvement. You see number of customers going down, but  
18 load going down. It means that there has been efficiency  
19 improvement.

20 Now, if you multiply that 19 percent improvement times  
21 127 gigawatt-hours, it's about 22 gigawatt-hours, this is  
22 the 22 gigawatt-hours that we were actually mentioning, and  
23 you were actually mentioning that as being the savings  
24 during that period. So actually, the numbers match, and we  
25 believe that there has been more efficiencies actually  
26 going on. It's not reflected here, all of that, and that  
27 is compensated by, as I mentioned earlier, the number of  
28 customers grow, actually doesn't reflect the total increase

1 in number of the street lights, but anyways, we have the 22  
2 gigawatt-hour efficiency that we're improving, that we were  
3 talking about is already there implicitly.

4 MS. CHIDICHIMO KEON: Implicitly, okay.

5 MR. ALAGHEBAND: Yes, that's --

6 MR. QUESNELLE: Can I just interject for a second.

7 Mr. Alagheband, you -- did I catch you right that you are  
8 looking at the street lights at the Table E4?

9 MR. ALAGHEBAND: Yes.

10 MR. QUESNELLE: That that's the number of contracts?

11 MR. ALAGHEBAND: Yes, a customer for us is number of  
12 contracts that we have, so we count number of contracts.  
13 For example, I am aware that for City of -- for Haldimand  
14 we have only two contracts.

15 MR. QUESNELLE: So --

16 MR. ALAGHEBAND: It --

17 MR. QUESNELLE: So there isn't a -- you are saying 12  
18 percent at a minimum because the number of contracts have  
19 gone up, so that assumes that each contract had one street  
20 light, or 1 percent rather --

21 MR. ALAGHEBAND: Well, if you had -- sorry, my point  
22 was the other way around. I am saying that for the  
23 township we had one contract, and number of street lights  
24 in that township goes up, that one stays one, so it doesn't  
25 show any growth --

26 MR. QUESNELLE: I'm just asking --

27 MR. ALAGHEBAND: -- street lights are going off,  
28 actually.

1 MR. QUESNELLE: That does confirm my understanding of  
2 what you said.

3 MR. ALAGHEBAND: Oh, okay.

4 MR. QUESNELLE: So to correlate this properly, do you  
5 have another layer of granularity? Did you have a total  
6 street light population?

7 MR. ANDRE: Yes, we do, and so the cost allocation  
8 model actually references the number of street lights.  
9 That number is what's used in the -- well, we use both. We  
10 use number of contracts for the purpose of bills that are  
11 sent out, but for the other allocation we use the number of  
12 street lights, so it is in there.

13 MR. QUESNELLE: Okay, thank you.

14 MS. CHIDICHIMO KEON: And so just to confirm then,  
15 although, you know, you have the 22 gigawatt-hour savings  
16 that you have calculated, that number isn't going to be  
17 reflected in Table E9 because it is not a standard rate  
18 class that you include in that chart?

19 MR. ALAGHEBAND: Yeah, that's the problem, you know,  
20 that when we are allocating the CDM into different rate  
21 classes we have to have a category, a standard category for  
22 that, based on things like LTEP, things like Ontario  
23 Planning Outlook, and we don't have that category there, we  
24 have a special program, and we got the approval from IESO  
25 to do the street lighting savings, but they still don't  
26 show that as a separate category of CDM, whatever you may  
27 call it, as a CDM.

28 MS. CHIDICHIMO KEON: Okay. And so -- so this data is

1 what we have, because you will understand that from my  
2 perspective or from the client's perspective when you look  
3 at these tables together, when you see the flat load  
4 growth, what essentially looks fairly flat plus flat sales  
5 growth, and not seeing any CDM accounted for in Table E9,  
6 it's hard to understand the impact of a CDM program.

7 MR. ALAGHEBAND: I completely understand that, yes, I  
8 understand.

9 MS. CHIDICHIMO KEON: So in the technical conference  
10 undertaking response that is on page 6 -- I believe we have  
11 referred to it already -- you say that you do not forecast  
12 specific CDM amounts, although there is the 13 gigawatt-  
13 hours of savings from 2018 to 2022, and this appears to be  
14 a forecast. What data was used as the basis for this 13  
15 gigawatt-hour figure?

16 MR. ALAGHEBAND: Okay, for -- again, we are looking at  
17 the trends in number of customers and the sales. We were  
18 looking at those figures just a minute ago.

19 So we look at those trends and test the dynamics of  
20 that over time and come up with a forecast of number of  
21 customers and load in the future. So again, we have a kind  
22 of implicit method of forecasting those future, say,  
23 gigawatt-hours of street lighting.

24 MS. CHIDICHIMO KEON: And is this data available or  
25 could it be produced?

26 MR. ALAGHEBAND: It is already there. You already see  
27 that, what is the gigawatt-hour load, and you see how much  
28 is the share of the street lighting in total load, so we

1 have it, and we take that into account going forward.

2 MS. CHIDICHIMO KEON: Mr. Chair, I know that we are  
3 getting close to the scheduled break time. I can stop here  
4 and take back up on another subject once we come back if  
5 that's --

6 MR. QUESNELLE: No, carry on if that --

7 MS. CHIDICHIMO KEON: I don't have much longer.

8 MR. QUESNELLE: Okay, thank you.

9 MS. CHIDICHIMO KEON: So I take it that the rates for  
10 the street light rate class, they are not just the rates  
11 for the city of Hamilton, you have other street light  
12 customers?

13 MR. ALAGHEBAND: That is correct.

14 MS. CHIDICHIMO KEON: And how many other customers do  
15 you have?

16 MR. ANDRE: That figure, the 5,000, represents the  
17 number of contracts. You know, some contracts, like Mr.  
18 Alagheband said, are with the city that have many lights,  
19 other contracts are with customers who maybe just have a  
20 few lights.

21 So in terms of the number of customers' contracts,  
22 that 5,000 figure would be the best estimate of a customer,  
23 a street light customer.

24 MS. CHIDICHIMO KEON: Okay. And when you're  
25 developing the rates for the street light class, do you  
26 consider whether each of those customers or contracts have  
27 CDM programs associated with them?

28 MR. ALAGHEBAND: Again, the method that we are using

1 is the implicit method, because for the ones that we have a  
2 control on, and I think that is the one which is already  
3 reflected in the savings that we were talking about, those  
4 things are implicitly taken into account. And that is the  
5 only way we can do it. We cannot, based on -- we have the  
6 actual number coming out of our billing system, and we  
7 cannot change those figures, saying that, oh, well, what  
8 would have happened if it was otherwise or something.

9 So we take that into -- those billing numbers are  
10 already reflecting the trends in that, and we take that  
11 into account going forward.

12 MS. CHIDICHIMO KEON: So my question is that when you  
13 are calculating these rates for the street class,  
14 presumably there are different customers that have  
15 different CDM programs in place, and these are being  
16 bundled together; is that correct?

17 MR. ALAGHEBAND: As long as Hydro One street lighting  
18 load is concerned, these are all Hydro One customers, so  
19 all the efficiency improvements is something that is  
20 reflected already in Hydro One data, so we don't need to  
21 actually go and ask each of these customers what is  
22 happening, so these are all Hydro One load, actually.

23 MR. ANDRE: Yeah, what I would actually add, though,  
24 is -- so with street lights we rely -- and we now have a  
25 process to contact street light customers on an annual  
26 basis, and we rely on them to advise us of efficiencies  
27 that have been implemented, so that then gets reflected in  
28 our actual billing. And then as Mr. Alagheband said, once

1 it's reflected in the actual billing, the historical data  
2 will show whether there's a trend in, you know, a  
3 decreasing trend in the consumption.

4 So when it comes to street lights, we do rely on our  
5 customers to advise us of changes to their consumption from  
6 efficiency or whatever other purposes.

7 MS. CHIDICHIMO KEON: Right, and as you said, there is  
8 hopefully an a net efficiency. But my question is --  
9 presumably, there are some customer who is do not have any  
10 types of CDM programs in place, and so they might not be  
11 achieving any efficiencies; is that fair to say?

12 MR. ALAGHEBAND: It is possible.

13 MR. ANDRE: Yes.

14 MS. CHIDICHIMO KEON: So a customer who does have a  
15 CDM program in place, but who is -- the effect of that  
16 could be diluted by other customers who do not have similar  
17 programs in effect; is that fair to say?

18 MR. ANDRE: Yeah, I mean, I think those customers who  
19 have those efficiency programs, what they will see the  
20 benefit of is once they communicate that change in load,  
21 the street lighting load to our billing services, what they  
22 will see is the rates remain as they were set on the  
23 assumption of whatever street light consumption was built  
24 in at that point in time when the rates were set.

25 If now, over the period of the application, if they  
26 generate efficiencies and they communicate those  
27 efficiencies to our billing group, they would actually see  
28 the benefit of lower rates because their lower consumption

1 would then be applied to the rates that have been fixed at  
2 a certain point in time.

3 MS. CHIDICHIMO KEON: Right. I understand they would  
4 benefit from the lower consumption rate. But I am  
5 wondering how a customer can evaluate the effect that their  
6 CDM program has on the actual structure of the rates, not  
7 just the volumetric charge.

8 MR. ALAGHEBAND: Let's put it this way. When there is  
9 only one, say, single customer out of those 5,000 does  
10 something, it would barely have any effect on the rate. It  
11 would be a little -- it would have some effect, but it  
12 would be very unnoticeable, okay. But the main benefit  
13 that they get is first of all, they pay less for commodity  
14 charge, they pay less for the volumetric charge of the  
15 distribution charges.

16 But one customer at a time, I mean, it is a little  
17 bit, you know, different -- I mean, it's difficult to  
18 configure that one township, for example, would make, for  
19 example, a 10 percent efficiency, so then all the Hydro One  
20 rates would chain.

21 No, it would have some effect, but it would be a small  
22 change.

23 MR. ANDRE: From a cost allocation perspective, you  
24 know, until that volume of street light customers become  
25 significant enough, which would be picked up in the trends  
26 of the historical data that Mr. Alagheband uses for his  
27 forecast, at that point you would start to see a potential  
28 impact on cost allocation and rate design. But any one

1 individual customer, it wouldn't have a material impact on  
2 cost allocation or rate design.

3 MS. CHIDICHIMO KEON: But would the data be available  
4 for that one individual customer to see even a very  
5 marginal effect of their CDM program on the cost allocation  
6 rate design? Is that data available at that level of  
7 granularity?

8 MR. ANDRE: So the inputs to the cost allocation model  
9 are the total consumption based on historical data,  
10 forecast forward per Mr. Alagheband's methodology, and that  
11 would be the input into the cost allocation model. You  
12 wouldn't have it at the granularity of an individual  
13 customer, no.

14 MS. CHIDICHIMO KEON: Just one moment. So could Hydro  
15 One report for each year of the IR regime -- I believe the  
16 answer is no, but the IR regime the actual and forecast CDM  
17 savings for each member of the street light class?

18 MR. ALAGHEBAND: Actually no, no we cannot.

19 MS. CHIDICHIMO KEON: And can Hydro One report, for  
20 each year of the IR regime, the forecast CDM savings for  
21 each member of the street light class for the remaining  
22 years of the IR regime?

23 MR. ANDRE: Not unless they have specifically advised  
24 our customer service centre that their consumption is  
25 changing. So it would be reflected in the historical data  
26 or -- sorry, in the actual billing data, billing  
27 determinants for an individual customer. But the customer  
28 would be aware of that, because they would have been the

1 ones communicating to us about their change.

2 MS. CHIDICHIMO KEON: And can Hydro One report, for  
3 each year of the IR regime, the impact on the proposed  
4 rates for the street light class of the actual and forecast  
5 CDM savings?

6 MR. ALAGHEBAND: I believe we did that --

7 MS. CHIDICHIMO KEON: We spoke act that already,  
8 actually, so that's okay.

9 MR. ALAGHEBAND: They're based on figures that were  
10 provided before -- let's go back. I think it was asked in  
11 one of the -- okay here it is.

12 So if you go back to Exhibit JT1.1, on page 8,  
13 actually this question was asked and we provided that if  
14 you go to the table which is shown on that table on the  
15 response -- oh, you haven't got it yet.

16 Yes, this is the table and as you can see, we are  
17 showing sales net of CDM in the first column, and just  
18 beside that, we are showing sales gross of CDM. The  
19 difference is the CDM impact.

20 MS. CHIDICHIMO KEON: Yes, but that's not broken out  
21 by individual customer.

22 MR. ALAGHEBAND: It cannot be by individual customer,  
23 no, sorry.

24 MS. CHIDICHIMO KEON: Okay. And, again, we touched on  
25 this already, so just to conclude, can Hydro One report,  
26 for each year of the IR regime, the impact on the street  
27 light rates the city pays of the savings actual and  
28 forecast from its LED conversion program?

1           My understanding based on your earlier responses is  
2 that these are bundled and so for an individual program,  
3 it's not possible to tell the impact on the rate design; is  
4 that correct?

5           MR. ANDRE: The impact on the rate design, no. I  
6 mean, the impact on the rate design wouldn't be felt until  
7 the next opportunity to reset rates as part of the next  
8 application, and at which point we would again use the  
9 actual total street lighting load plus the forecast for  
10 that period of the application, and set rates on that  
11 basis.

12           So the impact on rates wouldn't be impacted during the  
13 period of the application by any changes to a particular  
14 customer's use of street lights, or efficiency programs on  
15 that street light.

16           But what they could calculate, as I have indicated  
17 before, is to the extent that they have efficiency, they  
18 would know the rates that are in place and would be in  
19 place for the period of the application, and they would be  
20 able to apply those fixed rates to whatever savings they  
21 forecast and then be able to calculate the savings both on  
22 distribution rates, commodity and all of the other bill  
23 components.

24           MS. CHIDICHIMO KEON: Right. We are primarily  
25 focussing on the volumetric charge.

26           MR. ALAGHEBAND: May I also add that -- actually, you  
27 can do all this calculation, so you can measure how much  
28 savings, for example, are there per lamp and multiply that

1 by the savings that you make in terms of volumetric charge,  
2 commodity charge, to see how much savings you are making.

3 But in terms of how much of how much you were affected  
4 by that efficiency improvement program, how much you  
5 affected the street light overall rates, that would be a  
6 very minimal amount. So I don't think that would be  
7 actually something that would be of use to you.

8 The thing which is of use to you would be how much  
9 savings you are making; isn't that correct?

10 MS. CHIDICHIMO KEON: Well, I think it's to see the  
11 savings in terms of how the rate is structured. You would  
12 hope that by implementing an LED conversion program, you  
13 would benefit from lower rates.

14 And I am still having trouble following the example  
15 you gave in table E6, because -- and correct me if I am  
16 wrong, but would these numbers be higher if you had not  
17 already taken into account the effect of the CDM savings?

18 So we have these under table E6, just for example, the  
19 actual sales and the forecast gigawatt-hours, and we have  
20 spoken about them. They're 125, 127, 125; would those  
21 numbers have been higher but for the implicit calculation  
22 that had been done?

23 MR. ALAGHEBAND: We already went through that. I  
24 already was showing that if sales -- we consider sales  
25 growth of CDM, the numbers will have been much higher.

26 MS. CHIDICHIMO KEON: Right, and would those numbers  
27 be available, just so we could follow?

28 MR. ALAGHEBAND: I already gave you the numbers.

1 These are in Exhibit JT1.1. These are CDM sales. If we  
2 didn't have any CDM savings -- I mean, the gross sales that  
3 we are showing here is what would have been the load in the  
4 absence of CDM. We cannot say what the -- on the other  
5 hand sales for net of CDM is the correct version. This is  
6 based on historical trends. We believe that this is  
7 correct.

8 MR. ANDRE: And it would be those values net of CDM  
9 that would actually be used to establish the rates for that  
10 class.

11 MS. CHIDICHIMO KEON: Right, and -- okay. I see. And  
12 as you already said before, they are done on an aggregate  
13 amount.

14 MR. ANDRE: On aggregate amount and at the time of  
15 rate application, correct.

16 MS. CHIDICHIMO KEON: Okay. All right. Thank you  
17 very much. Those are all my questions.

18 MR. QUESNELLE: Thank you, Ms. Keon.

19 **QUESTIONS BY THE BOARD:**

20 MS. ANDERSON: Sorry, just a few follow-ups so I'm  
21 clear on how we deal with street lighting. So in your rate  
22 design tables I think you show again the number of  
23 customers for street lighting, but I believe on your tariff  
24 it would be per connection that the service charge would  
25 apply; is that correct?

26 MR. ANDRE: Yeah, the service charge applies per  
27 contract.

28 MS. ANDERSON: Per contract?

1 MR. ANDRE: Yeah, per contract.

2 MS. ANDERSON: Are you sure that's what's on your  
3 current tariff?

4 MR. ANDRE: Well, the -- because the -- and as you  
5 know, I think there were standardized language applied to  
6 all of the tariffs, and I know that for -- well, let's have  
7 a look. But we don't have the ability to levy by  
8 connection, because we don't have information from each  
9 customer on the number of connections they have. And  
10 certainly when we calculate the fixed charge, we take the  
11 fixed charged revenue to be collected and we divide it by  
12 the number of contracts. So we divide it by the number  
13 that we are going to bill on.

14 So I can tell you that it's billed on contract, and it  
15 may refer -- does it refer to connection? Yeah, we are on  
16 the same -- I think you were asking does the language --  
17 and if it says this would be the opportunity, I think, to  
18 clarify that and make sure it refers to -- I just want to  
19 see...

20 So the service charge, it simply says service charge,  
21 and a dollar, 4.07 (sic) is our proposed charge. There is  
22 no reference to per connection.

23 MS. ANDERSON: Right. That's your proposed. I guess  
24 I was -- I was seeking clarification on your existing, just  
25 to see whether that -- you know, if that's some  
26 typographical error or -- but you are saying it's based on  
27 contract, because you don't have connections --

28 MR. ANDRE: Yes, it's consistent with the way the rate

1 is calculated.

2 MS. ANDERSON: Okay, I will let you finish that --

3 MR. ANDRE: Yeah, the rate is calculated on a per  
4 contract basis, so we apply the charge on a per contract  
5 basis.

6 MR. LI: I can confirm that the existing -- or the  
7 current approved rate schedule has the same wording.

8 MR. ANDRE: Just service charge --

9 MR. LI: Service charge, and it's \$4.25 is the same  
10 definition.

11 MS. ANDERSON: Okay. My favourite topic of LRAM. In  
12 Exhibit E I see the CDM savings. There's a table for  
13 those, but they are on a total basis. Do you have that  
14 broken down by class for the purposes of the LRAM VA?  
15 Because if so, then you would have the CDM adjustment for  
16 street lighting, because that would be with the classes,  
17 right --

18 MR. ALAGHEBAND: Yeah -- okay. For LRAM VA, for E9,  
19 in Table E9, on the main application, we had by rate class,  
20 so it's simply -- by rate class it's standard rate classes,  
21 so we don't have, actually, any CDM category, official CDM  
22 category, for street lights. It's something like, you  
23 know, it is implicit in the forecast already for the --

24 MS. ANDERSON: I -- so this -- sorry, just so I am  
25 clear, then the purpose of E9, those are your are CDM  
26 targets for the LRAM.

27 MR. ALAGHEBAND: Yes, yes.

28 MS. ANDERSON: So you don't have a -- okay. That's

1 what you mean by you don't have an implicit one for a  
2 street light --

3 MR. ALAGHEBAND: Yes.

4 MS. ANDERSON: Okay.

5 MR. ALAGHEBAND: Yeah, these are actually -- okay.  
6 Clarification also. These are total CDM amounts. So CDM  
7 reflects the code and standards reflect and also energy  
8 efficiency effects, so these are not really for the --  
9 these are not really used for the purpose of LRAM. For  
10 purpose of LRAM for rate category is given another --  
11 another exhibit for Exhibit JT3.18-4.

12 And if we go to page -- if we go to page 3 -- yeah,  
13 that's -- these are the rate classes that would be -- is  
14 proposed to be in the LRAM VA threshold by rate class.

15 MS. ANDERSON: Okay. I apologize -- ask you to repeat  
16 what I am sure you have answered, is why is there not one  
17 for street lighting?

18 MR. ALAGHEBAND: The street lighting is implicit in  
19 the forecast already. It's not an explicit calculation of  
20 that one, it is implicit in the forecast.

21 MS. ANDERSON: Okay, thank you.

22 DR. ELSAYED: I just have one question. Mr. Andre,  
23 you said that you do not track the cost of the acquired  
24 utilities separately. Did I understand that correctly?

25 MR. ANDRE: Currently we do. Up to the time of  
26 harmonization as per -- or up to the time of the first  
27 application I think was the direction from the Board that  
28 we were to track the costs separately so that we could

1 identify the savings and identify the specific OM&A and  
2 capital spend associated with the acquireds.

3 But past that first application filing there is no  
4 requirement to track the acquired utility cost separately,  
5 no.

6 DR. ELSAYED: So you would have no way beyond that  
7 point of demonstrating that those savings and efficiencies  
8 continue to occur?

9 MR. ANDRE: Yes, that's correct. There's a certain  
10 period per the MAADs process where the rebasing is  
11 deferred, but then once rebasing occurs then it's all one  
12 integrated utility and there is no need to continue  
13 tracking those differences, including any savings  
14 differences.

15 DR. ELSAYED: But you do expect those benefits to the  
16 ratepayers to continue to happen beyond that point?

17 MR. ANDRE: Absolutely. The benefits to the  
18 ratepayers have built in -- have been built in by virtue of  
19 the adjustment factors that are part of the model, and  
20 those adjustment factors would continue, yes.

21 DR. ELSAYED: Okay, thank you.

22 MR. QUESNELLE: Just continuing on with that line, in  
23 the associated -- the acquired associated MAADs  
24 applications, the creation of Hydro One's evidence, I am  
25 just interested in the methodology and how that methodology  
26 compares to the use of the cost allocation model because,  
27 as I recall, the analysis that led the Board to conclude  
28 that the no-harm test had been met was based on an analysis

1 of cost to serve on density levels, comparable density  
2 levels.

3 So if there was an analysis available to determine  
4 what the similar density levels would be in a Hydro One  
5 area and that was used as a comparison to the existing cost  
6 in the proposed acquired entity, how does that differ now  
7 and why can't that be used to determine a rate, as opposed  
8 to the cost allocation model, the feed-ins, which, as you  
9 have described, is Hydro One as a whole, and then you are  
10 backing out certain assets to recognize the local asset  
11 requirements versus Hydro One as a whole.

12 So I am just interested in the cost structures that  
13 were used to determine whether or not the no-harm test had  
14 been met. What's the utility of those -- of that analysis  
15 today when we are setting rates?

16 MR. ANDRE: So Mr. Quesnelle, I am not as familiar  
17 with what was included in the MAAD applications. I do  
18 recall, though, and I think this is what you are referring  
19 to, that in that application we would have given a per-  
20 customer cost for an R1 customer, and we compare that to  
21 the per-customer cost for an average acquired utility  
22 customer at the time. Is that what you are referring to?

23 MR. QUESNELLE: I forget it if it was R1, but it was  
24 about density.

25 MR. ANDRE: Or I think for Woodstock, we might have  
26 used a UR customer.

27 MR. QUESNELLE: Correct.

28 MR. ANDRE: I have a hard time without looking at the

1 details of what was submitted with the MAAD application. I  
2 know that information was provided. I had thought the basis  
3 for deciding, you know, is there no harm, I thought it  
4 related more to the total costs of Hydro One.

5 But I do recall -- and I think we have talked about  
6 those costs have gone down, but I do recall the reference  
7 to specific utility, specific classes. The reality is that  
8 allocating it to -- allocating it to the acquireds to one  
9 of those classes would result in higher rates than the  
10 keeping them as a separate acquired class.

11 MR. QUESNELLE: I guess my point is more to the  
12 analysis that informed the Board on what it would expect in  
13 future reflection of those cost structures in rates. And I  
14 think that's what the Board said, was that there was an  
15 expectation that the underpinning costs that were  
16 demonstrated to be lower in the MAADs applications would be  
17 reflected in the rates. And I am not seeing any analysis  
18 that goes back to that same analysis that led the Board to  
19 that conclusion.

20 MR. ANDRE: I would agree there isn't analysis to  
21 that. There is an analysis -- I mean, the data on the cost  
22 to serve for a typical R1 customer, or any typical customer  
23 in any of the classes, can be extracted from the cost  
24 allocation results that have been filed.

25 But there is in comparison to what Hydro One is  
26 proposing to charge the acquired customers. What is  
27 provided is a comparison of the rates that these customers  
28 in these new acquired classes will face, and I have gone

1 over that and I think it demonstrates that, you know,  
2 whether you are comparing to their current frozen rates or  
3 what their rates would have been if they had not been  
4 acquired, and I think that comparison of rates clearly  
5 shows that there is a benefit to customers.

6 But I take your point about the comparison on a cost  
7 basis isn't there.

8 MR. QUESNELLE: And Dr. Elsayed just asked if you were  
9 tracking costs now and, as you've suggested, that as the  
10 Board required, that there is a tracking of costs  
11 separately as was now, and that was to inform the Board as  
12 to whether or not those cost savings had occurred, and also  
13 to inform the setting of future rates.

14 And yet I don't see any of that analysis.

15 MR. ANDRE: The tracking of costs, the incremental  
16 costs to serve each of the acquired classes is provided in  
17 evidence.

18 MR. QUESNELLE: It's not going into your rate-making  
19 methodology.

20 MR. ANDRE: Right, the actual costs, because the only  
21 costs that are tracked, Mr. Quesnelle, would be the  
22 incremental costs. There is no -- there is no tracking of  
23 how much of our shared costs are attributable to the  
24 acquireds, because they are part of our integrated -- Hydro  
25 One's integrated costs until such time as the acquireds  
26 come in.

27 And at that point in time, we have to have a way to  
28 say, okay, how much of those shared costs that you provide

1 -- whether it's billing, or your back office functions,  
2 your HR, your finance functions, how much of that should be  
3 attributed to the acquired utilities, that happens at the  
4 cost allocation stage.

5 The only costs that are tracked per the Board  
6 direction until such time as they are integrated is the  
7 incremental costs, and those costs are provided in  
8 evidence.

9 MR. QUESNELLE: And is there any way to combine those  
10 two exercises? Wouldn't it just be a cost much like you  
11 would have a -- and I am thinking of a comparison to the  
12 gas utilities, where they have zonal pricing. You've got a  
13 cost to deliver in a certain area and those costs are  
14 tracked, and then there is the overlay of the corporate  
15 costs that goes across on a cost allocation basis that  
16 would have those common costs shared, but the local costs  
17 are tracked separately.

18 MR. ANDRE: Right, right. So as I say, in the cost  
19 allocation model -- I mean, it hasn't come up in evidence  
20 so far, but it is in the evidence and certainly we can deal  
21 with that in argument, if it's helpful.

22 But what is in evidence is the amount of OM&A cost.  
23 So in the cost allocation model, there's three lines of  
24 OM&A: distribution OM&A costs, customer service OM&A costs,  
25 and admin in general OM&A costs. And if you look at  
26 distribution and customer service, those really represent  
27 the incremental -- the equivalent of the incremental OM&A  
28 costs.

1           So we could do a comparison of that, but there would  
2 with no way -- as I say, because we don't track the OM&A  
3 costs associated with admin and back office-type costs, so  
4 there's no way to break that out of those -- out of those  
5 OM&A costs that are allocated by the model.

6           But we can certainly do a comparison, and I think if  
7 we did that, what we would see is the cost allocation model  
8 is actually allocating slightly less than what we say are  
9 the costs to serve the acquired utilities.

10          Mr. Quesnelle, we won't have those costs going forward  
11 and that's part of the problem. Unless we are willing --  
12 unless we commit to tracking those costs forever more on a  
13 separate basis, come the next application, how would we  
14 identify the OM&A costs specifically associated with  
15 serving the acquireds.

16          The approach that we have proposed using the  
17 adjustment factors lets us do that. As Hydro One's overall  
18 costs go forward, we have rebased at this point in time,  
19 trued it up at this point in time, and if what you are  
20 suggesting is could it be trued-up even better -- in other  
21 words, look at the OM&A costs assigned by the model and  
22 actually true that up to the OM&A costs that you've been  
23 tracking and you've identified as being associated with the  
24 acquired utilities, that could be done. But there is a bit  
25 of a mismatch because all we are tracking is incremental  
26 versus what you really need to charge them is the  
27 incremental plus a share of the common.

28          MR. QUESNELLE: So the methodology used to track the

1 costs that the Board requested then doesn't allow you to  
2 project -- not project, create rates for acquired on an  
3 ongoing basis. Your proposal is to do away with that and  
4 have it on an adjusted global cost allocation model  
5 results.

6 MR. ANDRE: Yes. The methodology that's now -- and I  
7 don't know how a utility could do that, how we could even  
8 estimate how much of your shared costs -- you know, five or  
9 ten years down the road, how much of your shared costs  
10 would flow to the acquired utility.

11 You might have an handle on the incremental cost to  
12 serve that acquired utility, but I don't know that --  
13 essentially, what you would have to do is do some form of  
14 allocation of the shared costs at the time you are putting  
15 your acquired application together.

16 MR. QUESNELLE: I am not asking you to, if you have no  
17 knowledge of how they go about it. But I'm making the  
18 comparison to zonal cost in gas, where you have a company  
19 -- Mr. Shepherd took you earlier to the example, I suppose,  
20 of a holding a company separate in Brampton. But would you  
21 agree that you need not have a separate company to have  
22 separate books and records.

23 And you have spoken to the loss of efficiency having  
24 ring fenced financing around a particular area. So is that  
25 the barrier that would stop you from moving to one that  
26 reflects local costs using the analysis, or the projected  
27 savings that were provided in the MAADS applications to  
28 begin with?

1 MR. ANDRE: I think that's part of it. And I think  
2 you'd also run into issues in terms of -- so you'd no  
3 longer have the Board's cost allocation model with the  
4 embedded principles that are part of that model as the  
5 basis for allocating those shared costs.

6 MR. QUESNELLE: Unless you had a cost allocation model  
7 for the acquired, and a global one that would have the  
8 common costs spread across but then cost allocation within  
9 the acquired class.

10 MR. ANDRE: Right. So there would have to be an  
11 initial step to say how much of your common costs get put  
12 into the specific model that applies to the acquireds. And  
13 so what would be the basis for saying how much of those  
14 common costs should be part of the acquired-specific -- the  
15 acquired stand-alone model.

16 MR. QUESNELLE: Right. So it would be the same  
17 methodology, a customer account or whatever.

18 MR. ANDRE: Exactly.

19 MR. QUESNELLE: Understood. Okay, thank you. One for  
20 Mr. Boldt and this is just a minor one, but I just want to  
21 better understand the time study that was done.

22 Using Board Staff compendium from today, that's K11.5  
23 and if we could just go to page 13 of 14.

24 MR. SIDLOFSKY: Sorry, sir, K11.4 is the Staff.

25 MR. QUESNELLE: Yes, sorry, there was correction  
26 there, thank you. Okay.

27 If we start on page 13, and just rate code 18. We  
28 have collection -- under the heading "collection",

1 "disconnect/reconnect at meter during regular hours", and  
2 looking at the underlying cost study of 2016 of \$114.54.  
3 You see that? And then go over to rate code on page 14,  
4 31(a), and just the "vacant premise move-in with reconnect  
5 at electric service at meter".

6 From a truck-roll perspective those look to be the  
7 same thing to me. What -- could you describe why you would  
8 arrive at different -- in different amounts for those two,  
9 reconnect due to disconnection at a pole or a reconnect at  
10 a vacant building on a pole?

11 MR. BOLDT: Sorry, just for clarity, you are saying  
12 it's at the pole, so is it 31(b)?

13 MR. QUESNELLE: I'm sorry. You know what? My  
14 comparison is actually with the meter.

15 MR. BOLDT: Oh, the meter. Okay --

16 MR. QUESNELLE: Yeah, number 18 at the meter. I think  
17 it holds true for both. If you look at both of them -- I  
18 brought you to the meter one first, so the number 18 and  
19 number 31(a).

20 MR. BOLDT: Yes. So if we actually go to the study  
21 itself -- and I will just take a second. I will get you a  
22 reference. Okay. So first we will go to, sorry, this  
23 study, which is -- it's Exhibit H1.02.03, attachment 1.  
24 And in particular we will start at table 13 on page 44.  
25 Sorry, what's that? Yes. Okay. And in particular, if you  
26 go to page 45, please, table 15. Okay.

27 So in our study -- and there was some minor  
28 differences that we did see in this, but it was what we

1 found and it's how we recorded it. So in table -- in the  
2 underlying cost description under table 15, it's covering  
3 both the collection disconnect at the meter during regular  
4 hours, as well as the installation and removal of the load  
5 control device, which is something that we are not using  
6 any more, but it was being used at the time in 15 during  
7 regular hours.

8 You'll notice that the time for the work itself there  
9 is very minor differences, one of them being that you'll  
10 see the inside staff is for this particular case, which is  
11 the collection of the account, is 0.43 hours, and the --  
12 what it ends up doing is you end up having the field staff  
13 for .62 of an hour, which is also the same as the travel or  
14 the vehicle time down below. You will see 0.62 hours, and  
15 there's a \$1 charge for -- or, sorry, an 80-cent charge for  
16 material.

17 Now, if we can just remember the .43 hours of inside  
18 staff, and this is a collection activity, and also .62, if  
19 you now go to 31(b) -- sorry, the table 25, which is on  
20 page 55. Yes, thank you. That's the correct one. You  
21 will see that there's more inside staff time -- or, sorry,  
22 less inside staff time to do just strictly the cut-in of  
23 the device rather than the collection cut-in, and the  
24 driving time has changed as well, or the staff time, to do  
25 the work, as well as the work in the field.

26 So -- oh, I am sorry, I am looking at the wrong one.  
27 That's on a pole. I apologize. So let's go to -- sorry,  
28 it's 31(a) I am looking for. I am looking at 31(b). So,

1 sorry, Table 24, I apologize.

2 Okay. So again, so there was, in the first table, for  
3 '18/'19 for the collections, there was the inside staff  
4 time, which was .43 of an hour, and on this one it's .29 of  
5 an hour, and the breakdown for the field staff straight  
6 time in the first table was .62, and on this one now it's  
7 .57.

8 So in our study what we found was that the travel time  
9 was less and the work time was less.

10 MR. QUESNELLE: So it's pure happenstance?

11 MR. BOLDT: Pardon?

12 MR. QUESNELLE: It's pure happenstance then.

13 MR. BOLDT: Yes.

14 MR. QUESNELLE: Yeah, okay. All right. And you're  
15 tracking them different -- what I hadn't appreciated was  
16 the calculation of the inside staff's activities, which  
17 would be different for the different activities.

18 MR. BOLDT: Different activities, yes.

19 MR. QUESNELLE: And the outside staff it's pure  
20 happenstance as to what the geography just happened to  
21 capture one side versus the other?

22 MR. BOLDT: Yes.

23 MR. QUESNELLE: Okay, thank you. Okay. That's all I  
24 had for questions. Mr. Vegh, any re-examination?

25 MR. VEGH: No re-examination, thank you.

26 MR. QUESNELLE: Okay. Well, thank you very much,  
27 thank you very much, panel. And I guess this is the last  
28 Hydro One panel. Why don't we take a break, and we will

1 resume with -- Board Staff, you will have your witness up  
2 after the break. Thank you. Oh, let's return at ten to  
3 4:00.

4 --- Recess taken at 3:35 p.m.

5 --- On resuming at 3:56 p.m.

6 MR. QUESNELLE: Thank you, please be seated. Mr.  
7 Sidlofsky, do you want to introduce your witness?

8 **ONTARIO ENERGY BOARD STAFF - PANEL 1**

9 MR. SIDLOFSKY: Thank you, sir. I am going to be  
10 seeking to have Dr. Mark Lowry qualified as an expert in  
11 regulatory economics and incentive regulation plans and,  
12 particular, total factor productivity.

13 I will take Dr. Lowry to his CV, but my understanding  
14 is that there is no objection to Dr. Lowry being qualified  
15 as an expert.

16 MR. VEGH: That's correct.

17 MR. QUESNELLE: That's correct? Thank you.

18 **EXAMINATION-IN-CHIEF BY MR. SIDLOFSKY:**

19 MR. SIDLOFSKY: Dr. Lowry, on April 13th of this year,  
20 a report bearing your name was filed with the OEB as  
21 Exhibit M11, and I'd like you to I'd like to take you to  
22 your CV which is ...

23 MR. QUESNELLE: Mr. Sidlofsky, would you like the  
24 witness affirmed?

25 MR. SIDLOFSKY: Sorry, yes, thank you. Sorry about  
26 that.

27 **Mark Lowry, Affirmed**

28 MR. SIDLOFSKY: Thank you, Ms. Anderson. It's still a

1 bit of a challenge to drive the bus and...

2 So Dr. Lowry, back to the April 13th, 2018, report.

3 That was filed with the OEB as Exhibit M1, and I will take  
4 you to your CV which is appended to that report at page 53.

5 Sir, you are the president of Pacific Economics  
6 Research Group LLC?

7 DR. LOWRY: That's correct.

8 MR. SIDLOFSKY: And I understand that you have held  
9 that position since 2009.

10 DR. LOWRY: That's right.

11 MR. SIDLOFSKY: And I will be referring to your firm  
12 as PEG. Could you just give me a very brief outline of  
13 what PEG's work involves?

14 DR. LOWRY: Yes. PEG is an economic consulting firm  
15 that largely focuses in the area of regulatory economics,  
16 and more specifically the economics of energy utility  
17 regulation.

18 We have kind of a specialty in new approaches to  
19 regulation, broadly defined as alternative regulation.  
20 Here in Canada in particular, performance-based regulation  
21 or incentive regulation is very popular, and so we have  
22 been active in many proceedings here.

23 MR. SIDLOFSKY: And, sir, more particularly, can you  
24 describe your responsibilities at PEG?

25 DR. LOWRY: Well, I own the company and so I -- and I  
26 manage it, and additionally I do most of our expert witness  
27 testimony and serve as principal investigator for most,  
28 though not all of our projects.

1 MR. SIDLOFSKY: And I see that prior to becoming  
2 president of PEG, you were a partner at the firm from 1998  
3 to 2009.

4 DR. LOWRY: That's correct.

5 MR. SIDLOFSKY: And prior to that, you held a variety  
6 of positions, including vice president and senior economist  
7 at Christenson Associates, and you were an assistant  
8 professor in the department of mineral economics at  
9 Pennsylvania State University.

10 DR. LOWRY: Yes.

11 MR. SIDLOFSKY: You hold both a B.A. and Ph.D. from  
12 the University of Wisconsin, Madison, and your Ph.D. is in  
13 applied economics.

14 DR. LOWRY: That's correct.

15 MR. SIDLOFSKY: Now, the report filed by OEB staff as  
16 Exhibit M1 in this proceeding is titled "IRM design for  
17 Hydro One Networks Inc." Did you write that report?

18 DR. LOWRY: Yes, I did.

19 MR. SIDLOFSKY: And on May 11, 2018, I expect you're  
20 aware that OEB Staff filed a letter in responses to  
21 interrogatories filed by parties on your April 13th report.  
22 Did you prepare those interrogatory responses?

23 DR. LOWRY: I wrote most of them, and supervised a few  
24 of them.

25 MR. SIDLOFSKY: Sir, in reference to both your report  
26 and the interrogatory report -- the interrogatory  
27 responses, are there any corrections you'd like to make to  
28 any of those documents?

1 DR. LOWRY: Yes, there are a few small, but not  
2 exactly typographical changes that I think I should correct  
3 the record for. The first one appears on page 12 of my  
4 report, where it says in the middle of the larger  
5 paragraph:

6 "PSE found that the addition of reliability and  
7 safety variables to the scale index accelerated  
8 the TFP trend of Hydro One over a full sample  
9 period by a substantial 90 basis points."

10 Actually it's 50 basis points.

11 Secondly, on page 34 of the same report, the very last  
12 sentence, it says, "the impact" --

13 MR. SIDLOFSKY: If I can just have you hold on until  
14 we can get to that page, thank you.

15 DR. LOWRY: Of course.

16 MR. SIDLOFSKY: And, sir, is that page 34 of the  
17 report, or page 34 of 67 in the exhibit?

18 DR. LOWRY: It's the one that's on this page here, but  
19 down at the very last sentence. There you go, okay.

20 So it says the impact on the C factor would be much  
21 less if the centre were finished in 2019 or 2022; actually  
22 it meant to say 2018 or 2022.

23 And finally, in response to -- in PEG's or Staff's  
24 response to interrogatory 23, there is a table called  
25 HONI 23 -- I will wait until you find that. It's the table  
26 HONI 23.

27 Okay. So you will notice that it talks about -- this  
28 is about -- well, one of the issues in the proceeding is

1 the appropriate asset price deflators, so I was asked,  
2 well, which asset price deflator did you use in this study  
3 or that study; particularly Canadian studies were  
4 pertinent.

5 So for the year 2008, there was a misstatement. There  
6 was a report prepared by Dr. Kaufmann of PEG for electric  
7 productivity, and the Canadian index that was used was the  
8 EUCPI, or Electric Utility Construction Price Index.

9 And those are the only problems that I thought were  
10 worth mentioning.

11 MR. SIDLOFSKY: And, sir, do you adopt the report  
12 that's Exhibit M1, the interrogatory responses, and any  
13 corrections to those items as your evidence in this  
14 proceeding?

15 DR. LOWRY: Yes, I do.

16 MR. SIDLOFSKY: And I see that at the end of exhibit  
17 M1, you've included a copy of your signed form of  
18 acknowledgement of an expert's duty required by the OEB. I  
19 take it that you understand the obligations set out in that  
20 document?

21 DR. LOWRY: Yes, I do.

22 MR. SIDLOFSKY: Okay, thank you, sir. I believe the  
23 Board may already have qualified you as an expert in  
24 regulatory economics and incentive regulation plans and, in  
25 particular, total factor productivity. I would simply ask  
26 you to take a few minutes, if you would, and describe your  
27 retainer in this matter and perhaps the highlights of your  
28 report.

1 DR. LOWRY: Okay. Well, I was retained by Board Staff  
2 to appraise the empirical research undertaken by Power  
3 Systems Engineering in support of the company's proposed  
4 X factor. And I also took a look at some of the other plan  
5 provisions -- provisions of the plan proposed by the  
6 company.

7 And so what I would like to do here, given the brevity  
8 of time available, is to touch just on PSE's, Power Systems  
9 Engineering's empirical research, and also on the company's  
10 proposed C factor.

11 So starting with the X factor, the PSE research on  
12 this topic was led by Steven Fenrick, who is a former  
13 employee of PEG, who uses some research methods that are  
14 similar to those that we have used in our projects for the  
15 Board, so that takes a way a lot of potential areas of  
16 disagreement.

17 His proposed custom industry TFP measure was zero  
18 percent, and his stretch factor was 0.45 percent, and they  
19 are the same as those that we proposed in this proceeding  
20 based on our independent research.

21 We nonetheless do have some concerns about the methods  
22 that he used that I'd like to bring to your attention.  
23 Most notably, PSE produced a negative 0.9 percent estimate  
24 of the TFP trend of Ontario Power Distributors. This  
25 finding was low enough, negative enough, that it attracted  
26 the attention in the neighbouring province of Quebec in a  
27 recent proceeding on a new IR plan for Hydro-Québec  
28 Distribution.

1           Now, PEG's most recent estimate of the TFP growth of  
2 U.S. power distributors over the same period, a similar  
3 period. is about positive 0.2, and be it noted that the  
4 Régie d'Energie ultimately approved a positive 0.3 percent  
5 X factor for Hydro Quebec Distribution.

6           We believe that PSE's methodology for measuring the  
7 Ontario power industry TFP growth has a number of problems,  
8 the biggest two of which are that they disregarded a shift  
9 to IFRS accounting that most distributors made after 2011,  
10 and we feel that they also used an inappropriate output  
11 measure, which was different from the one they used when  
12 they tried to measure their own productivity.

13           We believe that the true productivity trend in Ontario  
14 is much closer to zero, and note again that the U.S.  
15 productivity trend from a recent study for the U.S.  
16 government was positive, positive .2.

17           A second concern we have is about PSE's use of an  
18 American utility construction cost index to measure the  
19 productivity of Hydro One, but not of the Ontario  
20 distributors. There is a need for a new deflator of  
21 planned additions in TFP work in Ontario, because the  
22 Statistics Canada has stopped publishing the index, I call  
23 it the electrical utility construction price index, that we  
24 all used to use. But we believe that the use of the  
25 American Handy Whitman construction cost index is  
26 inappropriate and that the appropriate index should instead  
27 be the implicit capital stock deflator for the Canadian  
28 utility sector that is calculated by Statistics Canada.

1           If you use that construction cost index, then Hydro  
2 One's TFP growth is considerably slower and in fact is well  
3 below that of the norm for Ontario or for the United  
4 States, although it should be noted that O&M productivity  
5 growth has been fairly brisk in the last few years.

6           We also have some concerns large and small about the  
7 benchmarking work that was undertaken, but we came to  
8 roughly the same conclusion, and thus I think it's more  
9 important for the Panel to be reminded of what the  
10 conclusion was, and that is that the company's cost during  
11 the upcoming plan is projected to be about 23 percent above  
12 a benchmark, and said benchmark is based on average cost  
13 performance, and it's not the notion of any notion of  
14 superior cost performance.

15           So we are already talking about -- in this proceeding  
16 about approving revenue requirement that's well above even  
17 average cost standards.

18           Turning to the C factor, I do think that this is the  
19 most worrisome provision in the company's proposal. I do  
20 recognize that a similar C factor was approved by the  
21 Commission for Toronto Hydro.

22           I should note that I was not involved in that  
23 proceeding or in the development of custom IR, although I  
24 have been -- played a prominent role in other IR  
25 proceedings where supplemental capital revenue is  
26 considered, such as three recent proceedings in the  
27 province of Alberta.

28           So let me give you some of my concerns about the C

1 factor and then briefly talk about my proposed remedy.  
2 With the C factor, basically between rate cases, Hydro  
3 One's revenue for capital is going to be based on their  
4 proposed capital cost and basically disconnected from  
5 inflation or productivity research.

6 The revenue cap index essentially applies only to OM&A  
7 expenses, and yet it was not designed to apply to OM&A  
8 expenses. This is particularly worrisome to consumers,  
9 because there is evidence on the record in this proceeding  
10 that OM&A productivity growth is more rapid than total  
11 factor productivity growth.

12 Other problems just in general with the C factor  
13 approach is that custom C factors can be requested even for  
14 small deviations of capital cost from capital revenue.  
15 Hydro One is, in my opinion, incentivized to over-forecast  
16 its capex needs to create an opportunity for supplemental  
17 revenue and just to give it some relief from the pressure  
18 for capex containment.

19 There is also some incentive to bunch capex so that it  
20 qualifies for extra supplemental revenue, and there's a  
21 perverse incentive to use excessive capex in order to  
22 contain the company's OM&A expenses.

23 Another problem is that the kinds of capex that are  
24 addressed by the C factor are the same kinds of capex that  
25 are routinely incurred by the companies in any productivity  
26 study, and this gives rise to a double-counting concern.

27 One must also be reminded of the asymmetry of this  
28 capital cost treatment. Basically, with a custom IR, a

1 company is allowed to come in and say we need extra money  
2 whenever there's a tendency for their capital cost growth  
3 to be more rapid than the revenue cap index, but there is  
4 no corresponding duty to slow down their revenue when  
5 there's a natural tendency for their capital costs to grow  
6 more slowly than the revenue cap index.

7 So for all these reasons, the capex proposals need to  
8 be very carefully scrutinized, and to make matters worse,  
9 there's this thing called verifiable productivity gains  
10 that are needed for the capital in-service variance account  
11 that the company proposed. And unfortunately it's very  
12 difficult for the commission and for consumers to appraise  
13 the prudence of the proposed capex. So regulatory costs  
14 ends up being raised considerably.

15 Now, the Board noted in a recent Toronto Hydro  
16 decision that it is desirable to consider how to make  
17 custom IR more mechanistic and incentivizing and fair to  
18 customers. Thinking of all the options that could be done  
19 to remedy this situation, my key recommendation is to make  
20 an additional portion of the company's proposed capital  
21 cost ineligible for C factoring by some means.

22 The X factor markdown of Hydro One's proposed capital  
23 cost growth that's in their proposal is designed to address  
24 concerns that the proposal doesn't reflect achievable  
25 productivity gains. Now, the Board disallowed a larger  
26 amount of the company's capital costs, 10 percent of  
27 proposed capex, in the Toronto Hydro decision, with kind of  
28 similar concerns about, how do we know when we are getting

1 good value.

2 But I have shown here, and in my testimony, that there  
3 are additional sound reasons for not giving the utility  
4 supplemental capital revenue. For example, in the ACM that  
5 is also approved by the Board, there's a 10 percent capex  
6 materiality threshold and debt band that is rationalized on  
7 different grounds that, for example, it prevents marginal  
8 applications and provides some protection against double-  
9 counting concerns.

10 So I conclude by saying that a further decrease in  
11 supplemental capital revenue is consistent with past Board  
12 decisions as well as my own analysis.

13 MR. SIDLOFSKY: Thank you, Dr. Lowry.

14 Mr. Quesnelle, Dr. Lowry is available for cross-  
15 examination.

16 MR. QUESNELLE: Thank you very much, Mr. Sidlofsky.

17 Mr. Vegh.

18 **CROSS-EXAMINATION BY MR. VEGH:**

19 MR. VEGH: Thank you, sir. Good afternoon, Dr. Lowry.  
20 My name is George Vegh. I am counsel for Hydro One, and I  
21 will be asking you some questions this afternoon about your  
22 report and your evidence as well. And I will be addressing  
23 three points. I think all of them arose in your opening  
24 statement.

25 First, I will be looking -- asking you some questions  
26 about the custom industry productivity measure and the  
27 productivity stretch factor. Second, I will be asking some  
28 questions about the methodology used by PSE in determining

1 the custom industry productivity measure that you  
2 described. And then -- as well as the productivity stretch  
3 factor. And finally, I will be addressing your commentary  
4 on some of the features of Hydro One's custom IR proposal  
5 and, in particular, your comments on the C factor.

6 So turning first to the custom industry productivity  
7 measure and the stretch factor, and first just to get some  
8 points cleared up on the front, you are aware that PSE's  
9 evidence is that the appropriate custom industry  
10 productivity factor in this case should be zero, right?

11 DR. LOWRY: Yes.

12 MR. VEGH: And at page 3 of your report -- and when I  
13 refer to your page numbers, I am going to be referring to  
14 your report, not the page numbers of the exhibit, so that's  
15 the pages at the bottom of the document.

16 So at page 3 of your report, you indicate that you  
17 agree that this proposal is reasonable?

18 DR. LOWRY: Yes.

19 MR. VEGH: And you're also aware that PSE has  
20 determined that Hydro One's productivity stretch factor  
21 should be 0.45 per cent, correct?

22 DR. LOWRY: Yes.

23 MR. VEGH: And again, your evidence is that you  
24 prepared your own review and determined that this is also  
25 reasonable, correct?

26 DR. LOWRY: Yes.

27 MR. VEGH: Okay. I am going to go to page 8, so now  
28 that we have that out of the way, the general agreement

1 about the numbers, I do want to address some questions  
2 about the productivity research.

3 And at page 8, there is a section that begins looking  
4 at the research, and you note that the issues that do arise  
5 in these productivity studies are complicated, right?

6 DR. LOWRY: Of course.

7 MR. VEGH: And there are a lot of factors to be  
8 considered in the components of those studies?

9 DR. LOWRY: Yes.

10 MR. VEGH: And so your concern in this section of the  
11 report with respect to these results is not so much the  
12 outcome, which you are in agreement with with PSE, but you  
13 do have some questions about the methodology that PSE used.

14 DR. LOWRY: Yes.

15 MR. VEGH: Now, the Board has made it clear on many  
16 occasions that it -- for rate making purposes, it's more  
17 concerned about results and outcomes, so the methodology  
18 discussion, I think, is somewhat academic. But let's see  
19 if we can clarify some of your areas of concern.

20 And, again, the methodology issues are addressed in  
21 pages 8 to 17, and one thing that you mentioned in your  
22 opening statement that I would like to discuss with you is  
23 your discussion of the asset value price deflator, and that  
24 starts at page 8.

25 And as I understand it, this issue arises because the  
26 deflater that had been used in productivity measures was  
27 the Statistics Canada's Canadian Electric Utilities  
28 Construction Price Index, which I will call the EUCPI.

1 DR. LOWRY: That's right.

2 MR. VEGH: And PEG has used this index for researching  
3 industry-wide productivity?

4 DR. LOWRY: We have used it until now.

5 MR. VEGH: And despite the fact that you used it, you  
6 do indicate, I believe at page 9 of your report, that this  
7 measure has some draw backs as well.

8 DR. LOWRY: Yes, it does. It had kind of -- it's kind  
9 of odd because the concern about the Handy Whitman index is  
10 it grows too rapidly, implausibly fast.

11 A concern about the EUCPI is that since about 2000, it  
12 had grown too slow and as a consequence, could result in an  
13 underestimation of productivity growth.

14 MR. VEGH: Right. So this approach has drawbacks and  
15 you mentioned the Handy Whitman approach has drawbacks as  
16 well.

17 DR. LOWRY: Yes.

18 MR. VEGH: Now Statistics Canada stopped publishing  
19 this index, the EUCPI, in 2014, right?

20 DR. LOWRY: That's right, that's the last year that  
21 has a number.

22 MR. VEGH: Right. So that index had to be replaced?

23 DR. LOWRY: Yes, it's time to replace it. I mean, you  
24 could have patched together a year or two, but now it's  
25 getting to be several years and probably time to just  
26 replace the whole thing.

27 MR. VEGH: Right. And as we discussed and as you  
28 mentioned in your opening statement and in your report,

1 that PSE replaced this index with the Handy Whitman  
2 Electrical Utility Construction Cost Index, which I will  
3 just call HWI, because that's a bit of a mouthful.

4 DR. LOWRY: Well, they did that for Hydro One, but not  
5 for the Ontario industry, making themselves look good but  
6 not doing the same treatment for Ontario.

7 MR. VEGH: But I understand you are concerned about  
8 PSE's use of the HWI index to replace the EUCPI index, and  
9 that's one of the concerns you identified in your report.

10 DR. LOWRY: Yes.

11 MR. VEGH: You mentioned a correction to an  
12 interrogatory response, and I'd like to take you to that  
13 response, which is HONI interrogatory number 23. And in  
14 particular, there's a table attached to that interrogatory  
15 and you were asked where -- what indices PEG used.

16 And as I look down the list, you made one correction,  
17 but you still have several -- so 2003 Enbridge Gas  
18 Distribution presented to this Board, 2004 Enbridge Gas  
19 Distribution, 2007 gas, going down, 2011 OEB IR assessment  
20 -- and I am just using the OEB ones here, not the other  
21 jurisdictions -- 2015 Toronto Hydro's custom IR  
22 application, and then 2016 OPG's IR application.

23 So PEG has used this index in a number of its studies,  
24 right?

25 DR. LOWRY: Well, we have usually used them in  
26 American studies, and are only recently starting to back  
27 away from them even in that application.

28 In the very early days of doing some Canadian

1 productivity research, like research on Enbridge and  
2 Union's productivity trends, we did use a Handy Whitman  
3 index on the gas side. But then we -- there was a  
4 proceeding in which Union Gas was represented by Dr. Melvin  
5 Fuss of the University of Toronto and he said, hey, did you  
6 ever consider using one of these implicit capital stock  
7 deflators that Statistics Canada uses. And ever since  
8 then, we have been using that for gas in Canada.

9 MR. VEGH: Well, I see that, I get your point that  
10 some of these are early. But there's a more recent one,  
11 the 2016 OPGIR application before this Board used HWI.

12 DR. LOWRY: Well, that is another proceeding where  
13 there was just nothing that we thought was appropriate for  
14 purposes of that more narrow category of hydroelectric  
15 generation. But yes, it's true, we did use that.

16 MR. VEGH: Right. So it's been presented to this  
17 Board in several cases, presented by PEG. I do understand  
18 that you believe that HWI has its drawbacks, but as we have  
19 discussed, EUCI has drawbacks, HWI has drawbacks, but the  
20 fact that there are drawbacks doesn't really seem to  
21 disqualify it from use before a regulator. Wouldn't you  
22 agree with that?

23 DR. LOWRY: Well, I would agree that it wasn't wildly  
24 imprudent for Mr. Fenrick to use it. But his having used  
25 it, and our having rolled up our sleeves in this proceeding  
26 to think, hey, you know, it is time to think what should we  
27 use. It seems appropriate to inform the Board of what we  
28 found out. We actually spent quite a bit of time on it and

1 came up with a nice little appendix about this matter, and  
2 since it does -- our preferred approach does produce a very  
3 different result for Hydro One, I think it was appropriate  
4 for us to bring this issue to the Board's attention.

5 MR. VEGH: I am not questioning the appropriateness of  
6 bringing this to the Board's attention. I am just making  
7 the observation that this an index that PEG uses, and has  
8 used before the Board as recently as 2016.

9 So while you may be of the view that it has some  
10 flaws, like all of these other index, it's not fatally  
11 flawed. It is something that's been relied upon by this  
12 Board, and that PEG as used as well.

13 DR. LOWRY: It is, as I said, not wildly imprudent for  
14 him to have used it. But I would just like to clarify that  
15 the one we used in 2016 was not the one for power  
16 distribution, which grows so rapidly. It was in fact the  
17 one for hydroelectric generation, that he uses in one of  
18 his questions to us, to somehow make the point that --  
19 trying to make the point somehow that power distribution  
20 construction costs are growing much more rapidly than other  
21 assets. In other words, the growth in that hydroelectric  
22 generation construction cost index is quite unremarkable.

23 MR. VEGH: I have followed the back and forth between  
24 the two reports, and I would like to just treat it at a  
25 higher level because I find, you know, experts can get  
26 caught up in the methodology, but as I said, we are more  
27 concerned about -- or the Board has been more concerned  
28 about results, and so I am just making the point that, you

1 know, when you say it's not wildly imprudent, isn't that a  
2 bit of an understatement here in terms of its usability,  
3 since the Board has relied upon it and has used it and PEG  
4 in fact has relied upon it and has used it?

5 DR. LOWRY: Well, I think --

6 MR. VEGH: You are trying to dismiss Mr. Fenrick's  
7 report, but on a balanced view, I think you'd have to  
8 concede that this is fairly standard index that has been  
9 used.

10 DR. LOWRY: Well, I think it's controversial to use it  
11 in a Canadian application when it's not necessary to do so  
12 because there are other alternatives. And my extensive  
13 discussion of this in response to information requests  
14 speaks for itself. I think I made a very good case that  
15 the other index works better and produces a very different  
16 result for Hydro One, which is really what matters the most  
17 in this case.

18 MR. VEGH: Yes, so let's look at the result for Hydro  
19 One, and I am not surprised that your self-evaluation is  
20 that you made a very good case for this.

21 Why don't we turn to page 10, where your report  
22 addresses the productivity stretch factor. Page 10 of the  
23 report itself. And as you mentioned in your opening  
24 statement and as you note in your evidence, PSE's trend  
25 estimate for the Ontario distribution sector is 0.91;  
26 correct?

27 DR. LOWRY: Yes.

28 MR. VEGH: And you make a couple of observations about

1 this. First is that this contains a sizable implicit  
2 stretch factor for Hydro One, if this is the right  
3 number --

4 DR. LOWRY: If it's the right number there would be a  
5 sizable implicit stretch factor; that's correct.

6 MR. VEGH: And so just to dumb it down for me, what  
7 that means is that for Hydro One to achieve its targets it  
8 will have to outperform the sector's productivity by almost  
9 1 percent?

10 DR. LOWRY: It would.

11 MR. VEGH: And the second observation you make about  
12 this number is that it would be disappointing with respect  
13 to what that says about the sector. You say that, I  
14 believe, at the bottom of page 10.

15 DR. LOWRY: It is potentially disappointing, because  
16 the Ontario Energy Board is in the business of trying to  
17 have incentive regulation that in addition to reducing  
18 regulatory costs improves performance. And if it turned  
19 out that the performance of the industry was well below a  
20 U.S. norm, that would raise concerns. It's potentially  
21 disappointing unless it was somehow based on some  
22 absolutely required capital spending.

23 So it is potentially a cause for concern for the  
24 Board, in my opinion.

25 MR. VEGH: Yes, and you identify that as  
26 disappointing, but you would also agree if those were the  
27 facts and the facts are the facts whether you are  
28 disappointed in them or not.

1 DR. LOWRY: Well, of course. That goes without  
2 saying.

3 MR. VEGH: Okay.

4 DR. LOWRY: I would like to interject, though, that  
5 the Board is not obliged to base Hydro One's X factor in  
6 any event on Ontario experience. Hydro One retained Mr.  
7 Fenrick to do a statistical benchmarking study that used  
8 United States data, and there's no reason having done so  
9 that the door is not open to considering American  
10 productivity trends as well.

11 MR. VEGH: But your recommendation is that the  
12 appropriate productivity estimate for the Ontario  
13 distribution sector is 0.25 percent?

14 DR. LOWRY: I am sorry?

15 MR. QUESNELLE: I am not sure if we are waiting for a  
16 question or an answer here. You are both studying.

17 DR. LOWRY: Could you repeat that question?

18 MR. VEGH: Okay. I understand -- so if you turn to  
19 page 17 of your report. I take what you're saying is that  
20 minus 0.25 percent is our best current estimate of the cost  
21 efficiency trend of Ontario power distributors?

22 DR. LOWRY: Okay, I think that's different from the  
23 question that you asked me. Yes, I did state that, having  
24 made some improvements to the methodology, some steps in  
25 the right direction, we ended up at about negative 0.25  
26 percent with respect to cost efficiency, which isn't  
27 necessarily what you would use for an X factor for Hydro  
28 One. But that was not -- that was not portrayed or

1 presented as our final number. In fact, we just feel that  
2 there are so many question marks raised by this study about  
3 what the actual productivity trend is in Ontario that it's  
4 probably best to leave this matter to a possible fifth-  
5 generation IR proceeding.

6 MR. VEGH: Okay, fair enough, because I do understand  
7 that you're -- and we will talk about that in a minute, but  
8 essentially you are saying that -- you are agreeing with  
9 PSE for the purposes of this application, leaving aside  
10 fifth-generation and further analysis and further research,  
11 which I know you are advocating, for this application the  
12 appropriate TFP growth target should be zero?

13 DR. LOWRY: Yes. In other words, this negative 0.25  
14 would be our best estimate before we stopped working on  
15 this knowing that there was quite a bit of work left to do.

16 MR. VEGH: Fine, I understand that.

17 So Mr. Fenrick came up with a number that's less  
18 than 1, less than -- so less than zero, you came up with a  
19 number that's less than zero. And for present purposes we  
20 could just proceed on the basis that the number should be  
21 zero, given how the Board has used this in the formula in  
22 the past.

23 DR. LOWRY: Well, and my opinion based on results in  
24 the United States as well.

25 MR. VEGH: I understand.

26 DR. LOWRY: Part of the basis for my own  
27 recommendation.

28 MR. VEGH: Right. And I understand that -- you say a

1 few times in the report that you could take a different  
2 approach in a fifth-generation IRM, and -- but there would  
3 be further research required to do that, and so even though  
4 the approach -- the acceptance of zero in this case, it may  
5 not be appropriate in a future fifth-generation IRM  
6 proceeding?

7 DR. LOWRY: It's certainly -- I mean, that's for a  
8 future Board to decide, of course.

9 MR. VEGH: Yes, well, it's also how you proposed to  
10 approach this. You say that there are a number of factors  
11 to be considered, that there are many issues that have to  
12 be addressed, and they are best addressed in a future  
13 fifth-generation IRM.

14 DR. LOWRY: That's correct.

15 MR. VEGH: And you say that a couple times, and I will  
16 just give some page references. I won't take you to every  
17 one of them, but you say that at page 14, you say that at  
18 page 17, and when you talk about the need for future  
19 productivity research in the distribution sector and how  
20 that should be updated and the methodology should be  
21 improved, you are talking about PSE's research, but you are  
22 also talking about PEG's research, aren't you?

23 DR. LOWRY: Yes, of course. Since we did the fourth-  
24 generation productivity study a lot of things have changed.  
25 In addition to the fact that we have new evolving views on  
26 the best way to measure productivity, there have been quite  
27 a few data complications in Ontario that complicate the  
28 measurement of productivity and that might even prompt the

1 Board in the future to go back to looking at U.S.  
2 productivity trends or both U.S. and Ontario trends because  
3 Ontario data have become more problematic since that study  
4 was done.

5 MR. VEGH: Right. So in that future fifth-generation  
6 IRM research and process that the Board will carry out and  
7 that you're recommending these issues be addressed here, I  
8 assume that the PSE approach could be included in that  
9 review as an alternative. You could criticize it and  
10 recommend that the Board not adopt it, but it certainly  
11 wouldn't be qualified from being considered in that kind of  
12 review.

13 DR. LOWRY: I don't know what you mean exactly by  
14 being disqualified. I mean, if that study with its obvious  
15 flaws was included, the Board could either say we reject  
16 that approach, or they could just choose a number based on  
17 another study.

18 The Board is certainly not above ruling on  
19 methodological issues; they have done so several times when  
20 it comes to productivity, which is one of the reasons that  
21 we have tried to put a short list of methodological issues  
22 before them in this proceeding.

23 MR. VEGH: All I am getting is that you're making --  
24 PEG and PSE come to the basic bottom line -- or share the  
25 basic bottom-line conclusion. You have methodological  
26 differences as you have described, and PSE has addressed  
27 them as well, and those will all go into the mix of a  
28 future proceeding.

1           And I am just saying that that's really the place  
2 where the Board has to make that sort of determination as  
3 to which methodology is the superior one, not in this case.

4           DR. LOWRY: That's right.

5           MR. VEGH: Okay. So I'd like to ask some questions  
6 about the benchmarking research conducted by PSE, that  
7 again you've described. And in particular, I am looking at  
8 page 19 of the report where -- and I believe you've  
9 described this. Again you and PSE have different  
10 methodologies, different theories perhaps, but the bottom  
11 line is PSE concludes that Hydro One's costs were about  
12 22.2 percent above the model's predictions, and PSE  
13 therefore proposed a stretch factor of 0.45 percent for the  
14 term, right?

15          DR. LOWRY: Yes.

16          MR. VEGH: And I understand your conclusions, again  
17 with some methodical differences, but your models  
18 ultimately conclude that Hydro One's costs are about 22.4  
19 percent above the benchmark during the term.

20          DR. LOWRY: Yes. I would like to say about that,  
21 though, that we were not authorized by the Board to do our  
22 own full independent studies. We changed some of the  
23 things about the PSE study for the better, and it could be  
24 that the -- we would have had a more different result if we  
25 had just done an independent study. But we were not asked  
26 to do that.

27          MR. VEGH: Right. So your evidence in this case is  
28 that the 0.45 percent stretch factor is reasonable?

1 DR. LOWRY: Based on the evidence, yes.

2 MR. VEGH: Yes, well, that's good. So let's turn to  
3 some of the other design issues that you mentioned in your  
4 report, and that you addressed in your opening statement.

5 One of the issues you spent some time on in the  
6 Report, though I didn't hear you -- well, that you spent  
7 some time on in the report is with respect to the revenue  
8 cap index, and your suggestion that the revenue cap index  
9 have contain an escalator for growth.

10 DR. LOWRY: Yes.

11 MR. VEGH: And I -- and how you put it, as I  
12 understand it, is that an escalator for growth in the  
13 revenue cap index is preferable to addressing new  
14 investment through a C factor.

15 DR. LOWRY: Yes. Well, the revenue cap indices are  
16 used in a number of jurisdictions around North America and  
17 revenue caps generally are used, with or without the  
18 indices, more commonly outside of Ontario than they are  
19 inside. And those formulas usually do contain a growth  
20 escalator, and the growth escalator that is used is  
21 specifically the number of customers served.

22 For example, that is the formula -- has been the  
23 formula for Alberta gas distributors and was just approved  
24 for Hydro Quebec distribution as well.

25 I'm very concerned about the C factor and so when I  
26 saw that there was no growth factor in this formula and  
27 that the company sort of said, well, don't worry that's  
28 covered by C factor -- in other words, if the revenue cap

1 index isn't growing rapidly enough, the C factor will take  
2 care of it.

3 That just sets off some red lights in my mind that  
4 there's something to be said for their doing it the proper  
5 way and then having less of a C factor. Basically, any way  
6 that you can reduce the role of supplemental capital  
7 revenue is desirable if it can be done, of course,  
8 responsibly.

9 MR. VEGH: So that's the connection I was looking for,  
10 because you effectively say if you had a growth escalator,  
11 you could replace the C factor as a way to fund new  
12 capital.

13 DR. LOWRY: No, it would simply reduce the C factor.

14 MR. VEGH: Fine; reduce the C factor, that's fair.  
15 And you believe reducing the C factor in the way you  
16 propose and replacing it with a growth factor is a  
17 preferred way?

18 DR. LOWRY: Well, I think adding a growth factor, one  
19 consequence of which is a lower C factor, is probably  
20 preferable.

21 MR. VEGH: And in terms of the impact of that  
22 approach, at page 32 of your report you indicate what the  
23 impact would be of your proposal of having a growth factor  
24 and using that.

25 So I want to look at the consequence of this, and this  
26 is addressed at page 32 of your report, first full  
27 paragraph, the last sentence, there's a lot of discussion  
28 about the numbers and growth factors and you say: "In

1 either case OM&A . . .," if you added this growth factor,  
2 "OM&A revenue would grow by this additional amount and the  
3 C factor would fall, but allowed capital revenue would  
4 likely be unaffected on balance". Right?

5 DR. LOWRY: That's right, in this case.

6 MR. VEGH: Yes.

7 DR. LOWRY: In this particular application.

8 MR. VEGH: I'm sorry?

9 DR. LOWRY: In this particular application.

10 MR. VEGH: Yes, well, that's where we are. And at  
11 page 33, at the very bottom of the page, you make the same  
12 point. You say the OM&A revenue -- applying the growth  
13 factor you are describing,

14 "The OM&A revenue requirement would rise a little  
15 bit more rapidly, but the C factor would fall and  
16 capital revenue would be unaffected."

17 DR. LOWRY: That's right.

18 MR. VEGH: So as I understand it, your criticism with  
19 respect to the C factor, in lieu of a growth factor at  
20 least, is not so much about impacts on customers and  
21 impacts on rates, but it's really a criticism of the  
22 capital factor as such, using a capital factor.

23 DR. LOWRY: Well, you certainly want to use any  
24 supplemental capital revenue very sparingly. So here was a  
25 case where it was being needlessly large and so I feel that  
26 -- and then besides, we have to think about repeated  
27 applications of this. Now, this Toronto Hydro approach has  
28 now been used again, and many others could come in asking

1 for something similar. So getting it straight, there could  
2 be a time eventually when by dint of fine-tuning and  
3 adjustments, that there would be no grounds for a C factor  
4 at all. That may not be the case in this case, but it  
5 could be in another case.

6 So is there's something to be said for starting to get  
7 the whole process right, with a goal of reducing the need  
8 for a C factor, or any other supplemental capital revenue.

9 MR. VEGH: I do understand your views towards  
10 reforming approaches approved and taken by the Board. But  
11 again, we are looking at this case and as I understand what  
12 you are saying at pages 32 and 33, the concern is not so  
13 much with the revenue impact of using the C factor as  
14 proposed as opposed to a growth factor, but a more  
15 principled criticism of having supplemental capital through  
16 a C factor.

17 DR. LOWRY: Well, there are a number of reservations  
18 to providing supplemental capital revenue there C factor,  
19 or any other means. And in this particular case, as I say,  
20 this is a needless -- the C factor is needlessly large, so  
21 why not -- why wasn't this -- I am not saying that there  
22 shouldn't be a C factor or supplemental capital revenue in  
23 any case. I am not totally opposed to it, but it really is  
24 something that you want to keep to a minimum.

25 MR. VEGH: But again I am back at these two  
26 observations. I don't really see a lower revenue impact by  
27 your proposal; is that right? Is that fair?

28 DR. LOWRY: Not on capital, not just this one, no, you

1 are isolating just this one part of my proposal. But --

2 MR. VEGH: We will get to the other part, but I am --

3 DR. LOWRY: No, right, so --

4 MR. VEGH: -- trying to understand the relationship  
5 between the growth factor --

6 DR. LOWRY: This would not affect capital revenue in  
7 this application.

8 MR. VEGH: And in fact, it would have OM&A revenue go  
9 up a little bit.

10 DR. LOWRY: It would have OM&A revenue go up a little  
11 bit.

12 MR. VEGH: So OM&A revenue goes up; capital revenue is  
13 basically unaffected.

14 DR. LOWRY: Correct.

15 MR. VEGH: And as I understand your criticism -- and I  
16 know you have several of them, but bigger picture -- the  
17 capital factor, seems you're concerned with it, it's  
18 ultimately a cost-of-service approach, and so you are  
19 critical of cost of service as a method of regulation; is  
20 that fair?

21 DR. LOWRY: Well, I am not sure that would be my only  
22 criticism, but --

23 MR. VEGH: I didn't say it was your only --

24 DR. LOWRY: -- many -- many of my criticisms could  
25 kind of be grouped under that heading, yes.

26 MR. VEGH: Okay. And you mentioned the Toronto Hydro  
27 case, and I am sorry for -- I am going to ask you some  
28 questions of your concerns with respect to the more cost-

1 of-service type approach to a C factor, and you mentioned  
2 the Toronto Hydro case. And I am going to take you back  
3 earlier -- to an earlier part of your report where you  
4 discuss the Toronto Hydro decision.

5 So at page 3 of your report, you -- when you are  
6 providing your overview description of what's being  
7 proposed by Hydro One, you say:

8 "The custom IR plan proposed by Hydro One is in  
9 several respects uncontroversial. The design is  
10 similar to that of the custom IR that the Board  
11 approved for Toronto Hydro."

12 And that, of course, included a C factor approach that  
13 the Board approved; right?

14 DR. LOWRY: Yes.

15 MR. VEGH: And PEG gave evidence in the Toronto Hydro  
16 case on behalf of the Board, right?

17 DR. LOWRY: Yes.

18 MR. VEGH: And we did ask you about that, and there is  
19 an interrogatory I'd like to take you to, which is  
20 Interrogatory No. 3 by -- filed by Hydro One. Perhaps we  
21 can just scroll down and get the full question and answer,  
22 because as you indicated PEG did give evidence in that case  
23 on behalf of Board Staff, so -- representing a public-  
24 interest perspective, and PEG did not take the anti-C  
25 factor approach that you seem to be taking here; is that  
26 fair?

27 DR. LOWRY: Yes, that's true.

28 MR. VEGH: And as I understand your response to the

1 interrogatory, you seemed to say that the major difference  
2 is that in the Toronto Hydro case PEG put forward Lawrence  
3 Kaufmann, while in this case you are coming forward; right?

4 DR. LOWRY: Yes, and let's detail some of the  
5 differences. For one thing, I am the president of the  
6 company, and I am very active in PVR proceedings across  
7 Canada. I play a prominent role in every single populous  
8 province of Canada, and in every single one of these cases  
9 this matter of supplemental capital revenue has been coming  
10 up, and particularly -- it was a particularly hotly debated  
11 issue in recent Alberta PVR proceedings. Their first-  
12 generation PVR, for example, had a capital tracker, and  
13 they were very unhappy with it, and so they made some big  
14 changes in the rate-making treatment of that in their  
15 second generation plan.

16 So I like to think that I have a lot of experience on  
17 this issue, and it's been accumulating as recently as the  
18 Quebec proceeding, where, by the way, the Régie de  
19 l'Energie has approved a much more restrictive policy about  
20 supplemental capital revenue than there is here in Ontario.

21 MR. VEGH: I understand your views of your  
22 contribution to this sector and to the field generally, but  
23 Mr. Kaufmann was put forward by PEG.

24 DR. LOWRY: Um-hmm.

25 MR. VEGH: He provided evidence to the Board of what  
26 was in the public interest as best he could, and Mr.  
27 Kaufmann was also an expert.

28 DR. LOWRY: Yes, he certainly is.

1 MR. VEGH: And I assume he was qualified by this Board  
2 to give expert evidence, and you would consider him able to  
3 support reasonable positions and criticize unreasonable  
4 positions?

5 DR. LOWRY: Based on his knowledge set. But as I say,  
6 I am -- I have been involved in many more proceedings where  
7 supplemental capital revenue is an issue, and I have become  
8 sensitized to the issue, because basically what's happened  
9 in -- if you wanted to put the history of -- the recent  
10 history of Canadian regulation into a sentence is that  
11 commissions have taken an index -- an interest in index-  
12 based regulation and the larger utilities have raised  
13 heaven and earth to evade the capital spending  
14 restrictions.

15 So I am sensitized to that. I don't think that when  
16 Dr. Kaufmann was doing this he was aware, and some of the  
17 things hadn't really even happened yet. Some of the  
18 developments in Alberta, for example, hadn't really  
19 happened yet.

20 MR. VEGH: Well, he gave his best evidence, and my  
21 only point about this is that he is an expert, and isn't it  
22 fair to say that reasonable people can disagree on this?

23 DR. LOWRY: Certainly.

24 MR. VEGH: And then the Board released its Toronto  
25 Hydro decision and released filing guidelines after that  
26 decision and provided direction to say that there's been a  
27 lot of experimentation and different approaches to IRM, and  
28 put forward the Toronto Hydro position effectively as a

1 model that utilities can rely upon when providing  
2 subsequent IRM applications.

3 DR. LOWRY: Well, I believe that the Board has been  
4 pretty clear that there is no template for custom IR.

5 MR. VEGH: Right.

6 DR. LOWRY: It's supposed to be company-specific, it's  
7 supposed to evolve over time, and I don't know that all of  
8 the ideas of evolution are to come from the utilities, as  
9 opposed to staff consultants or consumer advocates. I  
10 think it's an evolving matter. And if the Toronto Hydro  
11 approach needs fine-tuning, boy, this is the best  
12 proceeding to do it in, because not only is it early on in  
13 the process before other people can do the same thing, but  
14 it's one of the largest utilities in the province, and --

15 MR. VEGH: One of your criticisms of the C factor, as  
16 I understand it, is that it does end up using a lot of  
17 regulatory resources.

18 DR. LOWRY: The C factor.

19 MR. VEGH: Using the C factor.

20 DR. LOWRY: Yes, it does.

21 MR. VEGH: And that's for the Board and for the  
22 parties.

23 DR. LOWRY: Yes.

24 MR. VEGH: And you think that's inefficient from a  
25 regulatory perspective?

26 DR. LOWRY: Well, if it's a necessary cost then that's  
27 reality, but the issue is, is it necessary or are there  
28 ways, as the Board said in the Toronto Hydro decision, to

1 move further in the direction of mechanization and  
2 incentivization of custom IR if possible. I think it is  
3 possible.

4 MR. VEGH: And so you're aware that the Board does  
5 have a policy of following past decisions?

6 DR. LOWRY: Well, I mean, I think it should be  
7 attentive to past decisions, but obviously regulation in  
8 Ontario evolves and will continue to evolve. So it should  
9 be one consideration for the Board. But they are always  
10 evolving the way they do things. That's one of the things  
11 that makes them one of the world leaders in PBRs, that they  
12 are always thinking of better ways to do things.

13 MR. VEGH: But there is also some value in regulatory  
14 predictability, isn't there?

15 DR. LOWRY: That's true with respect to a plan. Once  
16 approved, they shouldn't change the plan in the middle  
17 unless it's absolutely necessary because of acute over-  
18 earning or under-earning, but I don't think that this is  
19 anywhere close to being set in stone enough that that  
20 should be a consideration in this proceeding. I mean --  
21 and besides, what I have proposed is not that radical  
22 adjustment to custom IR.

23 MR. VEGH: And applicants and parties spend a lot of  
24 time, investing a lot of time, investing resources, in  
25 preparing applications to bring to the Board, and obviously  
26 the Board spends a lot of time, and the parties, and a lot  
27 of resources are put into evaluating those applications,  
28 and do you think it's reasonable for applicants and other

1 parties to expect that the Board will be consistent in  
2 their decisions and not relitigate policy decisions in  
3 every case?

4 DR. LOWRY: Again, the Board obviously evolves its  
5 policies over time. And it can and should, and it should  
6 also be mindful of good -- you know, when they did  
7 something good they should stick with it, and when there's  
8 a way to make it better they should consider that.

9 MR. VEGH: And if the Board's inconsistent so that --

10 DR. LOWRY: You are talking here about custom IR. You  
11 are not talking about, you know, the fourth generation IR,  
12 for example. Changing that in the middle of things  
13 would -- that would be more of an eyebrow raiser, but this  
14 is custom IR, so let's customize.

15 MR. VEGH: Yes, but I don't know if you get in the  
16 weeds of preparing an application in the way that we  
17 mortals do.

18 But when you look at a past application and the Board  
19 adopting filing guidelines with an expectation of what's  
20 expected by the parties, the approach from a regulatory  
21 efficiency perspective is that the Board is also providing  
22 guidance to applicants on how they should bring forward  
23 their applications, and not just change their decisions  
24 because they got a different consultant in this case than  
25 they got in the last case.

26 Isn't that fair? Isn't that a regulatory efficiency  
27 as well? And isn't this lack of certainty, lack of  
28 direction, lack of clarity changing the rules every time?

1 Isn't that a regulatory inefficiency?

2 DR. LOWRY: A search for a better system of regulation  
3 is, in my opinion --

4 MR. VEGH: No, it's the luck of the draw for the  
5 consult...

6 MR. QUESNELLE: Mr. Vegh, you have posed the question  
7 a couple of times. Let Dr. Lowry answer.

8 MR. VEGH: I apologize.

9 DR. LOWRY: I think that there is a benefit to the  
10 Board to listen to different, well-qualified consultants  
11 occasionally. And if I come into this proceeding and have  
12 some independent thoughts, I think it would be  
13 irresponsible of me not to bring them to the Board's  
14 attention.

15 MR. VEGH: If an applicant then prepares the  
16 application and it depends on the luck of the draw as to  
17 which consultant PEG happens to put forward, doesn't that  
18 bring a randomness to the regulatory process?

19 DR. LOWRY: Well, I think it be it noted that PEG also  
20 evolves. Just like in our productivity research, when we  
21 get a good idea, we stick with it until a better idea comes  
22 along. That's why we changed to Dr. Fuss's (ph) general  
23 idea for an asset price deflator.

24 You will notice in this proceeding that I mentioned  
25 something about average hourly earnings instead of average  
26 weekly earnings. That was actually an idea that Hydro  
27 Quebec Distribution proposed and I said, you know, that's  
28 better than what we do, so I recommended it.

1           So I think that there is a -- you will find with PEG  
2   that they don't go crazy back and forth with their  
3   recommendations, that their idea, their notions about best  
4   practices evolve over time.

5           MR. VEGH: Why don't we leave that point because today  
6   you happen to show up from PEG, and you do identify a  
7   number of factors that you are concerned about with the C  
8   factor. And as I mentioned more generally, you raised some  
9   concerns about its cost of service -- its basis in cost of  
10   service. I appreciate that's not your only concern, but  
11   that is an umbrella which you express a number of concerns.

12           You do appreciate that the stretch factor in this case  
13   does apply to capital as well as to OM&A?

14           DR. LOWRY: Yes.

15           MR. VEGH: And that there is a variance account, so  
16   there is no incentive to over-invest in capital?

17           DR. LOWRY: Well, I think that the variance account --  
18   I think what you -- I couldn't agree with your statement as  
19   you've put it. The variance account somewhat discourages  
20   exaggerated capex forecasts, because you can't play a game  
21   like they have in Britain, where they say we need this much  
22   capex and it turns out, you know what, we didn't need it  
23   after all, thanks for the extra money.

24           So I think that the true-up is more about exaggerated  
25   capex forecasts.

26           MR. VEGH: And during the plan term, there's no  
27   incentive to over-invest, because there's no recovery of  
28   any capital costs that are outside of what's put forward.

1 DR. LOWRY: Well, there's no incentive to invest more  
2 than the approved budget.

3 MR. VEGH: That's right. I'd like to understand some  
4 of your related criticisms, again based on the components  
5 of C factor that resemble cost of service, and first is one  
6 that you identified at page 34 of your report as well as in  
7 the opening statement today, which is at the bottom of page  
8 35, where you talk about the incentive to bunch  
9 expenditures to increase revenues.

10 And your last sentence, maybe I -- maybe this is more  
11 clear now after your correction, but I did not understand  
12 your point that the impact of the C factor would be much  
13 less if the centre -- you are talking about an operations  
14 centre -- were finished initially you said in 2019 or 2022,  
15 and you've changed that to 2018.

16 How is Hydro One's revenue impacted if it makes an  
17 investment in 2018 or 2022 versus the term of the plan?

18 DR. LOWRY: Well, in 2018, it becomes part of the base  
19 revenue requirement that the revenue cap index applies to,  
20 which could -- would considerably reduce the need for  
21 supplemental revenue.

22 Meanwhile, if you did it in 2022, you would get the  
23 least amount of supplemental revenue because it's right  
24 before the rate case.

25 MR. VEGH: Okay. I think I understand that better  
26 now, but this is again a theoretical concern. You haven't  
27 looked at the operations centre and investigated the merits  
28 of the timing of that operations centre and whether it was

1 practical to put it in 2018, or practical to extend it out  
2 to 2022. This is more of a theoretical concern, more than  
3 on the merits of the actual proposal?

4 DR. LOWRY: That's correct. I haven't reviewed the --  
5 I mean, I would be surprised that something like that has  
6 to be done in any one year as opposed -- the Board could  
7 almost encourage projects like that that don't have an  
8 obvious completion date to be done at times when it would  
9 simplify their regulatory process.

10 I am not advocating that. But like I say, it wouldn't  
11 be that crazy to advocate that.

12 MR. VEGH: Right. But instead what we've done --  
13 what's happened in this case is that there's been a lot of  
14 evidence put forward on the a pacing and priorities of  
15 capital investment and, you know, the Board will determine  
16 that pacing and priority on its merits.

17 And that's also a reasonable approach, isn't it, as  
18 opposed to just working on the assumption that they're  
19 either front-end loading or back end-loading?

20 DR. LOWRY: You're right. Of course, that is a very  
21 time consuming process and a lot of guesswork on the part  
22 of the Board in knowing what's right and what's wrong in a  
23 matter like that.

24 It's always -- it's understandable therefore that  
25 there be a search for more mechanized and incentive-rich  
26 approaches to providing the supplemental revenue.

27 MR. VEGH: I want to get through some -- I want to go  
28 down your list of criticisms of the C factor, and I believe

1 those are at page 37 of your report.

2 Let me put it this way. To be more fair, you say  
3 there are some amendments that you think merit  
4 consideration. And there's a bullet, four bullet points,  
5 and I'd like to go through them with you.

6 So the first is that the C factor should be subject to  
7 a materiality threshold or dead zone. And further --

8 DR. LOWRY: Or may I just clarify? Or more generally  
9 a further disallowance than what has been discussed or  
10 proposed, like they did in the Toronto Hydro proceeding.  
11 They just disallowed 10 percent of capex at the end.

12 MR. VEGH: Yes, and I think that's a good way to put  
13 it. It's almost like an automatic disallowance, isn't it?

14 DR. LOWRY: Well, it doesn't have to be as seemingly  
15 arbitrary as the 10 percent in the Toronto Hydro case. But  
16 some way of saying no, you are not going to get every  
17 dollar of your shortfall is a way to go that has more  
18 precedent in Ontario, because it's already been done  
19 several times here.

20 MR. VEGH: Well, you suggest -- you do suggest 10  
21 percent, don't you?

22 DR. LOWRY: I don't know that I said 10 percent  
23 specifically, no, because it kind of depends what you're  
24 applying the materiality threshold to. Is it -- I mean,  
25 the threshold and dead band system for the advanced capital  
26 module is focussed on the capex, whereas you have this C  
27 factor proposal. So it could be based on a C factor, a  
28 further -- some sort of C factor disallowance, or it could

1 just be a percentage of capex disallowed. So there's  
2 really two or three different ways.

3 MR. VEGH: I guess my -- the 10 percent figure came  
4 from page 38 of your report, where you seem to be endorsing  
5 what the Board -- how you interpreted what the Board did,  
6 which was to disallow 10 percent of Toronto Hydro's  
7 proposed capex. So my understanding from reading that --  
8 from participating in that -- well, reading that decision,  
9 is that the Board made that decision on the merits, as  
10 opposed to just an arbitrary 10 percent reduction.

11 DR. LOWRY: Well, I don't know how they would come up  
12 with a round number like 10 percent based on complex  
13 calculations that they didn't share with the company. I  
14 think that they were dissatisfied with the quality of  
15 evidence, they were uncertain what was right, and so they  
16 wanted to come up with a reasonable knock-down of the  
17 proposal. 10 percent sounded fair to them.

18 MR. VEGH: And so when we talk about dissatisfaction  
19 with the quality of the evidence and not accepting the  
20 proposal, that sounds like a prudence review. And in cost-  
21 of-service models, that's basically what the Board does,  
22 right? They look at prudence, and if they are looking at  
23 the prudence of a capital investment plan, isn't it  
24 arbitrary to just disallow 10 percent or 5 percent or  
25 1 percent or whatever number you happen to come up with?  
26 Because you are not proposing that this be based on any  
27 prudence review. You are just saying, Board, you should  
28 just disallow 10 percent.

1 DR. LOWRY: Well, I --

2 MR. VEGH: Even if the prudence of these investments  
3 were demonstrated to you, just disallow it.

4 DR. LOWRY: Well, again, that is actually the Board's  
5 policy in the advance capital module and the incremental  
6 capital model. 10 percent materiality threshold  
7 irrespective of your -- the quality of your evidence; is  
8 that not true?

9 MR. VEGH: And then -- but you do appreciate that IRM  
10 is available for utilities where the ACM or the ICM is  
11 inappropriate, so the Board is not just imposing a 10  
12 percent dead zone but expecting a rebasing, companies come  
13 forward, they put evidence forward, the Board takes it  
14 seriously, and doesn't -- I mean, we could have saved a lot  
15 of time, right? This case was filed over a year ago. If  
16 the rule were, we just cut 10 percent regardless of what  
17 you put forward, that could have -- I am just saying that's  
18 a pretty arbitrary approach to be determining a cost-of-  
19 service rebasing. Wouldn't you agree with that?

20 DR. LOWRY: Well, again, a modest disallowance --  
21 there is already precedent for a modest disallowance based  
22 on -- you know, the rationale for the Board of doing that,  
23 recollect it, was partly about concern about double-  
24 counting, but it was mostly just about discouraging  
25 frivolous applications, and on those grounds alone they  
26 said 10 percent, and that's part of my argument, that, hey,  
27 there's many more reasons than that to have a disallowance,  
28 so many solid grounds for a disallowance, so provided that

1 it's modest, I don't think it's necess -- I don't -- I  
2 don't know that it's reckless. Not to say that I  
3 specifically endorse the 10 percent that they chose in the  
4 Toronto Hydro case, just that this Board has done this on a  
5 number of occasions.

6 MR. VEGH: Well, I think the ACM approach is a little  
7 more principled than what you are suggesting, but it  
8 applies to discrete projects, as opposed to, you know, a  
9 C factor on a going-forward basis, but I will just leave  
10 that there, because I want to explore one other part of  
11 what you say of this disallowance, this automatic  
12 disallowance of whatever percentage strikes you.

13 And at the top of page 38, the last sentence of the  
14 first paragraph, you talk about these dead-zone approaches.  
15 You refer to the 10 percent disallowance or ACM, et cetera,  
16 and you say:

17 "Any of these approaches can make customers whole  
18 for the addition of a growth escalator to Hydro  
19 One's RCI."

20 And so this would be a rate mitigation measure?  
21 That's how you are characterizing this here?

22 DR. LOWRY: Well, I -- remember, I am not here to  
23 solely represent the customer interest or certainly not the  
24 utility interest, but the general public interest, and I  
25 have noticed that I wasn't -- I didn't hesitate to propose  
26 one thing that would actually help the company and give it  
27 more revenue. Well, since apparently the company didn't  
28 need that extra revenue you could use that as one basis to

1 -- for a further disallowance of their capex.

2 MR. VEGH: Yeah, that's not exactly how you put it, to  
3 be fair. You say "any of these dead-zone approaches", and  
4 I will just call it a disallowance, "can make customers  
5 whole for the addition of a growth escalator." Now, Hydro  
6 One is not proposing a growth escalator, so there is no  
7 reason to mitigate, right?

8 DR. LOWRY: With respect to that I am just saying if  
9 you did have a growth escalator you could feel even more  
10 comfortable with a further disallowance, because you have  
11 given them something they didn't even ask for.

12 MR. VEGH: Well, under Hydro One's proposal, which  
13 does not include a growth escalator, this mitigation  
14 measure is just not required; is it?

15 DR. LOWRY: Well, that particular mitigation measure  
16 would not, but that doesn't mean that there isn't a need  
17 for a further haircut on the company's supplemental capital  
18 revenue.

19 MR. VEGH: Though you did identify what you could  
20 consider to be these disallowances -- I won't editorialize  
21 by calling them arbitrary, but they do seem to be a  
22 mitigation measure for something that you are proposing  
23 that's not in the application.

24 DR. LOWRY: It's -- I am just saying that if you were  
25 to give the supplemental capital -- the supplemental growth  
26 escalator, you would -- it would be all the easier for the  
27 Board to approve this further trimming of supplemental  
28 capital revenue.

1 MR. VEGH: Right, but since that's -- that's entirely  
2 hypothetical, because Hydro One is not proposing it and  
3 therefore does not require the mitigation. This is your  
4 proposal that would increase the revenues, and therefore  
5 you are saying you could mitigate that increase by cutting  
6 capital 10 percent. Well, if that -- if that's not part of  
7 the process and this cutting of capital 10 percent doesn't  
8 mitigate that, it's just a cut.

9 DR. LOWRY: A cut, but not a cut without reason. I  
10 have enumerated seven reasons.

11 MR. VEGH: Well, let's keep going down your reasons.  
12 The second bullet point on page 37 you talk about, the X  
13 factor could be raised. I don't want to spend too much  
14 time on this, because you have agreed in this case that the  
15 X factor proposed by PSE is reasonable, and we have  
16 discussed the -- we have discussed the X factor, the  
17 challenges with changing this and how it might be addressed  
18 in a future proceeding, so I just want to highlight that  
19 that's one factor, but that's the X factor which is already  
20 kind of settled as reasonable.

21 So the third bullet point in your list here is a  
22 proposal to scale back eligibility for a C factor, for  
23 example, by saying that the last year of the planned term  
24 is ineligible for a C factor; right?

25 DR. LOWRY: Yes.

26 MR. VEGH: Now, that's somewhat similar to the  
27 first -- to the first bullet point, isn't it, and that is  
28 just an arbitrary disallowance in advance of what you're

1 proposing regardless of the prudence?

2 DR. LOWRY: Well, I don't know how arbitrary it is.  
3 The reason that that could make sense is that it is only  
4 one year before the rate case. So you're not going to --  
5 you are not going to have as much attrition from not  
6 getting compensated for it in that year.

7 MR. VEGH: Sorry, I didn't mean to interrupt.

8 DR. LOWRY: No, that's fine.

9 MR. VEGH: All right. So you -- but as you indicate,  
10 it's the Board determining that you are not going to be  
11 compensated, and so that's not based on any kind of  
12 prudence review, just the year in which the investment  
13 happens to be made.

14 DR. LOWRY: That's right. Another example of that  
15 would be, don't fund growth-related capex. I have  
16 discussed that in other proceedings too, but I have just  
17 used this as an example here.

18 MR. VEGH: Okay. And I think we know where we stand  
19 on that.

20 And then the final point you raise is that the  
21 C factor could be calculated using a different productivity  
22 trend growth of capital, but then you conclude in your last  
23 sentence for bullet point 4:

24 "There is no conclusive research available to the  
25 OEB in this proceeding on OM&A and capital  
26 productivity trends of power distributors."

27 So there's no empirical basis for this proposal;  
28 right?

1 DR. LOWRY: Well, there is an empirical basis, but the  
2 question is, is there enough evidence for the Board to make  
3 a decision: Let's reprise that evidence. The firmest  
4 evidence is that a recent study that I did for Lawrence  
5 Berkley Lab found OM&A productivity trend of US power  
6 distributors to be considerably -- well, 20 or 30 basis  
7 points more rapid than total productivity, and even more  
8 compared to capital productivity.

9 However, Power Systems Engineering was not permitted  
10 to review that study, and so you can't -- you can only put  
11 so much weight on that since it wasn't properly vetted.

12 And then the other number we have is the number of  
13 OM&A productivity from this -- these quick corrections of  
14 Mr. Fenrick's work, and I have not tendered that work as  
15 being any sort of definitive estimate of the productivity  
16 trend in Ontario. It did, however, show brisk OM&A  
17 productivity growth.

18 But in my opinion, this is not enough evidence. The  
19 evidence is firmer in the gas case that the Board is also  
20 considering right now, because we had a very nice  
21 productivity study of US gas distributors that showed an  
22 even bigger gap between OM&A and capital productivity. So  
23 in that proceeding, I did say, you know, you ought to  
24 seriously consider this separate regulation of the two  
25 because as soon as the company is asking for a C factor,  
26 they are already asking for separate regulation of the two.  
27 So there's already been a schism and why not follow through  
28 on the logic of it.

1 MR. VEGH: But there's no evidence in this case that  
2 you can rely upon in support of -- the suggestion in bullet  
3 point 4 here.

4 DR. LOWRY: Insufficient evidence.

5 MR. VEGH: There's insufficient evidence?

6 DR. LOWRY: The quality of the evidence is probably  
7 not enough for the Board to render a decision on that in  
8 this case, that's right.

9 MR. VEGH: In this case, thank you. Well, that's the  
10 case that we're in.

11 Thank you, panel, I have no further questions.

12 MR. QUESNELLE: Thank you, Mr. Vegh. Mr. Sidlofsky,  
13 any re-examination?

14 MR. SIDLOFSKY: No, thank you, sir.

15 **PROCEDURAL MATTERS:**

16 MR. QUESNELLE: Thank you very much, Dr. Lowry. Can  
17 we just have a few minutes to discuss the schedule of  
18 arguments?

19 Mr. Vegh, do you have a proposal from the applicant?

20 MR. VEGH: I have discussed this with Board counsel  
21 and I understand that there have been discussions with  
22 other parties as well. So the idea was on the assumption  
23 that the hearing will -- the oral hearing will finish  
24 tomorrow, which it's finished today.

25 I believe that the schedule -- and Mr. Sidlofsky or  
26 Mr. Davies you can correct me if I am wrong, because I may  
27 be out of date here -- but the plan is that Hydro One will  
28 file its submissions July 13th-in-chief. The intervenors

1 and Board Staff will then have three weeks to respond,  
2 which would be August 3rd. And then Hydro One would be  
3 given four weeks to respond to that, I believe, which would  
4 be September 7th.

5 MR. QUESNELLE: I know this is a large case, Mr. Vegh,  
6 but four weeks is a little longer than the norm. Is there  
7 something special about the ...

8 MR. VEGH: Well, there is the Labour Day weekend in  
9 the middle of that.

10 MR. QUESNELLE: True enough.

11 MR. VEGH: As you can appreciate, throughout July and  
12 August, it does end up being a difficult time with having  
13 availability.

14 MR. QUESNELLE: Yes, point taken.

15 MR. SIDLOFSKY: Sir, if I could just jump in? We did  
16 have conversation with Mr. Nettleton earlier in the -- I  
17 believe it was earlier this week, and there were some  
18 different dates that were proposed. I wouldn't say we have  
19 a plan at this point for this, that the parties have come  
20 to any sort of agreement on a plan. But I believe that Mr.  
21 Nettleton's schedule, his suggested schedule, had started  
22 with July 23rd for argument-in-chief.

23 I am looking to Mr. Rubenstein to confirm that, but I  
24 believe that was where the schedule would have started.  
25 Then August, I believe it was 13th for Staff and  
26 intervenors' submissions and Hydro One's reply would have  
27 been September 10th. So I am --

28 MR. QUESNELLE: So is this being laid before the panel

1 to pick A and B?

2 MR. SIDLOFSKY: Well, it wasn't intended to be a menu,  
3 sir, but ...

4 MR. VEGH: Sorry for providing that information -- as  
5 I said, it may have been out of date. I had an earlier  
6 conversation with Board Staff, but I hadn't consulted the  
7 parties. But Mr. Sidlofsky's schedule seem a reasonable  
8 one.

9 MR. SIDLOFSKY: Sorry, it's just not my schedule. It  
10 was originally Mr. Nettleton's.

11 MR. RUBENSTEIN: Mr. Nettleton seemed quite adamant  
12 that Hydro One could not get their argument-in-chief before  
13 the 20th or 23rd. That's kind of where the dates fell, so  
14 that may change. I don't -- I'll look to Mr. Vegh.

15 MR. QUESNELLE: Well, as much as the Board is under a  
16 lot of pressure to get decisions out faster, and no matter  
17 how you like at it, when you look at the start date of a  
18 file date, and when a decision goes out, all the things  
19 that happened in the middle get lost.

20 So I take September 10th as being the close of  
21 submissions when we are finishing up here today in June, I  
22 know that we are talking long weekends and summer months,  
23 but it seems a little unusual.

24 Can we leave it to the parties to negotiate something  
25 a little tighter than that, and then report back to Board  
26 Staff and we will issue something by way of procedural  
27 order.

28 MR. VEGH: Thank you, sir, that's reasonable and I

1 apologize for the confusion.

2 MR. QUESNELLE: It's quite all right, Mr. Vegh. With  
3 that, we will adjourn and we will -- again, we will leave  
4 it to the negotiations and we will get a procedural order  
5 out as soon as possible. Thank you very much.

6 --- Whereupon the hearing adjourned at 5:24 p.m.

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