

RÉGIE DE L'ÉNERGIE

ÉTABLISSEMENT D'UN MÉCANISME DE RÉGLEMENTATION
INCITATIVE ASSURANT LA RÉALISATION DE GAINS
D'EFFICIENCE PAR LE DISTRIBUTEUR D'ÉLECTRICITÉ
ET LE TRANSPORTEUR D'ÉLECTRICITÉ

DOSSIER : R-3897-2014

RÉGISSEURS : **Mme DIANE JEAN, présidente**
 Me LISE DUQUETTE
 M. BERNARD HOULE

AUDIENCE DU 27 MAI 2015

VOLUME 1

CLAUDE MORIN et ROSA FANIZZI
Sténographes officiels

COMPARUTIONS

Me LOUIS LEGAULT
Me JEAN-FRANÇOIS OUIMETTE
procureurs de la Régie;

MISE EN CAUSE :

Me ÉRIC FRASER
Me YVES FRÉCHETTE
procureurs de Hydro-Québec Distribution et
Transport (HQDT);

INTERVENANTS :

Me SOPHIE LAPIERRE
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d'électricité du Québec (AREQ);

Me STEVE CADRIN
procureur de Association hôtellerie Québec et
Association des restaurateurs du Québec (AHQ-ARQ);

Me ANDRÉ TURMEL
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Me PAULE HAMELIN
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(EBM);

Me ANDRÉ TURMEL
procureur de Fédération canadienne de l'entreprise
indépendante (FCEI);

Me ÉRIC DAVID
procureur de Option consommateurs (OC);

Me CATHERINE FORTIER-PESANT
procureure de Regroupement national des conseils
régionaux de l'environnement du Québec (RNCREQ);

Me DOMINIQUE NEUMAN
procureur de Stratégies énergétiques et Association
québécoise de lutte contre la pollution
atmosphérique (SÉ-AQLPA);

Me HÉLÈNE SICARD
procureure de Union des consommateurs (UC);

Me RAPHAËL LESCOPI
procureur de Union des municipalités du Québec
(UMQ).

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LISTE DES ENGAGEMENTS

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E-1 Supply more references relating to the TFP approach.	65

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A-0012 :	Performance Based Regulation: A Review of Design Options
	19
C-FCEI-0034:	Joskow, Paul L. (2006) "Incentive Regulation in Theory and Practice: Electricity Distribution and Transmission Networks" MIT, prepared for the National Bureau of Economic Research Conference on Economic Regulation, September 9-10, 2005
	98

1 L'AN DEUX MILLE QUINZE (2015), ce vingt-septième
2 (27e) jour du mois de mai :

3

4 PRÉLIMINAIRES

5

6 LA GREFFIÈRE :

7 Protocole d'ouverture. Audience du vingt-sept (27)
8 mai deux mille quinze (2015), dossier R-3897-2014.
9 Établissement d'un mécanisme de réglementation
10 incitative assurant la réalisation de gains
11 d'efficience par le distributeur d'électricité et
12 le transporteur d'électricité.

13 Les régisseurs désignés dans ce dossier sont madame
14 Diane Jean, présidente de la formation, de même que
15 maître Lise Duquette et monsieur Bernard Houle.

16 Les procureurs de la Régie sont maître Louis
17 Legault et maître Jean-François Ouimette.

18 La mise en cause est Hydro-Québec Distribution et
19 Transport, représentée par maître Éric Fraser et
20 maître Yves Fréchette.

21 Les intervenants sont :

22 Association des redistributeurs d'électricité du
23 Québec, représentée par maître Sophie Lapierre;
24 Association hôtellerie Québec et Association des
25 restaurateurs du Québec, représentées par maître

1 Steve Cadrin;
2 Association québécoise des consommateurs
3 industriels d'électricité et Conseil de l'industrie
4 forestière du Québec, représentées par maître André
5 Turmel;
6 Énergie Brookfield Marketing S.E.C., représentée
7 par maître Paule Hamelin;
8 Fédération canadienne de l'entreprise indépendante,
9 représentée par maître André Turmel;
10 Option consommateurs, représentée par maître Éric
11 David;
12 Regroupement national des conseils régionaux de
13 l'environnement du Québec, représenté par maître
14 Catherine Fortier-Pesant;
15 Stratégies énergétiques et Association québécoise
16 de lutte contre la pollution atmosphérique,
17 représentées par maître Dominique Neuman;
18 Union des consommateurs, représentée par maître
19 Hélène Sicard;
20 Union des municipalités du Québec, représentée par
21 maître Raphaël Lescop.
22 Y a-t-il d'autres personnes dans la salle qui
23 désirent présenter une demande ou faire des
24 représentations au sujet de ce dossier? Je
25 demanderais aux parties de bien s'identifier à

1 chacune de leurs interventions pour les fins de
2 l'enregistrement. Aussi auriez-vous l'obligeance de
3 vous assurer que votre cellulaire est fermé durant
4 la tenue de l'audience. Merci.

5 LA PRÉSIDENTE :

6 Bonjour et bienvenue à tous. J'aimerais débiter
7 cette audience par un rappel du cadre légal
8 particulier du dossier et de son contexte. D'abord,
9 l'article 48.1 de la Loi sur la Régie de l'énergie
10 stipule que la Régie établit un mécanisme de
11 réglementation incitative assurant la réalisation
12 de gains d'efficience par le distributeur
13 d'électricité et le transporteur d'électricité.

14 Ce mécanisme doit poursuivre les objectifs
15 suivants : Premièrement, l'amélioration continue de
16 la performance et de la qualité de service;
17 deuxièmement, une réduction des coûts profitables à
18 la fois aux consommateurs et selon le cas au
19 Distributeur ou au Transporteur; troisièmement,
20 l'allégement du processus par lequel sont fixés ou
21 modifiés les tarifs du transporteur d'électricité
22 et les tarifs du distributeur d'électricité
23 applicables à un consommateur ou à une catégorie de
24 consommateurs.

25 Par ailleurs, l'article 20 du chapitre VIII

1 des lois deux mille quinze (2015), sanctionné le
2 vingt et un (21) avril deux mille quinze (2015),
3 précise qu'à compter du premier (1er) janvier deux
4 mille quatorze (2014) jusqu'au début de l'année
5 tarifaire suivant le retour à l'équilibre
6 budgétaire, le mécanisme de réglementation
7 incitative établi conformément à l'article 48.1 de
8 la Loi ne peut s'appliquer.

9 Pour l'application de l'article 20, le
10 retour à l'équilibre budgétaire a lieu lorsque les
11 comptes publics présentés à l'Assemblée nationale,
12 permettre de constater un solde budgétaire nul ou
13 excédentaire conformément à la Loi sur l'équilibre
14 budgétaire. À ce sujet, le budget deux mille
15 quinze-seize (2015-2016) du gouvernement du Québec
16 présenté le vingt-six (26) mars deux mille quinze
17 (2015) prévoit le retour à l'équilibre budgétaire
18 au cours de la présente année.

19 En vertu de la Loi sur l'administration
20 financière, les comptes publics pour deux mille
21 quinze-seize (2015-2016) seront déposés au plus
22 tard le trente et un (31) décembre deux mille seize
23 (2016), ainsi avec un retour à l'équilibre
24 budgétaire en deux mille quinze-seize (2015-2016)
25 pourrait s'appliquer dans le scénario le plus hâtif

1 à compter des années tarifaires deux mille dix-sept
2 (2017) d'Hydro-Québec comme transporteur et
3 distributeur d'électricité débutant le premier
4 (1er) janvier et le premier (1er) avril deux mille
5 dix-sept (2017) respectivement.

6 Pour initier le présent dossier, la Régie a
7 mandaté la firme Elenchus Research Associates afin
8 d'effectuer une revue des mécanismes de
9 réglementation incitative utilisés par d'autres
10 régulateurs dans les domaines de la distribution et
11 du transport d'électricité. Le rapport d'Elenchus a
12 été rendu public le quatre (4) mars deux mille
13 quinze (2015).

14 (9 h 10)

15 Ce matin, nous sommes réunis afin
16 d'approfondir notre compréhension des informations
17 présentées dans le rapport d'Elenchus. Voici
18 comment nous allons fonctionner. Tout d'abord,
19 monsieur Todd et madame Chaplin d'Elenchus feront
20 une courte présentation. Les intervenants auront
21 ensuite droit chacun à une période de trente (30)
22 minutes pour leurs questions. Je vous demanderais
23 de limiter les questions au contenu du rapport et
24 de la présentation. Vous recevrez prochainement une
25 lettre afin de préparer la rencontre préparatoire

1 prévue le quinze (15) juin qui portera sur le
2 processus à suivre pour le déroulement du présent
3 dossier. Maître Legault va maintenant nous
4 présenter les témoins.

5 Me LOUIS LEGAULT :

6 Merci Madame la Présidente, Monsieur, Madame les
7 Régisseurs. Madame la Greffière, il serait peut-
8 être temps d'assermenter les témoins.

9

10 PANEL ELENCHUS

11

12 L'an deux mille quinze (2015), ce vingt-septième
13 (27e) jour du mois de mai, ont comparu :

14

15 CYNTHIA J. CHAPLIN, Regulatory Economist, Elenchus
16 Research Associates Inc., place of business located
17 at 34 King Street East, Suite 600, Toronto,
18 Ontario;

19

20 JOHN D. TODD, President of Elenchus Research
21 Associates Inc., place of business located at 34
22 King Street East, Suite 600, Toronto, Ontario;

23

24 LESQUELS, après avoir fait une affirmation
25 solennelle, déposent et disent :

1 EXAMINED BY Me LOUIS LEGAULT :

2 Q. **[1]** I will ask you to speak closer to your mic, it
3 seems that they're not hearing very well in the
4 back. If it continues, there may be a technical
5 problem, we'll have it solved but if not just speak
6 closer to the mic. If it works, fine, we don't have
7 to do anything else.

8 Mr. JOHN D. TODD:

9 A. It's probably just because we were standing up. Is
10 it okay now?

11 Q. **[2]** Are you hearing better now? Okay, that's it.
12 For your information, you both supplied us with a
13 copy of your CV. In the case of Madam Chaplin, it
14 was filed in the records under A-0010 and for Mr.
15 Todd, it was filed in the records under A-0011 so
16 that everybody knows but, at this point in time, I
17 would ask each of you to, you know, give a summary
18 of your background and what enables you to testify
19 here today and, essentially, to be able to produce
20 the report that was filed in the records. And
21 whoever wants to start first.

22 Mr. JOHN D. TODD :

23 A. I'm John Todd, I am president of Elenchus Research
24 Associates. The original company was established in
25 nineteen eighty (1980). I have specialised in

1 regulatory theory and practice since nineteen
2 eighty (1980), it's thirty-five (35) years. In
3 fact, worked in the area for five years before that
4 as a researcher for an organisation called the
5 Ontario Economic Council. Through that time I have
6 become focussed on energy regulation since about
7 nineteen ninety (1990).

8 Through the nineteen nineties (1990s) I
9 worked with a number of lawyers in this room for
10 various interveners on gas files, electricity files
11 and so on - it sort of feels a little bit like old
12 home week here - but I also worked, since nineteen
13 ninety (1990) quite extensively in British
14 Columbia, Manitoba, Ontario as well as Quebec. I
15 have appeared before regulators, all of the
16 provincial energy regulators as well as the NEB and
17 I've worked in telecommunications and in other
18 regulated areas.

19 Over the course of that time, I've been
20 involved in the development of PBR processes across
21 Canada and, as a specialist in broad-base of
22 regulatory matters, of course I've dealt with
23 performance rates regulation, incentive regulation
24 extensively in Ontario where it has been in place
25 for over a decade now and I have done a certain

1 amount of international monitoring.

2 With this undertaking, we brought the
3 Elenchus team in and did a much more in-depth look
4 at jurisdictions that I'm less familiar with as
5 part of the report.

6 Ms. CYNTHIA J. CHAPLIN:

7 A. Good morning. I'm Cynthia Chaplin, I'm an associate
8 with Elenchus Research and I previously have ten
9 (10) years of experience at the Ontario Energy
10 Board where I was a board member, a vice chair and
11 also the chair and CEO on an interim basis and,
12 before that, I have had experience with the
13 regulator in the U.K., with the natural gas
14 regulator. I am an economist by training and my
15 experience has been primarily in public service
16 across Canada and in the U.K.

17 And really, today, I'm bringing to you my
18 experience and my perspectives as a former
19 regulator, also familiar with a variety of regimes
20 through my reading, through the literature and
21 through my experience. Thank you.

22 (9 h 15)

23 Q. **[3]** Now, Mr. Todd, could you describe to us how you
24 got involved in these proceedings? And I am talking
25 more about process here, how you got involved, and

1 to describe the mandate that you obtained through
2 that process.

3 Mr. JOHN D. TODD :

4 A. Yes, the Régie issued a request for proposal in
5 mid-twenty fourteen (2014) and we prepared and
6 submitted a... our proposal, Elenchus' proposal, in
7 June of twenty fourteen (2014). And that proposal
8 was accepted. It was a response specifically to the
9 mandate as set out in the request for proposal and
10 therefore, we became involved.

11 Q. **[4]** Perfect. And what were the objectives of that
12 mandate, your understanding?

13 A. I actually went back and pulled out... there's a
14 nice little quote in the request proposal which
15 flowed through and was the main starting point for
16 our proposal and, therefore, for our work. I think
17 it's worth reading that one sentence:

18 The general objective of the mandate
19 is to identify and compare the
20 principal parameters of PBRs that
21 could be applied to the electric power
22 distributor and electric power
23 carrier, taking into account their
24 characteristics in their respective
25 markets.

1 That is the essence of the mandate.

2 Q. [5] Great. And now, to follow through, how did you
3 go about fulfilling that mandate? And, again, I'm
4 taking about process, protocol; how did you go
5 about it?

6 A. Yes, to be clear that the mandate did not include
7 specific recommendations. It was just a review of
8 what is being done. Therefore, our first step was
9 actually to do a high level broad-based review of
10 PBR regimes around the world, identifying surveys
11 that had previously been done in other
12 jurisdictions or for other proceedings. And we came
13 up with a long list, I suppose, of I think it was
14 about a dozen or fifteen (15) PBR regimes that were
15 of potential interest. And, from that, we trimmed
16 it down in discussion with the Régie to make sure
17 we met their requirements, by identifying three PBR
18 regimes which were specifically looking at
19 distribution and three that were set up for
20 transmission companies, to make sure we were
21 covering both transmission and distribution.
22 Secondly, we wanted to cover different styles, if
23 you want, of PBR. PBR is a very broad term instead
24 of regulation. And so, we ended up with six
25 jurisdictions to be looked at in detail, which are

1 the ones covered in the report. The three
2 distribution focussed jurisdictions were Ontario,
3 Alberta and New York Public Services Commission,
4 specifically Consolidated Edison. And the three
5 transmission related regimes included Ofgem, the
6 Australian regulator, which changed his names, so
7 it's just called Australia, and Norway.

8 Q. **[6]** We've been talking about the report, that
9 report...

10 A. Yes.

11 Q. **[7]** ... was filed in the record. It is entitled:
12 Performance Based Regulation: A Review of Design
13 Options, as background for the review of PBR for
14 Hydro-Québec Distribution in transmission
15 divisions. Now, for your benefit, this report has
16 been filed to the record as exhibit A-3 for the
17 English version, and a French translation was
18 prepared and filed under exhibit A-5. Were you
19 directly involved in the preparation of this report
20 and who else worked on it? I mean, the usual
21 question is: was it prepared under your direct
22 supervision?

23 A. I was the lead for the project. Ms. Chaplin was a
24 reviewer and had a lot of input. They say, her
25 experience as a regulator is very different from

1 mine, from being in front of the regulator. So, we
2 tried to put those two perspectives together. We
3 did have three Elenchus researchers in addition,
4 who essentially did the search and read the
5 extensive material. You'll see in the appendices to
6 the report, for each jurisdiction, there is
7 essentially a reading list and some additional
8 mechanics and details, which we viewed as being far
9 too... far more detailed than you needed for this
10 review but it was... they went through that to
11 prepare a road map, shall we say, for anybody who
12 wants to explore any of these six jurisdictions
13 further.

14 Q. **[8]** Thank you. I understand you have prepared a
15 PowerPoint. It will not be projected but you
16 prepared a set of slides for this morning's
17 presentation. I'm sure there are copies available
18 for everybody in the room. It is called:
19 Performance Based Regulation: A Review of Design
20 Options. And we will file the document, Madame la
21 Greffière, under A-0012.

22

23 A-0012 : Performance Based Regulation: A Review
24 of Design Options

25

1 A. And that PowerPoint presentation which is being
2 circulated, the intention of that, it is what I
3 call I sign post presentation. So, it is really to
4 steer the topic... the topics as you walk through.
5 It is not details of our comments. Those will be on
6 the transcript. Perhaps I'll pause until people
7 actually have copies.

8 (9 h 22)

9 Q. **[9]** Well, we'll make our copies. But for the time
10 being...

11 A. Okay.

12 Q. **[10]** ... they're all gone so I guess we should
13 proceed. So I leave it to you, if you want to make
14 a presentation of your work, thanks.

15 Mr. JOHN D. TODD:

16 The intention of this brief introduction is not to
17 walk you through the report. Everybody has that and
18 can read it at their leisure, good assistance in
19 sleeping if you have any difficulties there.

20 What we're trying to do is identify the key
21 themes, and say: here's the nub of what our
22 observations are of the other jurisdictions. So on
23 slide 2, we've identified six key themes, which run
24 through the report.

25 The first states: all regulated regimes

1 have incentives, often implicit. That was the
2 concern with traditional cost of service
3 regulation. Cost passthrough provides incentives
4 for excess in spending, and it can discourage
5 innovation. The reason is that given the cost
6 uncertainties, and when a regulated utility goes
7 into a year, the cost, the amount that was spent is
8 never known for sure; there's some uncertainty
9 there. So it is optimal, from a company's
10 perspective, to budget high, to make sure that the
11 budget that is approved and the rates are
12 sufficient to cover the costs, given the
13 uncertainty.

14 But you want to maintain the credibility
15 that you actually needed that money. So there's
16 also often an incentive to spend it or to lose it,
17 as the phrase often goes. So it's really just a
18 safety thing that is an incentive. Shareholder
19 owned utilities also have a strong incentive for
20 profit; the profit they earn comes from the return
21 on equity.

22 That means that in the literature, it's
23 clearly identified that there is an incentive to
24 overinvest in capital. The regulators, as we go
25 through all jurisdictions, the regulators introduce

1 PBR because they identified those concerns. A good
2 example was Norway, which is one jurisdiction which
3 did a lot of empirical work, and their researches
4 in the background papers leading to the
5 introduction of PBR estimated that there was
6 twenty-five percent (25 %) excess costs built into
7 their system. Therefore, they wanted an incentive
8 that would push in the other direction.

9 In addition, another concern that the
10 regulators frequently have is that traditional
11 regulation stifles innovation. Innovation itself is
12 risky, and regulatory processes can treat risk
13 asymmetrically; that means that if you innovate and
14 you save some money, that saving goes to the
15 customers. If you innovate and it's actually turns
16 out to be unproductive, the shareholder may have to
17 bear those costs. In that kind of environment, it's
18 an incentive not to be innovative, not to
19 experiment, not to try to save, not even try to
20 save money.

21 The second point is performance based
22 regulation is essentially an enhancement of
23 traditional cost of service. We're not talking
24 about something that is radically different. In
25 fact, many regimes, many jurisdictions had multi-

1 year cost of service, which is now defined as being
2 a form of PBR. We see that in Consolidated Edison,
3 for example. You've used it here. A multi-year cost
4 of service can essentially set rates for a multi-
5 year period, perhaps without any inflation
6 adjustments or anything, just rates are fixed for a
7 period. And that means, if the company is able to
8 reduce its costs, it will be able to retain those
9 savings, as long as it knows that the regime will
10 continue for several years.

11 So, really, all of the regimes we looked at
12 were some form of multi-year cost of service. A
13 cost of service is a re-basing, a normal cost of
14 service review that happens in some form,
15 typically, every three to five years. Companies
16 have an incentive, because they gain or lose when
17 there are variances relative to the allowed rates
18 or the allowed costs. So to some extent, PBR is
19 essentially a mechanism of making long periods
20 between re-basing sustainable.

21 (9 h 26)

22 In the US we see a lot of mechanisms that
23 are trying to do the same thing that they call
24 "alternate regulation" and there was a paper
25 produced by EEI that I believe was circulated

1 earlier in the process, certainly cited in our
2 report, and so there are many, many different
3 variations which aren't PBR but are different ways
4 of trying to get to the same goals.

5 Third, the appropriate PBR regime depends
6 on the context. One of the goals that we had when
7 we started our work was to identify something that
8 could be termed as "best practices". In fact, we
9 came to the conclusion there are no best practices.
10 There's no rule book for saying "Here's the right
11 way to do PBR." it all depends on the context.
12 Every jurisdiction needs something a bit different
13 and that's why in the review you'll see they're
14 different and that's why in Québec you cannot adopt
15 somebody else's regime. You have to take the
16 principles and determine what is appropriate here.

17 No regime is perfect. Some of the regimes
18 we looked at have gone through many different
19 generations. They are still evolving and they will
20 continue to evolve. There is no end point to a
21 definition so our observation, one of our
22 observations is don't expect that you can design a
23 PBR regime that will be the system in place
24 forevermore. You'll be designing a starting point
25 that will evolve.

1 well: public concerns about costs, there may be
2 other government policy that is related, other
3 policy changes, there may be issues around the
4 structure of the industry. So understanding what is
5 triggering this desire to move to PBR is an
6 important part of setting the objectives and the
7 other important part, it is the overall context in
8 which the companies are operating and within which
9 the regulatory framework is being set. And we've
10 just highlighted what we think are the main
11 considerations here on the slide.

12 So it is issues like what is the current
13 regulatory framework? How different is it from a
14 PBR type regime? What's that history, what's that
15 regulatory history within Québec? That's an
16 important consideration. What the utility's current
17 performance is? Are there concerns about either
18 costs or quality or pace of change so what are the
19 issues that have been arising in hearings that
20 maybe you want to look at and investigate in the
21 context of PBR.

22 Industry structure is an important
23 consideration as well. For example, are there
24 companies to which Hydro-Québec Transmission and
25 Distribution can be compared and if not in Québec,

1 then elsewhere in Canada or internationally. And
2 what is the other structure, what are the other
3 structural elements?

4 Data. Data is a very important
5 consideration and this, for example, was an issue
6 in Ontario when developing PBR. There was a lot of
7 data but it wasn't always very robust and didn't
8 necessarily have a lot of credibility so trying to
9 work with the data you have but recognising
10 potentially its limitations and therefore an issue
11 where you may need to make changes as you go
12 forward but being honest and taking account of what
13 information you do have.

14 Policy. So I mentioned this before, are
15 there other government policy initiatives or
16 strategies or policies in place that may have a
17 contributing impact or be something that needs to
18 be taken into account.

19 (9 h 30)

20 Stakeholder perspectives. This is very
21 important and I think it's one of the trends that
22 we noticed, that we've observed ourselves and I've
23 also noticed in doing the research for this
24 project, is a growing interest in customer
25 engagement and stakeholder engagement in terms of

1 shaping PBR and shaping the expectations of
2 performance for utilities. It's also important to
3 think about trends in the sector. Mr. Todd will
4 talk a little bit more about this in terms of
5 thinking about what's coming in the future in terms
6 of technological change that will affect the
7 companies and customers. And then I think it's
8 also, we think it's important to think about both
9 short term and long term goals, particularly if you
10 are initiating a PBR, it's important to try to set
11 some longer term objectives but recognising that
12 the context may change, elements may change and
13 also having some short term goals.

14 And I guess some examples, just another
15 example of how different contexts could lead to
16 different outcomes, in Ontario, which in many
17 respects is, well, it's just one entity but the way
18 natural gas is regulated in the way electricity is
19 regulated, is reasonably similar now but developed
20 along different paths and one of the reasons was on
21 the natural gas side, there were three rate
22 regulated distributors and on the electricity side,
23 there were, well, initially around eighty (80)
24 let's say.

25 So a very different context, it lead to

1 some different mechanisms and different design
2 features. But as Mr. Todd has said and I've said as
3 well, the other characteristic that we've observed
4 is this evolution, that PBR follows a trajectory of
5 evolution and the points, some of our main points
6 around that are on the next slide and my
7 observation as a regulator would be that seeing PBR
8 as an evolution as opposed to developing a perfect
9 elegant solution that is an abrupt change really
10 wouldn't be in keeping with standard regulatory
11 principles which emphasise characteristics like
12 stability and predictability and incremental change
13 as being a way to help all parties manage risk and
14 reduce risk trying to achieve good outcomes without
15 abrupt change.

16 So this evolutionary approach is also one
17 that is sustainable in the sense that you hope that
18 if there are errors or course correction changes,
19 they can be made without losing the broader goal of
20 trying to introduce some positive incentives. And
21 so it may also be helpful to think about
22 introducing PBR as a, well, in English it's known
23 as "change management" so it's whenever an
24 organisation or an institution is going through a
25 significant change, whether this would be the

1 regulator or the utility or the stakeholders that
2 it's done gradually and as transparently as
3 possible.

4 So that involves characteristics or factors
5 such as setting the objectives and actually
6 establishing a transition process in advance so
7 that parties see where things are headed. Very
8 important to monitor the results so it's not a
9 matter of setting a framework in place and then not
10 returning to it for a number of years. It's
11 important to monitor what's going on and to see
12 whether or not circumstances are turning out as
13 expected or not. It's important also to think
14 about, as the time goes by, are there other changes
15 that are happening in the industry or in the
16 context of the overall framework.

17 I think it's also important to remain
18 committed though the objectives because there will
19 often be, we've seen in all of the jurisdictions
20 we've looked at and, certainly in my experience,
21 challenges will arise, changes will happen,
22 unexpected events will happen so it is often
23 challenging to maintain a kind of a commitment to
24 the longer term objective but that's an important
25 characteristic. And we've certainly observed the

1 benefits of taking an evolutionary type approach
2 and the benefits that a number of the jurisdictions
3 we've looked at in terms of building stakeholder
4 and utility acceptance - this is something that we
5 have observed. I've observed it directly, we've
6 observed it in the jurisdictions we've looked at as
7 stakeholders and utilities gained greater
8 familiarity with the design features, gained
9 greater experience examining the analytical tools
10 that people become more comfortable with it and
11 therefore have greater confidence in it and that's
12 a significant benefit.

13 (9 h 37)

14 Also the overall technical expertise
15 increases. I certainly saw this in my time in the
16 U.K. and observing where they are now, you know,
17 what initially would have been a room full of
18 binders with numbers that maybe a few people looked
19 at, have now the tools have become much more
20 sophisticated. There's much broader investigation,
21 much broader range of stakeholders into the actual
22 analytical details. And that's a... I think that's
23 a benefit. And also, the quality of that data
24 improves. And... and by taking an evolutionary
25 approach which almost all the jurisdictions we

1 looked at has done, whether it's Ofgem with their
2 RIIO approach or the Alberta Commission or the...
3 or in Australia, and certainly in Ontario, that as
4 challenges have arisen and as issues arise by
5 taking an evolutionary approach, it allows for
6 corrections or adjustments or modifications to be
7 made, or enhancements, but still maintaining a path
8 towards the longer term objectives that have been
9 set for the programme.

10 But this evolution also does... it is
11 linked to this natural... it seems to be a natural
12 tendency towards greater complexity. As people
13 become more familiar with the design features and
14 more familiar with the analytics, there's a desire
15 to make it perhaps more elegant but that generally
16 means more complicated. So, Mr. Todd will talk
17 about that feature.

18 Mr. JOHN D. TODD:

19 Yes, in slide 5 is the guide post for the
20 Complexity: Finding the Balance. Complexity is part
21 of the normal evolution of PBR. We have not looked
22 at all PBR regimes. We've looked at the ones that,
23 on the initial cut appeared to be, I think, most
24 successful, most interesting. There are certainly
25 other regimes that we did not study which were

1 implemented and then abandoned, those that were
2 perhaps less successful. So, you'll hear us talking
3 about the six in fairly positive terms as PBR, but
4 that only came as the result of a lot of work. And
5 part of that work was work over time with the
6 system as they made it work better.

7 And, so, all of these regimes have evolved
8 over time. And part of that evolution was adding
9 complexity. The ones introduced most recently, for
10 example, Alberta was a relative late comer. It was
11 introduced as a more complex regime because it had
12 learnt from others.

13 The types of complexity is that there can
14 be add-ons where they see that the simple incentive
15 of saying "We're using a price-cap or a revenue
16 cap," CPI-X structure which is the most common,
17 drives people to cut costs. But if cutting costs
18 means that they are not investing out of the
19 capital in certain areas, then special mechanisms
20 are brought into play to motivate appropriate
21 capital spending. For example, there may be
22 separate adders for things related to reliability
23 of service or to safety. They don't want an
24 incentive to cut capital spending that will not
25 produce revenue but will produce safety. So, there

1 are special mechanisms there.

2 Mechanisms such as the efficiency carry-
3 over that we see in several jurisdictions. The
4 efficiency carry-over is response to the
5 observation that the incentive comes from the
6 saving... when the company reduces its costs, it
7 gains through the balance of the term until re-
8 basing. So, if it is able to cut costs in year one
9 of a five-year term, it can benefit for five years.
10 If it does the same thing in year 5, it only
11 benefits half a year, part of that year, the year
12 at most. So, some jurisdictions introduced what
13 they call deficiency carryover, which says, "We
14 will identify the savings related to specific
15 productivity initiatives and we will allow you to
16 retain the benefit for five years, whichever year
17 in the term you are doing." So, there's a carryover
18 beyond the end of the term, so the company
19 continues to benefit from the savings it
20 implements. That is specifically designed to
21 maintain the incentive, the drive to find cost
22 reductions throughout the term and not have it
23 declined over the term of the PBR.

24 So, there is add-ons. There's also trade
25 offs. Earnings sharing is seen as a trade off.

1 You've had some experience with earnings sharing.
2 The basic view amongst regulators is that with
3 earnings sharing, the company... the benefit to the
4 company is less when there is earnings sharing than
5 when there's no earnings sharing. Clearly. If you
6 save a hundred... if you save a hundred dollars
7 (\$100), the company gets a hundred dollars (\$100)
8 when there's no earnings sharing. When the company
9 saves a hundred dollars (\$100), they only get fifty
10 dollars (\$50) when there is earnings sharing, if
11 it's fifty - fifty (50-50). But earnings sharing is
12 part of a trade off. It is a way to split the
13 benefit between the customer and the company.

14 A different way is to set a stretch
15 productivity target. So, it essentially says,
16 "We're going to give a fixed amount of savings to
17 the customers and the company will essentially
18 suffer a loss if it doesn't achieve at least that
19 minimum saving." Once it gets beyond that stretched
20 target of productivity, then, it gets to save, keep
21 a hundred percent (100 %). That incentive is
22 stronger; every dollar you save, you keep. The
23 customer share comes from setting a target up
24 front. So many regulators such as Ontario chose not
25 to implement earnings sharing, for electricity at

1 least, because it said that will give a stronger
2 incentive for the company to increase its
3 productivity, but will have stretched targets to
4 make sure customers benefit from the regime.

5 (9 h 44)

6 The possibilities for complexity are
7 endless. You will see, you go through the report,
8 you'll see many, many different kinds of complexity
9 have been added. Complexity, obviously, is not
10 good. But so you introduce complexity where you
11 need it, but only where needed.

12 More advanced analytics; Ms. Chaplin has
13 referred to the importance of good data. Norway is
14 probably the ultimate example of a very
15 econometrically based methodology that is focussed
16 on determining appropriate costs. Ontario has
17 followed that example, with increasingly
18 sophisticated analytics around total factor of
19 productivity, to identify how productive companies
20 are. Good analytics require good data. You can't
21 jump into a intensive analytic exercise, unless
22 you're starting with good data. That's one of the
23 contextual aspects. How good is your data? What do
24 you have to work with? Can you produce good
25 analytic results? Therefore, can you actually rely

1 on the analytics to measure productivity of your
2 regulated company well?

3 Part of the evolution is integrating with
4 other regulatory objectives, so regulators have,
5 many that we've look at and beyond, have gone
6 beyond just cost cutting. New York, one of the
7 drivers, was actually not cost cutting, he was
8 service issues. Performance based regulation when I
9 first started, going back thirty (30), forty (40)
10 years, was more around the telephone companies,
11 where it was around connexion times. It was all, it
12 was service issues. So performance based regulation
13 can be related to any aspect of performance;
14 service, safety, as well as cost cutting.

15 So some of the systems have become more
16 complicated, because there's spinoff effects. As I
17 mentioned earlier, if you are cutting costs, that
18 can harm customer service, that can harm safety.
19 Therefore, you get into other objectives, and
20 therefore, you have service quality indicators, and
21 you start requiring performance related to those,
22 in order to ensure that your cost cutting measures
23 are not actually harming customers.

24 It's our observation in the jurisdiction we
25 live in, but also in the ones we've studied. The

1 policy environment is becoming more complex.
2 Regulators have expanded roles. When I started in
3 the regulation game in nineteen-ninety (1990),
4 energy regulators set rates. They set rates based
5 on costs. They were not concerned about things like
6 emissions, they were not concerned about climate
7 change, they were not concerned with low income
8 issues, at least in Canada, they were in the U.S.,
9 they were not concerned with other environmental
10 issues. Those demand side management, if not part
11 of the game. All of these things have been
12 introduced, and there's probably more coming down
13 the pipe, in terms of government policies that will
14 have an impact on regulated businesses. Those have
15 to be built into the PBR regime. That adds
16 complexity.

17 Lastly, on this slide, the business of
18 electricity is becoming more complex. The
19 technological changes, non utility alternatives,
20 are all driving this. Part of it is internal. When
21 competition came to telecommunications, one of the
22 changes that took place was the economic life of
23 the assets became shorter than the physical life.
24 There is the view that electricity, parts of the
25 electricity industry, are becoming competitive, not

1 just the conventional generation context, but
2 because of the ability, the potential ability to go
3 off-grid, because of declining cost of solar and
4 wind, because of the potential huge innovations in
5 storage. If we look out ten (10) or twenty (20)
6 years, and utility assets have an expected life of
7 sixty (60) years; if those assets become threatened
8 by competitive alternatives, then, a lot of our
9 traditional economic, or regulatory economics goes
10 out the window. And we will need PBR regimes, or
11 we'll need regulatory systems that can accommodate
12 the changes in the business environment that our
13 regulated companies operate in.

14 (9 h 50)

15 We see that in Ofgem, U.K., they've brought
16 in some very strong concepts around climate change
17 issues. Australia, U.K. and Ontario are all
18 bringing in much stronger customer focus so part of
19 the technology or things such as customers - we've
20 got a lot of gray hair in this room but I know my
21 kids have different expectations: they want fast,
22 immediate information, they want control. They will
23 be looking at regulated utilities very differently
24 than I do. Just for me, I want to flip the switch
25 and the light goes on. A new generation that is

1 technologically savvy and is on the Internet, they
2 want to know their usage, they want to be able to
3 run a smart home. They want different things and
4 the industry will have to respond to that. That
5 adds complexity and that, around consumer
6 expectations.

7 I'll add a little bit more to that as we
8 move to the next slide which is the future: more
9 change is coming. As I mentioned, government
10 policy, technology around generation networks and
11 information, customer preferences. Google is
12 becoming an energy company. Google is a potential
13 competitor. With all of the regulatory utilities,
14 you look at around the world. The speed of change
15 is being accelerated. We're used to things not
16 changing very quickly in this industry. So the risk
17 is that the monopoly is not secure hence
18 traditional regulatory compact may not be assured,
19 of cost recovery.

20 How will PBR regimes deal with that? The
21 regimes I've mentioned that are perhaps leading
22 edge moving to outcomes-based, part of that
23 outcomes-based is a focus on the customer. It's a
24 focus on understanding what the customer wants. So
25 in those regimes, they've moved away from simple

1 CPI-X formulas to expecting the company to come in
2 with long term business plans. They review those
3 business plans. Those business plans become the
4 performance targets against which they're measured.

5 This is sort of the newest flavour, if you
6 want, of PBR as yet - it's untested - I don't think
7 there's evidence out there. We certainly couldn't
8 find evidence that says "Here's the right way to do
9 it." or "Here's the key to success." This, leading
10 jurisdictions are experimenting with this, they're
11 demanding that companies come in with evidence
12 about what their customers want and that means
13 having actual customer contact, not simple surveys
14 but more extensive research on what customers want.
15 They're looking for utilities to be innovative and
16 the PBR regime is designed to allow the flexibility
17 so companies can adapt, respond to customers and
18 move into a modern age. It is very hard to do that
19 with traditional cost of service regulation.

20 But PBR can either impede or allow
21 companies to embrace the changes. It depends on the
22 design. So the first step is what are the
23 objectives? If that's an objective, you need the
24 design that helps achieve those objectives.
25 Flexibility in terms of the operations of the

1 company, flexibility in terms of what they're
2 delivering to customers, flexibility around
3 websites, around access to information, you know,
4 building information, usage information, real time
5 information. If that's important, that has to be
6 recognised.

7 Just as a side comment, because I did a lot
8 of work in the telecom area, with these kinds of
9 changes, the system becomes more expensive. A world
10 in which customers are not all seen as being the
11 same but it's recognised as in selling clothes or
12 food or anything else that customers are diverse,
13 if you want the customers to be responsive, sorry,
14 if you want the utilities to be responsive to
15 customers, that doesn't mean defining a customer as
16 one thing that you deliver to them. It means
17 recognising that customers are segmented. There are
18 customers that want a high quality service and are
19 willing to pay for it. There are other customers
20 that all they care about is a cheap price. Some
21 customers want information, others don't. To meet
22 the needs of diverse customers would be more
23 expensive than forcing everybody to accept one
24 model. That creates trade-offs which moves us to
25 the last slide, the recap: it's a delicate balance.

1 (9 h 56)

2 What you're challenging, what you're facing
3 when you approach a PBR regime is balancing the
4 various trade-offs. Flexibility versus
5 predictability. You've heard comments from Ms.
6 Chaplin and myself, predictability in regulation is
7 very important. Within a PBR regime, you define,
8 you set up the PBR regime, usually for a five year
9 term, before you say you're going to touch it. But
10 of course, the more predictable it is, it may mean
11 the less flexible it is. So you're bouncing off the
12 flexibility of the regime against the
13 predictability of it.

14 Does the regime encourage innovation around
15 services? Well, innovation involves risk so you're
16 looking at another trade-off. What do you want in
17 terms of the balance of innovation and risk? Some
18 regulators are concerned that if they give too much
19 room for innovation and essentially guarantee the
20 company that they will recover their costs, you can
21 get innovation that is taking on excessive risk
22 because the customer bears it and the company can
23 go ahead and do whatever they want and, in fact,
24 face no risk unlike a normal competitive market.

25 Protecting customers versus a service

1 provider. How strong is the focus on protecting the
2 customer versus protecting the utility? Some
3 regimes, as you look at the way the PBR is
4 designed, give a lot of protection to the company,
5 sometimes at a cost to customers. Other regimes are
6 much more focussed on the customer, creating risk
7 for the utility. PBR may mean that you rewrite the
8 regulatory compact between the regulator, the
9 customer and the utility.

10 Operational cost versus services. I
11 mentioned sometimes improving service, being more
12 flexible means costs will go up. Part of your
13 mandate is to try to keep costs and rates down.
14 What's the trade-off between service and cost? And
15 hopefully any increases in costs as you have more
16 service can be offset with productivity gains.

17 Do you want your utility, do you want your
18 jurisdiction to be a technology change leader or a
19 technology change follower? Some jurisdictions are
20 prepared to lead. Ofgem has a pool of money it has
21 made available to companies that want to have an
22 innovation project, they can actually get a subsidy
23 to bring in innovations which are experiments and,
24 if they're successful, then they can be adopted
25 more widely. Other jurisdictions choose to say "We

1 want to keep our cost down, we will innovate with
2 new things that have been proven elsewhere."
3 They're different strategies.

4 So that is the closing of our comments
5 which says we can't tell you where to go. Examples
6 elsewhere can't tell you where to go. They give you
7 an idea though of the issues that you are going to
8 have to face.

9 LA PRÉSIDENTE :

10 Merci beaucoup pour cette présentation éclairante.
11 Thank you very much.

12 Me LOUIS LEGAULT:

13 Q. **[11]** Mr. Todd, before the interveners and utility
14 attorneys proceed with their examination, since
15 filing your report - and your report is dated
16 January - have you been made aware of any
17 significant change in the literature or industry
18 practices that would modify the contents of your
19 report?

20 A. With all the comments on evolution, evolution
21 continues and since six months the most significant
22 potential change we're actually waiting for and
23 that is the New York PSC for Consolidated Edison,
24 that section of the report would probably have to
25 be rewritten next month when the process that

1 they're engaged in comes up with its final report.

2 We talked about some of the proposals and
3 the direction it may be headed but that
4 jurisdiction could change significantly later this
5 year so I'd flag to people, in the time period of
6 your process, people may want to keep an eye on
7 that and watch for that report next year. Other
8 than that, there haven't been changes that would
9 affect the observations that we have made.

10 (10 h 00)

11 Q. **[12]** Thank you very much. Madame la Présidente,
12 avant de rendre les témoins disponibles aux
13 intervenants et à Hydro-Québec, peut-être un petit
14 commentaire. J'ai compris ce matin que maître
15 Turmel était aussi ici pour l'AQCIE. Il n'y avait
16 pas eu de mots de maître Sarault qu'il se faisait
17 remplacer. Et quand on a planifié la journée, il y
18 a une demi-heure qui manque, là. Alors, je voulais
19 juste aviser tout le monde que, je sais que le
20 temps est compressé, chaque intervenant a une demi-
21 heure, mais si maître Turmel a l'intention de
22 prendre une demi-heure pour l'AQCIE, bien, il y a
23 une demi-heure qui manque. Alors, il va falloir
24 tous se serrer la ceinture pour passer à travers la
25 journée. On avait, au départ, prévu peut-être deux

1 jours. On l'a ramené à une journée. L'objectif
2 étant de tout finir aujourd'hui si possible. Je
3 demanderais à tout le monde de mettre un peu d'eau
4 dans son vin pour accommoder l'AQCIE si possible.

5 Me ANDRÉ TURMEL :

6 Bonjour, Madame la Présidente; bonjour aux
7 régisseurs. André Turmel pour la FCEI, mais ce
8 matin pour l'AQCIE. Évidemment, j'ai été informé
9 hier... on m'a demandé hier de prendre la relève de
10 maître Sarault. Et je croyais que la Régie en avait
11 été informée. Alors je m'en excuse, soit pour
12 l'AQCIE ou pour quiconque.

13 Alors, déjà les questions que m'avait fait
14 parvenir l'AQCIE, j'avais demandé de faire preuve
15 d'austérité dans le nombre de questions. Nous avons
16 réduit. Mais l'AQCIE a quand même des questions qui
17 sont, je pense, très pertinentes, parce que, à la
18 fois la FCEI a préparé ses questions avec monsieur
19 Paul Centorella, notre expert, et à la fois, je
20 sais que l'AQCIE les a préparées avec monsieur
21 Lowry. Alors donc, il y a des questions
22 pertinentes. On essaiera d'être à l'intérieur et on
23 va se fonder aux instructions de la Régie. Si on va
24 selon l'ordre alphabétique, vous pensez on peut
25 aller à la fin.

1 LA PRÉSIDENTE :

2 Je propose qu'on entende vos questions de l'AQCIE-
3 CIFQ à la fin. Et puis en effet que chacun tente de
4 respecter l'horaire le plus possible. Et on vous
5 entendra comme prévu pour les questions de la FCEI
6 plus tôt ce matin, mais seulement en fin de journée
7 pour l'AQCIE.

8 Me ANDRÉ TURMEL :

9 D'accord. Merci.

10 LA PRÉSIDENTE :

11 Merci.

12 Me HÉLÈNE SICARD :

13 Je vous demanderais de réfléchir. En fait, je vais
14 vous faire une demande, puis je vais vous demander
15 de ne pas me répondre tout de suite, mais peut-être
16 d'y penser. Trente (30) minutes, c'est très court.
17 Les gens ont préparé des questions, je présume,
18 comme un peu tout le monde, ils ont leurs questions
19 écrites préparées avec des analystes.

20 Est-ce que la Régie considérerait possible
21 qu'on dépose demain ou après-demain quelques
22 questions par écrit additionnelles adressées aux
23 témoins que la Régie a sélectionnés, de façon à se
24 permettre de limiter le temps d'audience et à être
25 certain qu'on ne déborde pas, mais que les

1 questionnements que nous avons puissent tous être
2 répondus. Je ne vous demande pas une réponse tout
3 de suite, mais je vous demanderais vraiment d'y
4 réfléchir. Je pense que ce serait... Je vous
5 suggère que ce serait sans doute utile si la Régie
6 le permettait. Merci.

7 LA PRÉSIDENTE :

8 Merci. Je vous reviens après la pause et nos deux
9 premiers intervenants. Alors, nous serions prêts
10 maintenant à recevoir maître Cadrin, l'AHQ-ARQ.

11 (10 h 05)

12 EXAMINED BY Me STEVE CADRIN:

13 Q. **[13]** Bonjour, Maître Steve Cadrin pour l'AHQ-ARQ.
14 Hello to the panel, Mr. Todd, Ms. Chaplin. I'll ask
15 my questions in English. And please bear with me if
16 my English is not quite good, sometimes. So, first
17 questions are on the CV of Mr. Todd. On your
18 resume, page 20, under "Private sector companies",
19 we see that one of your clients is Hydro-Québec.
20 First, can you tell us which division of HQ are you
21 referring to, either of your own implication of
22 that of Elenchus.

23 Mr. JOHN D. TODD:

24 A. The client was Hydro-Québec Energy marketing with
25 respect to their involvement in ISO... Independent

1 System Offer processes in Ontario. So, it was with
2 respect to Ontario electricity operations. And that
3 was my involvement.

4 Q. **[14]** What about Elenchus? Are there any other
5 clients, HQ clients, Elenchus was involved in that
6 you know of?

7 A. Not that I know of. I don't think so.

8 Q. **[15]** Also, in your resume, on page 7, it indicates
9 that you have appeared before the Régie de
10 l'énergie; does this list include all of your
11 participation for Elenchus or yours only?

12 A. My resume would be my appearances. There were other
13 appearances by members of Elenchus and I would note
14 that in... shortly after two thousand (2000), the
15 company was split and so, the separate company,
16 Econalysis, would have continued to provide support
17 to certain interveners after I stopped
18 participating in that role.

19 Q. **[16]** So, you're saying that from two thousand
20 (2000) on, Elenchus has not been involved in any
21 Régie file, as far as you know of, outside of...

22 A. No. Since the split, which I think was two thousand
23 and in any Régie files as far as you know of?

24 (10 h 08)

25 A. No, since the split, which I think was two thousand

1 and three (2003)...

2 Q. [17] Okay.

3 A. ... Elenchus has not been involved in any Régie
4 files.

5 Q. [18] And can you tell us a bit more about which
6 clients were you representing in the appearances
7 that you had in front of the Régie?

8 A. A customer group, it was, it went through a few
9 client coalition changes but, essentially, Option
10 Consommateurs.

11 Q. [19] If we look at HQ, or we are talking about
12 Transmission-Distribution in this case, before we
13 start thinking about this PBR process and what you
14 know about HQ right now, what would you say would
15 be the main challenges or issues for HQ in a PBR
16 regime, establishing a PBR regime in, I could say
17 like the "Top 10 List" but that would be too much
18 like David Letterman but at least give us the main
19 challenges.

20 A. It was outside of our scope of our mandate to look
21 at Hydro-Québec the Québec situation therefore,
22 frankly, we have not turned our mind to that issue.
23 We have identified issues generally that, in our
24 view, could form a starting checklist to determine
25 what the parties here think are relevant for HQ.

1 But we have not done that trimming down of the
2 list.

3 Q. [20] Now going to the report itself, if we may, we
4 have both versions - one is in French, one is in
5 English - so sometimes the pages are different, but
6 not sometimes, all the time. So maybe page 1 is
7 good but going from there it's not very good. So
8 page 11, I'll do the questions in English so page
9 11 for you and for everybody else who wants to read
10 it in French it's page 13. So it's lines 5 to 7 and
11 page 13 in French, it's 12 to 15. So I'll read
12 those lines for everybody, so for your reference:

13 They often maintain excess standby
14 capacity, reserve margins and high
15 standards of reliability and...

16 And I'm sorry about that word before I...

17 ... uninterruptibility of service,
18 which require increased capital
19 investment.

20 Can you give examples of ways by which this is done
21 by public utility companies in the sectors of
22 electricity distribution and transmission?

23 A. Okay. That is quoting Dr. Kahn from his book in or
24 a restatement of from his book which is nineteen
25 seventy-seventy-one (1970-71) but the standby

1 capacity is essentially, and reserve margins are
2 essentially any utility has to maintain reserves
3 for plant outages - we're talking generation
4 utilities now.

5 So when you're talking standby capacity and
6 reserve margins, that's really a generation issue,
7 not a transmission or distribution issue and there
8 is, for as long as I've been involved, there's been
9 debate about what the appropriate reserve margins
10 are. It's a trade-off between cost and the
11 assurance that you'll not have brownouts due to
12 outages of plants. Plus an alternative to having
13 standby capacity or reserve margins is to have
14 increased interconnection ties so you can import
15 power and diversify in other ways. I think what
16 Kahn was pointing out is that it would be an
17 incentive to, for a generation company, to maintain
18 higher capacity rather than use interconnected ties
19 to increase imports.

20 Moving to the second part of higher
21 standards of reliability and uninterruptedness of
22 service, because a utility's profit - we're talking
23 a shareholder owned company or a Crown corporation
24 acting like a shareholder company where it's
25 focussed on earning profit - that profit is earned

1 on return, on equity, on capital investments and
2 therefore it would actually have an incentive to
3 have very high reliability standards, very high
4 standards for non-interruption of service and
5 therefore high capital investment to earn high
6 profit. And as a trade-off, the higher the quality,
7 the higher the standards, the more expensive the
8 system is.

9 (10 h 12)

10 They have an incentive to push for the most
11 reliable system possible. And what he was pointing
12 out is that may not actually be what the customers
13 want. That's sort of what he, Kahn, in writing
14 this, what he was pointing out. And what Kahn has
15 said is generally accepted in the literature.

16 Q. **[21]** Is there any difference to say... to your
17 answer in a regulated environment? Or it's
18 basically the same principle.

19 A. The same principle. It's a matter of what the
20 regulated utility is the incentive, and it's a
21 matter of what they can get the regulator to
22 accept.

23 Q. **[22]** We're moving on to page 11... page 11, page 2,
24 I'm sorry. Page 2, lines 24 to 26 in English, in
25 French page 3, lines 3 to 4. And I'll read it out

1 for you.

2 [...] costs associated with
3 extraordinary and unanticipated events
4 that are outside the control of the
5 utility

6 we're talking about the Z factors?

7 A. Yes.

8 Q. **[23]** Almost anything can be qualified as
9 unanticipated. Are there any jurisdictions that
10 determine these extraordinary or... and
11 unanticipated events better than others? I'm sorry
12 about the word, again.

13 A. Yes, there's usually an effort to define those
14 quite carefully. Typically, there's a dollar
15 threshold. So, it has to be a big enough cost to be
16 potentially harmful to the company, if it is not
17 recognized. And, secondly, it's got to be well
18 outside the normal course of business. A typical
19 example is a major ice storm. In addition, there
20 are, certainly in some cases... I can think of some
21 Ontario cases where what is recognized number 1 is
22 very carefully defined in advance. Because
23 unanticipated, like an ice storm is something which
24 you don't anticipate but you know is a risk.

25 Q. **[24]** Yes.

- 1 A. Or, you know, hurricanes and so on, earthquakes.
2 Those types of things can be defined. And, on a
3 case by case basis, typically, you... approval is
4 required. And of the ones that I am familiar with,
5 they're more typically denied than accepted. So, it
6 can be a rigorous standard to actually get a Z
7 factor cost allowed.
- 8 Q. **[25]** So, we're talking about more, like, really
9 extraordinary events like ice storms, although we
10 all know that it can happen.
- 11 A. Exactly.
- 12 Q. **[26]** Many things can happen in life; this is really
13 extraordinary. What would you say about a more
14 severe winter or more... a colder winter than
15 normally anticipated but...
- 16 Q. **[27]** The intention here is... it's recognized that
17 rates are set in a way that the company could be
18 jeopardized, financial position could be
19 jeopardized through absolute non-recognition of
20 extraordinary events. So, it's better than an off-
21 ramp. It's better than exiting the whole PBR system
22 to recognize something that would otherwise
23 basically drive the return equity so low that the
24 company would be in trouble.
- 25 Q. **[28]** Okay. How can the utility be given an

1 incentive to deal the extraordinary events at the
2 best cost? What would be your thoughts on that?

3 Ms. CYNTHIA J. CHAPLIN:

4 A. Well, I can speak from my experience in Ontario
5 where the incentive is to have a Z factor approved
6 always requires a separate application. And in...
7 so, in that instance, the evidence would be
8 required to justify how the event and the costs
9 meet the criteria that have been established. So,
10 as with any other application, it would then be
11 challenged and tested, including the costs. So, and
12 I would certainly say from the Ontario perspective,
13 even with all of our utilities, it's really just a
14 handful of Z fator cases... generally come forward.
15 And they've almost always been related to a storm
16 damage or tornado damage. So, they're often linked
17 to very specific physical events. And the companies
18 know that, in order to receive approval to recover
19 those costs, they have to be very rigorous in how
20 they track those costs, so that they will be able
21 to present them. But they would... they are
22 challenged and tested.

23 Q. [29] All the time? So, every single case is a Z
24 factor case, as you say, and then we check if the
25 criteria are met?

1 A. Right. So, Z factor cases, certainly in Ontario are
2 unusual. There are not many of them. They always
3 require a separate application. And there's a set
4 of criteria that the applicants know they have to
5 meet and the stakeholders are involved in testing
6 and challenging them.

7 Q. [30] Okay. Page 4 of the report, lines 24 through
8 25, in French it's page 5, lines 16 to 17, for
9 Ofgem, we're talking about Ofgem in the U.K.

10 There is also an Information Quality
11 Incentive (IQI) which rewards
12 companies for submitting accurate
13 expenditure forecasts.

14 How's this done?

15 (10 h 18)

16 Mr. JOHN D. TODD :

17 A. The details are contained in the documents that we
18 cite in the appendix. And I feel like I'm in a
19 final exam. It's not fresh in my mind. Work was
20 done long ago. But basically, what it is is there
21 is a review done each year. There's an allowed
22 revenue. And there is, under the new regime, there
23 are standards, in terms of the quality of
24 information. I made reference earlier to, if you're
25 going to rely on data, the data has to be quality

1 data. So there's an evaluation made of the
2 information submitted. And if it's clean, as I
3 understand, if it's clean data and the regulator
4 can reward the company for doing that.

5 In essence, it's saying good quality data
6 costs money. And so, the incentive in effect to
7 earn that incentive; the company's probably
8 spending money, just like...

9 Q. **[31]** To recover costs.

10 A. Yes. There's costs to checking their data and
11 making sure that what they're putting into the
12 regulator is good quality data, and the regulator
13 can rely on it, and that is recognized as efforts
14 involved; and therefore, there's reward given. I
15 would almost say it's a recognition of the cost of
16 quality data.

17 Q. **[32]** Okay. Are there other jurisdictions other than
18 Ofgem, doing this?

19 A. I'm not aware of any others -are you Cynthia- that
20 have an explicit mechanism. And this one is quite
21 new. Certainly, there's a widespread concern about
22 the quality of the data, and regulators have other
23 tools, besides specific rewards, to put pressure on
24 companies to provide good data. Certainly, I think
25 I've seen some Ontario decisions, where the

1 company, there were consequences of providing poor
2 filings, filings containing poor data, i.e. the
3 numbers may not have been accepted. So there's a
4 consequence in poor data, which is another way of
5 putting it.

6 Q. **[33]** Okay. So more indirect way to get it done.
7 Okay. On page 35 now, or 43 in French, you
8 mention :

9 ... the Total Factor Productivity
10 ("TFP") approach. TFP is a statistical
11 method that measures productivity by
12 determining the extent to which the
13 increased production, or output, of a
14 firm can be attributed to increases in
15 input factors (i.e., capital and
16 labour).

17 So page A-27 or A-29 and A-30 in French,
18 also refers to two studies to evaluate the TFP for
19 Alberta without references. Can you provide more
20 details or references on the TFP approach?

21 A. Yes. We could provide more. It is a major field of
22 study, econometric method. There are companies that
23 specialize in doing them. A specific economics
24 group does the TFPs studies for Ontario. Cynthia
25 may want to comment on that. Conceptually, the

1 concept, it's quite simple. The reality is
2 extremely complicated. And there probably is a
3 textbook on it somewhere. But I suppose some of the
4 filings may be the most relevant thing for you to
5 consider, and we can certainly give some sights
6 there. Yes. So you're just looking for some
7 references.

8 Q. **[34]** Yes. But we didn't talk about undertakings and
9 things like that, but we'd expect that would be an
10 undertaking, because you can not answer today, most
11 probably, and talking in the general sense for the
12 TFP so, as an undertaking, if it's possible to give
13 us more details or references on the TFP approach.

14 A. Yes. The simplest thing is there, for Alberta,
15 which I think that reference was talking about. For
16 Alberta...

17 Q. **[35]** Yes.

18 A. ... there were TFP studies filed.

19 Q. **[36]** Yes.

20 A. Those studies would include a description of the
21 methodology. Similarly, in Ontario, a specific
22 economics group, as I mentioned, does an updated
23 productivity study, TFP study annually. Certainly,
24 they include discussion of methodology. Those
25 discussions are not something you can take away and

1 replicate the work in a different jurisdiction.

2 Q. **[37]** I understand.

3 A. Okay. It's, here, it's explaining how they did it,
4 talking about some of the data, but it's a
5 particular statistical methodology that they're
6 experts in. But I'll, we can give you some
7 references.

8 Q. **[38]** So some references on the filings, or...

9 A. Yes.

10 Q. **[39]** ... you were talking about Ontario...

11 A. Yes.

12 Q. **[40]** ... the jurisdictions we talked about here.

13 A. Yes.

14 Q. **[41]** So maybe it's more interesting to read them
15 and to understand how it fits in the regime...

16 A. Yes.

17 Q. **[42]** ... in those regimes. If you have general
18 information or references...

19 A. Yes.

20 Q. **[43]** ... we can also look at that, but the
21 implication is more interesting...

22 A. Yes.

23 Q. **[44]** ... for us.

24 A. It's basically an oversight that we didn't have the
25 cite for that, because I know that we... my staff

1 had looked Alberta, they did look at that, and we
2 have those cites in the office.

3 (10 h 24)

4 Me LOUIS LEGAULT :

5 Madame la Présidente, juste pour être clair, it is
6 my understanding that the undertaking is to supply
7 more references relating to the TFP approach? Is
8 that the gist of it?

9 Me STEVE CADRIN:

10 Yes.

11 Me LOUIS LEGAULT:

12 Okay. Or references...

13 Me STEVE CADRIN:

14 Q. [45] Plain. Is there no references... I think it's
15 probably an oversight in the document because you
16 were referring to Alberta, a TFP in Alberta. Most
17 probably, there were finds or there were documents
18 that were on your mind at the time.

19 A. Yes, I think cited the cases but didn't cite the
20 particular document within the case.

21 LA PRÉSIDENTE :

22 Je comprends que nous recevrons des références
23 additionnelles mais l'audience d'aujourd'hui ne
24 devrait pas servir à augmenter ou à élargir le
25 mandat. Alors, je voudrais qu'on en reste à l'étude

1 et à des questions sur le document et le mandat
2 reçu, autant que possible.

3 Me STEVE CADRIN :

4 Est-ce qu'il y a une préoccupation par rapport à
5 cet...

6 LA PRÉSIDENTE :

7 Non, pas...

8 Me STEVE CADRIN :

9 C'est juste que c'est général pour la suite, c'est
10 ça?

11 LA PRÉSIDENTE :

12 C'est ça.

13 Me STEVE CADRIN :

14 O.K.

15 LA PRÉSIDENTE :

16 Je ne voudrais pas que la... l'audience
17 d'aujourd'hui...

18 Me STEVE CADRIN :

19 Non, c'est correct.

20 LA PRÉSIDENTE :

21 ... serve à étendre le mandat actuel.

22 Me STEVE CADRIN :

23 Non, non. Quand il y aura des demandes de cette
24 nature-là, ce sera pour des éléments, visiblement,
25 où il y avait une référence mais qu'on n'a pas la

1 référence...

2 LA PRÉSIDENTE :

3 D'accord.

4 Me STEVE CADRIN :

5 ... dans le document.

6 LA PRÉSIDENTE :

7 Merci.

8 Me STEVE CADRIN :

9 Q. **[46]** Oui, bien je vais le résumer encore, il est
10 résumé par plein de gens, mais moi-même, je vais le
11 résumer maintenant. Alors, je vais poser la
12 question, tout simplement, comme elle était posée,
13 elle était large : so, can you provide more details
14 or references on the TFP approach? So, undertaking
15 1.

16

17 E-1 Supply more references relating to the TFP
18 approach.

19

20 A. And I ref... I've written down as references for
21 TFP methodology in the cases that we have cited.

22 Q. **[47]** You provide whatever references you think are
23 more relevant on the... La bonne nouvelle, c'est
24 que j'ai tourné quelques pages de questions.

25 Alors, benchmarking on a level playing

1 field would be my next line of questions. And we
2 are talking about page 72 in English, 84 in French.
3 You mention benchmarking for transmission in models
4 and studies such as ECOM+ and e3grid. Question: in
5 Québec, we have been told many times that the
6 transmission system is unique because, notably, you
7 have to ignore the climate and of the high voltage
8 and length of the lines, and consequently, that any
9 benchmarking can be difficult and misleading. Is it
10 of your opinion that tools such as ECOM+ and e3grid
11 can be used to benchmark different types of systems
12 on a level playing field?

13 A. I will comment. Cynthia may want to... Ms. Chaplin
14 may want to add something to my comments but...
15 You... when you benchmark, you never have perfect
16 comparables. But benchmarking is, nevertheless,
17 useful. Part of the benchmarking exercise is to use
18 a sample where you can extract from the data. And
19 that's what some of the TFP studies are designed to
20 do in different items. What you're trying to do is
21 identify the differences in cost related to
22 differences in characteristics. Simple example; if
23 you're comparing a number of jurisdictions, some of
24 which have cold climates, some of which warm
25 climates, you can probably identify... you can

1 statistically identify what cost differences are
2 attributable to those factors. You'll never...
3 number 1, you'll never identify every difference
4 across the sample. Number 2, you'll never perfectly
5 identify what... the quantity that's attributable
6 to those differences. But you come up with useful
7 indicators. Part of what you see with the changes,
8 the evolution in Norway, is what they've tried to
9 do, is expand the number of comparators so they can
10 tease out that kind of data.

11 So, initially, it was just Norway comparing
12 with Sweden, two companies. They couldn't... with
13 two.... with one comparator, you couldn't identify
14 what's the cost associated with specific
15 differences. That's why they have gone to other
16 methodologies. The challenge for Norway has been:
17 where do we find other regulators, other companies,
18 who are prepared to collaborate with us and develop
19 data that is consistent across a lot of companies?
20 And that's why it has taken time and a lot of
21 inter-regulatory negotiations to come up with a
22 larger sample so that they could do better
23 benchmarking studies. Sample size... bottom line,
24 sample size is important in benchmarking studies
25 and many regulators - that's where Ms. Chaplin will

1 want to comment - I have taken the view that some
2 sort of benchmarking is better than nothing.

3 (10 h 29)

4 Ms. CYNTHIA J. CHAPLIN:

5 A. Yes, I would say that benchmarking is important
6 and, as Mr. Todd said, it's not perfect. It is
7 quite common, I think, for any regulated entity
8 which is first facing benchmarking to claim that it
9 is unique and, in some respect, each company is
10 unique but...

11 Q. **[48]** Yes.

12 A. ... that's... Yes.

13 Q. **[49]** That's a given?

14 A. Yes. So that's not a reason not to continue to
15 pursue it. But, as Mr. Todd says, it does take time
16 and speaking from the experience in Ontario, it is
17 benefited by having stakeholders involved in trying
18 to develop the tools, trying to bring everybody
19 along and certainly my observation is that even
20 very large utilities who may claim that
21 benchmarking is not relevant, often if you look
22 deeply into their own organisations, they are doing
23 forms of benchmarking themselves. Perhaps not on a
24 corporate-wide basis but certainly everybody, to
25 some extent, wants to compare themselves to others.

1 If your managers aren't expecting it, your board of
2 directors may be expecting it so this ability to
3 compare your performance to either demonstrate that
4 it's strong or to help identify where improvements
5 could be made is a pervasive - not just in
6 regulated entities but everywhere. So...

7 Mr. JOHN D. TODD:

8 A. And I can't resist the opportunity for a corporate
9 plug because a few years ago Elenchus did conduct a
10 study with First Quartile Consulting for CAMPUT,
11 the association of Canadian regulators on
12 benchmarking for regulatory purposes so the
13 definitive comments, of course, are contained in
14 that report.

15 Q. [50] I understand. We move on to something else -
16 I'll read that - but page A77 or A86-87 in French,
17 we're talking about in Norway about a special
18 mechanism or compensation mechanism.

19 In 2007, the NVE introduced a direct
20 payment to customers due to very long
21 outages, more than 12 hours, in order
22 to motivate companies to repair an
23 outage as quickly as possible. If the
24 outage lasts for more than 12 hours,
25 the company is obliged to directly

1 compensate the end users that are
2 affected by the outage. The payment
3 schedule is as follows:

4 So I'll let you read that but there are amounts of
5 money that are provided there depending on the
6 length of the outage. Do you know of any other
7 jurisdictions that apply such a reimbursement
8 system to its customers?

9 Ms. CYNTHIA J. CHAPLIN:

10 A. I believe the U.K. does as well. I cannot recall
11 the details but that was certainly something that
12 was even in place as long ago as when I was there
13 as a staff person on the natural gas side. So this
14 idea of not only having incentives for good
15 performance but potentially penalties for poor
16 performance. But Ontario does not, I'll give that
17 as an example as well, but it's something that's,
18 it's an issue that is repeatedly raised as being,
19 if there are going to be positive incentives and
20 opportunities to earn a greater than the allowed
21 return, there should also be potentially penalties
22 or disincentives for poor service quality.

23 Q. **[51]** Are there any drawbacks that you know of of
24 this mechanism in Norway or, let's say, in the
25 U.K.? Because you are more aware of what happens

1 in...

2 A. The U.K.

3 Q. **[52]** ... the U.K.

4 A. Well, only drawbacks in the sense that they're
5 often difficult to put into place because there end
6 up being detailed arguments about how it would be
7 measured, you know, what truly constitutes
8 something, you know, when does the interruption
9 start, when does it end, as an example. So there
10 end up being many debates about exactly how it
11 should be measured than debates about what is a
12 reasonable standard. So it's one of those aspects
13 that adds complexity, it has benefits along with it
14 in terms of focussing attention on an issue that
15 might be a particular concern but it does add
16 complexity.

17 Mr. JOHN D. TODD:

18 A. On a practical side, the different jurisdictions or
19 different utilities have different technologies
20 around identifying outages and so there can be
21 challenges in knowing who's affected by an outage
22 and exactly when the outage is suffered and so on.
23 It depends on the metering systems, where they're
24 located and so on so it can get into practical
25 challenges. In the telecommunications side, I

1 believe the CRTC has introduced, there is a refund
2 if your phone is out of service for a number of
3 days. I think I recall receiving a refund for a few
4 days without service but with the technology of the
5 telephone system, essentially everybody is
6 connected to a big computer so the information is
7 readily available. That's not the case...

8 (10 h 34)

9 Q. **[53]** Same as smart meters or smart measurement...

10 R. Yes, now, again, there are some issues around smart
11 metres. Some of them... they're not... all the
12 smart metres aren't as smart as the name sounds.
13 There can be gaps in the information being
14 collected. And it doesn't necessarily relate to an
15 outage. And, so, there's a cost to actually
16 implementing a mechanisms such as this, of making
17 sure that you identify the difference between a
18 true outage and something which is a metering
19 problem.

20 Q. **[54]** Thank you very much. That's all the questions
21 we have. Thank you.

22 LA PRÉSIDENTE :

23 À ce moment-ci, nous allons prendre une pause de
24 quinze (15) minutes et nous reviendrons avec EBM
25 dans quinze (15) minutes, et la réponse à votre

1 question, Maître Sicard.

2 SUSPENSION DE L'AUDIENCE

3 REPRISE DE L'AUDIENCE

4

5 LA PRÉSIDENTE :

6 Bonjour. Alors, pour le bénéfice de tous, je vais
7 d'abord répondre à la question de maître Sicard sur
8 la possibilité de questions écrites. Je vous
9 rappellerais d'abord, et je vous demanderais de
10 prioriser vos questions pour tenter de respecter
11 notre agenda de la journée pour que tout le monde
12 soit entendu; alors, vos trente (30) minutes. À
13 titre exceptionnel, toutefois, la Régie recevra
14 jusqu'à demain midi (12 h), les questions
15 additionnelles écrites pour des références ou de
16 courtes clarifications à l'intérieur du mandat, tel
17 que décrit à la décision procédurale. Après examen,
18 la Régie déterminera les questions à transmettre à
19 Elenchus et diffusera les questions et les réponses
20 sur le site. Alors, c'est ce que je vous offre. Et,
21 Maître, nous serions prêts à vous entendre...

22 Maître Hamelin.

23 EXAMINED BY Me PAULE HAMELIN:

24 Q. [55] Bonjour. Paule Hamelin pour Énergie Brookfield
25 Marketing. Bonjour, Madame la Présidente; Madame,

1 Messieurs les Régisseurs. Bonjour aux membres du
2 panel. Hi Mr. Todd and Ms. Chaplin. First of all, I
3 would like to ask you certain methodology questions
4 with respect to the report. You have chosen six
5 specific jurisdictions that utilize PBR in the
6 electricity sector and that... and were reviewed in
7 your report. I understand from previous questions
8 from maître Legault that you, first of all,
9 verified the PBRs around the world. I understand...
10 I understood from your testimony earlier that there
11 were twelve (12) chosen. Can you just explain to me
12 a little bit more the methodology that you have
13 chosen? The comparison jurisdictions chosen? How
14 you came about determining the PBRs, the list of
15 the twelve (12), and then, the breakdown to six.

16 Mr. JOHN D. TODD:

17 A. The first criteria was, we wanted three that we
18 look at distribution and three to look at
19 transmission. And there are fewer... as I recall,
20 there are fewer transmission on our list. So,
21 essentially, most, if not all, that had PBR from
22 transmission were included from our long list. And
23 then, it was from our initial review, there's
24 certainly jurisdictions that have PBR but the first
25 cut suggested, either they are very similar, kind

1 of copycats, of one of the others, that would be
2 considered to be the more leading, the more
3 experienced jurisdiction. So, the second criteria
4 was to say, how do we get diversity of, sort of,
5 different kinds of experiences? There was... and we
6 wanted... I think we made sure that there was at
7 least one that was, you know, PBR for one company,
8 since we're talking about... in Québec, it's Hydro-
9 Québec, one company. And so, for example, Alberta,
10 one of their regimes, is for a single company.
11 Ontario is obviously not in that ballpark.
12 Consolidated Edison is a single company. And many
13 of the regulators of PBR are dealing with multiple
14 companies. So, it was... I'm not sure if those are
15 all the criteria but those are the main ones. And
16 then, there's some judgement around which one...
17 which suite of six will give us the most insight.

18 Q. **[56]** In terms of the objectives, am I to understand
19 that, with respect to this report, it was not part
20 of your study to specifically determine what would
21 be the objectives for Québec to establish or
22 implement a PBR?

23 A. That's correct.

24 (10 h 57)

25 Q. **[57]** Are there any... in terms of the objectives

1 that you have studied for the six jurisdictions,
2 are there different objectives for a PBR applicable
3 to transmission providers and a PBR applicable to
4 distributors? Different objectives that should be
5 considered in implementing distinct PBRs?

6 A. Yes. An obvious example is with the latest
7 evolution, customer focus is very important for
8 distribution. That is essentially not an issue for
9 transmission, although, you know, where there are
10 many distributors, transmission, you know, maybe a
11 relatively minor consideration, when you're talking
12 about distributors being customers, as opposed to
13 end-users. And there are other differences, which
14 are a matter of relevance, having gone through the
15 list.

16 Q. **[58]** Any other objectives that you would think of
17 that are different?

18 Mr. JOHN D. TODD:

19 A. Some, things like simplicity. Most objectives would
20 be generic.

21 Ms. CYNTHIA J. CHAPLIN:

22 A. Yes. I would think in many cases the objectives are
23 quite high level. So they might well be applicable
24 to both distribution and transmission, for example,
25 incenting greater efficiency in cost reduction. So

1 when they're at a high level, they will probably be
2 applicable to both. It's when you're getting into
3 the particular design elements or in perhaps some
4 more specific objectives, that you might see a
5 difference between transmission and distribution.

6 Mr. JOHN D. TODD:

7 A. Yes. Things like the capital trackers. So one of
8 the differences we mentioned was that you more
9 often have a price cap for distribution, and a
10 revenue cap for transmission. Those are
11 differences. If you have a revenue cap for
12 transmission, you need more exceptions for capital
13 additions. Lump your capital, that may just be an
14 expansion, because of growth. So there are other
15 differences, but that's more on the implementation
16 level, not the high level principles.

17 Ms. CYNTHIA J. CHAPLIN:

18 A. And I guess, just to be very specific, in Ontario,
19 on the electricity side, the renewed regulatory
20 framework has been established, and then it has a
21 set of objectives, and it's been targeted at
22 distribution. But it was the expressed intent of
23 the Ontario Energy Board to apply it also to
24 transmission, but that there would be some sort of
25 additional process to determine if there needed to

1 be any modifications. So they haven't had that
2 process yet. But certainly, their expressed
3 intention is that the governing kind of principles
4 would be as applicable to transmission as to
5 distribution.

6 Q. [59] In terms of the implementation, can you
7 explain a little bit more, to your knowledge, how
8 the transition goes about, from cost of service to
9 PBR, the initial transition?

10 Mr. JOHN D. TODD:

11 A. It has been different in different jurisdictions.
12 In a couple of cases, Australia and the U.K., it
13 was part of much broader, because there, there is a
14 privatisation of the industry that went on. And so
15 they're introducing a regulatory regime that was
16 kind of first, like first regulation, but it was a
17 whole new regime for a whole new industry, in terms
18 of ownership structure.

19 And part of that was with privatization
20 came a stronger lever around the incentive to earn
21 a higher return. So that created an opportunity. In
22 other jurisdictions, well, Ontario, it came in as
23 results of the distributors coming under OEB
24 regulation. And previously, there had been a former
25 regulation that was overseen by the old Ontario

1 Hydro.

2 With Consolidated Edison, it was more:
3 let's stretch things out. And it just went to
4 having multi-year cost of service, which was, you
5 know, the most basic level of fairly small
6 innovation.

7 Alberta, which is relatively recent, looked
8 at what was being done at other jurisdictions, and
9 that was actually the first months of proposal for
10 one company. And it was several years later that
11 they brought in a generic methodology. So it was
12 kind of like baby steps, moving forward. And I
13 think that's fairly typical. And where they have
14 come in, the initial regimes have tended... been
15 very pure price cap or revenue cap regimes,
16 sometimes fairly quickly adding on additional
17 modifications.

18 Q. **[60]** Do you believe that PBRs used in other sectors
19 such as the gas sector, for example, can be
20 considered as a comparison, when considering
21 implementing a PBR regime in the electricity
22 sector, for instance?

23 Ms. CYNTHIA J. CHAPLIN:

24 A. Yes. I think we've said that. I think it's an
25 example where this specific context of gas and

1 electricity may well be different, so it may lead
2 to different design features. But certainly, they
3 can inform each other, and we see that, in looking
4 at Ontario, where performance based regulation
5 began first with the natural gas sector, and later
6 came to electricity. But in some respects, the
7 electricity framework is now sort of more advanced
8 or more complex than the gas side.

9 (11 h 04)

10 Q. **[61]** You have considered three jurisdictions where
11 PBR regimes that, and as you say, I'm quoting you
12 "are specifically tailored to apply to the
13 electricity transmitters". Can you explain what you
14 mean by specifically tailored for the electricity
15 transmitters?

16 Mr. JOHN D. TODD :

17 A. The simple answer is that the regulator has thought
18 about what is appropriate for a transmitter and has
19 designed a regime which either applied only to the
20 transmitter or use a separate regime for the
21 transmitter. It may be related to, and very similar
22 to, but for example Ofgem started out with price-
23 caps for both sides moved to revenue-caps for
24 transmission because the cost structure, the cost
25 evolution if you want, was different, and it made

1 more sense to them as it has in other jurisdictions
2 to use a revenue-cap for transmitters. So, it's...
3 that's designed to reflect the characteristics, the
4 cost characteristics if you want, of a transmitter,
5 where other than major lumpy investments, costs
6 don't vary much with volume throughput.

7 Q. **[62]** Okay, and in the three examples or
8 jurisdictions that you've studied, my understanding
9 is that these jurisdictions have also adopted
10 different PBR regimes for distribution and
11 transmission. Am I... transmission operators. Am I
12 correct?

13 A. That's correct. And we didn't restrict ourselves
14 talking about the transmission side. So, in those
15 sections that deal with the PBR for transmission,
16 we've also given context by talking about the
17 differences and the mechanisms for our distributors
18 so that there is a comparison because I think that
19 was an important insight to see the comparison of
20 the two which we didn't anticipate up front, but as
21 we got into it we realized that was important.

22 Q. **[63]** I think you already touched on that in your
23 previous answer but can you explain why in those
24 three different jurisdictions, they have distinct
25 PBRs for transmission and for distributors?

1 A. The simplest reason that I can see is because the
2 cost structures are different. That... and what was
3 observed, I think it's in the U.K., I believe, was
4 that under a price-cap, there was an incentive to
5 increase volume throughput. And this is at a time
6 when the government and the regulators were
7 pursuing conservation. And so that was working
8 against the conservation objective because if you
9 increase throughput on a price-cap regime, you
10 increase your profits significantly. And they said,
11 the cost weren't changing. They're just bumping up
12 throughput. We don't want them bumping up
13 throughput. Costs don't change, let's do revenue-
14 cap.

15 Q. **[64]** And do you think that there are advantages in
16 separating both transmission and distribution as
17 far as implementing a PBR?

18 A. I've not thought about that question in the Québec
19 context but for the jurisdictions we've covered, it
20 seems like the natural and appropriate thing to do,
21 to treat them differently.

22 Q. **[65]** To your knowledge, are there any other
23 jurisdictions in Canada that have adopted a PBR
24 applicable for transmitters only?

25 A. No. We did a little survey of Canadian

1 jurisdictions and I think PBR is being used
2 expensively in British-Columbia, British-Columbia
3 Utilities Commission, but that is only
4 distribution, because Westcoast is the transmitter.
5 So, it's not regulated by the BCUC, because of the
6 cross border connections. I'm trying to think...
7 I... no, I don't think... there's not a lot of
8 other examples of PBR.

9 Q. **[66]** Okay, and...

10 A. Certainly not of the transmitters and, of course,
11 many other companies are integrated. So...

12 Q. **[67]** And...

13 A. ... we can't separate. They don't... do not have a
14 structure that's is conducive to that. New
15 Brunswick Power was... was recently put back
16 together. But it was not subject to PBR when it was
17 separate transmission and distribution companies.

18 Q. **[68]** And in the survey that you did for... around
19 the world, PBR regimes are applicable to
20 transmission providers only? Any other examples, or
21 the three that you've chosen are the... are the
22 ones?

23 (11 h 09)

24 A. It was last September that we did a memo on the
25 long list. And I... my recollection is that there

1 were no other, shall we say, distinct transmission
2 options. There may be nine others that were
3 regulating transmission.

4 Q. **[69]** Okay.

5 A. In our survey. We... the survey is not intended to
6 be exhaustive, it was... even with that, we started
7 at what I'd call leading jurisdictions.

8 Q. **[70]** And with respect to the survey, are there any
9 other jurisdictions that have implemented distinct
10 PBRs for transmission and for distributors?

11 A. I can't say. We didn't even look, in that initial
12 survey, we didn't even look at it in that context,
13 it was after that that we...

14 Q. **[71]** That you thought about...

15 A. We sort of thought we better make sure we cover
16 both grounds.

17 Q. **[72]** To your knowledge, are there any other issues
18 that should be considered in determining the
19 establishment of two PBR regimes? One for
20 transmission, you understand, one for
21 transmission...

22 A. Yes.

23 Q. **[73]** ... and the other one for distribution.

24 A. Not that I can think of offhand. There may be, if I
25 were to reread the report carefully, there might be

1 something else that would pop into my head. I can't
2 think of anything else.

3 Q. **[74]** In the three jurisdictions that you have
4 studied, applying PBR regimes to transmission
5 providers, are there any similarities with the
6 Québec jurisdiction in those three jurisdictions
7 that you've studied?

8 A. There are probably a lot of potential similarities
9 or dissimilarities that would be apparent by
10 looking at Québec closely, we didn't look at Québec
11 closely. The one obvious issue would be... similar
12 and different. Norway has one transmitter, many
13 distributors so the transmitter level is similar,
14 northern climate perhaps, but many distributors is
15 obviously different. The U.K. and Australia are
16 talking about multiples in both cases so I guess
17 there would have to be said to be different.

18 Q. **[75]** Okay. With respect to the U.K. RIIIO model, can
19 you explain the difference you see between the,
20 what you call the "output target" and the "input
21 target"? I know that it's a quite general question
22 but it was difficult for me to understand what is
23 an output target compared to an input target.

24 A. Yes, we advocate output targets and have trouble
25 defining them all the time too...

1 Q. [76] Okay.

2 A. ... so I understand your dilemma. Inputs are easy
3 to measure, you're talking capital, labour, you
4 know, costs, the costs that appear in the
5 accounting statements. Outputs, the simplest notion
6 is numbers of customers served, volume throughput,
7 but then you get beyond that and outputs can be,
8 you know, measures of service: an output can be
9 customer satisfaction, that's in RIIO.

10 So it becomes a broader base of results of
11 what are you producing as opposed to what goes into
12 the production function and one of the challenges,
13 in my view, of any sort of output-based regulation
14 - and I think Cynthia is part of the board that has
15 gone in that direction, you may want to comment on
16 this - one of the challenges is, number 1, what is
17 the right way to identify outputs because the list
18 can be long and if you have too many performance
19 objectives, your system can run into problems, you
20 can't pursue too many objectives at once.

21 But also, how do you measure them? Many
22 outputs that you would like to measure can be
23 difficult to measure. So that's part of how a
24 system has to evolve, a lot of thought has to go
25 into it. There have to be course corrections

1 because you're really stepping back to it at the
2 higher level: what are we trying to accomplish?
3 We're trying to create something which has results
4 similar to a competitive market, where competition
5 forces people to be efficient or they lose money.
6 It also forces them to give customers what they
7 want. Right? It also forces them to live by various
8 types of regulations so an unregulated industry is
9 actually regulated around things like safety and
10 there's many aspects, every industry is subject to
11 regulation - just not economic regulation that
12 we're used to.

13 (11 h 14)

14 Part of what the economic regulator is
15 doing is bringing some of these other forms or
16 regulation in - that provides discipline equivalent
17 to the competitive market. So the outputs are all
18 the things that we, shall we say, value in a
19 competitive market but we can't cover everything.
20 So my observation is that what happens in
21 jurisdictions is that regulators include measures
22 around the things that are of greatest concern to
23 them.

24 And sometimes, there's a history. That's
25 one of the references earlier in the presentation,

1 is your starting point, is your context. What's the
2 problem... what's the concern you're trying to
3 address? Is it high rates? Well, rates can be an
4 output. Is it customer service, in terms of
5 reliability of the system? Well, that becomes your
6 output. It is getting new customers connected? That
7 becomes an output. So, output, in a sense, can be
8 any of those types of things. So, I'm... it's a bit
9 vague but...

10 Q. [77] No, I think, you...

11 A. ... it's the reality.

12 Q. [78] ... you've answered. Thank you.

13 Ms. CYNTHIA J. CHAPLIN:

14 A. And there is the example in the report, in the
15 appendix, in the English version, it's A-19, which
16 gives the set of performance, outputs, that the
17 Ontario Energy Board is looking at.

18 Q. [79] Okay. We've talked... my colleague has talked
19 about the bench marking and I want to go back to
20 the Norway model. Just, maybe, for our reference,
21 do you believe that the Norway PBR regime using an
22 international bench marking to determine allowed
23 revenue is something that could be replicable...
24 that could be replicated in Québec?

25

1 Mr. JOHN D. TODD:

2 A. In concept, absolutely. I mean, it's a generic
3 concept. The challenge is that what NVE had to do
4 was get cooperation from other European regulators.
5 And they had the advantage of working within the
6 European community. So, it was probably easier to
7 obtain a group effort, get everybody, you know,
8 coming into the system. Based on having done that
9 review I've mentionned of benchmarking for regular
10 purposes across Canada, we talked to companies, we
11 talked to the regulators; it would be a huge
12 challenge in Canada. And to get something working
13 with the United States, everybody has their own
14 view, but my personal view, is that could be a
15 challenge. Would there be a possibility to opt-in
16 into the European group? I don't know, no idea.

17 Q. **[80]** Okay.

18 A. You have to explore the possibilities.

19 Q. **[81]** On the sharing mechanism, in Australia, you
20 indicated in your report, and I'm quoting a portion
21 of it at page 66, that the regime is:

22 [...] somewhat unusual in seeking to
23 realize an explicit sharing ratio of
24 the benefits [...]

25 I just want to understand what you're saying with

1 respect to what is unusual. Is it in that context,
2 the sharing mechanism? Or is it because of the
3 stretch factor? I just want to better understand
4 why you believe it's unusual.

5 A. Sorry, it's on page 66?

6 Q. **[82]** Yes, through line...

7 A. What line? I just want...

8 Q. **[83]** ... 19.

9 A. Alright. Yes, the unusual aspect was they... it's
10 not a simple... it's not a simple thirty - seventy
11 (30-70) sharing of earnings. And, yet, they set a
12 target. So, they try to get their pieces to come
13 together to produce a right split of the benefits.
14 But that meant defining the benefits, which is
15 different than earnings. I mean, earnings... I
16 guess... I suppose, it's a bit similar to an
17 earnings sharing mechanism, except the earnings
18 sharing mechanism could still the stretch target.
19 Okay? So that you may end up with a split of the
20 benefits that is different than the earnings
21 sharing percentage split. They've built in a more
22 specific reference point to try to get a more
23 explicit sharing as a kind of policy objective.
24 This is the split they considered appropriate. And
25 so, they... they put more thought into it, I guess,

1 to get... to get the end result, to be that
2 seventy - thirty (70-30) split. Yes.

3 (11 h 20)

4 Q. **[84]** Are there any other jurisdictions where
5 there's a sharing of benefits mechanism that you
6 have already looked into?

7 A. Well, the earnings sharing mechanisms are
8 sharing... Every regime has what intends to be a
9 sharing of benefits. Okay? Basically, the two
10 common things are an earnings sharing mechanism
11 which says earnings above a certain target level,
12 which may include a stretch target; that earnings
13 above certain levels will go to... will be split in
14 a percentage that is defined.

15 The other way of sharing is that the
16 stretched target itself says « there is a
17 guaranteed but in fact limited customer benefit »,
18 so we're going to give to the customers a one
19 percent (1 %) productivity gain, or two percent
20 (2 %) productivity gain. Everything else goes to
21 the company. That's the split as well, but not a
22 percentage split.

23 Q. **[85]** Okay. You referred in your presentation to the
24 customer preferences, and I would like to, at page
25 6, and I would like to link that with my following

1 question: to your knowledge, can a PBR mechanism
2 for transmission apply differently, depending on
3 the type of clients? And I'm thinking of point-to-
4 point and native load. Since customer's preferences
5 may be something to consider, is there any, to your
6 knowledge, a PBR that has different applications
7 for different types of clients?

8 A. There are a couple of regimes, like Ofgem, that
9 relies on a business plan. And Ms. Chaplin may
10 comment, I think Ontario was going more into:
11 you've got to submit plans, so may be going kind of
12 going down that route, but with the business plan,
13 there's no reason you couldn't have different
14 outcomes for different categories of customers.
15 They would have to be proposed by the company and
16 approved by the regulator. And that sort of links
17 to the customer focus, which to me, part of the
18 customer focus is recognizing distinct customer
19 groups. I've thought about that more in the
20 distribution context, but certainly, it could apply
21 in the transmission context as well.

22 Ms. CYNTHIA J. CHAPLIN :

23 A. Yes. And I'd say that I think, particularly, the
24 focus has been on the distribution sector, because
25 there's been a realization with technology changes,

1 and just general trends, I think, in society that
2 customers, that maybe the distributors'
3 understanding of their customers and their
4 preferences is perhaps not as deep as it should be
5 or as it could be now, whereas I think that a
6 general feeling is that transmitters, because they
7 have fewer customers, they have much closer, often
8 a much closer relationships with their customers.

9 Therefore, they have, they're starting with
10 a greater depth of knowledge. And also, the
11 customers they're dealing with have greater expert,
12 you know, they're more balanced in terms of
13 expertise and knowledge, whereas distributors, it's
14 a much different relationship.

15 Q. [86] Dernière question. Bon timing. You have
16 referred to, and I think it was your words, a new
17 trend, with respect to stakeholder engagement. Can
18 you just describe that with examples, what you mean
19 by that?

20 A. Yes. Stakeholder engagement, really everywhere that
21 it's undertaken, and I can speak specifically to
22 Ontario, can use a variety of different forms, both
23 formal and informal. So certainly, hearings are a
24 form of stakeholder engagement. But the Ontario
25 Energy Board has also used consultations to develop

1 regulatory policies. So these are less formal
2 processes, and involves greater dialogue amongst
3 the parties as a way to, to some extension, maybe
4 try to build a bit of a consensus, but at least
5 trying to narrow where the issues of disagreement
6 are.

7 And that, I think, was also, I mean that
8 was also used by Ofgem, when they were developing
9 RIIIO. So that already was a jurisdiction that
10 doesn't use formal adjudicative hearings. But
11 again, we're using conferences and using panels of
12 experts to engage people in discussion, so that not
13 only could the level of understanding and expertise
14 was raised for everybody, and also as a way of
15 trying to work towards resolving the issues, and
16 setting design parameters.

17 Q. **[87]** Alors ça complète mes questions. Merci Madame
18 la présidente.

19 LA PRÉSIDENTE :

20 Merci Maître Hamelin. Maintenant, nous entendrons
21 maître Turmel pour la FCEI.

22 EXAMINED BY Me ANDRÉ TURMEL:

23 Q. **[88]** Bonjour Madame la présidente. Bonjour aux
24 régisseurs. André Turmel pour la FCEI. Good morning
25 to the panel. So we'll go directly to the gist of

1 it. We'll work with the English version of the
2 report, to page 1, the last sentence, and you say
3 that:

4 ... a regime that works well with a
5 shareholder-owned utilities may be
6 less effective if used to deregulate a
7 Crown corporation.

8 End of the quote. So could you please explain a
9 little bit upon this statement?

10 (11 h 25)

11 Mr. JOHN D. TODD:

12 A. Yes. A typical shareholder owned company is very
13 focussed on its return on equity to shareholders.
14 And therefore, the lever to get it to behave in the
15 way you want it to behave, is fairly
16 straightforward, you know; give it money that flows
17 through to net income, and so, the mechanism to get
18 a response is clear cut. As a generalization, this
19 is not a comment on Hydro-Québec, as a
20 generalization, Crown corporations, my observation
21 is that there are two types.

22 One. There are Crown corporations out there
23 that you look at them, and they behave exactly like
24 a shareholder owned company. And there are others
25 that are, have relatively little concern about

1 their return on equity, and they're pursuing other
2 objectives. It is harder to find the lever to get
3 them to pursue things like cost cutting measures.
4 Where, if they're not concerned about their impact
5 on their return.

6 Q. [89] And I won't ask you, I don't think you've made
7 any surveys of Hydro-Québec, per se, on that,
8 right?

9 A. No.

10 Q. [90] Okay. On page 2 now, you say, and now,
11 discussing and turning on to rate caps versus
12 revenue caps, you do say that:

13 Rate caps are generally used for
14 distribution utilities in order to
15 stabilize costs on a per unit basis
16 since costs tend to increase with
17 number of customers and/or volumetric
18 throughput.

19 Could you please, on what basis did you conclude
20 that distribution utility cost tends to increase
21 with number of customers or volumetric throughput?

22 A. That was not based on our analysis that, again, our
23 survey or regulators, we were drawing a
24 distinction, we've given examples with
25 transmission, that was the rationale provided. Now,

1 it's important to recognize that every regime is a
2 package of features. So with the revenue cap, part
3 of that concept is: you tend to have some
4 sustaining capital, ongoing maintenance, which is
5 fairly constant. And then you have big lumpy
6 investments. And those, in the revenue cap models,
7 tend to be treated as outside measures and become
8 adders to the rates. So it's, if you think of it,
9 instead of being a smooth cost function with
10 growth, it's a step function. So when we hit a
11 step, we'll raise it. But it may be years before
12 you hit the next step of cost going up.

13 Q. **[91]** But I do understand you did not conduct any
14 specific studies on that?

15 A. No.

16 Q. **[92]** Right?

17 A. No. We're just...

18 Q. **[93]** Okay.

19 A. ... commenting, why... regulators' rationale.

20 Q. **[94]** Okay. Now, if we're moving up to page 13. I'm
21 sorry. I'll keep this one for later on. We have
22 some time. So we'll move to page 14, sorry. At page
23 14, you do refer in footnote 17, at the bottom of
24 the page, a study performed by Professor Joskow.

25 A. Correct.

1 Q. [95] Okay?

2 A. Yes. Joskow.

3 Q. [96] And you mention in footnote 17 that Professor
4 Joskow discussed of some questions:

5 His discussion of these questions
6 provides interesting insights into the
7 challenges to be addressed. The paper
8 concludes with a Discussion section
9 that set out ten interesting
10 observations for discussion at the
11 conference.

12 Of course, when you do say that, we have to go
13 there and pick the study, so... And if you allow
14 me, I just want to put it in the docket, and I may
15 have one or two questions. Are you familiar with
16 the study?

17 A. I read it. Yes.

18 Q. [97] Okay. Okay. It just... I think it's for you to
19 complete. Alors Madame la présidente, simplement,
20 donc, c'est une pièce, on va la qualifier CFCEI-
21 0034, et c'est l'étude du professeur Joskow en
22 référence à la note de bas de page 17 de l'étude de
23 Elenchus.

24

25 CFCEI-0034: Joskow, Paul L. (2006) "Incentive

1 Regulation in Theory and Practice:
2 Electricity Distribution and
3 Transmission Networks" MIT, prepared
4 for the National Bureau of Economic
5 Research Conference on Economic
6 Regulation, September 9-10, 2005
7

8 Q. **[98]** Do you have that study, Sir?

9 A. I actually have that study in my binder with the
10 report. It's obviously a major one in my mind.

11 Q. **[99]** Okay. So I would ask you to go to page...

12 A. 51?

13 (11 h 30)

14 Q. **[100]** You're right. You're faster than me. In fact,
15 there are ten observations, and I would ask you to
16 go to the fifth (5th), page 53. So I just want you
17 to comment on three observations. Number 1 is the
18 fifth one where, and I'm going to quote at page 53,
19 item number 5, he says that,

20 Incentive regulation theory implies
21 that the adverse selection and moral
22 hazard problems resulting from the
23 regulators' information disadvantages
24 are best handled by offering firms a
25 menu of cost-contingent incentive

1 contracts. More frequent use of menus
2 of incentive contracts in this way
3 could improve incentive regulation in
4 practice.

5 So what do you think of this statement? Do you
6 agree with that in general from your own
7 experience?

8 A. It's an option that is interesting. I ran into it a
9 couple of decades ago in the telecom sector where
10 they had offered trade-offs between, I think it was
11 the efficiency target and the potential earning of
12 return so you've taken a more aggressive target,
13 you would have more potential upside and for
14 exactly the reason that Joskow puts out there, I
15 was actually an advocate of it in the
16 telecommunication side that we don't know what a
17 good target is and very high targets were set for
18 telecom companies when we first had price cap
19 regulations and there were a number of different
20 companies, part of that is we've got many different
21 companies so companies kind of categorise
22 themselves as either having a lot of potential for
23 productivity gains or lower and you create an
24 incentive for them to take a higher target. So, in
25 that context, I would certainly agree but that's a

1 multicompany being regulated context.

2 Q. **[101]** Okay. Thank you. So now moving up to the
3 seventh observation, down page 53 where Mr.
4 Joskow's observation addresses the integration of
5 information on the value of loss of or
6 undersupplied energy. Does Elenchus have a view as
7 to how information on the value of uninterrupted
8 service should be incorporated in a PBR mechanism?
9 And this is at the bottom of the paragraph, sorry,
10 because it's a long one.

11 A. Yes. No, we've not thought through that issue.

12 Q. **[102]** And finally, moving on to the eighth, number
13 8 observation, third line, Mr. Joskow seems to
14 suggest that a multipart sliding scale structure -
15 and we understand that that means an earnings
16 sharing mechanism - would have superior efficiency
17 properties compared to deadbands or hard caps and
18 floors on profit realisation. What do you think of
19 that? Do you agree with this assertion?

20 A. Yes. What I've seen the most commonly was the
21 British Columbia Utilities Commission, for their
22 regimes, they had deadbands and, prior to sharing,
23 so that the concept was to create a strong
24 incentive for small gains and the way the regulator
25 viewed it there, as I understood it, was that when

1 you get into large variances, you're getting into
2 fortuitous situations therefore outside the
3 deadband is when sharing came into play and they
4 said once you're getting up there, it's probably
5 fortuitous and it's appropriate to you sharing and
6 you're not going to provide a disincentive to
7 pursuing those gains.

8 Q. **[103]** Okay.

9 A. And part of that related back to his concept of the
10 regulator who doesn't really know what's possible,
11 they didn't want to give them a target and have
12 them being able to outperform it by ten percent
13 (10%). And I know the BCUC was very concerned about
14 its image, if the company was earning a twenty
15 percent (20%) return on equity.

16 Q. **[104]** Okay. Thanks. So I would put aside that study
17 for the moment. I may come back with having one
18 last question but at the end, in some minutes from
19 now but now turning to page 25, the first line, you
20 say that... I'm sorry, page 1. Well, you do list at
21 page 24,

22 The OEB also identified six factors it
23 would consider in reviewing the PBR
24 plans.

25 And the last one that appears at page 25 is "the

1 clarity of the Board's expectations for the plan."
2 How would you, and I know you are experienced
3 consultants both of you and you may have dealt with
4 a government intervention as a public policy while
5 regulating, I would say, so how would you, we'll
6 say, the sword of Damocles over the head of the
7 regulators, the sword being the government. From a
8 policy standpoint, how does that interfere or play
9 with that PBR mechanism that is being adopted? Does
10 that... can it affect the credibility of the
11 mechanism? So, how... are there any observations
12 you would make with that?

13 (11 h 35)

14 Ms. CYNTHIA J. CHAPLIN:

15 A. Well, certainly speaking from the Ontario
16 perspective, PBR was introduced at a time of
17 significant policy change within Ontario. And
18 Ontario's electricity policy has gone through quite
19 a few changes, so that the possibility of major
20 policy change is a fact of life for all regulators.
21 Sometimes, it's expected, and sometimes, it's
22 unexpected. So, I think that that's... the fact
23 that the policy framework may change is always a
24 consideration. I... in my experience, regulators
25 deal with that by being as transparent as possible,

1 about how they go about determining the objectives,
2 and monitoring how the companies are responding to
3 incentives if incentives have been put in place.

4 So, I think that's... and having the open and
5 evidence based processes. So...

6 Q. **[105]** Well, Okay.

7 A. ... I think that's...

8 Q. **[106]** And my second question to that is: we all
9 know that it may happen and that's a fact.

10 A. Right.

11 Q. **[107]** But are there any PBR types... or types of
12 PBR mechanisms that are, maybe, well, seem less
13 exposed to this regulatory risk, let's say, more
14 immune from...

15 A. Well, I think that that's where a process of
16 gradualism or evolutionary change, rather than
17 doing something dramatic right from the start. It
18 can be one technique for allowing everyone to grow
19 comfortable with a new type of regime, including a
20 political... the political side.

21 Q. **[108]** Okay. Mr... on your side, if you have any
22 comments?

23 Mr. JOHN D. TODD:

24 A. No, I agree. It's part of the reality of
25 regulation. And, I mean, an example mentioned in

1 the paper in Ontario, PBR initially came in, there
2 was a vision, and then the government introduced a
3 rate freeze, which affected the PBR regime. Move on
4 to the next... next iteration. But that's, you
5 know, that was... the OEB coped with that.

6 Q. [109] Okay. Thank you. Now, if you just bear with
7 me, and take back the Joskow study for... and going
8 back to the fifth principle... So, my colleague
9 here just refreshed me that Mr. Todd, you just
10 mentioned in reference to the discussion we had...
11 the short discussion we had on item 5, you said
12 that, of course, that principle, as a good option,
13 you mentioned, could be appropriate in the context
14 where there multi companies... multi utilities.
15 Would you agree, or what do you think in the
16 context of Hydro-Québec where we have, in fact, one
17 transmission or one distribution division? Would
18 that apply with the same comment that you made?

19 A. I'm not familiar with one in that context, and
20 haven't thought it through. So, I guess I would
21 refrain from responding. I mean, there's no regime
22 that can't consider it. But where... the ones I'm
23 familiar with have been used where there are... it
24 was the way of sorting out the different companies
25 to have different objectives. The concept, the way

1 Joskow puts it is, it's because of the adverse
2 selection that you don't know where it sits on the
3 scale of potential productivity. So, in theory, it
4 could apply to a single company. But I haven't
5 thought it through in the context... in that
6 specific context.

7 Q. **[110]** Okay. Thank you. Moving on now to page 34,
8 where you do discuss the process for the European
9 PBR framework and, of course, with respect to the
10 Ontario experience that you know well, you wrote
11 that:

12 Ontario's experience suggests that
13 best PBR practices are most
14 appropriately defined in terms of the
15 process used to design the regime, not
16 in terms of particular design
17 features.

18 So, from your experience, what are the best
19 practices for the process used to design a PBR
20 Regime? You referred this morning about... there
21 are no best practices per se, but with respect now
22 to process, if there are best practices; are there?

23 A. Ms. Chaplin may want to start answering that, while
24 I look... I think we summarize that somewhere in
25 the report, where we talked about... I mean, you

1 know, we mentioned first... first, you start with
2 setting your objectives clearly. I think we
3 actually said about four different things. Do you
4 recall where that was? End of the introduction?

5 Q. **[111]** Yes, but from your own experience. I just
6 want to hear from... a discussion, I mean, the
7 best...

8 A. Oh!

9 Q. **[112]** ... from the process standpoint.

10 (11 h 42)

11 A. Yes. And that's what I say. I'm sure we mention in
12 the report, I'm just sort of going by memory then.
13 You start by setting your objectives. Then, you
14 want to look at the companies you're regulating, so
15 then you look into different areas of context that
16 Ms. Chaplin, her initial comments, was pointing
17 out, things like what's the structure of the
18 industry, what's the structure of the company, what
19 are the challenges you're facing. So we talk about
20 what are your performance objectives. Well, if
21 there are specific problems that are of concern,
22 you want to identify those. That sort of feeds back
23 to the objectives. And then, you start drilling
24 down to looking at what mechanics are necessary or
25 most appropriate to adopt.

1 (11 h 43)

2 Ms. CYNTHIA J. CHAPLIN :

3 A. And I think, in terms of developing, maybe
4 particularly in developing an initial PBR plan,
5 it's a bit of a give and take, in terms of going at
6 a pace and developing it at a pace that the
7 stakeholders, you know, are comfortable with, but
8 not allowing the development to sort of languish in
9 terms of... I mean, you can always get better
10 information. You can always do another study. So,
11 sometimes, that desire for perfection can,
12 sometimes, get in the way of actually making
13 forward progress. So, I think it's... often, the
14 best practices are acknowledgement that there may
15 be a better way to do it in the future but this is
16 an adequate, an appropriate way to do it now. And
17 we see... you see that in all of the major
18 jurisdictions where we describe how the frameworks
19 have evolved, Ontario is one example, that, for
20 example, in benchmarking, in the early phases, the
21 data was not great but there was an expressed
22 intention then. So, this is something that is going
23 to be worked on. We're going to, you know... this
24 is the direction we're going to move. There's going
25 to be total cost benchmarking. So, in other words,

1 it's setting out for people, giving everybody
2 involved lots of notice of about what the focus is
3 going to be, so that people are informed. So, it's
4 that combination of persist... being persistent but
5 also going at a pace that's manageable, given the
6 constraints of the context and the data that are
7 involved.

8 Q. **[113]** Okay. Thank you.

9 Mr. JOHN D. TODD:

10 A. Yes, just with... I just sort of point out that
11 pages 23 and following, it's not put exactly that
12 way but it starts with a list of objectives for
13 regulators to consider that was drawn from a
14 publication of the regulatory assistance project
15 and identifies some other potential objectives and
16 some factors. So, that's kind of where our
17 observations on, let's call it the best practices
18 of process...

19 Q. **[114]** Okay.

20 A. ... that would be the best summary in the document.

21 Q. **[115]** Thank you. We're now moving to another
22 continent, now to Norway, so, at page 70 of your
23 study, about Norway. At page 70, you do refer at
24 footnote 74, I mean, we love footnotes, but anyway.
25 So, we... and it refers to a study conducted from

- 1 the Norwegian regulator by the Foundation for
2 Research in Economics and Business, which estimated
3 that twenty-five percent (25%) of industry costs in
4 Norway resulted from inefficiency. That's very...
5 So, are you aware or do you have any information,
6 what would the primary sources of the industry
7 costs inefficiency identified in that study? Yes...
8 Yes, exactly...
9 A. You would have to go back...
10 Q. **[116]** ... at page 70, from line 6 to 10...
11 A. Oh! No, I see the cite, but I'm saying the...
12 Sorry, the report by the Foundation...
13 Q. **[117]** Yes.
14 A. ... my recollection is it provided some detail on
15 where... or some discussion of it, but that's going
16 from memory. But that... they...
17 Q. **[118]** No, no...
18 A. I don't recall.
19 Q. **[119]** Okay. You don't recall but, of course, it's
20 always interesting to find out where the
21 inefficiencies are, so is it possible to get the
22 study of that... peut-être qu'on va le demander par
23 écrit, Madame la Présidente, si c'est possible.
24 O.K. Thank you.
25 A. I think that that is in the appendices. We have our

1 reading list. All of those are links.

2 Q. **[120]** And we'll ask tomorrow in writing if you
3 could provide, maybe, for example, this study, if
4 available. Well...

5 A. Yes, I think it's a live link. I think it's a live
6 link to the study.

7 Q. **[121]** There's a live link for...

8 A. Yes. Yes.

9 Q. **[122]** Parfait. Parfait. Merci. Thank you. Il m'en
10 reste combien? Les échéances, hein? Il m'en reste
11 combien, Madame la Présidente?

12 LA PRÉSIDENTE :

13 Cinq minutes.

14 (11 h 47)

15 Me ANDRÉ TURMEL :

16 Q. **[123]** Cinq minutes? O.K. Going at page 77, of
17 course, we are still within the Norwegian approach.
18 And that report notes that the Norwegian model, on
19 page 77, its reliance on benchmarking and you say,
20 is not necessarily replicable in other
21 jurisdictions. Of course, we've heard that, that it
22 may be, or maybe not. And I do understand what you
23 said on that. And just going back, and you may be
24 limited to that answer but the challenge of
25 benchmarking, you have referenced to that this

1 morning, can you please describe the feasibility
2 of... and challenges related to benchmarking, let's
3 say, HQT against utilities outside Québec? I
4 understand you may not know HQT per se but
5 facing... HQT facing, let's say, the world, are
6 there any challenges that come to mind to you?

7 A. I will answer that question in the context of I had
8 a former person on my staff for about eight years
9 who was a huge fan of the Norway benchmarking
10 system. His expertise was econometric studies in
11 benchmarking. One of the things that I heard from
12 him was, number 1, the level of data collection by
13 the regulator and the level of internal, shall we
14 say, scientific expertise was huge. It was almost
15 like having a university econometrics department
16 in-house and they ran the study, they were in
17 control, it was not farmed out to consultants, it
18 was not a company's consultant, something like
19 that, therefore they did not go through hearings
20 with competing consulting reports with different
21 sets of numbers, the regulator simply went out,
22 collected the data, ran the numbers and produced
23 the results and that was it.

24 That kind of control is hard to imagine in
25 any jurisdiction that I work in as a consultant and

1 one of the challenges in benchmarking is you've got
2 to get the data right and you've got to go with the
3 set of numbers - Ontario uses a specific economics
4 group - huge complaints about it from my clients
5 and Cynthia at the board and everybody said "Fine,
6 it's the best thing you've got, if you don't like
7 it do something better." So it's tough to do and
8 you just make the determination to do it and you
9 have something done and if that's the way you want
10 to go, you almost have to tough it out.

11 Q. **[124]** And... Sorry.

12 Ms. CYNTHIA J. CHAPLIN:

13 A. Oh! Just a minute. Just recently in Ontario, Hydro
14 One Transmission they are not under a PBR but they
15 have a two year cost of service and they had a
16 negotiated settlement with their stakeholders and,
17 as part of that settlement, they have agreed to
18 undertake transmission cost benchmarking and they
19 are going to be doing that in consultation with
20 their stakeholders in terms of setting the process.

21 So I would imagine that things like
22 drafting the RFP, perhaps reviewing criteria,
23 trying to set the scope and stage for that study is
24 going to be the responsibility of the transmitter
25 but to be done in consultation with the

1 stakeholders so that will be an interesting
2 activity that will be going on at much the same
3 time as you are looking at these issues.

4 Q. **[125]** That is interesting and that similar process,
5 that's done, that's finished, right?

6 A. That was a settlement to set Hydro One
7 Transmission's rates for the next two years and one
8 component was, during that time and before they
9 come for their next application, they will be
10 commissioning a transmission study, a cost
11 benchmarking study.

12 Q. **[126]** And we would be able to, if we look at the
13 OEB website, we would be able to find a decision
14 acknowledging this kind of information? Or is
15 that...

16 A. Yes.

17 Q. **[127]** Okay, perfect.

18 A. Yes.

19 Q. **[128]** Dernière question, très courte, Madame la
20 Présidente, très, très courte si vous me permettez.
21 À la page 13, page 13, très courte citation, at the
22 bottom of page 13, you do quote again, I think,
23 professor Joskow and at the bottom of the
24 paragraph, he does say that, he questions the, how
25 do we say that, the "take service quality

1 attributes into account, and to deter gaming".

2 Let's talk about gaming for one second. With
3 respect to gaming, from your experience, what are
4 the best ways to make sure that no such, well, no
5 such gaming or reduction in expenses and rebasing
6 are being used in that process.

7 Mr. JOHN D. TODD:

8 A. You have to make sure you have a devilish mind in
9 designing a regime.

10 Q. **[129]** Okay. Point taken.

11 A. Whenever you design, you say "Okay, there's the old
12 saying, you know, tell me the rules and I'll tell
13 you how to beat it." So you have to approach the
14 designer of the regime and say "Okay, what could I
15 do? How would I make the best of this regime and
16 does it leave some loopholes?" and try to
17 anticipate them as best you can to avoid
18 opportunities for gaming and, secondly, that's
19 where the evolution comes in that you have to live
20 with some gaming if you've missed it because of the
21 certainty of the system and you tolerate it until
22 the next review and then you plug the loophole.

23 Q. **[130]** Merci.

24 A. And then they come up with a new one.

25 Q. **[131]** Merci, thank you.

1 LA PRÉSIDENTE :

2 Alors, à ce moment-ci nous allons prendre une pause
3 pour le lunch, nous serons de retour à une heure
4 (13 h 00).

5 SUSPENSION DE L'AUDIENCE

6 REPRISE DE L'AUDIENCE

7

8 (13 h 00)

9 LA PRÉSIDENTE :

10 Bonjour à tous. Alors la parole est à vous Maître
11 David.

12 EXAMINED BY Me ÉRIC DAVID:

13 Q. **[132]** Oui. Bonjour Madame la Présidente, Madame la
14 Régisseure, Monsieur le Régisseur. Éric David pour
15 Option Consommateurs. So Mr. Todd and Ms. Chaplin,
16 I have a few questions. So Éric David for Option
17 Consommateurs, I represent the interests of
18 residential consumers in Québec before the Energy
19 Board. I'm going to address three themes in my line
20 of questions to you. I'd rather announce it now so
21 you know what's coming. The first is I think we
22 need perhaps to just clarify what exactly we mean
23 when we use the term performance-based regulation,
24 what's a PBR? I think that's the starting point.

25 The second theme I want to address is the

1 process by which objectives are determined because
2 I also think that in the instauration of a PBR, the
3 first step is to set the objectives: that will be
4 the Board's main task.

5 The third and final theme that I want to
6 look at with both of you is the regulatory process
7 and if whether or not you have recommendations to
8 make on that level to the Board.

9 So in respect to the first theme, what do
10 we mean when we use the term PBR, section 48.1 of
11 the law, as you know, calls for the establishment
12 of a performance-based regulation. On page 7 of
13 your report, at the very bottom, you explained that
14 the term performance-based regulation is not used
15 consistently in the literature or by regulators
16 internationally and on page 8, the next page, the
17 first paragraph before the first title, the last
18 sentence, you explain that,

19 This report reviews regulatory
20 frameworks which are known by each of
21 these labels since all variations are
22 used by regulators to achieve
23 objectives that are closely related to
24 the objectives identified in section
25 48.1 of the Law.

1 So the first framework that I wanted to look at
2 with you and ask you a few questions is the one
3 regarding Con Edison in New York and I refer you to
4 page 43 of your report. You explain essentially
5 that Con Edison is under a multi-year cost of
6 service and that this form of cost of service
7 qualifies as a PBR, is this correct?

8 Mr. JOHN D. TODD:

9 A. Yes.

10 Q. **[133]** My next question is how does Con Edison's
11 multi-year cost of service differ from a
12 traditional cost of service? What are the
13 additional characteristics?

14 A. If you go back to your first reference earlier on
15 we're using PBR and incentive regulation, IR,
16 somewhat interchangeably. The reality given with
17 your question, you're setting up a theme there, I'm
18 with you completely: PBRs whatever you define it to
19 be, there is no, you know, in the literature, in
20 the usage, there is no definition that creates a
21 box that says "This is PBR, anything outside of it
22 is not." And, in fact, in different regimes, we
23 tried to, for simplicity, keep the terminology the
24 same but, you know, the U.K. term RIIIO is they
25 don't call it, you don't say this is... They don't

1 call it PBR, they call it RIIO, right?

2 So, where we're coming from is what are
3 they trying to accomplish? BPR, certainly in
4 Canada, if we look at the use of PBR across Canada,
5 that is used in, for regimes where regulators are
6 trying to achieve, I would say, cost reductions and
7 other things, cost reductions at the core, other
8 things vary and using incentives to get there.

9 (13 h 05)

10 So, from that perspective, the Con Edison
11 methodology is a form which in the States would be
12 more termed "alternative regulation" and they are
13 setting rates which will be in place for a number
14 of years.

15 Instead of taking a single test year, and
16 then adjusting across base by formula, they're
17 actually looking at the multi-year period, looking
18 at costs in multiple years, and coming up with
19 rates that will be in place for several years. It's
20 a different way of setting rates for multi-year
21 period, which creates an opportunity, same as the
22 other regimes, creates an opportunity that,
23 relative to the reference rates, you can reduce
24 your costs, and keep the benefits. Then, there is a
25 rebasing, a new rate setting, which is intended to

1 reflect in rates, the cost savings that have been
2 achieved over time. And, in theory, what you should
3 be doing is ratcheting down rates after each cycle
4 when you do a rebasing.

5 So, at that high conceptual level, it's a
6 way of setting multi-year rates. It's just using
7 multi-year costs instead of one-year costs in the
8 formula, and then allowing the company to earn a
9 higher return by pursuing productivity gains over
10 that period.

11 Q. **[134]** Okay.

12 Ms. CYNTHIA J. CHAPLIN:

13 A. And just... I would add another important component
14 of the Con Edison framework, is this quite explicit
15 set of service objectives which the rate plan is
16 linked to, so that those measurable outcomes or
17 measurable performance standards is another
18 important hallmark of performance based regulation.

19 Q. **[135]** So, would I be correct to summarize that the
20 difference between the multi-year cost of service
21 that we see in Con Edison, and the traditional cost
22 of service, are the fact that the multi-year one,
23 is obviously over several years? And secondly, the
24 point that you just raised, Ms. Chaplin, that there
25 are... I don't want to misquote you but specific

1 additional objectives that are set.

2 A. Well, there are... there are the established
3 service objectives which refer to in our report.

4 Q. **[136]** Okay. Would it be an exaggeration to say that
5 anything that is not a traditional cost of service,
6 is a PBR?

7 Mr. JOHN D. TODD:

8 A. I would be reluctant to adopt an open-ended thing
9 without knowing what's included in that but to a
10 large extent, not quite. There's a survey that we
11 refer to of alternative regulation in the States.
12 We've got a table that goes through literally
13 everything that they define as alternative
14 regulation. There are definitely alternative
15 regulation mechanisms that I would not consider to
16 be the normal way we talk about PBR. But arguably,
17 those are just variance in cost of service, so they
18 would fit in the cost of service category. So, yes,
19 you could sort of, broadly speaking, maybe it's
20 cost of service and PBR are just two very broad
21 categories.

22 Q. **[137]** Okay.

23 A. Now, the real question though, given your starting
24 point, is: is that what was intended by the
25 legislation? I'm not a lawyer so I'm not going to

1 comment on that. But I'm saying, in this case, it's
2 whatever the legislator intended in what it wrote.
3 And we're not going to try to interpret that.
4 That's the Régie's job.

5 Q. **[138]** Okay. But you would agree with me that it's
6 not really clear what the legislator intended when
7 he adopted... when it adopted section 48.1.

8 A. That's a legal opinion. So, I can't comment on
9 that.

10 Q. **[139]** Okay. What would be the advantages, in
11 summary, of a multi-year cost of service, compared
12 to a traditional cost of service? In summary,
13 what's the main advantage?

14 A. There are... there's more to the Con Ed example
15 than pure multi-year but starting with that core,
16 it... potentially, you have low regulatory costs
17 because you have one major hearing every few years
18 instead of annual hearings. Potentially, you have
19 incentives for cost reductions but there's other
20 features in the design that get that to it because
21 there is an opportunity for gains to be made and
22 retained by the company. Those gains then become
23 evident and get... the company is expected to stay
24 at lower costs and therefore rates can be lower in
25 the future, plus various bells and whistles can add

1 additional benefits to it.

2 (13 h 10)

3 Q. **[140]** Okay. And the next question is - sorry, I
4 have a bit of a throat thing - what are the
5 advantages of a multi-year cost of service over a
6 more sophisticated form of PBR like Ontario's
7 fourth generation PBR or like the PBR existing in
8 the U.K.? If any.

9 A. So you're saying in the tradeoffs, what are the
10 things that would speak to multi-year?

11 Q. **[141]** Well, I take the example of Hydro One. Hydro
12 One has chosen to be under a multi-year cost of
13 service, even though the fourth generation is
14 available to it. And it's the largest distributor
15 in Ontario. If I'm not mistaken, Hydro One
16 Transmission as well shows to be under a multi-year
17 cost of service, and not under a fourth generation
18 PBR. So I'm wondering what would drive the two
19 biggest utilities in Ontario to reject this
20 sophisticated form of PBR?

21 A. Let's go back to the renewed regulatory framework
22 for electricity that was developed. It gave
23 companies three options. So really, what are the
24 three options. So one option was to have fourth
25 generation IR, which was very similar to what had

1 preexisted, extended by one year and so on. The
2 option of multi-year which would specifically
3 permit it, was targeted, as I understand it, to
4 utilities who are saying: we do not have smoothly
5 increasing costs; in particular, we have some very
6 huge capital challenges facing us.

7 And therefore, the fourth generation IR or
8 what had preexisted does not work for us, because
9 we really have to give you our future plan, and we
10 can not live with the correct rates in the first
11 year, and have rates that are essentially held
12 constant, very small increases for the next three
13 to four years. We need bigger annual increases than
14 that, because of our capital drivers.

15 So the Board has said: okay; if because of
16 your individual circumstances, you do not fit into
17 our cost of service model, let's do multi-year,
18 where you can give us your costs for those years.
19 And the way I interpreted it, other people can
20 interpret it differently, you'd take that and do a
21 little bit like the Con Edison model, and smooth
22 your rates, so that over the period of time, you
23 can end up with, in present value terms, your
24 revenue requirement of a five year period, with
25 modest rate increases.

1 Frankly, I think that would be a great way
2 to deal with rate shock, if what you need was a ten
3 percent (10 %) increase the first year, than one
4 percent (1 %) every year after that; why not
5 replace that with three percent (3 %) a year?

6 So there are, multi-year gives you more
7 options, shall we say, rather than one sudden
8 increase followed by formulaic increases. Now, I
9 suspect Ms. Chaplin may have some insight there
10 that I'm missing.

11 Ms. CYNTHIA J. CHAPLIN:

12 A. Well, just to clarify. Hydro One Transmission did
13 not have as an option the custom IR or multi-year
14 IR. It's still under a form of cost of service.
15 It's a two-year cost of service. They've been under
16 that form of regulation for quite some time. The,
17 what was new in their recent round of rate setting,
18 was the fact that they were able to negotiate a
19 resolution with their stakeholders. So that's the
20 transmission side of Hydro One.

21 On the distribution side of Hydro One, yes,
22 it made an application under what the Ontario
23 Energy Board called it Custom Incentive regulation,
24 part of which involves five year forecasts.
25 However, in it's decision, the Ontario Energy Board

1 determined that Hydro One Distribution had not made
2 its case, essentially. So what they've set for them
3 is essentially a three year cost of service, and
4 set in place expectations for activities that Hydro
5 One Distribution, and various studies that will
6 either commission or do themselves. In a sense,
7 their application for a custom IR was perceived to
8 be much like just a multi-year cost of service, and
9 was not deemed to be sufficient for the purposes of
10 setting five years.

11 But perhaps, maybe, I don't want to take
12 into your time, but in some respects, the Ontario
13 Energy Board's custom IR can, has many common
14 characteristics for what a five year cost of
15 service would look like as well. But what is
16 expected in the renewed regulatory framework is
17 much more explicit expectations around performance,
18 so that's the scorecard, much more detailed
19 analytics around benchmarking, productivity
20 improvements, so still trying to delink cost from
21 rates.

22 (13 h 16)

23 Q. **[142]** Could we see a multi-year cost of service as
24 being a transitional phase towards a more
25 sophisticated PBR?

1 A. Yes, I think that that is a development path that
2 you see in other jurisdictions as well, sometimes
3 going, even if it's a gradual extension of the term
4 so perhaps, starting with a three year cost of
5 service and then lengthening the term and also
6 starting to delink the rate changes from cost
7 changes so therefore try to build in this concept
8 of having an automatic change which is based on
9 inflation and productivity rather than just cost
10 plus.

11 Q. **[143]** Okay. Getting back to the Con Edison multi-
12 year cost of service, would you say that Con
13 Edison's multi-year cost of service addresses the
14 three objectives that are set out in section 48.1
15 of the Québec Law? Which I can repeat to you are
16 service quality, cost reduction and streamlining of
17 the regulatory process.

18 A. Well, I think that the components of the Con Edison
19 plan goes somewhat towards addressing these types of
20 issues but I think what the Régie or the people of
21 Québec would want to ask themselves is what
22 particular design features go far? Do they go far
23 enough? Are they going to achieve what we are
24 hoping to achieve and just by way of an example, in
25 terms of cost reductions, you would want to ask

1 yourself does a three year plan provide a company
2 with enough opportunity to invest in productivity
3 improvements that are going to yield real benefits
4 both for the shareholders and for the customers. So
5 it would be a matter, it's often a matter of
6 degree. You know, is a three year plan going to
7 take us as far in meeting those objectives as we
8 would like.

9 Mr. JOHN D. TODD:

10 A. Can I just point out, of course the process we
11 referred to of reforming the energy vision that has
12 been done by the New York PSC is sort of asking
13 those and many more questions.

14 Q. **[144]** Okay. So hopefully they're...

15 A. They will have their answers next month.

16 Q. **[145]** Okay, we'll be looking forward to that. Would
17 it be fair to say that the term PBR can cover a
18 spectrum of regulatory frameworks which go from a
19 modified form of cost of service like we see in New
20 York to a sophisticated form of PBR like we see in
21 the U.K.?

22 A. Yes, we believe that's what the six examples in our
23 report demonstrate.

24 Q. **[146]** Okay. Getting to the second theme, and I have
25 to start moving along here, the objectives, section

1 48.1 as you know sets out three objectives but you
2 explain in your report that boards frequently set
3 additional objectives - that's on page 23 of your
4 report. What would be, according to you, the most
5 important objectives that are not covered by
6 section 48.1? If you want to see the text of 48.1,
7 it's obviously on page 7 of your report.

8 A. Yes, we've got the report. I think that brings us
9 to the context comments. It says, if you're saying
10 in the context of Hydro-Québec, we have not looked
11 at the challenges there. And our comments, they've
12 tried to say when you're setting your objectives,
13 the potential list, as pages 23 and 24 show, is
14 very long and I'd argue you can't have that many
15 objectives and expect to succeed in achieving them
16 so you have to whittle it down to a manageable set
17 of objectives that are appropriate or most
18 appropriate in this particular jurisdiction. So I
19 don't think we can... we can't comment in the
20 context of Hydro-Québec at this point.

21 Q. **[147]** Okay. Well maybe let me ask a more specific
22 question then. Would you agree that energy
23 efficiency is, for example, an important objective?

24 A. In talking to regulators across the country, I
25 think their view is it depends on their legislative

1 structure. Some regulators are of the view that
2 that is outside of the scope of their jurisdiction
3 so I think that's a legal question. There could be
4 other ways of addressing it besides through the
5 regular mechanism.

6 Q. **[148]** Okay. I think you've already touched upon
7 this subject during a previous examination but I
8 just want to make sure I cover this issue
9 thoroughly but would you agree that objectives
10 should be different for distribution and for
11 transmission? And if so, can you give some examples
12 of which objectives would be different?

13 (13 h 21)

14 A. Largely they would be the same although with
15 different companies, again, the priorities, the
16 potential objective list is almost the same. I
17 think the one example we said was different was
18 perhaps the relationship with the customers or the
19 customer focus because of inherent differences in
20 the number of customers, but on that, conceptually,
21 they are largely the same, although in a particular
22 jurisdiction such as this, what is important, in
23 addressing a PBR for this particular transmission
24 company, this particular distributor, may be
25 different because the issues and problems are

1 different. Although with common ownership, you'd
2 expect the issues would be very similar.

3 Q. **[149]** Okay. With respect to the objective of
4 streamlining, you state on page 27 of your report
5 that PBRs do not automatically lead to this. If you
6 want to take time to look at what you say... So,
7 line 19 and 20. No, sorry. Well, I don't want to
8 waste time, but I believe you say it on page 27.

9 A. Yes, we do. I mean, 19, 20, we say:

10 [...] regulators often take specific
11 steps to enhance the efficiency of the
12 regulatory process.

13 and elsewhere, and I can't find it either. We
14 certainly say, but it doesn't necessarily... PBR
15 does not necessarily produce less regulatory cost
16 or a streamline process. It's a different process.

17 Q. **[150]** Right.

18 A. So, when you talk about some of the data
19 requirements on the analysis that is done, it's a
20 very different process. And, in the context of many
21 companies, like Ontario, you're probably saving.
22 When you're talking about an individual company, a
23 more data intensive process, you deal with
24 different data but I certainly would not say you
25 should expect to find a much more streamline

1 process. It would be a different process which is
2 potentially streamlined, depending on the
3 sophistication of the parties and so on.

4 Q. **[151]** Okay. And you mention Alternative Dispute
5 Resolution processes as one way of streamlining the
6 regulatory process. Can you detail what other steps
7 a regulator can take to streamline the regulatory
8 process?

9 Ms. CYNTHIA J. CHAPLIN:

10 A. Well, there is the example in Ontario, on the
11 electricity side, of using a consultation or a
12 generic process to set initial principles and
13 overarching principles to try and develop greater
14 consistency for then applying a framework to the
15 many distributors in Ontario. So that's an example
16 of streamlining where you have a jurisdiction with
17 many entities. In a jurisdiction with only a few
18 entities, the other forms of streamlining are often
19 developing some more informal processes that
20 complement the... an oral hearing. So that might be
21 a technical conference, or in this case, as the
22 report specifically mentions, using Alternative
23 Dispute Resolution. Another process is where
24 technical experts are used, perhaps hearing them
25 concurrently as a means of focussing the discussion

1 and targeting the inquiry.

2 Mr. JOHN D. TODD:

3 A. Another example is using a formulaic approach to
4 setting... adjusting ROE on a year-to-year basis
5 because cost of capital evidence is very time
6 consuming and expensive. So, many jurisdictions
7 have gone to a formulaic approach with periodic
8 reviews.

9 Q. **[152]** Okay.

10 A. That's not a PBR related item.

11 Q. **[153]** My third and final theme is related to
12 regulatory process. And on page 39, you say that:
13 Regulators

14 This is on, as of line 19,

15 Regulators that undertake the
16 transition from cost of service to a
17 performance based regulation regime
18 are now able to take advantage of the
19 experience of the regulators that
20 preceded them down the path to PBR.
21 Doing so helps to avoid the pitfalls
22 of some of the earlier designs. But
23 taking steps to avoid those pitfalls
24 can result in a complex regime.

25 So, my question is twofold, what are the good moves

1 made by other regulators that the Régie should
2 emulate? And, you see me coming, what are the
3 pitfalls that the Régie needs to avoid?

4 A. I've referred to the Alberta regime as a relative
5 late comer. And it came in with some features that
6 were not typical of price-cap regimes that were
7 brought in the early nineties (90's), in
8 particular, more focus on performance measures, not
9 focussing just on cost, but looking at other
10 performance standards. Some of the methods, the BC
11 method of keeping safety type investments outside.
12 The Alberta thing is capital trackers. So, it's a
13 similar kind of concept, saying there's certain
14 kinds of expenditures which should be outside of
15 the formula. And we've seen some of the individual
16 regimes evolve in that way, where there's a few
17 things that are taken out of the formula.

18 (13 h 27)

19 The pitfall you're trying to avoid is...
20 the basic price or revenue-cap mechanism is a clear
21 message, cut costs. Cutting costs is not the same
22 as cutting... or as improving value. Right? Value
23 is output, you know, versus input; a ratio of
24 output to input. And cutting costs can produce
25 negative consequences for customers. So in a way

1 that is appropriate for the jurisdiction, you want
2 to create a mechanism that either requires the
3 utility to maintain performance standards, which
4 means you have to have measurements of those
5 performance standards on things like reliability,
6 it could be public safety which is what the Board
7 looks at, the Ontario Energy Board looks at, and so
8 on... maintain those performance standards, or make
9 some decisions about the tradeoff between cost and
10 the performance standards.

11 Some people argue that, in fact, we should
12 set lower performance standards to allow cost to
13 come down, because people actually think that the
14 performance standards are too high right now.
15 That's a decision that can be made to get that
16 tradeoff right. Cutting cost doesn't necessarily
17 get you there.

18 Q. **[154]** Alright. Okay. My last question. Ms. Chaplin,
19 I think you said earlier in your testimony that the
20 pace for bringing a PBR mustn't be too fast nor too
21 slow. What would be, according to you, the ideal
22 time frame to establish a new PBR?

23 Ms. CYNTHIA J. CHAPLIN:

24 A. Well that will be very specific to the entities
25 involved in the framework. So I couldn't say what

1 the perfect pace is. But I suppose, speaking sort
2 of generically, the perfect pace is probably a
3 little bit faster than what the regulated entity
4 would like, and in its perfect world, but not so
5 fast that you can't respond to unexpected
6 developments, so you can't modify it and correct
7 it, so that it is in fact durable, because that's
8 what you want, for the public interest; it's
9 something that's going to be durable and credible.

10 Q. **[155]** Alright. Thank you for your answers. Merci.

11 LA PRÉSIDENTE :

12 Merci Maître David. J'inviterais maintenant maître
13 Fortier-Pesant pour le RNCREQ.

14 (13 h 29)

15 EXAMINED BY Me CATHERINE FORTIER-PESANT:

16 Q. **[156]** Alors bonjour, maître Catherine Fortier-
17 Pesant pour le Regroupement national des conseils
18 régionaux de l'environnement du Québec. Madame la
19 Présidente, Monsieur et Madame les Régisseurs. Good
20 afternoon Mr. Todd, Madam Chaplin. Our first
21 questions concern the process of establishing a
22 PBR. On page 15 of your report, lines 26-27 you
23 mention that,

24 More generally, as the Joskow paper
25 cited above implies, the first step to

1 designing an effective PBR regime is
2 to clearly define its objectives.
3 You are familiar with section 48.1 of the Act
4 respecting the Régie that has been discussed
5 earlier and which you quoted on page 7 of your
6 report as well. We understand you, we heard your
7 answers to different interveners but we would like
8 to know, in your view, are the objectives laid out
9 there sufficiently detailed in order for the Régie
10 to allow the design of a PBR regime in the current
11 file or is a more specific definition required in
12 order to proceed?

13 Mr. JOHN D. TODD:

14 A. Clearly the three subsections of 48.1 are at the
15 heart of the objectives. As part of the process,
16 the regulator always has to interpret in that
17 specificity to legislation and also look at its
18 broader mandate to say "This, the PBR regime is
19 part of the regulatory regime. It is how you're
20 setting rates for, you'll be setting rates for
21 Hydro-Québec." That means it has to encompass all
22 of the legislative requirements which may go beyond
23 this particular piece of legislation.

24 Q. **[157]** Okay. Thank you very much. For our second
25 question, again I will refer you to page 15. Go

1 back then, lines 27-29 where you say,

2 Having done that, it is necessary to
3 understand clearly the behaviour,
4 goals and shortcomings of the
5 regulated utility and local industry
6 so that the regulator can design a
7 regime that is appropriate in the
8 local circumstances.

9 How would you recommend that the Régie proceed to
10 clearly understand the behaviour, goals and
11 shortcomings of the regulated utilities for the
12 purpose of the current file? You have any
13 suggestions?

14 A. Well, first of all, you probably will not assume
15 that Hydro-Québec will tell you its shortcomings
16 but I think there are a lot of people in the room
17 who will be happy to identify what they perceive as
18 its shortcomings. So, that is a process issue that,
19 when you look at other jurisdictions, the way
20 they're developed, typically there's a stakeholder
21 process and that stakeholder process has as a
22 process objective doing exactly that. And that
23 stakeholder process begins with objectives, right?
24 So the parties would have their views and
25 objectives, the Régie would decide. The parties

1 would have their views on these goals and
2 shortcomings, the Régie would endorse or accept
3 some and perhaps reject others.

4 Q. **[158]** Okay. Thank you. Since we're talking about
5 the notion of stakeholders here, in regions that
6 you have studied, that you are familiar with, do
7 stakeholders mean customers only or does it also
8 include persons and entities that are affected by,
9 for example, the transmission providers activities
10 but are not necessarily only customers?

11 A. The stakeholders typically are more correctly
12 defined as interested parties, whatever their
13 interests may be.

14 Q. **[159]** Okay.

15 A. Which is what the Régie does all the time.

16 Q. **[160]** Thank you very much. I will now refer you to
17 page 39 of your report, line 24. To page 40, sorry,
18 line 3. You explain that,

19 To manage the process of developing
20 its PBR regime, the AUC first engaged
21 in a consultative process to develop
22 the principles and narrow the scope of
23 the process that would design the
24 actual PBR regime to be implemented.

25 Then,

1 Based on this process, the Commission
2 directed the utilities and interveners
3 to limit their proposals to CPI-X
4 based formulas.

5 Can you tell us how many distinct phases and
6 decisions there were before the PBR was put into
7 force or implemented in Alberta?

8 A. I don't remember off hand but it was at least these
9 two and the total process was, you know, subject to
10 check - my favourite term - something like two and
11 a half years. It's a long time.

12 Q. **[161]** Thank you very much. If I'm not mistaken, you
13 have mentioned earlier that some experiences with
14 PBR that you reviewed were not necessarily
15 successful and those are my terms, maybe they are
16 not yours exactly, but we are taking you to, with
17 regard to this, we are taking you to page 15, lines
18 13 to 16 where you say,

19 Nevertheless, there appears to be
20 broad acceptance that while incentive
21 regulation, IR/PBR regimes have yet to
22 be perfected, they can be superior to
23 traditional COS regulation as a means
24 of streamlining the regulatory process
25 and better aligning the interests of

1 utilities with their customers.

2 You said here in this extract that PBR can be
3 superior to COS regulation, you didn't say "is
4 superior". Our question then is: is COS regulation
5 better than unsuccessful PBR or are there any
6 circumstances under which you would recommend
7 remaining with COS?

8 (13 h 36)

9 A. COS may be better than a poorly designed PBR. The
10 behaviour tells us a lot. In the jurisdictions
11 where PBR has been introduced as early as nineteen
12 ninety (1990). They still have... they've evolved
13 the system quite a bit but they haven't abandoned
14 and gone back to cost of service. To me, that says,
15 those regulators feel it has been "in some sense
16 successful." There are some jurisdictions which
17 introduced PBR in a quick and simplistic way and
18 later moved away from it. I forget which ones but
19 in the earlier view there certainly were temporary
20 PBR regimes. But often those were to deal with a
21 particular issue. And, you know, they may have
22 driven cost down, went back to cost of service. But
23 I think no concept is ideal no matter how it's
24 implemented. It has to be implemented well.

25 Q. [162] Okay. Perhaps in writing, we will ask you to

1 provide us with some names of regimes where they...
2 the boards got back to COS, as you just mentioned,
3 so... but in writing. In the regions which you're
4 familiar with, can you tell us how off-grid
5 communities are treated under PBR regimes? Where
6 you have networks that are autonomous.

7 Ms. CYNTHIA J. CHAPLIN:

8 A. In Ontario, Hydro One Remote serves off-grid
9 communities and they have a separate... they are
10 regulated separately from the rest of the
11 distribution company. So... and at this point - I'm
12 stretching my memory here but - I believe it's
13 primarily... it's primarily a cost of service
14 approach. Yes.

15 Q. **[163]** Okay. Thank you. Under PBR regimes, does a
16 utility still need regulatory approval to modify
17 rate structures? Or, is it free to do so within the
18 rate and the revenue caps that may be applied?

19 A. Well, I think that can depend upon the framework.
20 So, there are... I can't think of... Perhaps Mr.
21 Todd will remember a specific example, but I do
22 believe that there are some where there is some
23 flexibility to modify rate designs. However, I
24 believe it's probably more common that if they're
25 going to be rate-design changes, that that would

1 still require regulatory approval, because
2 that's... those are very important issues which
3 affect, you know, people quite directly and... in a
4 sense are bringing... bring in... different
5 considerations than the overall efficiency of the
6 regulated entity.

7 Mr. JOHN D. TODD:

8 A. The greatest flexibility on rate design is where
9 there is a business plan being submitted, such as
10 in the current Ofgem approach.

11 Q. **[164]** Uh-huh.

12 A. And other... or where there's revenue caps and you
13 operate within it. But, yes, I'd agree with Ms.
14 Chaplin that there's a problem if you give full
15 licence for any sort of rate-design changes. It
16 could be disruptive to have rate-design changes
17 that then get reversed at the end of the cycle,
18 when you have another cost of service. So, that
19 does need to be, shall we say, a vetting process of
20 some sort.

21 Q. **[165]** Okay. Thank you very much. Now, I will refer
22 you to page 34, lines 8 to 13 of your report, where
23 you mention that:

24 Key factors in the success achieved by
25 the OEB

1 Ontario Energy Board,

2 to date include:

3 and now specifically on lines 12 and 13, you say...

4 you said,

5 Evolving the regime systematically, so

6 that complexity is added in stages as

7 the stakeholders adapt to the

8 increasingly complex system;

9 so, I heard Ms. Chaplin's explanations earlier,

10 during the presentation, but our question here is:

11 do you recommend that the Régie proceed this way as

12 well? Do you think we should start with a simple

13 PBR regime and then add complexity? Or do you think

14 that we should take longer to determine or to... I

15 mean, establish the framework of the PBR regime and

16 then... that would address all details at the first

17 time?

18 Ms. CYNTHIA J. CHAPLIN:

19 A. I think that's a question that the Régie has to ask

20 itself and should take into account the positions

21 and opinions and the evidence that it gathers in

22 the process. I think what we wanted to highlight is

23 it's something that would be helpful to explicitly

24 turn your minds to and I don't know what the right

25 answer would be.

1 Q. **[166]** Okay.

2 (13 h 42)

3 A. That's something that would have to be examined.

4 There are pros and cons. And it has to do with, as

5 we described before, the context, sort of what is

6 the quality of the data, what is the willingness

7 and receptivity of the stakeholders and the

8 company. So, it depends on a lot of factors.

9 Mr. JOHN D. TODD :

10 A. And sometimes there are factors that affect your

11 speed, so... just to be clear in that reference, if

12 there is... if data have to be collected for a

13 period of time in order to have appropriate data

14 to, say, do an analysis of productivity, you may

15 have to bring in the system and have it step by

16 step, because you wait until you have enough data

17 to do the necessary analysis, to go to a phase that

18 includes a total factor of productivity...

19 Q. **[167]** Okay.

20 R. ... project for example.

21 Q. **[168]** Thank you. Now, concerning the Ontario

22 jurisdiction, page A-14 in appendix of your report,

23 the second paragraph, where you say :

24 The Board determined the value for the

25 productivity factor for Price Cap IR

1 to be zero. In the Board's view this
2 value "reflects a reasonable balance
3 of the estimated productivity trend in
4 the sector over the last 10 years and
5 a value that is reasonable to project
6 into the future as an on-going
7 external industry benchmark which all
8 distributors should be expected to
9 achieve."

10 Our question is now: is it common to have a zero
11 value productivity factor, wouldn't that mean that
12 the PBR regime was not expected to reduce cost? We
13 would like clarification on that.

14 Ms. CYNTHIA J. CHAPLIN:

15 Q. **[169]** So this is the, for the total factor of
16 productivity, and whereas in prior generations, it
17 had been a positive number. The analytical studies
18 that were done, there were a spectrum of use; some
19 actually found a negative value. But the Ontario
20 Energy Board decided that it would not be
21 appropriate to have a negative value.

22 But in addition to this industry wide
23 productivity factor, there's also the stretch
24 factor that's applied. And that depends upon the
25 relative level of efficiency of a company, and that

1 varies from, as it shows below in the table, from
2 zero to point six (0.6).

3 Mr. JOHN D. TODD:

4 A. May I point out that Ofgem did adopt a negative
5 productivity factor. To understand that, it's
6 important to recognize that if a company is
7 spending capital to replace aged assets, the costs
8 go up significantly, without any new revenue. So
9 you can have drivers that in fact are negative
10 productivity drivers, when you're talking about the
11 embedded cost structure. And that's the
12 circumstances of the utility at the time.

13 Q. [170] Okay. Thank you. Now we have a couple of
14 questions with regards to incremental capital model
15 that you mentioned for both, at least both
16 descriptions of Ontario and Alberta regimes. On
17 page A-15, A-16, sorry you are talking about the
18 Ontario incremental capital model. You are saying :

19 Under the ICM, distributors may apply
20 during the term of their rate plan to
21 recover costs associated with
22 incremental capital requirements. The
23 criteria of materiality, need and
24 prudence were to be reviewed in detail
25 for each application.

1 So given that capital expenditures are a normal
2 part of a utility's business, I understand that
3 these criteria, which are materiality, need and
4 prudence, are used to determine whether a given
5 investment is routine or exceptional. Since routine
6 investments are already compensated within the
7 generic PBR, isn't there a risk that if the Board
8 gets it wrong, the utility will be compensated
9 twice for a particular investment, both within the
10 PBR and again through the ICM?

11 A. The key words in the question was : if the Board
12 gets it wrong, but of course, the regulator never
13 gets it wrong. So that's not a problem.

14 Q. [171] Maybe...

15 A. That's part of the process, is to review these. And
16 clearly, what you're trying to avoid is exactly
17 that problem.

18 Q. [172] Okay.

19 A. And they have been used, they have been
20 successfully used very rarely in Ontario.

21 Q. [173] Okay. So to your knowledge, that problem
22 never happened, never occurred in the past?

23 A. Much to the disappointment of my clients, that
24 problem has not occurred.

25 Q. [174] Okay. Thank you. Now, concerning, I have a

1 similar question concerning capital tracker
2 mechanism of Alberta. On page 38, lines 13 to 15,
3 you indicated that the capital tracker :
4 is designed to accommodate recovery of
5 the costs associated with critical
6 infrastructure investments driven by
7 external regulations of aging assets
8 that the generic formula does not
9 accommodate.

10 The question then is to be able to determine
11 whether or not the replacement of an asset was
12 accommodated in the generic formula as we saw.

13 On page A-29 in Appendix of your report,
14 your set out the three criteria used to determine
15 whether or not the capital tracking should apply.
16 The first criterion that you mention there is :

17 The project must be outside of the
18 normal course of the company's ongoing
19 operations.

20 How does the Board decide whether a given
21 investment is outside the normal course or not?

22 (13 h 47)

23 A. These three points are essentially principles so
24 that would be the, in the judgement of the
25 regulator, it's outside the normal course which,

1 you know, it's not sustaining capital, that would
2 have to be interpreted on a case by case basis.

3 Q. [175] Okay. Thank you. To the best of your
4 knowledge, in the U.S., has FERC studied or
5 authorised the use of PBR regimes for transmission
6 rates?

7 A. Yes. We did not review that in detail. There are,
8 I'm not sure what they refer to as but there
9 certainly are incentive mechanisms that are
10 approved by FERC around efficiency and so on. I'm
11 trying to remember now, there's a study that I
12 reviewed recently, there's an old study but... So
13 I'm going from memory, that might be a question
14 that would require review of the FERC rules on
15 transmission.

16 Q. [176] Okay. Thanks. Now on page 41 of the report,
17 lines 11 to 13, you wrote,

18 The determination of the X factor and
19 the calculation of the TFP involved a
20 highly technical and controversial
21 debate in which consensus was not
22 reached and for which there is no
23 apparent right or wrong answer. In the
24 PBR decision the AUC accepted NERA's
25 TFP methodology and found that the

1 proposed TFP estimate was a reasonable
2 starting point for setting an X factor
3 for Alberta utilities.

4 So our question is: in the situation you described
5 here which are no consensus and no apparent right
6 or wrong answer, it's not ideal. We want to know:
7 is this type of situation common in PBR regimes, a
8 disagreement of such an important element?

9 A. Okay. And I would note that the words you just read
10 were not a direct quote but very close to being a
11 direct quote from the AUC so it was their view,
12 we're sort of saying "This is what they observed."
13 and in making their decision, what they had on the
14 record was different studies, very technical,
15 producing very different results and they said that
16 the methodologies... TFP is an attempt to estimate
17 a number. No estimate is perfect. The different
18 methodologies have merits and trade-offs.

19 So I think what they were saying was "We've
20 got some different methods brought forward to us by
21 parties who presumably liked particular methods
22 because of the results." They're significantly
23 different. We are unable to say one method is right
24 and the other method is wrong and they went back to
25 the NERA TFP methodology which I believe they

1 contracted for and said "Given all the evidence in
2 the record, that's good enough. It's balanced, it's
3 reasonable, we'll use their numbers." It's not
4 unlike cost of capital hearings where you end up
5 with people, experts, providing different
6 methodologies each of which has some legitimacy,
7 different numbers and the regulator often take
8 something in between the different extremes.

9 Q. [177] Okay. Perhaps I can ask you more precisely:
10 is this situation more common under PBR regimes
11 than with COS regimes?

12 A. No, it is common wherever you have technical
13 studies that are being submitted by multiple
14 parties where some people like a high number and
15 some people like a low number. That's where you get
16 it and you always will.

17 Q. [178] Okay. Thank you. Now our last question
18 concerning the RIIIO model in the United Kingdom. On
19 page 58, lines 1 to 3, you are mentioning,

20 The network companies are expected to
21 incorporate environmental objectives
22 into their applications. With external
23 environmental views and regulations
24 continuously evolving, the companies
25 will be challenged in the design of

1 outputs on these objectives.

2 We would like to know: have the network companies
3 incorporated environmental objectives yet into
4 their rate applications in practice?

5 A. Sorry, in the U.K. you're talking?

6 Q. **[179]** Yes. Under the RIIO model.

7 A. Yes, one of the drivers is the whole issue of
8 climate change in the U.K. for this model so not in
9 exact details but yes, that's underpinning it.

10 Q. **[180]** Okay.

11 A. And a very strong component of it.

12 Q. **[181]** Okay. So that's one example. Do you have any
13 other examples of the kind of objectives that are
14 included?

15 A. For RIIO?

16 Q. **[182]** Yes. Under RIIO, yes. Or over any other
17 jurisdiction perhaps?

18 A. I'm just flicking back to see if it's in the
19 appendix but as Ms. Chaplin is just pointing out in
20 my ear, of course each company brings forth its own
21 applications with its own measures so you'd
22 probably have to drill down to the applications and
23 my understanding is that Ofgem has accepted some of
24 the applications of parties saying they look good,
25 others they've turned back and said "Go away and do

1 some more homework." So from what ultimately is
2 approved by Ofgem that's an indication of what
3 types of objectives they consider appropriate.

4 Q. **[183]** Okay. Thank you very much, that will be all
5 for us. Merci beaucoup.

6 (13 h 55)

7 LA PRÉSIDENTE :

8 Merci Maître Fortier-Pesant. J'inviterais
9 maintenant maître Neuman pour SÉ-AQLPA.

10 MR. JOHN D. TODD :

11 Just a... On RIIO there is a framework for setting
12 outputs at table... at A-51 of the appendix,
13 English version, figure 13, which may be of
14 assistance to you.

15 EXAMINED BY Me DOMINIQUE NEUMAN:

16 Q. **[184]** Bonjour, Madame la Présidente; Madame,
17 Messieurs les Régisseurs. Dominique Neuman pour
18 Stratégies Énergétiques et l'Association québécoise
19 de lutte contre la pollution atmosphérique. Good
20 afternoon to both of you. I'll ask my questions in
21 English. All my questions will be directly or
22 indirectly about public policy objectives within a
23 PBR. First of all, Mr. Todd, in your resume, it was
24 not indicated which were your clients in the
25 various files in which you acted before different

1 regulatory tribunals. In answer to AHQ-ARQ this
2 morning, you stated that most... but I don't think
3 you said all of those clients were consumer groups.
4 Were any of your clients an association that was
5 aimed at promoting public policy objectives such as
6 environmental groups or groups... or associations
7 aimed at promoting energy efficiency or some other
8 similar objective?

9 Mr. JOHN TODD :

10 A. I have generally not dealt with mandates around
11 efficiency. There's specialists in those areas that
12 are retained for those... for that work. The simple
13 allocation is in the nineteen nineties (1990's)
14 wherever you see a consumer group, prob... they
15 were a clients in the in the nineteen nineties
16 (1990's) for the projects done then. And,
17 subsequently, it was regulators, corporate
18 interveners and utilities.

19 Q. **[185]** And utilities also.

20 A. And utilities also, yes.

21 Q. **[186]** What proportion, roughly?

22 A. Maybe half, give or take, would be utility revenue,
23 twenty percent (20%) may be regulator revenue,
24 thirty percent (30%) corporate interveners, or
25 maybe twenty percent (20%). There's a little bit...

1 I still work with some consumer advocates as well.

2 Q. **[187]** Okay. In the present case, your mandate, if I
3 understand well, did not involve an evaluation of
4 the particular situation of HQ, but it included an
5 evaluation of the lessons learned from the... from
6 other jurisdictions, what could be called the best
7 practices, but I'll come over that term later, that
8 could inspire future PBR for HQD or HQT. Is that
9 correct?

10 A. That's correct. I'd say what we have tried to do,
11 was put in our report things that the party should
12 be thinking about in the upcoming process.

13 Q. **[188]** Okay. You also stated in your opening
14 statement this morning, and in an answer to Option
15 consommateurs, and it's also in various parts of
16 your report, like on page 67, lines 18 to 23, that
17 there is no single best practice for PBR, that each
18 regime is tailored to the expectations of consumers
19 and government policy within that jurisprudence. It
20 must also take into account... it also... Okay, it
21 must also take into account the structure of the
22 industry being regulated. And you also stated in
23 answer to Option consommateurs that the practices
24 expected from each regulator will obviously depend
25 on its legislation, the legislation that governs

1 what the regulator can or should do.

2 A. Yes, through all that.

3 Q. **[189]** Okay. In that context, you mentioned a few
4 minutes ago to my colleague of the RNCREQ that, at
5 the outset of your mandate, you were made aware of
6 section 48.1 of the act respecting the Régie de
7 l'énergie.

8 A. Correct.

9 Q. **[190]** That's correct? Were you also made aware of
10 article 5 of the act? If you want to have a copy of
11 it, which states the elements that the Régie must
12 take into account when exercising its
13 jurisdiction...

14 A. I'm not certain whether that was in the request for
15 proposal but I know I did review the legislation.
16 So, without remembering, I know that we were not
17 unaware of it, that we would have read the whole
18 thing. But we were being guided essentially by the
19 request for proposal, not the legislation in doing
20 our work.

21 (14 h 00)

22 Q. **[191]** Okay, but the request for proposal mentioned
23 48.1, or that's also something you...

24 A. The RFP...

25 Q. **[192]** Yes?

1 A. ... provided context, which it was for the section
2 48.1, but not section 5.

3 Q. **[193]** Yes. Do you have section 5 in front of you,
4 or do you want me to...

5 A. No. I don't.

6 Q. **[194]** ... to show it to you.

7 A. I do not.

8 Q. **[195]** Okay. It's section 5 of the Act in English.
9 Yes. It's a very short article; it states that:

10 In the exercise of its functions, the
11 Régie shall reconcile the public
12 interest, consumer protection and the
13 fair treatment of the electric power
14 carrier and of distributors. It shall
15 promote the satisfaction of energy
16 needs through sustainable development
17 and with due regard for equity both on
18 the individual and collective plains.

19 For the purpose of your evaluation of the lessons
20 learned in the six jurisdictions that you examined,
21 have you evaluated if and how any of these
22 experiences could be useful in helping attaining
23 the public policy objectives that are at issue in
24 Québec and which I referred to in section 5, which
25 mentions the public interest and sustainable

1 development and equity.

2 A. We did not look at the PBR issues in the context of
3 Québec, either the legislation or the operations of
4 the company, or other factors. Our understanding of
5 the mandate is that we are providing information on
6 other experiences, and that the Régie and the
7 parties will examine in that context.

8 Q. **[196]** I will talk to you about two of the six
9 jurisdictions that you examined more specifically,
10 the first one being the RIIO model in the U.K., and
11 the second one being Ontario's fourth generation
12 PBR model. In these two cases, the focus has been
13 placed by the regulator on setting objectives for
14 the utility and providing mechanisms favouring
15 their attainment.

16 First of all, one preliminary question. Is
17 it generally considered that the fourth generation
18 mechanism in Ontario is a form of RIIO? Would you
19 agree that it has some common characteristics with
20 the RIIO model? And maybe... Anyway. One of you two
21 can answer this question.

22 Ms. CYNTHIA J. CHAPLIN:

23 A. Okay. Yes, I would say that the fourth generation
24 incentive mechanism in Ontario shares some of the
25 features of RIIO, which makes sense, because

1 regulators, quite commonly, look to developments
2 amongst their colleagues, internationally, and are
3 informed by that. So that would be a natural
4 expectation.

5 There are certainly components of, that are
6 in RIIO, that are not part of fourth general IR;
7 I'm thinking specifically the innovation incentives
8 as one of them. So I'd say there's similarities.
9 But they are now the same. And I don't believe that
10 fourth generation was established, I don't believe
11 that that was an objective of the Ontario Energy
12 Board, to set a framework, you know, exactly like
13 RIIO. I think it was informed by RIIO, but again,
14 shaped by the specific circumstances of Ontario,
15 and the specific objectives that the Ontario
16 regulator wanted to achieve.

17 (14 h 06)

18 Q. **[197]** In page 54 lines 22 to 27 of your report,
19 concerning the RIIO model, from these lines, I
20 understand that there are two tools that the
21 regulator under RIIO possesses, to ensure that the
22 objectives set under the RIIO model are attained.
23 One of the tools are the incentives, the monetary
24 incentives to the utility, and the second tool is
25 the revocation of the licence if, and I quote:

1 In the event of repeated failure to
2 deliver on the outputs, Ofgem retains
3 the power to revoke the licence.

4 You will agree that revocation of a licence is
5 quite an extreme measure, and I don't even know if
6 it's ever been applied, or even been considered
7 seriously as an issue. So unless you have other
8 information otherwise so the only tools available
9 to ensure the attainment of the objectives are the
10 monetary incentives, would you agree with me? Under
11 the RIIIO model?

12 A. Sometimes a threat is so effective that it never
13 has to be utilised and my observation from dealing
14 with LDCs is that they do not ignore the risk that
15 a licence can be pulled. That is a driver that
16 causes them to adhere to all the rules as best they
17 can and if they ever get in trouble, they fight
18 hard to defend that they were not doing anything,
19 they'll get, you know, they'll modify the behaviour
20 and get in line so they don't lose their licence.
21 So I think the threat does affect behaviour but you
22 are correct that if licences have been pulled, it's
23 been very rare. There certainly have been transfers
24 between parties but often that's, you know, in a
25 bankruptcy situation which is a bit different than

1 for non-compliance. But the primary threat, the
2 primary instrument, you know, are the financial
3 incentives.

4 Q. **[198]** Okay. You also agree that in the case of
5 Hydro-Québec Distribution or Transport it's quite
6 improbable that the licence would be revoked,
7 whatever the regulatory situation is.

8 A. Now that sounds like a legal question to me.

9 Q. **[199]** Okay.

10 A. But if I was a lawyer, I'd suggest that probably is
11 true.

12 Q. **[200]** Okay. You stated, even earlier today, that
13 incentives are the main tool used by the regulator
14 to ensure objectives are attained but you also
15 stated that in some cases, and you mentioned as an
16 example Crown corporations, sometimes utilities may
17 not fully respond to incentives. So in your
18 experience, besides monetary incentives and the
19 hypothetical licence revocation, have you ever seen
20 other tools being used by a regulator to ensure the
21 attainment of the objectives set?

22 A. I see two things as being motivating, shall we say,
23 to LDCs and in the electricity sector most of them,
24 most of my clients that I deal on that side are
25 either provincial Crowns or admissively owned.

1 And... one is the audit function that the regulator
2 comes in and scrutinises what they're doing and
3 perhaps that's related to sort of the moral suasion
4 argument. Just as with people, if you want to
5 motivate somebody, you have to understand what
6 motivates them individually so with the company you
7 have to understand what motivates them. Is it a
8 scathing decision by a regulator, words written in
9 a decision that motivates a company? I believe it
10 does.

11 As some of you may be aware, we just had an
12 auditor's report out on Hydro One and their billing
13 system. That didn't change the problems of the
14 billing system but a company doesn't want that kind
15 of press so if you want to motivate them, you have
16 to make things transparent. The OEB score card,
17 part of what they've done is they've said "Every
18 LDC must post their scorecard on their website for
19 the press and their customers to read." The
20 scorecard is also posted, the results are posted by
21 the OEB comparing across all the utilities. That
22 transparency of their performance, totally non
23 financial, is something which I believe companies
24 respond to. They don't want negative press reports
25 and my basic concern with the scorecard is the

1 extent to which, while its transparent, how
2 effectively does it convey the messages you want
3 conveyed the extent to which, while it's
4 transparent, how effectively does it convey the
5 message that you want conveyed to the public to
6 create that motivation. So I would say you want a
7 mechanism, aside from the financials, that is very
8 clear, simple, understood by the public and the
9 company cares what their scorecard looks like.
10 (14 h 11)

11 Q. **[201]** And in the examples you just gave, the audit,
12 the scorecard, we're talking about an annual
13 process? Something that's published annually?

14 A. Part of the renewed regulatory framework is an
15 annual publishing of the scorecard and there is
16 seventeen (17) measures, I mean, I think there's
17 too many measures myself but there's different
18 views on the scorecard but it is an annual
19 scorecard.

20 Q. **[202]** O.K. And in these examples, in the event the
21 audit or the results published in the scorecard are
22 unacceptable, do not meet the objectives set, in
23 the examples that you've looked at, has the
24 regulator any power to intervene further in doing
25 something about it, in being an active lead,

1 ordering something to be done to correct the
2 inadequacy?

3 A. You're saying so aside from financial results? Yes,
4 I think...

5 Ms. CYNTHIA J. CHAPLIN:

6 A. Well...

7 Mr. JOHN D. TODD:

8 A. Well, for Ontario certainly Cynthia, Ms. Chaplin,
9 can tell you what their processes are.

10 Ms. CYNTHIA J. CHAPLIN:

11 A. In the case of Ontario, the regulator has broad
12 directive powers to require companies to either
13 report back or do studies or sort of address
14 specific issues in a specific way so there are some
15 non monetary tools. But monetary tools are often
16 very effective too in terms of levying penalties or
17 financial consequences for failure to meet
18 expectations or meeting the performance
19 requirements.

20 Q. **[203]** To Ms. Chaplin, that regulatory power in
21 Ontario, is it exercisable on an annual basis or at
22 the discretion of the tribunal?

23 A. It's at the discretion of the tribunal. The most
24 common context you'll see it is, is in the context
25 of a specific decision where perhaps through the

1 review of the evidence and the review of the
2 positions it becomes apparent to the regulator that
3 there is, in some particular areas, shortcomings
4 and they therefore direct, they may direct a
5 reduction in the allowed cost but that might also
6 be accompanied by a direction that, in the next
7 application, the utility will be required to bring
8 forth specific evidence to address specific issues
9 so that might be benchmarking evidence, it might
10 take some other form. So it's a requirement to
11 investigate an issue and report back. At a minimum.

12 Q. [204] One of the issues that incentives or
13 penalties may pose, and I'd like to see with you if
14 that problem has ever been addressed by regulators
15 in the examples that you've looked at, the problem
16 would be that if a public policy objective is not
17 attained, that the net result would be that
18 consumers would benefit from that by paying lower
19 tariffs so the public policy objective would still
20 not be attained but the net result would be that
21 the tariffs would be lesser, with no concrete way
22 of ensuring that the missing objectives are indeed
23 attained at some point in the future to correct
24 what has been observed.

25

1 Mr. JOHN D. TODD:

2 A. I think that that is an identified concern with
3 some of the early, including some of the existing
4 PBR regimes and that is one of the reasons why RIIO
5 type regimes have moved to the companies are
6 required to file a plan. And...

7 Q. **[205]** To file what?

8 A. A plan.

9 Q. **[206]** Okay.

10 A. A plan in terms of what they're going to do, what
11 they're going to achieve in terms of outcomes that
12 would include any public policy objectives. If the
13 plan is not specific enough or does not set their
14 own targets at a level satisfactory to the
15 regulator, they're sent back and told to, you know,
16 improve their plan and once they have filed a plan,
17 they're expected to accomplish what they have in
18 effect promised. And RIIO has not been around long
19 enough to know what happens if people submit plans
20 that the regulator likes and underperform but there
21 will be, the way it's laid out, there will be
22 financial consequences, they are private sector
23 companies but, at a minimum, there would also be
24 publication of their results, you know,
25 transparency, which creates the other pressure to

1 say what you're going to do and then do it.

2 (14 h 17)

3 Q. [207] Okay. In your report, you mention, in some
4 cases... actually, in the case of New York, that a
5 mechanism of true-ups, a true-up mechanism was
6 installed. If I understand correctly, it's an
7 optional mechanism set up in two thousand seven
8 (2007) by which the utility can choose if it wishes
9 to ask for the true-ups. Generally, it would be
10 when it's in the interest of the utility to do so.
11 And I'm referring to two parts of your report, page
12 45 and 46, as well as page A-38, where you mention
13 that true-up optional mechanisms, which exist since
14 April two thousand seven (2007) in New York. First
15 of all, I'll ask you if it's correct to... if my
16 understanding is correct that the true-up mechanism
17 is not automatic. It's only at the option of the
18 utility that it's been... that it would be
19 accomplished, in New York.

20 A. The details... again, I guess this is a subject to
21 check, my understanding is that it's not a true-up
22 mechanism that is put into place and is at the
23 company's discretion whether to exercise it or not.
24 They were directed to develop and implement systems
25 which, if you true-up, you true-up. And if there's

1 some discretion, there would be discretion about
2 having a true-up mechanism. But I... does it say
3 that there was an option in terms of, you can take
4 it if it's in your favour and not take it if it's
5 against you?

6 Q. **[208]** Well, I see that the last line of that
7 paragraph... the last sentence of that paragraph,
8 which is at the top of page 46, the sentence reads
9 as follows:

10 The mechanism has a "trigger" feature
11 meaning that the utility is allowed to
12 file for a decoupling adjustment when
13 the accumulated balance meets the
14 specified threshold.

15 A. Okay, what that is, is that there is a deferral
16 account which tracks the amount to be trued-up. And
17 the company can trigger... the decoupling mechanism
18 is not automatically... the account is not disposed
19 of automatically on a yearly basis. The intent
20 there is that when the accumulated balance becomes
21 large enough, that is worth the time and trouble of
22 the regulator to review it and allow disposition of
23 it into rates.

24 Q. **[209]** Okay.

25 A. But the trigger mechanism is the amount of it. And

1 there are many examples of deferral accounts which
2 have to reach a certain level before they'd be
3 disposed of outside of an normal cost of service
4 hearing. And that's just a regulatory effort...

5 Q. **[210]** Yes.

6 A. ... mechanism, avoiding a regulatory process to
7 dispose of small amounts of money.

8 Q. **[211]** Okay. But in the other jurisdictions,
9 including the five other jurisdictions that you
10 examined in the report, are the true-up mechanisms
11 automatically taking place every year or not? I
12 couldn't find the answer in the report.

13 A. Actually, I am not certain, but remember that the
14 true-up mechanism is required when you have a
15 revenue-cap because, given that you actually charge
16 rates, you may over collect or under collect
17 relative to your revenue target. Right? And,
18 therefore, the difference between the allowed
19 revenue and the actual revenue collect is either
20 paid back to customers or collected from them. It
21 is purely, essentially, an administrative
22 consideration, as to whether you do it
23 automatically or not. When it's not automatic, at a
24 particular point in time, if it's a separate
25 proceeding, no regulator would want to do that

1 without there being enough dollars to be worth the
2 effort. Otherwise, you'd let it roll forward; you'd
3 let it continue to accumulate until there's enough
4 dollars to be worth having a proceeding to dispose
5 of the dollars and set new rates.

6 Q. **[212]** How about a mechanism that would simply
7 evaluate at the end of the year, of the report year
8 of the utility, whether or not the forecasts
9 correspond to reality? A mechanism that would
10 compare the sales that would... the forecast sales
11 with the actual sales, the forecast expenses with
12 their actual expenses? Is that part of the
13 different mechanisms that you've observed?

14 A. Yes, the true-up is where you're charging on a
15 volumetric basis.

16 Q. **[213]** Yes.

17 A. But what you're allowed to keep is a global amount
18 of revenue.

19 Q. **[214]** Yes, Okay.

20 A. So, you always have a variance.

21 Q. **[215]** Okay.

22 A. In some cases, that may cancel out over the years;
23 so you let it roll forward. In some cases, you
24 dispose of it. But you'd normally only dispose of
25 it when you have a rate-setting process in any

1 case. So, if you have a five-year plan and you've
2 set rates for five years, you would not have a
3 rate-setting process until the end of the five
4 years, unless there is a true-up required that was
5 significant enough to say, "We're going to have to
6 add two cents to rates," so that the company can
7 get its money. Otherwise, it's carrying a
8 shortfall.

9 Q. **[216]** And in the five or six examples in your
10 report, it's only at the end of the multi-year
11 report... the multi-year period that an adjustment
12 is being made to compare...

13 A. No.

14 Q. **[217]** ... revenue forecast and expenses forecast...

15 A. Okay.

16 Q. **[218]** ... with reality, or is it yearly?

17 (14 h 24)

18 A. It's not for variances in revenue and expenses,
19 unless it's an earnings sharing mechanism, then
20 it's... both would be a factor. It's where you've
21 got a revenue cap not a price cap. Okay? So, that's
22 the... the transmission companies only. And the
23 true-up mechanism would be part of whenever you
24 reset rates. So whenever you reset rates...

25 Q. **[219]** For the past.

1 A. ... that's smaller factors.

2 Q. **[220]** For the past. To reevaluate the past.

3 A. You reset rates on a going forward basis. So you
4 are, if you have over or under-collection of the
5 target revenue for one or two or three years,
6 whenever you reset rates, that would be taken into
7 account when you reset rates.

8 Ms. CYNTHIA J. CHAPLIN:

9 A. And just to be clear, the material that's included
10 in the report about Con Edison, is about what's
11 often referred to as revenue decoupling. So you can
12 have revenue decoupling with PBR, but you can also
13 do revenue decoupling without PBR. So it's a form
14 of an incentive, by decoupling they're by, removing
15 any disincentive to promoting energy efficiency.
16 But in a sense, it's not, this feature of Con
17 Edison is not, it's not, sorry, a PBR. But it's
18 part of the example of Con Edison which this
19 accumulation of characteristics is creating a PBR
20 like, a regime that is PBR.

21 Q. **[221]** Bon. My last question. In several parts of
22 your report, by example on page 7 lines 23 to 27,
23 you mentioned that:

24 ... as new technologies make self-
25 generation more economic, the risk

1 that consumers will begin to reduce or
2 eliminate their reliance on the grid
3 is an emerging concern.

4 You also mention it on page 83 lines 7 to 14, that
5 self-generation causes:

6 ... the risk that customers will begin
7 to reduce or eliminate their reliance
8 on the grid...

9 which

10 ... is an emerging concern.

11 Have you considered that on the contrary, the
12 increase in the number or the volume of electricity
13 consumption that could be self-generated could be
14 considered not as a concern, but on the contrary,
15 as an objective of the PBR? And I put that in the
16 following context: there's an energy policy from
17 the Québec government that lasted from two
18 thousand, year two thousand six (2006) to two
19 thousand fifteen (2015). There'll be a new one
20 soon. And that policy statement expressed the wish
21 of the government to increase self-generation of
22 electricity for small volumes. So would you agree
23 that it could be considered not as a concern, but
24 on the contrary as an objective to be attained, and
25 for which various incentives would be part of a

1 mechanism?

2 Mr. JOHN D. TODD:

3 A. Yes. We can agree. The word concerned was not
4 intended to suggest there was a concern from a
5 public policy perspective or it was a negative
6 thing. It is a potential concern for the
7 distributors and for a design of a PBR system. It's
8 something you have to think about. If that is an
9 objective, you would have to make sure your design,
10 flexibility, the rates, recognize that. And you
11 wouldn't want your PBR system to fail because
12 you're achieving desirable reductions in demand or
13 for generation.

14 Q. **[222]** Thank you very much. So as the tribunal
15 mentioned earlier today, we have a few other
16 questions that we didn't have the opportunity to
17 ask, but we will insert in a letter to be sent
18 to...

19 LA PRÉSIDENTE :

20 Demain matin.

21 Me DOMINIQUE NEUMAN:

22 ... tomorrow. Thank you very much.

23 LA PRÉSIDENTE :

24 Merci beaucoup Maître Neuman. J'inviterais

25 maintenant Maître Sicard. Après l'intervention de

1 maître Sicard, nous prendrons une pause.

2 (14 h 29)

3 EXAMINED BY Me HÉLÈNE SICARD:

4 Q. **[223]** Hélène Sicard, pour l'Union des
5 consommateurs. Bonjour Madame la Présidente, Maître
6 Duquette, Monsieur Houle. Good afternoon Madame
7 Chaplin, Monsieur Todd. I don't have a very strong
8 voice and I don't want to play with the mic so if
9 you don't hear me, tell me and will try to find a
10 way to adjust. Thank you. So as my confrère from
11 Option consommateurs said, we've divided our
12 questions in various sections. I will have
13 questions first on the consumer aspect you've
14 treated. I will have questions about the penalties
15 you've talked about. I will have questions about
16 procedure and productivity.

17 I will start with consumer and I will
18 invite you to go to page 2, line 28. I will read
19 the section to you.

20 In general, PBR regimes have evolved
21 from relatively simple rate control
22 mechanisms to more complicated regimes
23 that recognize concerns other than
24 reducing costs, such as improving
25 standards, implementing government

1 policies related to energy
2 conservation, increasing the role of
3 renewable generation, consumer
4 responsiveness, etc. A few regimes
5 have evolved to outcome-based regimes
6 that seek to address these broader
7 issues with a more comprehensive and
8 more flexible approach.

9 The terms "consumer responsiveness" have been
10 translated in the French version into "r eceptivit e
11 aux besoins des consommateurs" so my first question
12 to you is this "r eceptivit e aux besoins des
13 consommateurs" mentions an openness to consumer
14 needs, I'm not listening to the translation but I
15 presume that's the way. Is this what you mean when
16 you say "consumer responsiveness"?

17 A. Yes.

18 Q. **[224]** Thank you. Now, can you give us examples of
19 those needs that are being responded to?

20 A. Some utilities, and more so in some jurisdictions
21 than others, are implementing on their websites the
22 ability for customers to access their billing
23 information, a lot of detail comparison, easy
24 dashboards to look at their energy efficiency. The
25 concept of where this can go is that people in the

1 future will be able to connect their computers to
2 real time information on energy consumption
3 simultaneously with real time cost of power and
4 connected to devices in their home to manage energy
5 in a very sophisticated technological way.

6 Q. **[225]** Okay. Could it go as far as to include, for
7 example, special programmes to help low income
8 families?

9 A. Yes, those types of programmes have been
10 implemented in several jurisdictions and if PBR is
11 your mechanism for setting rates, that becomes part
12 of your PBR regime.

13 Q. **[226]** Okay. Now how would those be measured? How
14 would the Board or the intervener take the measure
15 of whether or not it has been respected? Like if
16 you're supposed to, for example, reduce rates by
17 two cents (2¢) it's easy: you look if there's been
18 a two cent (2¢) reduction in expenses. But how do
19 we go about measuring those elements that are
20 important for my client but are, to a certain
21 extent, not tangible money-wise or more difficult
22 to evaluate. How are they evaluated in practice
23 when they've been implemented?

24 A. I think there are two sides to that question. One
25 is what should the policy be, i.e. should there be

1 a lower rate and how low should that rate be? That
2 is probably not part of consumer responsiveness in
3 terms of the company's operations, that's the
4 regulatory process which... and I'll address that.
5 But having dealt with those issues in the past,
6 within this gambit, measuring things would be, of
7 the qualifying low income households for example,
8 how many are participating in the programme and
9 receiving the benefits and there would be ways to
10 develop measures that indicate the number of people
11 who are in the programme and some estimates of the
12 number of people within a service territory who
13 would qualify, based on income data, for example.
14 (14 h 34)

15 Q. **[227]** So, I'm sorry to interrupt, I want to go a
16 bit broader with the question. It's just, we're
17 talking about consumer responsiveness and also...
18 and more broadly, you've talked about seeing things
19 on the Internet, being able to follow up your
20 "consommation" and all those things. It's more
21 globally. I understand from your answer, and am I
22 wrong, that every single element that would be
23 included under consumer responsiveness would have
24 to be followed individually. There couldn't be a
25 global indicator to follow the result of consumer

1 responsiveness.

2 A. One of the approaches that is deemed appropriate by
3 some regulators is to have customer satisfaction
4 surveys which would be a survey with a result of
5 customer satisfaction, which would be one number
6 overall and would be intended to encompass all of
7 these issues. Different issues affect different
8 segments of the population. So, that becomes a
9 matter of survey design.

10 Q. **[228]** Thank you. Then, I'm going to bring you to
11 page 4 to... yes, page 4 to 5, line 29 of page 4,
12 to line 3 of page 5.

13 The Better Regulation program brought
14 together a number of reforms,
15 including new annual reporting on
16 efficiencies, new tools to assess
17 business expenditure forecasts,
18 stronger incentives, a better way to
19 determine the return on investment and
20 a better consumer engagement
21 framework.

22 Could... first question, could there be an annual
23 reporting on efficiency and other measures, within
24 a multi-year PBR?
25

1 Ms. CYNTHIA J. CHAPLIN:

2 A. Yes, I think that that's often a very important
3 component of a multi-year PBR, is ongoing
4 reporting. And that can take a variety of forms. In
5 Ontario, there's the scorecards. So, that's looking
6 at some particular outcomes. But you may also want
7 there to be regular reporting of basic data,
8 because although you want the system to be allowing
9 the company's flexibility to go off and run their
10 operations, and run them more efficiently, it's
11 very important for the regulatory framework and for
12 the regulator to understand what's going on, and
13 therefore to get that reporting and to really see
14 what's happening, and for there to be transparency
15 around that. Because that's how the analytical
16 tools can become stronger and also if the company
17 is responding in a way, an unexpected way or
18 something unusual has happened, there's an
19 opportunity to look into that and determine if
20 something... if some sort of an action needs to be
21 taken. So, it's not a matter of setting a regime
22 and just everybody goes away and comes back in five
23 years. That wouldn't work well.

24 Q. **[229]** One of my follow up questions to that was: if
25 they report on specific elements annually and if

1 the board deems it necessary to have a more
2 in-depth review of one of those elements, that, for
3 example, they would deem problematic, whether with
4 the forecast, or another element... could we plan
5 to have then a yearly review of those problems?

6 A. You could do that but when considering that, you
7 need to take into account, well, are you going to
8 end up with an annual review which starts to look
9 more and more like an annual cost of service rate
10 case? So, it's being cautious. Certainly, a
11 regulator needs to reserve the ability and the
12 discretion to investigate what needs to be
13 investigated but not... you don't want to end up
14 slipping... you know, unintentionally slipping back
15 into a full annual rate case.

16 Q. **[230]** If there are no serious problems.

17 A. Well, if... you'll see sometimes, for example, what
18 are known as off-ramps. So, if there are serious...
19 some series of serious events or very unusual
20 results, then it may be a time to just say, "Well,
21 should the framework...

22 Q. **[231]** Yes.

23 A. ... should we draw a halt to this or we review it
24 or re-examine it from the ground up?"

25 Q. **[232]** Thank you. Mr. Todd, or Madam Chaplin, in

1 that sentence I've read to you, page 4 and 5, line
2 29 to 3 of page 5, you use the term "better
3 consumer engagement framework". What did you mean
4 by that, briefly?

5 Mr. JOHN D. TODD:

6 A. Frankly, I did not mean anything by that. If you...
7 the beginning of the paragraph says, this is the
8 national electricity... the... oh! Sorry, the
9 Australian Energy Regulator...

10 Q. **[233]** Uh-huh.

11 A. ... in twenty thirteen (2013), undertook a Better
12 Regulation program, it's bringing these things
13 things together and these are basically its words
14 that it's trying to create a better consumer
15 engagement framework. So, it's expecting the
16 companies to hear more of what the customers are
17 saying...

18 Q. **[234]** Okay.

19 A. ... and report back to the Board through, I think ,
20 Ms. Chaplin, was referring earlier, there's various
21 techniques, customers surveys and so on. With more
22 time, we will see whether it truly is better.

23 Q. **[235]** Okay.

24 Ms. CYNTHIA J. CHAPLIN:

25 A. And that's comparable to what's happening in the

1 U.K. and in Ontario as well. This expectation that
2 when the utilities come in with their plans, that
3 they demonstrate how they have engaged with their
4 customers and to what extent that those... the
5 outcomes of that have been incorporated into their
6 plans.

7 Mr. JOHN D. TODD:

8 A. And part of outcome based is it's telling the
9 companies what they want from them, but saying,
10 "You bring something forward to us in term of how
11 you're going to achieve those outcomes," and we'll
12 either say, "Yes, that's good enough, or, No, go
13 back and try again."

14 (14 h 41)

15 Q. **[236]** Okay. Ppage 55 lines 14 to 19, you talk, it's
16 the RIIO model:

17 From the high-level objectives of the
18 RIIO model, six specific output
19 categories have been developed:

20 And then, you name the six, but two have retained
21 our attention: customer satisfaction and social
22 obligations. Can you give some example of what
23 those two output categories include?

24 Mr. JOHN D. TODD:

25 A. While Ms. Chaplin looks for that in the Appendix.

1 Q. **[237]** Oh. Okay.

2 A. Basically, customer satisfaction, they are doing
3 more surveying of customers. There's also concern
4 that the system is becoming very complicated, and
5 Ofgem has set out, I'll refer to it on page 57 line
6 14, Ofgem has introduced a consumer challenge
7 group, to ensure all customer issues are dealt with
8 by a representative group of stakeholders.

9 Q. **[238]** Well, you're touching on my next question. I
10 would like to know if you can give us more
11 information on that customer challenge group, as to
12 whether, do you think it would be comparable to the
13 interveners that we have in Ontario and Qu ebec's
14 jurisdiction, or is it something more specific?

15 A. I've sent you, all I know is contained there and on
16 the previous page, 56, lines 17 to 20.

17 Q. **[239]** Yes.

18 A. This group includes members who are intended to
19 reflect the expertise and interest of existing and
20 future customers.

21 Q. **[240]** But...

22 A. Their primary role is to ensure the customers' view
23 are fully considered. So they are people who are
24 appointed to this committee, who are, this is not
25 sort of pure layman. This is people representing

1 the views, similar to participants to this
2 proceedings.

3 Q. **[241]** Okay. Do you know who they're appointed by?

4 A. I believe Ofgem has put it together. I'm sure, by
5 talking to parties that have participated in the
6 process, but I'm not sure how the appointments are
7 done.

8 Q. **[242]** Okay. Could you change... Oh. Sorry.

9 Ms. CYNTHIA J. CHAPLIN:

10 A. Oh. I was just going to add that I was at a
11 conference just a couple of weeks ago, and the
12 chair of the Ontario Energy Board has announced
13 that they intended to establish some form of
14 consumer challenge panel, and they're looking at
15 the role of interveners, and how those may be
16 different or complementary.

17 Q. **[243]** Is there a document or something that is...

18 A. I believe all the...

19 Q. **[244]** ... accessible, as to what he intends to do,
20 that you could give us a reference to?

21 A. I don't, it may have been mentioned, I think it's
22 been mentioned in some of her speeches. I don't
23 know if any formal letter has been issued.

24 Q. **[245]** Okay. If you find a reference, could you
25 provide it, if you happen to come by it? Thank you.

1 Penalty now, page 21, lines 29 to...

2 Me LOUIS LEGAULT :

3 Maître Sicard, est-ce que vous en faites un
4 engagement formel, parce que, ou si vous allez le
5 demander par écrit?

6 Me HÉLÈNE SICARD :

7 Je vais le redemander par écrit, puisqu'on a pris
8 cet engagement. Je voulais...

9 Me LOUIS LEGAULT :

10 Ça va être plus simple.

11 Me HÉLÈNE SICARD :

12 ... aller plus vite...

13 LA PRÉSIDENTE :

14 S'il vous plaît.

15 Me HÉLÈNE SICARD :

16 ... je me suis dit. Puis vous pourrez juger à ce
17 moment-là de si c'est pertinent ou pas de l'avoir.
18 C'était l'idée derrière la question. Merci. Alors
19 page 21, ligne... Sorry. Page 21, lines 21, 22. You
20 wrote:

21 As a result, many regulators enhanced
22 their PBR regimes by adopting
23 mandatory quality of service
24 standards, sometimes with associated
25 financial penalties.

1 Could you tell us a bit more about these penalties?
2 For example, do you deem them effective, and how
3 are they decided, and what would they apply to?

4 Mr. JOHN D. TODD:

5 A. The jurisdictions that have them that I'm aware of,
6 and for example, Alberta, there was, that I know of
7 but were not in the study, BCUC technically had
8 some. They were, there are difficulties in applying
9 them, because there's concern about fairness. So if
10 there's under performance due to some event outside
11 of the company's control, there is a willingness to
12 be lenient, shall we say. But determining whether
13 they should be held responsible or not can be an
14 onerous process.

15 Q. **[246]** But if I may stop you Mr. Todd...

16 A. Yes.

17 Q. **[247]** ... I would have like to, when I say how did
18 they go about it, it's like does the Board impose
19 them the minute something is wrong, or do
20 stakeholders or interveners have to come before the
21 Board and say: look, the results show they're
22 underscored severely on that level; then, the
23 penalty should apply. It was more like the mechanic
24 of the penalty system.

25 (14 h 47)

1 A. Some regulators have the opportunity to impose
2 penalties in response to a complaint.

3 Q. **[248]** Okay.

4 A. I'm not aware of any that have been imposed, sort
5 of complaint related penalties imposed on
6 utilities. There certainly have been penalties
7 imposed on retailers for violations of consumer
8 protection rules and so on. More often for a
9 regulated company, it is an issue that comes up in
10 the rate setting process and recognised under most
11 PBR regimes, you actually are adjusting rates on a
12 yearly basis. I mean, where there is a formula, you
13 still need a rate change. A rate change means a
14 proceeding has to happen before the regulator but
15 because it's done by a formula, it is very
16 streamlined - it's often a paper process - but that
17 creates an opportunity on an annual basis to raise
18 these kinds of issues that there has been, shall we
19 say, a violation for which there should be a
20 financial penalty imposed and parties can present
21 arguments and the regulator would make a decision.

22 Q. **[249]** Okay.

23 Ms. CYNTHIA J. CHAPLIN:

24 A. And another structure is actually to set it up in
25 advance so, in other words, to say "Here is what

1 we're going to measure, you know, how soon you
2 answer the phone." just as an example. "Here is the
3 standard we're going to set, how often should you
4 achieve that." and then these will be, if failure
5 to achieve that standard will then be associated
6 with specific amounts. So, in other words, in that
7 framework, it's being set up so that the utility
8 knows going into it what the cost will be for
9 failing to meet the performance standard.

10 Q. **[250]** Okay. My time is running out so I'm going to
11 change subject and come back to penalty if I have
12 time because I would like to talk about
13 productivity efficiency and prevision. We
14 understand from the study and what you've presented
15 that the general idea is that a transmission or
16 provider or distributor should be rewarded for
17 their efficiency but how can the Board identify
18 what is real efficiency and what is, for example,
19 reporting cost or reporting project? Do you have an
20 idea of how that can be done?

21 Mr. JOHN D. TODD:

22 A. To clarify the question, are you saying can they be
23 sure that the lower costs are real lower costs or
24 are they accounting sleights of hand? Is that your
25 question?

- 1 Q. **[251]** Well, I'm not going to go as far as saying
2 accounting sleights of hand but expenses that were
3 planned have been reported...
- 4 A. Okay.
- 5 Q. **[252]** ... for whatever reason. I'm not giving you
6 examples of what's happening in Qu ebec and what
7 we've seen in previous cases because you've said
8 you're not familiar with Qu ebec so we're not going
9 to go there. So I'm talking in general. We agree
10 that a company should be rewarded if it does
11 efficiency. My question to you is how can the Board
12 ensure that what we are rewarding is real
13 efficiency?
- 14 A. That links to the comment I made before that really
15 what you're incenting is cost reduction and you can
16 be, by reviewing the accounting that is done and
17 requiring continuity in terms of the accounting
18 practices, you've identified that there have been
19 real cost savings. The concern is have the cost
20 savings come at the expense of some aspect of
21 service? So some cost reductions, if they have
22 negative impacts, will be seen right away. So an
23 LDC in a small town may close an office where
24 customers can come in and pay their bill in the
25 office. That reduces the staff, that cuts costs.

1 There is a reduction of service. The regulators
2 don't try to stop that. They say "You're dealing
3 with your customers, if you think that's an
4 appropriate thing to do and that reduces costs and
5 rates, that's fine."

6 Q. **[253]** Okay.

7 A. And they get rewarded for not letting customers
8 come and pay their bill in person. A more dangerous
9 thing or a tougher concern is: will maintenance get
10 deferred, annual maintenance, so that the equipment
11 doesn't last as long and what you're doing is
12 increasing the costs because the annual maintenance
13 is not done and therefore you have higher capital
14 costs two years down the road. Or you are making
15 capital investments and you buy something cheap
16 that's only going to last ten (10) years instead of
17 something better quality - it would cost ten
18 percent (10%) more but it would last twenty (20)
19 years. Those types of things are a struggle, which
20 is why there are sometimes capital trackers to put
21 certain capital expenditures outside including...

22 Q. **[254]** Okay.

23 A. ... long-term investments and that's where the
24 planning comes into play "Give us long term plans."
25 But it is a challenge. The same sort of challenges

1 can exist with cost of service except that there
2 may be more license to spend money so there's no
3 incentive to save that money.

4 (14 h 52)

5 Q. **[255]** Okay. I'm going to ask you another question.
6 We talk about efficiency, we also have seen conduct
7 total factor productivity studies on different
8 types, levels, referred to for various places in
9 your report. Should a total factor productivity
10 study give us... or inform us on the efficiency
11 that could be gained and realized by a corporation,
12 by a service provider?

13 A. They do not speak to the future. They speak to the
14 past. They use historic data. So, the general
15 concept is that they can use a total factor
16 productivity study to determine past performance
17 and the assumption is that the past regulatory
18 regime was inefficient. Therefore, the company
19 could do better than they have done in past
20 performance, which is why you add a stretch factor
21 to the historic TFP performance.

22 Q. **[256]** In your opinion, before a regulator gets
23 involved with setting a PBR for service provider,
24 should it order or should it see to get some kind
25 of study in order to evaluate the efficiency that

1 can be gained within the company?

2 A. Assuming appropriate data are available, that is an
3 option. Some jurisdictions have started with that.
4 Norway is the prime example. Other jurisdictions,
5 such as Ontario, have used it on an ongoing basis.
6 Other jurisdictions have said, "What we want is a
7 cost trend that's better than the past," and if you
8 assume sort of... there's no major changes, you
9 could argue that past cost trends is an
10 approximation of a total factor productivity trend.
11 But that is very much a simplistic approach to it

12 Q. **[257]** You mean, just looking at past cost?

13 A. Just looking at past cost because what's driving
14 them, conditions change. Growth rates... the rate
15 of growth versus rate of replacement can have a
16 significant impact on cost trends relative to
17 rates, for example.

18 Q. **[258]** Well, do you agree with us that PBR should
19 try to quote, unquote, "attack and reflect and deal
20 with a reality"?

21 A. Yes, I think what you're saying is: is a TFP study
22 desirable? Probably, yes, they're commonly but not
23 always used. But again we are not trying to present
24 anything as try to tell the R egie, this is
25 something which is a necessary part...

1 Q. **[259]** No, no, no.

2 A. Yes.

3 Ms. CYNTHIA J. CHAPLIN:

4 A. But...

5 Q. **[260]** I understood that you said from the start you
6 want to make recommendations. I'm asking what you
7 think of those. Je vais arrêter ici, Madame la
8 Présidente, parce que je vois que j'arrive à ma
9 demi-heure; à moins que vous ne me donniez plus de
10 temps. Puis, je vais vous soumettre quelques
11 questions par écrit, mais si vous êtes passionnés
12 par le sujet, je peux continuer.

13 LA PRÉSIDENTE :

14 J'apprécie votre offre.

15 Me HÉLÈNE SICARD :

16 Merci.

17 LA PRÉSIDENTE :

18 Puis, je la prends. Alors, nous prendrons une pause
19 de quinze (15) minutes. Nous reviendrons donc à
20 trois heures quinze (15 h 15). Merci.

21 SUSPENSION DE L'AUDIENCE

22 REPRISE DE L'AUDIENCE

23 (15 h 15)

24 LA PRÉSIDENTE :

25 Maître Lescop?

1 Me RAPHAËL LESCOP :

2 Bonjour.

3 EXAMINED BY Me RAPHAËL LESCOP:

4 Q. **[261]** So yes. I had like forty (40) questions. But
5 I, you know, most of them, some of the questions
6 were already answered. So I will choose the one
7 that you did not answer fully. I know that you
8 answered some questions about section 48.1, and I
9 just need a confirmation that you did not the
10 verification that the six regimes that you analysed
11 in your report can or cannot be implemented in
12 light of section 48.1 of the Act.

13 Mr. JOHN D. TODD:

14 A. We have not looked at that.

15 Q. **[262]** You have not looked at that. And in the
16 course of your mandate, did you gather the legal
17 framework of, you know, the regimes you analysed?
18 Did you? I mean you analysed regimes from Norway,
19 from Ontario. Did you gather the legal framework,
20 and maybe we can obtain this framework, in order to
21 compare these frameworks with section 48.1?

22 A. No. The mandate did not include looking at the
23 legal framework that's driving it. That's probably
24 more a piece of legal research.

25 Q. **[263]** Thank you. Now, with your report, I will, can

1 you go to page 17, line 17. It says:

2 The cost of service approach has a
3 number of shortcomings that are widely
4 recognized in the literature, as
5 discussed in the preceding section, as
6 well as several practical concerns
7 that have been identified by
8 regulators.

9 And then, at line 20:

10 First, the regulator is at a disadvantage
11 when trying to determine whether
12 expenditures are really needed. The utility
13 has access to far more information than the
14 regulator.

15 My question concerns the information, and how, can
16 you explain in length how the PBR regime improved
17 this shortcoming, concerning the information?

18 A. It does not improve the information. It circumvents
19 the problem by attempting to align the interests in
20 the company. So it is in the interest, the interest
21 of customers and the company. Customers want to see
22 costs reduced to gain efficiency and have lower
23 rates. The company, if the company has an incentive
24 to find ways to cut costs, then those interests are
25 aligned. So without getting the information, by

1 having an incentive for the company to find ways to
2 reduce its costs, the regulator doesn't have to
3 know how to do it. The company will do it, by being
4 rewarded for cost reductions. And that's what PBRs
5 are trying to do.

6 Q. **[264]** Okay. So the PBR, just to summarize, does not
7 improve the quality or the precision of the
8 information. It just circumvents the issue under a
9 cost...

10 A. Yes.

11 Q. **[265]** ... regime.

12 A. Yes.

13 (15 h 20)

14 Q. **[266]** Now, I'll take you to page 3 of your report,
15 lines 23 to 27. So I'll read a portion of line 24:

16 While multi-year regimes generally
17 provide less effective incentives for
18 improving productivity than CPI-X
19 regimes, they do provide greater
20 opportunities for a utility to benefit
21 from efficiency improvements than
22 annual cost of service reviews.

23 Can you just expand on these opportunities please?

24 A. There are essentially two types of opportunities.

25 One type is if you have somebody on staff that you

1 don't really need, you fire them, your cost will go
2 down this year and then lower next year and the
3 year after and the year after. In a standard cost
4 of service, you get rid of that person and you save
5 that salary for one year and the next year your
6 rates go down and you have lower costs.

7 Q. [267] Okay.

8 A. And the customer benefits from that. Now, you have
9 to live without that person and maybe it would be
10 nice to have him around. So companies don't have
11 much incentive to do it. With a five year term, you
12 get rid of that person this year, you now save on
13 that salary over five years. The potential, the
14 total benefit to the shareholders is five times as
15 great. You do that for more people, you reorganise
16 your teams, you cut ten percent (10%) of your
17 staff, big payoff for five years.

18 The other type of saving is one where you
19 have to spend money up front in order to save money
20 over time so I might have to make a capital
21 investment in a new technology, my costs in the
22 short run go up. Costs go down in the future and
23 the cost of service, if I do that on an unplanned
24 basis - like I just see the opportunity, I go ahead
25 and do that in the current year - my costs are now

1 higher, I overspend perhaps, next year I'm back at
2 cost of service, built into my rates are the
3 savings, I get no benefit, I just have those higher
4 costs so in fact, where you have to make an upfront
5 capital investment that is paid off over time
6 there's no incentive and, in fact, one of the
7 problems, even with PBR, is if the payback on a
8 capital investment is ten (10) years, it's not
9 justified within a five year PBR.

10 Q. **[268]** Okay.

11 A. The general concept is that you want to make it
12 long enough that most capital invest...
13 productivity investments that would be attractive
14 to a business corporation, would actually be
15 realisable in that term - five years is actually a
16 pretty good time for a payback period - and if you
17 have that end of term treatment, the rolling
18 return, so even if you carry out that investment
19 into year five, if you're going to get the benefit
20 for five years in extending the next term, then you
21 retain that incentive to implement productivity
22 measures.

23 Q. **[269]** Okay. And so did you just compare the PBR
24 with the COS regime and is there a comparison to be
25 made in between different regimes of the PBR?

1 Because not all of the PBR regimes are multi-year,
2 no? Is there...

3 A. Yes.

4 Q. **[270]** ... a distinction to be made between PBR
5 regimes on this issue?

6 A. The multi-year, such as Con Edison, tend to be
7 shorter terms.

8 Q. **[271]** Okay.

9 A. So the shorter the term, the less the bang for
10 savings. So in cost of service regimes, they've
11 tended to be four, five or even longer years
12 whereas multi-year, because of the difficulty in
13 forecasting costs - yes, multi-year means you're
14 actually forecasting costs out - it's hard to
15 forecast costs out five years so they tend to be
16 shorter than your typical PBR regime which is
17 formula-based.

18 Q. **[272]** Okay. Perfect. Thank you. I will now take you
19 to page 6 of your report, lines 12 to 19 but I will
20 read only line 15.

21 As a result of this increasing
22 complexity, the latest evolution of
23 the U.K., Australian and Ontario
24 regimes has been to adopt
25 comprehensive outcomes-based regimes.

1 These PBR regimes emphasize measuring
2 success in terms of defined
3 performance outcomes.

4 And my question concerns the last sentence.

5 They require the utilities to
6 demonstrate that they are developing
7 business plans based on consumer
8 engagement and comprehensive planning.

9 Can you expand on this last sentence? What do you
10 mean by "consumer engagement and comprehensive
11 planning"?

12 A. Consumer engagement varies a bit by jurisdiction.
13 Ms. Chaplin may want to speak to Ontario where
14 they're asking for greater consumer engagement.
15 Companies are starting to do it. The Board has not
16 been prescriptive about exactly what that should
17 look like so as companies bring in customer
18 engagement strategies that are accepted or
19 rejected, we'll gradually learn what is acceptable
20 in Ontario. Ofgem, part of that is referring to the
21 committee that's been set up, you know, that
22 process so that's really the consumer engagement is
23 different strategies often proposed by the company
24 but they have to propose something that's good
25 enough for the regulator to accept and, of course,

1 other parties can comment on it to say we don't
2 think that's good enough. Similarly with
3 planning...

4 Q. **[273]** But can you...

5 A. Yes?

6 Q. **[274]** Just before you go on planning, so
7 consumer... So it's an engagement towards customers
8 or?

9 A. Yes, it's... The way the chair of the Board has put
10 it in speeches is "We want the LDC to be able to
11 demonstrate to us convincingly..." well, it's
12 essentially what she said "... demonstrate to us
13 convincingly that they have talked to their
14 customers, heard their concerns..."

15 Q. **[275]** Okay.

16 A. "... and are bringing back to us those concerns."
17 It's not enough to simply come in and say "Here's a
18 one pager that lists the customer concerns."

19 Q. **[276]** Okay.

20 A. What's the process? Convince them that you've got a
21 process that is a good process to hear those
22 concerns.

23 (15 h 27)

24 Q. **[277]** But on that particular issue, is the PBR
25 regime an improvement on, as opposed to the cost of

1 service regime because here in Québec, Hydro-Québec
2 would probably say that they do this, despite the
3 fact that there is no PBR regime in place. Is that
4 part... so, the last sentence, is that particular
5 to a PBR regime or it can be applied to any kind of
6 regime, where there's a monopoly?

7 A. Some of the concepts, these kinds of concepts can
8 be done without PBR.

9 Q. **[278]** Okay.

10 A. But the performance-based part is that those
11 mechanisms, such as listening to your customers,
12 developing a plan, that becomes a performance
13 objective. And performance-based regulation then
14 measure how you do against that plan.

15 Q. **[279]** Okay.

16 A. And we'll reward you for achieve it, potentially
17 penalize you for not achieving it.

18 Q. **[280]** Okay.

19 A. While you can do that within a traditional cost of
20 service, you're now turning that cost of service
21 into something which has some features of
22 performance-based regulation.

23 Q. **[281]** I understand. So, it's an improvement of
24 something that is already done, but it's, you
25 know...

1 A. Yes. The point is there's not a bright line
2 between...

3 Q. **[282]** Yes.

4 A. cost of service and performance-based. It's...
5 we said, it's sort of an evolution. All PBR is
6 really enhanced cost of service, if you want.

7 Q. **[283]** Okay. Perfect. And, so, can you just continue
8 on the comprehensive planing?

9 A. Similar, comprehensive planing is... covers more
10 than what your customers want. It may be an
11 investment plan. It may be an evolution of the
12 business. It could cover environmental issues. It
13 can cover, you know... it can cover anything that
14 is set around the objective of the PBR system. And
15 the planing... the scope of planing, and it may be
16 one or more plans, would normally be addressing
17 whatever the objectives of the regime are.

18 Q. **[284]** Okay. Thank you. That leads me to page 32 of
19 your report; just after section 4.2.1, during the
20 cost of the regulatory regime, so:

21 The most obvious benefit of the
22 Ontario regime is that the overall
23 cost of regulation is significantly
24 lower than it would have been if
25 traditional cost of service regulation

1 with annual rate applications had been
2 introduced.

3 I think that you touched on that subject with
4 maître David, I think. But can you just expand on
5 this and specifically answer the following
6 question: what costs can be avoided with a PBR
7 regime?

8 Ms. CYNTHIA J. CHAPLIN:

9 A. So, the costs that are avoided there were having
10 close to eighty (80) individual electricity
11 distributors come in for cost of service rate
12 applications every year.

13 Q. **[285]** Okay.

14 A. So, if just a traditional cost of service was used,
15 it would require eighty (80). And the regulator was
16 not resourced to be able to conduct that kind of
17 activity.

18 Q. **[286]** Okay.

19 A. So, by setting... by having a generic process to
20 set the framework, and then engaging each of the
21 distributors to apply that framework and come up
22 with a specific plan, that streamlined how those
23 would be reviewed. And then, each of those... in
24 different generations of the Ontario framework have
25 been different terms but even the initial ones were

1 at least three years. And now, in fourth
2 generation, it's to be five years. So, there's sort
3 of two levels of efficiency in terms of setting
4 many of the parameters for all of the distributors
5 and then, also having an extended term.

6 Q. **[287]** Okay. But from what we... you know, about the
7 Québec regime, how would this translate in Québec?
8 You know, if we ever have a PBR regime in place, do
9 you know how would this translate in cost reduction
10 or length of hearings and...

11 A. Well, as we also say elsewhere in the report,
12 shifting to a PBR doesn't necessarily reduce costs
13 because you will be conducting different
14 activities.

15 Q. **[288]** Okay.

16 A. But what... one of the reasons many regulators
17 pursue it is because what the focus is then on, is
18 on higher value added activities. So, instead of
19 reviewing costs annually, without really being able
20 to step back and see what might be achievable in
21 terms of greater efficiencies over the long-term,
22 you are setting it for a longer term. So, you're
23 not having that very detailed cost review. But
24 instead, you're perhaps going to put the resources
25 into doing, you know, total factor productivity

1 tests, which are detailed analytical or
2 benchmarking studies. So, you may be directing the
3 resources into another, potentially, higher value
4 added activity.

5 Q. **[289]** Okay. I understand, thank you very much.

6 A. Oh, and I guess another thing is that it also, for
7 the utility, instead of having such a large
8 proportion of its activity being preparing and
9 mounting an application every year, it can actually
10 use some of those resources to be doing things like
11 finding greater productivity.

12 Q. **[290]** I understand.

13 A. So, instead of just creating great applications,
14 they can be using those resources in other ways.

15 Q. **[291]** Okay. Thank you very much for this answer.

16 And my question, on page 34 now, relates to more or
17 less what we've just discussed. At page 34, lines
18 10 and 11,

19 Fifteen years has passed since the OEB
20 began the process of implementing PBR.
21 Key factors in the success achieved by
22 the OEB to date include:
23 Developing clear policies using
24 transparent process that allow for
25 significant stakeholder participation.

1 So in these PBR, well in these hearings under a PBR
2 regime, the participation of stakeholders, can you
3 describe what it is as opposed to the participation
4 under a COS regime?

5 A. So, in that example there, as Ontario as gone
6 through its evolution and developing each
7 generation of its PBR, it has had very broad-based
8 stakeholder activity, so the whole suite of
9 interveners, maybe there's a dozen kind of key
10 interveners, are involved in those setting the
11 principles, setting the design parameters.

12 Then when a specific distributor applies
13 under that framework, there may be fewer
14 interveners that participate because in Ontario
15 some of the distributors are very small. So because
16 the interveners have had... have helped shape what
17 the broad principles are and what the basic design
18 features are, they then feel it's not as necessary
19 for them to be involved in the detailed
20 application...

21 Q. **[292]** Okay.

22 A. ... for a particular distributor. So that reduces
23 the costs overall...

24 Q. **[293]** Overall.

25 A. ... and for that particular distributor. But they

1 still had that input in determining, you know...

2 Q. [294] Initially.

3 A. ... will there be earning sharing, what should the
4 term be, what should the productivity factor be.

5 Q. [295] Okay.

6 A. So those parameters.

7 Q. [296] So the involvement is really at the beginning
8 and then, after, it depends on each particular
9 request.

10 A. Yes.

11 Q. [297] Okay. At page 38 of the report, protection
12 against, well... So page 38, line 24,

13 Protection against the deterioration
14 of service quality was seen by the AUC
15 as a key component of a successful PBR
16 regime. The AUC's model therefore
17 sought to ensure that service quality
18 was not compromised in pursuing cost
19 reductions.

20 Can you explain in more details why a PBR regime
21 can lead to a deterioration of service?

22 A. I guess it goes back to, it's a characterisation,
23 it's very broad brushed characterisation that cost
24 of service leads to perhaps overinvestment because
25 that's what the shareholder earns a return on. But

1 likewise, imposing a PBR type regime can lead to
2 service deterioration because the incentive then is
3 to cut costs so what you want, what the regulator
4 wants the utility to do is to become more
5 productive so, in other words, still deliver the
6 same service but do it for less cost.

7 Q. [298] Uh-huh.

8 A. But the easiest way to cut, you know, is to just
9 cut costs and perhaps to have service deteriorate.
10 So that was a situation that, in the early days of
11 introducing PBR in the U.K., that's sometimes what
12 happened, is the costs were cut dramatically but
13 there were significant customer complaints around
14 service so there was a very early recognition that
15 because there would be that incentive, you needed
16 to put in complimentary requirements to ensure that
17 what you were really getting the companies to do is
18 to become more productive, not to sacrifice service
19 quality.

20 Q. [299] Okay. And if you continue in the paragraph,
21 you talk about measures to take in order to avoid
22 this problem. But are these measures, is this the
23 only measure or... Are they efficient these
24 measures? I mean, because you said there's two
25 opposites: on one hand, you say that cost of

1 service leads to over expense and the other... But,
2 you know, are they measures just to reach a middle
3 ground in the PBR regime?

4 A. Well, this is an example of how Alberta...

5 Q. **[300]** Okay.

6 A. ... has chosen to address the issue. So not
7 everywhere uses penalties, but almost every, all of
8 the frameworks that I'm familiar with certainly
9 require at least reporting, so that there's a
10 monitoring of what is going on.

11 Q. **[301]** Okay.

12 A. And there may even be, I believe there may even be
13 somewhere there's even an incentive if there's
14 exceptional service, that there's the potential
15 for...

16 Q. **[302]** Okay. But you need a deterrent. I mean, the
17 only reporting... If there's no deterrent, then why
18 would the utility...

19 (15 h 38)

20 A. Well, and there are often arguments as to whether
21 reporting is a sufficient deterrent.

22 Q. **[303]** Okay.

23 A. Mr. Todd spoke earlier about often, transparency
24 can be an effective tool to modify, to encourage
25 different behaviour; it may not be sufficient but

1 it's one of the tools.

2 Q. **[304]** Okay. And the penalty, has it been applied or
3 used? Or you aware that... you know, because it's
4 one thing to have penalty in the regime but are you
5 aware if that led to, you know, hearings on, you
6 know, on that particular aspect of the regime? It's
7 just...

8 Mr. JOHN D. TODD:

9 A. I'd...

10 Q. **[305]** Yes?

11 A. The reference is there. This is... in Alberta, my
12 recollection is there have been the possibility of
13 penalties raised in proceeding a couple of times,
14 but as far as I'm aware, just the proceedings I'm
15 aware of, they did not end up imposing penalties.

16 Q. **[306]** Okay.

17 A. But they're actively considered.

18 Q. **[307]** Perfect. And I know I have three more
19 minutes, so I'll ask one more question and I'll
20 have maybe two or three written questions for
21 tomorrow. Just trying to... So, I will... at page
22 77, section 9.2.4, the... so, you write about the
23 Norwegian model. It says, and one bullet... the
24 last bullet is:

25 External benchmarking requires a

1 cooperative effort so that the
2 required data can be collected on a
3 consistent basis, and be audited for
4 accuracy.

5 Here in Québec, since we're a monopoly, probably
6 that we need to use external benchmarking. And you
7 write here in page 77 that it can be, it's not
8 necessarily replicable in other jurisdictions. I
9 was wondering about the external benchmarking and
10 the cooperative effort, can you just expand on
11 these difficulties and, you know, what step can be
12 taken in order to obtain such a good external
13 benchmarking?

14 A. Norway is the prime example here. Transmission,
15 initially, they... the regulator negotiated to
16 arrange for a comparator which was Sweden. So, they
17 had one comparator which was really not sufficient
18 but it got them started. And, subsequently, I think
19 they've gone through two iterations of expanding
20 the sample size by negotiating with other European
21 regulators to create a group who were sharing data.
22 And, in effect, the regulators doing benchmarking
23 of European utilities, which tried to correct for
24 differences in their operating territories.

25 So, number 1, it took a number of years to,

1 number 1, find people who are prepared to partner
2 with you; and then, develop the data, the
3 accounting information that was consistent so that
4 you could actually use it in the benchmarking
5 study, because you have to have consistent or, at
6 least, take financial information and modify it
7 into a consistent format for comparison purposes.
8 And they were successful, ultimately, in creating a
9 fairly good sample size that they, at least,
10 believe provides them with a good... good date,
11 good benchmarking information.

12 Q. **[308]** But are you aware of... these types of
13 efforts in North America or in America?

14 A. Well, there is... most companies in North America,
15 regulator or not, do benchmarking studies for
16 internal purposes to help them identify how they're
17 stacking up within their industry and identify
18 areas to improve. So, benchmarking is a very widely
19 used methodology for understanding your business
20 and looking for ways to improve. It is not used for
21 regulatory purposes at this time.

22 Q. **[309]** Okay. Merci.

23 LA PRÉSIDENTE :

24 Merci. Alors, maître Turmel pour les questions de
25 l'AQCIE-CIFQ, s'il en est.

1 EXAMINED BY Me ANDRÉ TURMEL:

2 Q. **[310]** Il y en a, mais moins. Alors, Madame la
3 Présidente, pour votre compréhension. Et, alors, je
4 vais tenter d'être efficace. Bon, hello again to
5 the panel. So, we go directly to page 26 of the
6 report. Page 26, you do discuss in your
7 observations the tradeoff that you mention between
8 earnings sharing mechanism and PBR. I'm at page 26,
9 lines 5 to 12, and then, so there's a discussion,
10 you tried to weight the different approaches and
11 then, you conclude at lines 23 and 24:

12 Hence, the more challenging the
13 embedded productivity target the less
14 justification there is for earnings
15 sharing mechanism.

16 So, end of quote. So are you saying that, in fact,
17 an ESM can not live along with a BPR mechanism,
18 here? You're not saying that, right?

19 (15 h 44)

20 Mr. JOHN D. TODD:

21 A. No. I'm not saying that.

22 Q. **[311]** Okay. Would you please just expand a little
23 bit on that?

24 A. Within any PBR regime, a goal is to ensure that the
25 customer benefits from lower costs and lower rates,

1 but the incentives means the company must also
2 benefit by having a portion of the cost savings.
3 The earnings sharing mechanism in its simplest form
4 says: here is, in the past, you had productivity
5 gains of one percent (1 %) a year. So going
6 forward, we'll assume you have one percent (1 %) a
7 year, and if you do better than that, we'll be
8 sharing, say fifty-fifty (50-50), both sides win.

9 An alternative is to say: we're going to
10 give the customers a one percent (1 %) savings, so
11 you're going to have a productivity assumption, in
12 setting rates, of two percent (2 %). So customers
13 will be doing one percent (1 %) better than they
14 have done in the past. If you can do better than
15 two percent (2 %), you keep all of it. So it's
16 just, it's a different way of approaching sharing
17 between the customer and the company.

18 Q. **[312]** Okay. Thank you. Now, with respect to the
19 process, when the Régie will launch the detailed
20 PBR, the PBR process has already been launched, but
21 the detailed process moving to the next step, what
22 should be the starting point in relation to HQT,
23 HQD cost of service? Should the Régie, and I
24 don't... I know that you're not, shall not go into
25 the detail of HQ; but as a general concept, the

1 starting point perspec... analysis of the cost of
2 service, should we have an exhaustive first time
3 starting point, a strong analysis of the cost of
4 service or we should do it as a normal way of doing
5 business?

6 A. The conventional approach is that you have to have
7 a cost of service to set cost based rates as a
8 starting point. That is normally just done as a
9 traditional cost of service. So, you probably,
10 there are some cases where they did not have that,
11 as in Ontario, where there was no regulatory regime
12 before, there had been no cost of service. And
13 essentially, the first cost of service review, as
14 in Ontario, were historic costs. So the cost of
15 service in two thousand and six (2006); they just
16 said: file with us your two thousand and four
17 (2004), which are actuals. So there's no cost to
18 defend, this is what they actually spend. And that
19 became the base starting point.

20 Q. **[313]** Okay.

21 A. But given that you have a cost of service history,
22 you would take... you would have a first-year cost
23 of service application which probably would be the
24 starting point of the regime. So it would be after
25 you decided on the regime, that you will have cost

1 of service, which may, because you're about the
2 measures, may say: it will be slightly enhanced.
3 Because if you're going to be monitoring
4 performance measures, that cost of service base
5 review would probably include information filing
6 for monitoring performance, performance indicators
7 such as reliability and so on. Many of those are
8 already filed on a regular basis, I mean, the
9 regulator expects reliability information, it's
10 part of the filing.

11 When Ontario introduced the score card of
12 the seventeen (17) measures, I think fourteen (14)
13 were already being filed, some for five years or
14 more. So, a lot of that information is already
15 available, but it may be enhanced.

16 Q. **[314]** Thank you for your answer. In a jurisdiction
17 where test year is being used as a cost of service
18 analysis, that's the fact in Québec, as you know;
19 in launching the process, knowing that we've been
20 using test year for the last year, and may have
21 lead to over earnings, as you may have heard, but
22 that's not the issue. Should we base our the cost
23 analysis using last historical year and place of
24 test year, knowing that test year may have lead to
25 some over earnings, or do you see an important

1 point here of choosing which test or which year,
2 sorry, to use?

3 A. Some jurisdictions still use an historic test year.

4 Q. **[315]** Yes.

5 A. They're concerned with that around what's called
6 regulatory lag, because those costs are old costs,
7 not current costs. I think the last jurisdiction
8 was Manitoba in around nineteen ninety (1990),
9 converted to future test year.

10 (15 h 49)

11 So, that's generally accepted as the
12 appropriate base. If there's over earnings, that is
13 meant to be addressed through the cost of service
14 review and disallow some costs and, even in a cost
15 of service regime, the regulator can say, relative
16 to the historic year, or the bridge year, that
17 there should be some productivity built in and it's
18 not there.

19 So one of the things that happens with cost
20 of service reviews, you know, the rebasing every
21 three, four, five years in different regimes in
22 Ontario, is often the negotiations where
23 essentially a formulaic approach. You'd say, "Well,
24 we'll give you inflation minus a productivity and
25 let's argue over how much productivity is

1 appropriate for you as a particular LDC."

2 You can do that as part of a cost of
3 service to come up with the right number on an
4 envelope basis for the test year. Then you flow
5 into your formulaic adjustment and rates from your
6 year, or revenues.

7 Q. **[316]** Okay. Thank you. I know that you've discussed
8 at length that question, but let's discuss a little
9 bit about revenue cap versus rate cap. Generally
10 speaking, are you favouring yourself a method, one
11 or the other, with one to, well, install that
12 process, not install, but launch the process of
13 PBR? Is there a better method to be used as a,
14 well, being commonly used elsewhere, starting with
15 revenue cap or rate cap?

16 A. Ultimately, what the Régie sets are rates.

17 Q. **[317]** Yes.

18 A. A rate cap is the sort of logical way to go that we
19 have a rate today, we're going to adjust a rate by
20 a formula from year to year. The exception to that
21 standard simple rule, and took me lots of reasons
22 that you might argue about that, but the standard
23 exception to that is for transmission where you say
24 there can be significant changes in volume
25 throughput and even though the volume throughput

1 changes, there will be essentially no change in
2 costs. So, a simple example, could Hydro-Québec
3 stimulate a lot of new point to point service, you
4 know, wheeling power through the province and
5 increase its revenue with existing facilities, no
6 change in costs. I don't know the answer to that
7 question, but that may be an opportunity to
8 significantly increase revenues, in which case the
9 Régie may say, "Well, what we should be doing is
10 capping revenues in total and hopefully they
11 generate additional revenues, whether it's
12 fortuitous or not but those extra revenues then,
13 instead of going to the bottom line as net income,
14 would go into a deferral account and get fed back
15 to customers."

16 Similarly, if there is a high risk that due
17 to weather factors, for example, or economic
18 drivers, throughput goes way down but costs stay
19 exactly the same, it's protection for the company
20 to say, "We have a revenue cap and if our
21 throughput goes down in a completely unanticipated
22 way and our costs are the same, we get to put that
23 shortfall in a deferral account and collect at a
24 later year."

25 Q. [318] Okay. Thank you. So now we'll go through what

1 remains of your report being not untouched, if I
2 may so. This morning I have alluded to that
3 question, but it's written at page 1 that you wrote
4 that,

5 A regime that works well with
6 shareholder-owned utilities may be
7 less effective if used to regulate a
8 crown corporation.

9 I have another set of question, I don't want to
10 repeat all of this morning, but so even if
11 regulation of a Crown corporation is less effective
12 as you said, should the regulatory system of a
13 Crown corporation therefore be different? If it's
14 less effective, it brings...

15 A. Okay. The important word in that sentence is "may".

16 Q. **[319]** Okay.

17 A. You have to look at context.

18 Q. **[320]** Yes.

19 A. The first question is: does the regulator leave
20 that the Crown corporation is acting just like a
21 shareholder company and will respond to financial
22 incentives?

23 Q. **[321]** Okay.

24 A. If the response to that question is yes, it's no
25 different. And there definitely are Crown

1 Corporations, utilities that act just like a
2 shareholder-owned company and are very responsive to
3 financial incentives and penalties.

4 On the other hand, if the belief is they
5 will not be responsive, that if you give them a
6 productivity target they will actually not
7 implement productivity measures, but will simply
8 take a lower net income, then you may want to say,
9 "Okay, how do we motivate them?" and that would be
10 a context specific answer to that question.

11 Q. **[322]** Okay. So no special treatment, it depends on
12 the context. This is what I get.

13 (15 h 54)

14 R. Sort of do whatever works.

15 Q. **[323]** Yes. Okay, thank you. Would you please
16 confirm that multi-year rate plans, MRPs, with
17 attrition relief mechanism, based on industry price
18 and productivity trends are now employed for energy
19 distributors in Alberta, BC, and Ontario? Is
20 that...

21 A. Yes. Sorry...

22 Q. **[324]** Yes, well, I have no link to your report. I
23 just...

24 A. Yes.

25 Q. **[325]** ... it's a general question stemming from the

1 subject. So, if you have... if you're able to
2 answer, okay, if not, it's okay.

3 A. I didn't quite catch the question.

4 Q. **[326]** Okay, I'll repeat.

5 A. Yes.

6 Q. **[327]** Okay, so, well, multi-year rate plans, okay?

7 A. Yes. As in Consolidated Edison?

8 Q. **[328]** That could be, but I'm talking now about
9 Canada.

10 A. Yes.

11 Q. **[329]** MRPS with attrition relief mechanism, based
12 on industry price and productivity trends, are now
13 employed for energy distributors in Alberta, BC,
14 and Ontario. Is that something that you are aware
15 of?

16 A. Yes. It's terminology. I guess it's the multi-year
17 plans, I mean all the PBR plans, the multi-year
18 plans. And if they have a plan in costs, there...
19 yes, there are those regimes in Canada.

20 Q. **[330]** Okay.

21 A. That's one of the options in Ontario, for example.

22 Q. **[331]** Okay, but those ones are specified with
23 attrition, I believe, mechanisms based on industry
24 price. I think that's the focus of the question.

25 A. Based on industry price?

1 Q. **[332]** Yes.

2 A. Do we say that?

3 Ms. CYNTHIA J. CHAPLIN:

4 A. I'm sorry, if what you are referring to is a
5 formulaic annual adjustment related to inflation
6 and productivity, then the answer is yes.

7 Q. **[333]** Okay. Yes, I think sounds better this way.

8 Mr. JOHN D. TODD:

9 A. Okay.

10 Q. **[334]** Many of the PBR approaches you have surveyed
11 have utilized statistical benchmarking, you
12 mentioned that, do you believe that it is... that
13 this is a generally desirable component of PBR that
14 should be short-listed as a... for consideration by
15 the Régie? Meaning that using that method, is that
16 something strong enough?

17 A. It's definitely worthy of consideration.

18 Q. **[335]** Okay.

19 A. It requires a lot of work and you have to
20 determine, number 1, you have the data, and number
21 2, it's worth the effort, given all your objectives
22 and the broader issues.

23 Q. **[336]** Okay. Now, discussing some questions on price
24 cap and revenue cap regulation. I think you have
25 referred to... in the U.K., just want to make sure

1 that the... I think, do you know Dr. Littlechild?

2 A. Not personally, but yes, I...

3 Q. **[337]** Yes. Okay.

4 A. ... I'm very familiar with his work.

5 Q. **[338]** Perfect. And I think that... would you please
6 confirm that his approach to PBR, which involves
7 rate escalation based on multi-year cost forecast,
8 was first applied to British Telecomm utilities in
9 the mid-eighties (mid-80's)?

10 A. Yes.

11 Q. **[339]** Okay. Would you also confirm that an
12 alternative form of PBR with rate escalation based
13 on industry input price and productivity trends -
14 that sounds like Madam Chaplin - arose
15 independently in the US and was first used there in
16 the railroad and telecom regulation in the eighties
17 (80's)?

18 A. Yes.

19 Q. **[340]** That's good for... Yes?

20 A. At least... at least the eighties (80's). I mean, I
21 think... we think we mentioned earlier forms of...

22 Q. **[341]** Yes.

23 A. ... what could be called price cap regulation, go
24 back a hundred (100) years.

25 Q. **[342]** Okay.

1 A. The literature talks about this extensively for
2 many decades before any regulators implemented
3 them.

4 Q. **[343]** Now, let's discuss a little bit about the
5 development of PBR itself. One question here: in
6 capital intensive industries, such as power
7 transmission and distribution, are premature
8 capital expenditures, capex, a potential problem,
9 as well as the inefficient deferral of capex? I
10 want to have your view on that.

11 A. Yes, I mean the classic concept referred to is gold
12 plating of... you may get a return on capital. It
13 would be consistent with that to make early
14 investments.

15 Q. **[344]** Yes, Okay.

16 A. We're talking concepts here.

17 Q. **[345]** Okay, now going on page 25, we're a page away
18 from the end. On page 25 of your report, you state
19 that:

20 Most PBR regimes have automatic rate
21 adjustment formulas, predetermined
22 periods between the rates reviews and
23 the reliance on external productivity
24 standards.

25 (16 h 00)

1 My question here is: should the proceeding be
2 informed by evidence on external productivity
3 standards?

4 A. To the extent you can. External productivity
5 standard, that is in the context of the OEB, right?

6 Q. **[346]** Yes.

7 A. And one of the concerns of the OEB was that when
8 they looked at labour productivity, waged
9 settlements tended to flow one LDC to the other,
10 and there's sort of a self-reinforcing, what you
11 say, inflation wages. And therefore, there's a need
12 to look outside the industry for comparative wage
13 scales, for example, what's appropriate pay levels
14 which links to productivity, cost of labour versus
15 what of the productivity labour. And similarly,
16 where you're doing comparison, where you have a lot
17 of companies within the industry, comparing those
18 companies may be comparing inefficient companies
19 and saying: well, they're all equally inefficient.
20 Therefore, they're all efficient. Right?

21 So the concept was if you want to look
22 outside to make sure that they were efficient
23 compared to competitive industries for doing the
24 same types of activities.

25 Q. **[347]** Thank you very much. Now, I'm moving to page

1 27 at lines 20 and 21, in the observations section.

2 You mention about:

3 One approach is to undertake
4 negotiations or an alternative dispute
5 resolution processes after the
6 regulator has set out the objectives
7 and/or criteria for PBR.

8 Would you explain what you mean by, I'm sorry if
9 you've already been asked the question before, but
10 what do you mean by alternative dispute resolution,
11 here? I know what it is, but in that context? And
12 why it might be helpful in the design of PBR plan?

13 Ms. CYNTHIA J. CHAPLIN:

14 A. Well, I can give an example. In the case,
15 historically, in Ontario, for example, forum, there
16 was initially, it was called the Natural Gas Forum.
17 So it wasn't a specific hearing, but it was a
18 process by which the Board investigated what the
19 design parameters should be for that next
20 generation of natural gas PBR. And so, that set out
21 some standards and expectations. And so, that was
22 done and fully decided and determined and
23 established by the Ontario Energy Board.

24 The gas companies then went and, at least
25 one of them was then successful and actually they

1 made an application, but in the hearing process,
2 there was a settlement process. And because they
3 reached a settlement, that was broadly aligned with
4 the parameters that the Board had set in advance,
5 so the Board found that to be acceptable, so that's
6 an example.

7 Q. **[348]** Okay.

8 A. More recently, the Ontario Energy Board has looked
9 at a number of custom IR applications. So these are
10 the more complex PBR regimes that are being set up.
11 And so, for some of those, the Ontario Energy Board
12 said that it really didn't want to have a
13 settlement process as part of the hearing, until it
14 had heard a few of the cases completely. But it has
15 now just recently accepted an negotiated settlement
16 for one of the utilities, for this form of
17 framework, this custom IR, it has now accepted it.
18 So...

19 Q. **[349]** Okay. Thank you for that's very helpful. But
20 if, at the end of the day, that settlement doesn't
21 work, I mean the negotiation, so they go back to
22 the Board and there's some sort of an arbitration?
23 Is that sort of...

24 A. Yes. The...

25 Q. **[350]** Okay.

1 A. The settlement process, generally speaking, is part
2 of the overall hearing process. So it's an
3 opportunity for the parties to get together to
4 discuss if either they can settle all of the issues
5 or some of the issues. So whatever is not settled
6 would go to the oral hearing and be adjudicated
7 that way.

8 Q. [351] Finally on that, so I understand that an
9 arbitration approach, would that make sense, for
10 example, if the regulator chooses the most
11 reasonable X factors amongst those proposed by the
12 parties, if they can not settle? Would that be some
13 kind of a, something that you know? It looks like
14 or it smells like what you described?

15 A. Yes. I mean, I don't have direct experience with
16 that particular scenario, but by in large, the PBR
17 regimes in Ontario that have been negotiated,
18 they've been negotiated as an entire package,
19 because it involves tradeoffs in terms of what the
20 parties are prepared to accept.

21 Q. [352] Thank you. Un instant. Je pense j'ai terminé.
22 Je vais vérifier avec monsieur... Alors pour être
23 efficace, le reste des questions, on le déposera
24 par écrit, en espérant qu'elles soient retenues par
25 la Régie. Merci de votre patience. Thank you very

1 much for your patience.

2 LA PRÉSIDENTE :

3 Merci Maître Turmel. Nous entendrons maintenant
4 Maître Fraser.

5 EXAMINED BY Me ÉRIC FRASER:

6 Q. **[353]** Merci Madame la Présidente. Bonjour Madame et
7 Monsieur les Régisseurs. Good afternoon to the
8 panel, Mr. Todd, Ms. Chaplin. It's been a long day.
9 I'll try to be short, but I will not try to speak
10 too fast, compassionate, maybe. I'm always
11 compassionate. So let's go.

12 Let's start with some methodology question.
13 I understand, from your testimony previously this
14 morning, that the selected sample of the
15 jurisdictions you chose was... had the objective,
16 mainly of giving a general picture and overview of
17 the principal parameters of PBR, is that correct?

18 (16 h 06)

19 Mr. JOHN D. TODD:

20 A. The initial review was to identify what
21 jurisdictions had PBR regimes and to get a high
22 level understanding to help us select a set that
23 could be reviewed in detail economically.

24 Q. **[354]** Okay. You were not in the world of trying to
25 search for comparables?

1 A. No.

2 Q. **[355]** Would you agree that from the jurisdictions
3 you studied that probably the most important
4 objective number 1 would be to attain with PBR some
5 cost reduction or cost efficiency? That would be
6 the number 1 objective?

7 A. As a generalisation...

8 Q. **[356]** Yes.

9 A. ... yes.

10 Q. **[357]** And could we say that the number 2, and
11 mainly from the jurisdiction you studied and I
12 think especially at Ontario that streamlining of
13 the regulatory process is also one of the main
14 objectives that was looked for by the Board in the
15 jurisdictions you looked into?

16 A. Yes, but not always. I mean, certainly in Ontario
17 that was a necessary, perhaps that was even number
18 1, that you had to have a streamlined regulatory
19 process. Others, where they were creating new
20 regimes, U.K., Australia for example, again, just
21 to manage the new industry, they needed an
22 efficient...

23 Q. **[358]** Yes.

24 A. It was looking for an efficient process so that was
25 a very high priority. I think in Alberta, which

1 came in more recently, it was not about
2 streamlining their process, the did a very lengthy
3 process to bring in the system. It was probably
4 more just "We want to get costs down in the
5 industry."

6 Q. **[359]** We've noticed, still in the same line of
7 questioning from Hydro-Québec, we've noticed that
8 all of the jurisdictions you've chosen regulate a
9 fairly large amount of utilities - that's why I
10 asked the first question. Ontario is the example, I
11 think that in the report we say that there's about
12 seventy (70) electric distributors that were...
13 Norway, am I correct if I say there was a hundred
14 and sixty (160) electric distributors in Norway?

15 A. Distributors, yes. One transmission company.

16 Q. **[360]** And one transmission.

17 A. Norway was there mainly because of its transmission
18 experience.

19 Q. **[361]** Okay. The PBR was put in place mainly for the
20 transmission?

21 A. No, no, Norway was selected...

22 Q. **[362]** Yes...

23 A. ... because it's one of the three that were there
24 because they are a transmission regulator, they
25 regulate essentially one transmission company.

1 Ontario also although we are looking at them for
2 distribution. It has a small number of transmission
3 companies.

4 Q. **[363]** Okay. But the hundred and sixty (160)
5 electric distributors are regulated under PBR?

6 A. That's correct. In Norway, yes.

7 Q. **[364]** In the U.K., I think there's six electric
8 distributors and three trans co, is that correct?

9 A. Yes.

10 Q. **[365]** Alberta, eight electric distributors?

11 A. It sounds right, in that ballpark, yes.

12 Q. **[366]** Australia, is that correct that there's
13 approximately thirteen (13) electric distributors?

14 A. Across the different states, I'm not sure the
15 number but it sounds about right.

16 Q. **[367]** Okay. And for New York, if I say forty-seven
17 (47) is that roughly a right number?

18 A. Yes, but the regulatory regime is Consolidated
19 Edison specific.

20 Q. **[368]** Okay.

21 A. It's sort of done differently there. They were not
22 looking at a PBR regime for the New York PSC, it
23 was for Consolidated Edison.

24 Q. **[369]** Thank you. I know that the report doesn't
25 specifically in one section talk about the

1 implementation strategies. I know that it is talked
2 all over the report and you have testified this
3 morning on some of the... let's say, best practices
4 or objectives you will want for properly
5 implementing PBR.

6 (16 h 11)

7 Is it fair to say that pacing is an
8 important thing? Like taking time to put in place
9 the proper regime and having the engagement of all
10 the stakeholders, as one of the main preoccupation
11 a board must have?

12 A. There... it is important to allow sufficient time
13 to design the regime, intelligently.

14 Q. **[370]** Uh-huh.

15 A. That is not something that is done while watching
16 TV at night. At the same time, there is a need to
17 move forward. So, that does not... you know,
18 there's a limit to taking time to think about
19 things.

20 Q. **[371]** Okay. So, it's the pacing, it's the...

21 A. It's pacing...

22 Q. **[372]** ... the right amount of...

23 A. ... it's a balance. It's a bal...

24 Q. **[373]** A balance.

25 A. ... you don't want to rush it but you don't want

1 any dragging of feet.

2 Q. **[374]** Is it fair to say that stability and
3 predictability are also objectives you want to
4 attain? You don't want to rush things. You don't
5 want to disturb everything while implementing?

6 A. First, you develop a plan, and then, you implement
7 the plan. If you're going down a path of a plan
8 that may be, if it's predictable... change can be
9 predictable, but change can also be significant.
10 It's still predictable, and people have time to
11 adapt for it. Admittedly, I think we would say that
12 most regulators have gone down the path of
13 evolution not revolution.

14 Q. **[375]** Okay.

15 A. And there seems to be good reasons for that.

16 Q. **[376]** Would you say that size and scale is an
17 important... and geography of service area is an...
18 of a particular utility, is an important
19 consideration in designing an effective PBR
20 programme?

21 A. Not necessarily for the design of the PBR. If
22 you're doing things like benchmarking, those issues
23 need to be taken into account.

24 Q. **[377]** Uh-huh.

25 A. Norway, for example, one of the issues they ran

1 into was that small utilities had different cost
2 structures than large utilities. And when mergers
3 took place, that created a problem because the
4 costs that were allowed for larger utilities were
5 lower than costs for small utilities; therefore,
6 they had a disincentive to merge. But, so, if
7 you're talking, cost structures are different,
8 depending on scale, yes; if you're talking about
9 the design of a PBR regime, by and large, similar
10 regimes to apply to large utilities and small
11 utilities, there may be some features that are
12 unique, depending on size. But that's all part of
13 the context.

14 Q. **[378]** Okay. So, it will all come down to cost
15 structure because of geography or size and scale,
16 having an impact on cost structure.

17 A. But that affects the way you do benchmarking, but
18 that's not really the design of PBR.

19 Q. **[379]** I see. You testified... I think it was you,
20 Ms. Chaplin, that BCUC uses PBR for regulating
21 electric distributors or...

22 A. I probably referred to that because I was the one
23 involved in those creation of those regimes.

24 Q. **[380]** Okay. But BCUC uses PBR either for gas or
25 either for electricity distributors or...

1 A. Yes, it implemented PBR for all... both gas and
2 electricity, starting in the early nineties (90's).

3 Q. **[381]** Okay. I understand that BC Hydro is not
4 regulated with a PBR regime.

5 A. I thought you were going to cut off the sentence at
6 "not regulated," but, yes, and I don't think it
7 every was subject to a PBR regime.

8 Q. **[382]** Okay. I'm asking you that because BC Hydro is
9 often referred as a comparable to Hydro-Québec and
10 I was wondering why... if the regulator has
11 employed PBR, he does not employ it with BC Hydro.

12 A. I don't know what was in the head of the regulator
13 for that... for that reason. I know there are...
14 there's special legislative issues around BC Hydro.
15 So, there may be legal reasons that I'm unaware of.
16 And also there were some structural changes,
17 BCTC... BC Transmission Company was split off and
18 then was reintegrated.

19 Q. **[383]** Brought back together.

20 A. So, those kinds of disruptions would have made PBR
21 a little more difficult than other circumstances.
22 Plus within the whole, all the export issues need
23 to be addressed separately. They do not have this,
24 the same separation of distribution, transmission,
25 and generation, although there is the, sort of an

1 export arm. So there are complexities there. I was
2 not involved in any exercise to explore PBR for BC
3 Hydro and I don't think there ever was one.

4 Q. **[384]** Okay. I understand from your report that you
5 referred to two Canadian jurisdictions, you
6 referred to one American jurisdiction, which, from
7 a quality perspective, I know that they're
8 representative, but from a quantity perspective, it
9 seems to be relatively few. Would it be fair to say
10 that most North American jurisdictions have not
11 formally adopted PBR?

12 A. Yes. And there was this survey that was prepared,
13 and I forget by whom, which is cited here, and I
14 think a copy was made available on the Régie's
15 website, which was a survey of what they called
16 alternate regulation in the U.S., a chart which
17 goes through all the jurisdictions and what they
18 have in the way of alternative regulation. And if
19 you go through that, very few of those, in my view,
20 would qualify as the kind of PBR we're talking
21 about.

22 Q. **[385]** Okay. And while preparing your report, do you
23 know why there's so few, well not so few, but that
24 most North American jurisdictions do not have
25 formally adopted PBR?

- 1 A. That is a decision made by individual state
2 regulators. I would suggest that there's a
3 correlation between small jurisdictions, both in
4 Canada and in the U.S., and jurisdictions that do
5 not have PBR, which suggests to me that to address
6 PBR requires a higher degree of sophistication than
7 exist with the average regulator in North America.
8 Look...
- 9 Q. **[386]** Okay.
- 10 A. ... New York PSC, Ontario BC; these are the larger
11 regulators, those with the most resources, those
12 who have more sophistication to look at total
13 factor of productivity studies, all that kind of
14 thing. Not necessarily definitive, but there's a
15 correlation there.
- 16 Q. **[387]** Looking at transmission, again, same type of
17 line of question, you have no North American
18 transmitter in your report. Is it because that
19 there is very few or many no transmitter that is
20 regulated with PBR? I heard you speak about Enmax,
21 but... Question is: is it because there are very
22 few North American transmitters?
- 23 A. Compared to the number of distributors, yes,
24 there's fewer.
- 25 Q. **[388]** But there's still a transmitter per state,

1 so, at least, so...

2 A. Transmission in the U.S. is very different than
3 Canada. So Ms. Chaplin's comment, side comment to
4 me was that of course, there are merchant
5 transmitters, which are a bit of a different
6 treatment. In some jurisdictions, multiple
7 transmitters within a state, and there's inter-
8 connexions, all the trans-borders jurisdictions,
9 it's a... it's much less of a stand-alone system
10 than compared to Ontario or compared to Canadian
11 provinces. So I'm not familiar enough with the U.S.
12 to pursue that very far.

13 But it is transmission grid; it's very
14 different from Canada, which doesn't necessarily
15 rule out the possibility of doing PBR. But there's
16 a lot of cost passthrough, which is kind of the
17 basis of the revenue cap concept, where the concern
18 is investing in transmission capacity. And that's
19 more, there's more focus on projects and passing
20 through costs of projects, as opposed to rate
21 regulation.

22 Q. **[389]** Because of the cost structure?

23 A. Because of cost structure and just...

24 (16 h 22)

25 Q. **[390]** Okay.

- 1 A. ... the emphasis so I think that the regulatory,
2 from what I've seen of the regulatory process in
3 the US, it's far more focussed on projects than on
4 rates.
- 5 Q. **[391]** Okay. And if we look at Canada, there's no
6 transmitter either that is regulated by PBR except
7 maybe for Enmax that I learned today but... That's
8 correct?
- 9 A. And the prospect for Ontario which is a stated plan
10 of the OEB but...
- 11 Q. **[392]** Okay. Is there a reason, speaking of Ontario,
12 that they're at their fourth generation of PBR and
13 still transmission is not regulated with PBR?
- 14 A. The reason is that distribution, in my view, and
15 I'm not inside the head of the OEB, in my view
16 distribution, because of the numbers, has been the
17 high priority and it's still work in process.
- 18 Q. **[393]** Okay.
- 19 A. So they just haven't got, you know, worked down the
20 to-do list to the point of transmission PBR yet.
- 21 Q. **[394]** I see. I understand from your report, and it
22 has been repeated this morning or today, that a PBR
23 will need to reflect the unique circumstances that
24 prevail in Québec, taking into account
25 characteristics that reflect both or separately

1 HQD's and HQT's situation. This is something that
2 comes up in your report a few times, that's
3 correct?

4 A. Yes.

5 Q. **[395]** This morning you had, I'll do the same
6 exercise, at your slide 3 you had a list of things,
7 elements that the design must reflect which is very
8 informative.

9 Ms. CYNTHIA J. CHAPLIN:

10 A. Well those are a list of considerations.

11 Q. **[396]** Considerations?

12 A. It's not a definitive or exhaustive or prescriptive
13 list.

14 Q. **[397]** So I guess that if I were to expand on that
15 list, good practice would also require to take into
16 account things like the regulatory compact, acts
17 regulations, previous decisions of the Board?

18 A. Yes, those would be considerations.

19 Q. **[398]** Past results of the utility? Both on
20 efficiency and customer service?

21 A. Yes, utility performance is a factor.

22 Q. **[399]** We would have to take into account also, I
23 guess, the usefulness and the value of the
24 mechanism, regulatory mechanism and measures that
25 are already in place? Is that fair?

1 A. Yes, that would be part of the current regulatory
2 framework. I believe that's the sort of thing
3 you're referring to so yes, that's...

4 Q. **[400]** Just specific of the framework. When we speak
5 of regulatory efficiency, or streamlining, I
6 understand, and correct me if I'm wrong or expand
7 the subject, I understand that where regulatory
8 efficiency translates it's because there are multi-
9 year rate cases and there are, pardon me the
10 expression, the 'one size fits all' that can be
11 used like it is used in Ontario. Are there other
12 considerations or other impacts or results from PBR
13 that promote regulatory efficiency?

14 Mr. JOHN D. TODD:

15 A. Well, as with PBR talking about efficiency for
16 companies, cost reduction, it tends to be looked at
17 as cost reduction.

18 Q. **[401]** Cost reduction in the regulatory process?

19 A. In the regulatory... So PBR is supposed to improve
20 efficiency, it actually targets cost reductions.
21 Okay? In a regulatory process, I think it's
22 important to draw a distinction between cost
23 reduction, just the cost of regulation and the
24 efficiency of regulation.

25 Q. **[402]** Uh-huh.

1 A. Okay? So streamlining will presumably reduce the
2 cost of regulation: the lawyers' fees, the
3 consultants' fees, the Régie's costs. Efficiency of
4 regulation means a system for the same cost that
5 gets better results in terms of the objectives of
6 the regulator. So, for example, if the regulator's
7 objective is to get lower rates and you end up with
8 lower rates at the same cost, that is an
9 improvement in the efficiency of the regulatory
10 process. You may not save any money, but you have a
11 more efficient process in that it achieves better
12 results given the objectives for the same cost or
13 less.

14 (16 h 28)

15 Q. **[403]** Uh-huh.

16 A. So, if we're talking about regulatory efficiency,
17 the mere fact that you've got a mechanism that
18 works better is arguably creating a more efficient
19 regulatory process, even if the costs are the same.

20 Q. **[404]** I see. But I was more into practical... the
21 practical side of regulatory efficiency, which is
22 reducing the hearing time, reducing the...

23 A. It's cost...

24 Q. **[405]** ... information request, reducing the number
25 of times you have to come up with a... rebasing,

1 let's say, multi-year... more on those aspects.

2 A. Cost reduction, yes.

3 Q. **[406]** I guess, cost efficiency or regulatory
4 efficiency.

5 Ms. CYNTHIA J. CHAPLIN:

6 A. I think what... Yes, there can be reductions by
7 extending the term and therefore, not having as
8 frequent cost of service inquiries. However, I
9 don't think that PBR is seen as a means of reducing
10 the scrutiny or the rigour with which the companies
11 are examined. And that's why I spoke before about
12 perhaps a shift in activities, so broader than each
13 year examining the plan for vegetation management
14 and whether or not it's... you know? That there is
15 broader examination of cost drivers or more
16 analytical work done on benchmarking.

17 So, the objective is not neces... you know,
18 a PBR is not a means of reducing... necessarily
19 reducing the total regulatory burden on a company.
20 What it's doing is shifting it to more productive
21 and more valuable inquiries. But there is this
22 benefit of not having to have an annual rate case.

23 Q. **[407]** Okay, but when we speak of reducing
24 regulatory process, it's in 48.1 that is in your
25 report. Because the example you gave me, you can do

1 it in cost of service. You can decide to be more
2 productive while doing cost of service. You can
3 decide to... one year, not to spend too much time
4 on some items and spend much longer time on other
5 items.

6 So, what is the difference between cost of
7 service and PBR as it is an objective that has to
8 be attain from the board, and as it seems, as I
9 read, but maybe I didn't read correctly, that it is
10 an objective that is attained by implementing PBR.
11 Where do we attain this regulatory streamlining,
12 this regulatory... they say "allégment" in the act.
13 I'll get the translation.

14 Mr. JOHN D. TODD:

15 A. 48.1, sub 3...

16 Q. **[408]** Yes.

17 A. ... the first two streamlining.

18 Q. **[409]** Uh-huh.

19 A. So, there is a mandate for the Régie to use PBR to
20 streamline...

21 Q. **[410]** Streamline the process. Knowing that there is
22 only one distributor...

23 A. Yes. Okay.

24 Q. **[411]** ... my question is: where do we streamline
25 the process with PBR compared to cost of service?

1 Where is the plus? Where do we gain something...

2 A. Okay.

3 Q. **[412]** ... in there?

4 A. As with companies' productivity improvements, many
5 improvements require an upfront investment. So, in
6 the short run, you spend more money in order to
7 implement new technologies or new processes, which
8 then operate more efficiently in the long run. The
9 concept of PBR is that you can't just stop cost of
10 service until you've got your PBR regime. So,
11 you're investing upfront to develop a PBR regime
12 which may not be a one time effort. It may be
13 something that evolves. That's what we normally
14 see. Once you do that, you may have a regime that
15 requires a hearing, a review, a resetting of the
16 mechanism, once every five years. So, you go from
17 annual hearings, to one hearing every five years,
18 for example. That would be streamline. You would
19 have...

20 Q. **[413]** Okay.

21 A. ... an upfront design cost and over the next ten
22 (10) or twenty (20) years, you now have one hearing
23 every five years. And in some examples, like in...
24 with the BCUC, with... as it was then BC Gas,
25 became Tarrison and FortisBC.

1 They set up, I think it was a four year PBR regime.
2 When they came in for re-basing, they took a look
3 at it and said: looking pretty well, pretty good;
4 we'll just tweak the numbers and carry on. And so,
5 in effect, they had a two day hearing instead of a
6 two week hearing, when they came in. So even the
7 review process was actually very streamlined.

8 (16 h 33)

9 Q. **[414]** So I understand that the regulatory
10 streamlining comes from the multi-year formula...

11 A. Right.

12 Q. **[415]** ... or the re-basing between the application
13 of the formula?

14 A. Yes.

15 Q. **[416]** Is there anything else, or is that the main
16 feature of PBR that enables regulatory
17 streamlining?

18 A. That's the main feature that is commonly observed.
19 There may be other jurisdictions' specific savings.

20 Q. **[417]** If we go with the jurisdiction you surveyed,
21 are you able to, or were you able to identify too
22 that the utilities and the Board concerned were
23 successful to relieve, to obtain a relief in the
24 regulatory process, a burden of the regulatory
25 process? Have you been able to verify that?

- 1 A. In the juris...
- 2 Q. **[418]** And the way I say burden, excuse me, I say it
3 evidently, it's the burden of having constant
4 hearings, year to year.
- 5 A. The regulators don't like the word burden, and I've
6 learned that myself.
- 7 Q. **[419]** Well...
- 8 A. It's not regulatory burden; it's regulatory
9 opportunity.
- 10 Q. **[420]** Maybe I wasn't politically correct enough,
11 but...
- 12 A. Several of the juris...
- 13 Q. **[421]** Hard work.
- 14 A. Several of the jurisdictions implemented PBR is
15 really in a new, totally new situation. There's no
16 comparison. The exception would be Alberta. And I
17 think they're still going through the, you know,
18 the early days of refining the process, so the
19 payoff is potentially coming. The New York PSC with
20 the multi-year approach definitely felt that they
21 were saving on regulatory time. So that's the one
22 that will be most, you know, they've gone from cost
23 of service, went to multi-year, they had fewer
24 hearings, they saved on regulatory costs.
- 25 Q. **[422]** Is it fair to say that price cap and revenue

1 cap are the main formula that are used to determine
2 price and revenue in a PBR?

3 A. Yes. They are the common core of most PBR regimes.
4 But in the multi-year...

5 Q. **[423]** Yes.

6 A. ... it can be different.

7 Q. **[424]** I understand that most regimes, when they're
8 using price cap or revenue cap, are also using some
9 kind of a parametric formula incorporating
10 inflation, CPI minus 6. That's correct?

11 A. Yes.

12 Q. **[425]** I also understand that most of the regimes
13 include a service quality performance follow-up
14 using selected indicators? Is that correct?

15 A. Yes. I mean, I would suggest that in most
16 regulatory regimes, there are service quality
17 indicators, I mean, KD, KP type in their..

18 Q. **[426]** Okay.

19 A. I mean, there are measures that all regulators want
20 to monitor around the performance of the company.
21 They become a little more systematic and often
22 broader, and the particular consequences can be
23 introduced with respect to performance on those
24 indicators. It's what happens when you introduce
25 PBR.

1 Q. **[427]** Okay. I also understand that they always
2 started, except maybe for Ontario, with a cost of
3 service exercise, or they're based on a cost of
4 service.

5 A. Yes. You need a cost based initial rates.

6 (16 h 39)

7 Q. **[428]** Is it fair to say that those are the most
8 significant elements of PBR of the utilities that
9 you've studied?

10 A. Personally, I would argue that the most significant
11 element is a consistent and cohesive package of
12 features. All the pieces have to fit together
13 properly.

14 Q. **[429]** Okay.

15 A. And I am uncomfortable with looking at any one
16 feature as being, you know, the key to it all. The
17 cost reduction incentive has consequences for
18 quality service. You need quality service
19 indicators. There may be special circumstances
20 where there's capital that can't be recovered
21 without a capital track or some mechanism so you
22 add that on. You look at the context and you have
23 to build into it all of the pieces that create a
24 cohesive and effective regime. That's why some time
25 is required to think it through and explore and

- 1 make sure we get it right. There's enough
2 experience and that time doesn't have to be
3 extensive. The Alberta regime took a long time
4 because they were doing massive data studies.
5 Without the competing TFP studies, the time that
6 they would have would have been much less.
- 7 Q. **[430]** Yes, I understand. It's a different mix of
8 different measures that will fit with the utility
9 that is under regulation. But I also understand
10 that one or maybe, there's always one of those
11 ingredients in the formula, one or more of those
12 ingredients in the formula and it always comes up
13 with a PBR?
- 14 A. Yes. Well, I think in the report there's a place we
15 go through a couple of the steps.
- 16 Q. **[431]** Yes.
- 17 A. I think it's citing one of the authors and in order
18 to get the incentive, you have to go to multi-year.
19 That's your starting point. If you've got...
- 20 Q. **[432]** Multi-year is the starting point.
- 21 A. You've got to have multi-year so there's time to
22 benefit, that's what the incentive is all about. If
23 you're going to have multi-year, you have to have a
24 mechanism for adjusting rates per year, therefore
25 you get into a CPI-X or something.

1 Q. **[433]** Exactly.

2 A. There's a logical flow that once you take the first
3 step, you know, you don't get to home plate until
4 you go to first base, second base and third base
5 and then home.

6 Q. **[434]** Okay. I see. Thank you. I will ask an
7 hypothetical question but with a practical
8 preoccupation for my client. There is this
9 particular legislative tool that is built in in the
10 Régie's Act that enables the government to express
11 economic, social and environmental concerns with
12 simple orders and counsels. We've had roughly
13 seventeen (17) of those throughout my career, short
14 career, and they can come up anytime. It's not a
15 law, so it's not like you're seeing it coming. It
16 can come up at the middle of a hearing, before a
17 hearing, six months prior to a hearing but when you
18 receive it six months prior to a hearing, you're
19 lucky. Did you encounter similar situations in the
20 jurisdictions you surveyed in your study?

21 A. So Ms. Chaplin, how many directives did the OEB
22 receive during your short time with the OEB?

23 Ms. CYNTHIA J. CHAPLIN:

24 A. I don't remember the number but yes, I mean, it's a
25 fact of life so what you'll see, I mean, one of the

1 features that we reference at the beginning of the
2 report, I think it's at the beginning of the
3 report, the idea that... There were some
4 discussions earlier this morning about Z factors
5 but another factor are what are commonly known as
6 "Y factors" so that may be an issue which is being
7 dealt with in a way that's separate and apart from
8 the overall regulatory regime.

9 So in an example in Ontario, for the
10 natural gas distributors, the monies that they
11 spend on demand side management, so their
12 conservation programmes, is set, that budget is set
13 separately from the PBR regime and so forth, the Y
14 factor. So, there's... PBR regimes are often built
15 with sufficient flexibility to address issues that
16 may arise, which are genuinely beyond the control
17 of a company but are imperatives.

18 Q. **[435]** So, you would manage that with the Y factor
19 or the Z factor?

20 A. That would be one that would be one approach. There
21 may be others, but that's one that immediately
22 springs to my mind.

23 Mr. JOHN D. TODD:

24 A. Assuming and be justified that the impact of a
25 particular directive is significant enough to need

1 special treatment. Many directives may not need
2 special treatment. I can tell you in Ontario, not
3 just... it's not just the Energy Board that
4 receives directives. There are many legislative
5 changes and all distributors in Ontario have
6 been... you know, complain about being continually
7 buffeted with an unpredictable policy environment.
8 And they would... I think, they would unreservedly
9 express a pleasure if they could have the stability
10 of Québec, as our political environment.

11 Q. **[436]** Okay, they do. But when you say that there
12 are many directives, my understanding of it was
13 that many directives were received to come up with
14 a way to regulate. But the directive didn't come up
15 to express any concerns towards one particular
16 distributor or transmitter, one utility, because
17 we're not speaking of regulatory framework. I just
18 want to make sure that you're not referring to
19 directives that led... that were... directives that
20 were on... directed on the regulatory framework.
21 I'm speaking about...

22 Ms. CYNTHIA J. CHAPLIN:

23 A. On the companies.

24 Q. **[437]** ... directives on the...

25 A. On a company having to do...

1 Q. **[438]** ... on the company.

2 A. Yes, and I think within Ontario, there has been
3 significant policy change and political... policy
4 change which has required companies to take
5 specific action. And that is something the
6 regulator then considers whether or not the rate
7 framework was sufficiently flexible to begin with,
8 that it can be absorbed within it, or not. I mean,
9 you're speaking about what is part of that general
10 category of things which is the unexpected happens.
11 Some... and utilities will frequently seek to
12 recover extra costs. And that's something that's a
13 traditional activity of the regulator to determine
14 whether or not that's justified.

15 Q. **[439]** Okay. So, the PBR could manage those order in
16 counsel or... by the government to...

17 A. Well, again, as we said in our beginning... in our
18 opening comments that really, considering and
19 examining and thinking about a particular context
20 in Québec is important to help inform what design
21 features you want to incorporate.

22 Q. **[440]** Okay. Thank you. A few final questions. Mr.
23 Todd, based on your... you have commented on the
24 challenge of measuring outputs. Could you explain
25 how that was done for the utility you surveyed and

1 how long did it take?

2 Mr. JOHN D. TODD:

3 A. I can't separate out the time spent on defining
4 outputs, you know, relative to everything else.

5 Q. **[441]** Uh-huh.

6 A. Certainly, the evolution of the renewed regulatory
7 framework, which included that, it was three years?
8 Yes, so, it was about three years in Ontario. Ofgem
9 was coming up with RIIIO was close to that in
10 itself, in terms of development. Now, in those
11 cases, these were full outcome-based regimes, so,
12 it's much broader. And coming up with output
13 indicators is part of a measure process which is
14 often not the first stage of PBR, in fact, has
15 never been the first stage of PBR. It is something
16 where a more simplified version comes first and it
17 evolves toward that, because a lot of homework does
18 have to be done, and you want to establish
19 baselines, collect data. You can't introduce those
20 kinds of measures in year 1. The Ontario scorecard
21 uses five years of historic data to compare the
22 current year to it, so you can use the fifth year.

23 Q. **[442]** Okay.

24 A. So you know, you want to, you actually want to gain
25 some history before you introduce those kinds of

1 measures. And they fluctuate; the liability
2 fluctuates from year to year, as do most other
3 things. And so, you actually need a trend line,
4 not, you know, one year to compare to the prior.

5 Q. **[443]** Thanks. You also made comments on the
6 challenge that is, that benchmarking offers to
7 utility, mainly in North America. You have been
8 asked a lot of questions about that. Would you
9 agree that there are differences between the use of
10 benchmarking for internal purposes versus the
11 benchmarking used for PBR purposes?

12 A. To me, the primary difference is the risk with
13 respect to how it will be used. The benchmarking, a
14 good benchmarking study for regulatory purposes and
15 for corporate internal use would be essentially the
16 same methodology. They collect data, they want a
17 large sample, they try to identify causes of
18 differences, so that can be factored in analysis.
19 With an internal study, the company can look at it
20 and say, they can explain away bad results, or try
21 to explain away to the bosses bad results. So their
22 interpretation of those results are very much in
23 their control.

24 If benchmarking is used for regulatory
25 purposes, that benchmarking is no longer in the

1 company's control. You've now got a regulator who's
2 going to interpret that data their own way, and
3 make their own decisions, which creates risk for
4 the company.

5 Q. **[444]** So you need to be sure that the methodology,
6 you agree with the methodology used in, you need to
7 be sure that you have the proper information to be
8 sure that there is no misinterpretation, which you
9 can accommodate for internal purposes, but not for
10 PBR?

11 A. You need to use the regulatory... you need a
12 reasonable opportunity to have your input into
13 ensuring that all those things are done. It's just
14 like earning your return. You are, have to have a
15 reasonable opportunity to earn your return, but
16 it's not a guaranteed return. You're in the hands
17 of the regulator. It's a hard life.

18 Q. **[445]** Thank you Mr. Todd. I think I'm finished. I'm
19 just going to check. Ms. Chaplin, Mr. Todd, thank
20 you very much. Madame la Présidente, j'ai terminé.

21 LA PRÉSIDENTE :

22 Merci beaucoup. Alors Maître...

23 Me LOUIS LEGAULT :

24 Madame la Présidente, on n'aura pas de questions
25 additionnelles pour les témoins. Alors il me reste

1 à les remercier. Thank you very much for the day
2 you spent with us. It was very informative and
3 useful and, again, my thanks.

4 LA PRÉSIDENTE :

5 Merci. Merci beaucoup. Alors ça complète l'audience
6 d'aujourd'hui. Nous reprendrons ce dossier pour une
7 rencontre préparatoire le quinze (15) juin. Nous
8 vous écrirons bientôt. Alors bonne fin de journée.

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10 AJOURNEMENT DE L'AUDIENCE

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