RÉGIE DE L'ÉNERGIE

DEMANDE CONJOINTE RELATIVE À
LA FIXATION DE TAUX DE RENDEMENT
ET DE STRUCTURES DE CAPITAL

DOSSIER : R-4156-2021 PHASE 2

RÉGISSEURS : M. JOCELIN DUMAS, président

Me LISE DUQUETTE
Mme ESTHER FALARDEAU

AUDIENCE DU 17 JUIN 2022 PAR VISIOCONFÉRENCE

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1	L'AN DEUX MILLE VINGT-DEUX (2022), ce dix-septième
2	(17e) jour du mois de juin :
3	
4	PRÉLIMINAIRES
5	
6	LE PRÉSIDENT :
7	Merci, Madame la Greffière. Bonjour à tous.
8	Me ÉRIC McDEVITT DAVID :
9	Si vous permettez, Monsieur le Président, j'aurais
10	juste une question d'intendance avant de débuter
11	l'audience ce matin.
12	LE PRÉSIDENT :
13	Madame la greffière allait faire le protocole
14	d'ouverture, je crois.
15	Me ÉRIC McDEVITT DAVID :
16	Ah, excusez-moi! Je suis un peu prompt ce matin.
17	LA GREFFIÈRE :
18	Audience du dix-sept (17) juin deux mille vingt-
19	deux (2022) par visioconférence. Dossier R-4156-
20	2021 Phase 2 : Demande conjointe relative à la
21	fixation de taux de rendement et de structures de
22	capital. Poursuite de l'audience.
23	LE PRÉSIDENT :
2.4	Merci. Alors, Maître David, vous aviez un point
25	d'intendance.

- 5 -

1 Me ÉRIC McDEVITT DAVID : 2 Hier, vous m'avez posé la question au niveau de l'engagement 2, si la réponse fournie répondait à 3 l'engagement. Puis on aurait effectivement des 4 5 précisions additionnelles à demander. Donc, je ne sais pas si, Madame la Greffière, il est possible 6 7 de mettre la pièce B-0353 à l'écran, la page 2. LE PRÉSIDENT : 8 9 Ce n'était pas l'engagement numéro 3? Me ÉRIC McDEVITT DAVID : 10 11 Nous, c'était l'engagement numéro 2. 12 LE PRÉSIDENT : Ah, excusez-moi! 13 Me ÉRIC McDEVITT DAVID : 14 15 Donc, si c'est possible d'aller à la page numéro 2. 16 Merci beaucoup. Alors ce qu'on demanderait comme précisions additionnelles, le tableau 1 ici en 17 haut, on a donc le résumé pour toute la clientèle 18 19 « secteur bâtiment » pour Montréal. Et on voit que 20 c'est divisé en trois lignes : nombre de clients, 21 volumes normalisés et revenus D normalisés. La 22 deuxième partie, c'est les nouveaux clients. Donc, 23 c'est découpé pour les nouveaux clients seulement. Mais on retrouve juste : nombre de clients et 24 volume. Mais on n'a pas la ligne « revenus D 2.5

25 DISCUSSION HORS DOSSIER

1	normalisés ». Alors, on aimerait simplement
2	qu'Énergir nous fournisse la ligne « revenus D
3	normalisés » pour la deuxième partie du tableau 1.
4	Ça, c'était la première demande de précision.
5	La deuxième demande de précision, c'est au
6	tableau 2, la prochaine page. Comme vous voyez,
7	dans la première partie du tableau, on a
8	l'information, les mêmes trois lignes : nombre de
9	clients, volumes normalisés et revenus D
10	normalisés. En bas où on a le sommaire concernant
11	les nouveaux clients, c'est décliné en nombre de
12	clients et en volumes, mais pas en revenus. Donc,
13	encore une fois, pour la partie du bas de ce
1 4	tableau-là qui concerne les nouveaux clients, si
15	c'est possible de nous fournir la ligne
16	« revenus ».
17	Ça serait les deux précisions
18	additionnelles qu'on vous demanderait, qu'on
19	demanderait à Énergir.
20	Me PATRICK OUELLET :
21	Donnez-moi juste une petite seconde, je vais
22	discuter avec les gens ici.
23	LE PRÉSIDENT :
2 4	D'accord.

- 7 -

1	Me PATRICK OUELLET :
2	Alors, bonjour, Monsieur le Président, bonjour,
3	Mesdames les Régisseurs. Premièrement ce que
4	j'aurais à dire, c'est que ma cliente a déjà fourni
5	plus que ce qui avait été demandé dans
6	l'engagement. Comme par exemple la question des
7	revenus, ce n'était pas demandé, on est allé au-
8	delà de ce qui était demandé. Là maintenant, on
9	nous en demande encore plus. Je comprends. Ce qu'on
10	me dit, c'est que l'information qui est demandée
11	serait déjà dans l'annexe TB3 au soutien de la
12	preuve du docteur Brown. Elle l'est pour l'île de
13	Montréal, pas pour la ville de Montréal. C'est déjà
1 4	un très bon indicateur. Donc, on se demande si
15	c'est nécessaire de pousser plus loin étant donné
16	l'information qui est déjà au dossier.
17	Me ÉRIC McDEVITT DAVID :
18	Monsieur le Président, écoutez, je ne sais pas, je
19	n'ai pas vérifié cette annexe du rapport de
20	monsieur Brown, mais il semble y avoir une légère
21	différence entre l'île de Montréal et la région de
22	Montréal. Je pense que, pour fins de clarté, tant
23	pour Option consommateurs que pour la Régie, il me
2 4	semble que ce n'est pas disons un énorme calcul de
2 5	plus qui est demandé. Ce serait de, au fond,

- 1 respecter les paramètres qu'eux-mêmes avaient
- 2 inclus dans les tableaux.
- 3 Me PATRICK OUELLET :
- Donc, on n'est pas satisfait de ce qui est sur
- 5 l'île de Montréal sans l'avoir regardé, c'est ça?
- 6 Si on insiste, on va le faire...
- 7 Me ÉRIC McDEVITT DAVID :
- 8 Maître Ouellet, je ne veux pas argumenter avec vous
- 9 ce matin. Je laisse ça à la discrétion de la Régie
- 10 pour le reste.
- 11 Me PATRICK OUELLET:
- 12 Ça va. Ce qu'on veut éviter, nous, c'est qu'il y
- 13 ait des demandes en cascades, qu'on va refournir
- 14 encore de l'information, qu'on va en redemander de
- 15 la nouvelle, et caetera. On pense que ce qui a déjà
- 16 été fourni est raisonnable, mais on laisse ça à
- 17 votre discrétion.
- 18 LE PRÉSIDENT :
- 19 Alors, Maître David, est-ce que vous pourriez
- demander à votre analyste de jeter un coup d'oeil
- 21 sur la pièce qui nous a été mentionné par maître
- 22 Ouellet, qu'il vérifie si c'est satisfaisant aux
- fins de son analyse, puis vous nous reviendrez.
- 24 Me ÉRIC McDEVITT DAVID :
- 25 D'accord. Je vais faire ça à la pause.

- 1 LE PRÉSIDENT :
- 2 Merci. Maître Ouellet, est-ce que vous avez des
- 3 nouvelles fraîches concernant les engagements 3 et
- 4 4?
- 5 Me PATRICK OUELLET:
- 6 Bon. Le 3, on pense que ce matin, probablement que,
- 7 à la pause, on va pouvoir le mettre dans le
- 8 système. En ce qui concerne l'engagement numéro 4,
- 9 donnez-moi juste deux petites secondes que je
- 10 vérifie. Donc, en ce qui concerne l'engagement 4,
- 11 Monsieur le Président, ça irait probablement un
- 12 petit peu après le lunch aujourd'hui. On va tenter
- de le faire aujourd'hui, au plus tard cet après-
- 14 midi.
- 15 LE PRÉSIDENT :
- 16 Très bien. Merci. Est-ce qu'il y a d'autres
- 17 questions préliminaires? Ça va. Alors, avant de
- 18 passer au panel 1, je vais vous faire part de la
- 19 décision de la Régie concernant la reconnaissance
- de statut d'expert.
- 21 DÉCISION SUR VOIR-DIRE
- 22 LE PRÉSIDENT :
- 23 La Régie est saisie au présent dossier de quatre
- demandes de reconnaissance de statut d'expert.
- 25 Seule la demande de reconnaissance du statut de

_	témoin	expert	déposée	pour	le	docteur	Asa	Hopkins,
<u>></u>	témoin	de l'A(CIG, est	conte	este	ée.		

Après avoir entendu les arguments des demanderesses et de l'ACIG; après avoir considéré la demande de reconnaissance du statut de témoin expert ainsi que le CV déposé au soutien de cette dernière, la Régie est d'avis que monsieur Hopkins possède l'expérience et les qualifications requises pour l'éclairer dans les domaines relatifs à son expertise.

La Régie est d'avis que ces qualifications et cette expérience sont pertinentes dans le cadre du présent dossier. Ce faisant, elle lui reconnaît le statut de « expert on energy transition in the gas industry, and business risk », tel que formulé hier par l'ACIG dans son plan d'argumentation.

La Régie tient par ailleurs à souligner qu'elle est maître de sa procédure et qu'à cet effet, elle peut, si elle le juge utile pour l'éclairer, reconnaître le statut d'expert à des personnes qui ont des qualifications complémentaires, comme c'est le cas ici pour le docteur Hopkins et le docteur Booth en matière de risque d'affaires.

25 De plus, la Régie juge utile de vous faire

1	part immédiatement de sa décision en regard des
2	autres demandes de reconnaissance de statut
3	d'expert.
4	La Régie juge que l'expérience de monsieur
5	Toby Brown justifie de le reconnaître à titre
6	d'expert dans l'évaluation des risques commerciaux
7	d'entreprises d'utilité publique réglementées aux
8	fins de la détermination du taux de rendement et de
9	la structure de capital.
10	La Régie reconnaît également la docteure
11	Bente Villadsen à titre d'experte dans la
12	détermination du taux de rendement et de la
13	structure de capital d'entreprises d'utilité
14	publique réglementées.
15	Finalement, la Régie reconnaît le docteur
16	Laurence Booth à titre d'« expert on rate of
17	return, capital structure and business risk ».
18	La Régie souligne que c'est la capacité de
19	ces experts à l'éclairer qui lui importe, afin
20	qu'elle puisse rendre la meilleure décision
21	possible. En outre, au terme du dossier, lors de
22	son délibéré, il lui reviendra de juger de la force
23	probante de la preuve présentée par chacun d'entre
24	eux.

Voilà! Nous serions prêts à entendre le

- 12 -

1 panel numéro 1 de l'ACIG. PREUVE DE L'ACIG - panel 1 3 4 5 Me PAULE HAMELIN : 6 Bonjour, Monsieur le Président, Mesdames les 7 Régisseurs. Peut-être un petit point avant qu'on 8 assermente madame Rahbar. Je comprends donc que la 9 preuve au niveau des demanderesses serait essentiellement close, sous réserve naturellement 10 11 des engagements qui restent à être déposés dans le 12 présent dossier? 13 LE PRÉSIDENT : En effet, sous réserve des engagements. 14 15 Me PAULE HAMELIN : 16 Parfait. Nous avons déposé ce matin des affidavits 17 pour les panels suivants. On n'avait pas reçu 18 encore la confirmation de la réception de la Régie. 19 On pourra vérifier à la pause si... On vient de me 20 confirmer que c'est déposé. Tout à l'heure, on 21 n'avait pas eu l'accusé. Alors, je voulais juste le 22 mentionner. Donc, nous serions prêts à assermenter 23 madame Rahbar. 24

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1	IN THE YEAR TWO THOUSAND TWENTY TWO, on this
2	seventeenth (17th) day of June, PERSONALLY CAME AND
3	APPEARED:
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5	Dre SHAHRZAD RAHBAR, president of the Industrial
6	Gas Users Association, business address is 851,
7	Industrial Avenue, Ottawa (Ontario),
8	
9	WHO, after having made a solemn affirmation, doth
10	depose and saith as follows:
11	
12	EXAMINED BY Me PAULE HAMELIN :
13	So, just before you start, Dr. Rahbar, I just want
14	to make an apology to both Dr. Villadsen and Dr.
15	Hopkins, maybe it's fatigue that is Je vais le
16	dire en français. Peut-être que c'est la fatigue
17	qui se fait sentir et non pas par manque de
18	déférence envers les les PhD qui nous entourent
19	dans le présent dossier. C'est juste par maladresse
20	que j'ai parlé hier à madame Villadsen en disant
21	« Madame Villadsen » et « Monsieur Hopkins », et
22	non pas docteur. Alors, je m'en excuse et je viens
23	de faire la même erreur avec docteure Rahbar,
2 4	alors.
25	Q. [1] Dr. Rahbar, I'll let you now make your

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1	presentat	cion	for	IGUA.	Thank '	you.

- 2 R. Bonjour, Monsieur le Président, Mesdames les 3 Régisseurs, l'ensemble des intervenants et 4 représentants des distributeurs. Je suis très 5 contente d'être parmi vous et de pouvoir partager 6 avec vous mes remarques sur ce dossier fort 7 important. Si vous me le permettez, je vais 8 continuer en anglais. It's going to be a little bit 9 easier for me and perhaps kinder to the French 10 language.
- So, with that, I really appreciate the

 opportunity to share with you some thoughts and

 I'll confine my comments to some high-level

 insights that hopefully will help you see how IGUA

 views this very important application, and we'll

 leave it to the experts and analysts to argue the

 finer points.

So, this is an important hearing because it's precedent setting in a number of ways. It's got many first associated with it. It's the first time energy transition climate change is cited as a reason to seek higher ROE and equity thickness.

It's also the first time that three entities apply jointly in a ROE hearing and it's again a first that applicants in an ROE hearing rely solely on

1	expert evidence without filing any financial data.
2	My key point is climate change and energy
3	transition are not new, they're not shocking. It's
4	over thirty (30) years since the United Nations,
5	not being known as the fastest responding entity in
6	the globe, sounded the alarm bells on climate
7	change and asked for dramatic carbon reductions.
8	It's over twenty (20) years since Canada signed
9	onto the Kyoto Accord, it's over sixteen (16) years
10	since Quebec first introduced climate legislation
11	and almost fifteen (15) years since Quebec's been
12	part of the WCI and has SPEDE.
13	Of course, energy transition requires a lot
14	of changes. It will require a fundamental change in
15	the way we, in Canada, produce, transport and
16	consume energy. The costs are estimated to be in
17	the trillions of dollars and people, experts, agree
18	that this is going to that this is too large a
19	dollar to be born by any single actor in the space,
20	it's going to need government investment,
21	investment private investment, individual
22	investment including, and not limited, to
23	ratepayers and utility shareholders.
2 4	Much was said about how do we view this
25	change. Quebec undoubtedly is in a leadership

1	position, it acted early, it had the earliest
2	climate legislation in the whole of Canada. So, is
3	this does this make Quebec more risky or does it
4	make it more predictable for investment knowing
5	where the ultimate destination is and having a long
6	time to contend with the destination? I contend
7	it's the second one, this base on industry
8	experience. When you know what the rules are, when
9	you know what the destination is and you have
10	enough time to adapt, you can adapt in a profitable
11	manner.
12	I don't know if this is relevant or not,
13	but I just reminded I just checked the last
14	carbon price that had been cleared at the last WCI
15	auction, it was shy a forty dollars (40\$) and about
16	ten box (10 $\$$) shy of what the carbon tax is. So, I
17	think acting early is a good thing and allows time
18	to allows time for actors to react.
19	Climate change and energy transition have
20	reshaped the energy market place, have dominated
21	the energy discourse in Canada for almost thirty
22	(30) years, at least for twenty-five (25) very
23	actively.
2 4	The corporate owners of some of the

applicants in this file have successfully reacted

1	to changes in their business market place and
2	transform themselves. A quote from Enbridge Inc.'s
3	website puts it very eloquently, and I read from
4	from that quote :
5	For more than two decades, we've been
6	deliberately positioning for energy
7	transition in a disciplined and
8	profitable manner.
9	We, closer to home, Gaz Métro, thirty (30) years
10	ago was a local gas distribution company in Quebec,
11	Énergir today in an integrated North American
12	energy company with assets in multiplicity in a
13	range of assets, not limited to natural gas,
14	renewable power. So, it's managed to grow its asset
15	base and profitability. And neither of these have
16	required public bailout, any any handouts from
17	anyone or required any write-offs.
18	The response from the regulated entities
19	sadly has been a bit different and a bit muted. I
20	guess reliance on a specific interpretation of the
21	regulatory compact has led to delaying profitable
22	transformation. Instead, we've seen a variety of
23	initiatives for which ratepayers have been on the
2 4	hook and been identified as ratepayers are going to
25	pickup these costs. Some good, some maybe not

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1	optimal, bi-energy, RNG, hydrogen, without even
2	knowing where they fit. Do they solve ten percent
3	(10%) of the problem, do they get us there fifty
4	percent (50%) of the way? Absent any plan,
5	ratepayers have funded for these, and despite that,
6	despite the fact that all the new initiatives, at a
7	higher cost because are born by ratepayers, they're
8	seeking higher premium and equity thickness.
9	What we struggle with is the fact that

What we struggle with is the fact that there's little analysis available on anticipated load profile changes, little delineation between what load is elastic, what load is inelastic. And more glaringly, absence of information about what is this future business model that Energir is responding to.

So, our problems with the current application are at two levels. At a conceptual level, we think equating change with risk is not accurate. Risk is harm resulting from probability of a negative consequence. Change harbors both opportunity and risk.

Second problem is that it ignores the utilities control and agency over its business decisions, assume LDC are passive victims of change and recipients of regulations that they didn't know

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1	about	t, an	d excl	Lude	all	miti	lgati	Lon	action	that	is
2	has b	oeen	taken	to	date	and	can	be	taken.		

So, seeking a higher premium and equity thickness although the cost of whatever mitigation action, and we don't know how impacful these are going to be absent of a plan, those costs have been pass to ratepayers and still the utilities seek a higher premium and equity thickness. So, that's... that's conceptually our biggest issue in this application.

And specific... more, a couple of specific points here: mixing the long term twenty fifty (2050) carbon target with mid-term twenty thirty (2030) decarbonization plan and anticipated load changes over the next three to five years, I think just clears, muddies the picture as oppose to allow us to have a vision through time.

Also, equating the continued demand for methane, not for home heating but in industrial processes as feedback, as feedstock. The use of the pipeline infrastructure, which as other people have discussed, could be repurchased for other things.

And precisely the current business model of the utility are not one and the same thing. Assuming the three are one and the same thing, again, in our

1	mind, introduces a bit of lack of clarity.
2	I couldn't help reflect on the NEB decision
3	of twenty eleven (2011) when TransCanada had
4	applied for yet another rate increase to compensate
5	for the declining volumes on the system. Those of
6	us with my colour of hair will remember that the
7	NEB denied that rate increase. It fix the tolls for
8	five years, at nearly half of what TransCanada had
9	applied for, well short of their revenue
10	requirement. Of course, gave them a deferral
11	account to capture the cost, and it stipulated that
12	managing the business risk resulting from changes
13	in the market place is the business of the
14	regulated utility. It put CPL on notice for future
15	cost disallowance if they fail to manage their
16	business risk and, of course, it did increase,
17	having done all of that, it did increase their ROE.
18	So, before I before I conclude, I just
19	want to share with you how Quebec heavy industry
20	views climate change and what we think is going to
21	happen with industrial load in the next little
22	while.
23	So, as I mentioned, IGUA members produce
2 4	commodities from steel, chemicals, forest products,
25	minerals and bio-based materials. They're all

1	energy intensive and trade exposed. Most have
2	commitment have committed to net-zero by twenty
3	fifty (2050), all of them have aggressive carbon
4	reduction plans. They are also subject to carbon
5	regulation.
6	But the big shift I have seen in my members
7	is for them decarbonization is no longer a
8	regulatory imperative, something that a regulatory
9	group is supposed to handle. This is an imperative
10	that's coming down from their investors, from their
11	boards and from the CEO. So, the commitment to
12	decarbonization is harnessing amazing resources
13	from the companies, everybody is involved,
14	operations, engineering, so well beyond the
15	regulatory, it's a regulatory issue I have to live
16	with.
17	And so, the resources are going to
18	figure out how to decarbonize, we know the demand
19	for commodities and minerals will continue to the
20	future, all the knew technology that we talk about
21	will still need something mineral to go in there,
22	but how to make them. So, we're seeing the Quebec
23	facilities become some of the least carbon
2 4	intensive facilities in the world.
25	Couple of examples for you: recent

1	initiative, a joint initiative announced by Rio
2	Tinto to develop the globe first non emitting mine
3	in Quebec, that's a great sign. It talks to
4	availability of clean power, certainty in
5	regulation and having advanced view on what's
6	coming.

You got a steel plant in Contrecoeur, the system that uses the latest technology in the world, direct reduction of iron combined with electric arc furnace. Their sister plant in Ontario, earlier this year, announced one and a half billion dollars for the B of investment needed to adopt this technology. And it will reduce their carbon emissions by over sixty percent (60 %). Interestingly, it will increase their gas use. It will more than double their gas use to get the carbon reduction. There's no magic in there. It takes coke and coal out of the system and uses gas.

So what do we think is happening to industrial demand in the next three to five years?

Not much. I would say, for the existing customers, it's going to be quite stable within the business fluctuations, for a number of reasons. Either the technology to electrify doesn't exist, or access to alternative energy supply at scale is not available

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-	or, the cost of replacement is proh	ibitive	and the
2	timing require to execute these lone	g scale	projects
3	extend beyond those years.		

Let me give you an example. Existing gas boiler in an industrial facility reaching end of life, they looked at electrifying, replacing it with an electric boiler. All of them proven existing technology for decades. The current gas supplied to this boiler is a six inch pipe. HQ told the facility that the reinforcement they would need on the distribution system alone to feed this boiler demand, if they were to replace it by an electric boiler, would be four hundred (400 M\$) million dollars. And there would likely be impact on the transmission system and we don't know what the impact on supply would be.

So, existing stable demand, I would say, within business fluctuations from current industrial gas users in the next three to five years.

Also, potential additional demand for natural gas, from industrial facilities currently on coal, oil or diesel as part of their carbon reduction plan. Those near gas lines will seek connection, others will require a non pipe

1 alternative such as LNG or CNG.

I have LNG companies out of Alberta calling me because they want to do business in Ontario and Québec. And their value propositions are actually quite interesting, being one of my members in Ontario, have signed up with them, they bring the regasification equipment and they bring the LNG. No pipe but plants that was running on diesel now can achieve their twenty thirty (2030) carbon reduction target by switching to gas.

So, I think of the next three to five years, as far as industrial demand is concerned it's either going to be stable or increasing.

So, to wrap-up, I would say: a very interesting hearing. How do we, how do we crack this nut? Step by step. Our recommendations would be to set the ROE for a period of time based -- a short period of time, where we know what's happening with demand - based on recommendation from the experts. Three years sounds like a good number. Is it four or five I really don't know but no more than that.

In the medium and longer term, risks need to be consider against the plan to adapt rather than as a bailout strategy, and in light of more

1	detail and better method information. And companies
2	should be directed to prepare supporting evidence,
3	for a subsequent ROE hearing in three years, that
4	shows what their business transformation pathways
5	are, includes an integrated resource plan, looks at
6	the mitigation, the impact of the mitigation
7	initiatives taken to date, includes both forecast,
8	depreciation studies and some information on
9	potential stranded assets. That's the time when we
10	had, in my mind, we can have a more granular
11	conversation on whether this change actually
12	harbours risks that warrant a higher ROE and equity
13	thickness.
1 4	And I as mentioned in my opening remarks,
15	if after having looked at the granular data the
16	risk has gone up, they should be compensated, in
17	the absence of that I'm hard press to see what
18	we're talking about.
19	Any way, with that, I thank you and I am
20	available if there is any questions.
21	Me PAULE HAMELIN :
22	I will not have any further question for doctor

23 Rahbar. So, if they are questions for the cross-

examination.

- 1 Me PATRICK OUELLET:
- 2 If I could have perhaps a few seconds to consult
- 3 with my clients? Oh, je m'excuse, en français.
- 4 Donc, oui quelques secondes pour consulter...
- 5 LE PRÉSIDENT :
- 6 Oui, oui ça va. Il semble y avoir un petit pépin
- 7 technique. On voit l'image de (coupure de son). Moi
- je ne vous vois pas. Parfait.
- 9 Me PATRICK OUELLET:
- 10 Donc, je peux tout de suite, I can already advise
- 11 the Board that we have no questions in cross-
- 12 examination for doctor Shahrzad. Thank you, Doctor.
- 13 LE PRÉSIDENT :
- 14 Merci. Pas de questions de la Régie? Madame
- 15 Falardeau? Maître Duquette?
- 16 EXAMINED BY THE FORMATION
- 17 Me LISE DUQUETTE :
- 18 Q. [2] Yes, I will have one question for you. You said
- 19 something, excuse my English but, if I don't recall
- 20 exactly but you said: "You don't have to do an...
- 21 you don't have to equate a risk and a change. And a
- 22 change might be beneficial and/or detrimental." And
- doctor Brown, is his presentation, I don't know if
- we need to take the presentation, but it's at page
- 25 4 and I will take my notes. And it might not be

1	exactly as he said it but I know it's more
2	synthetic. But it's not the way the risk is not,
3	there's no uncertainty about the way they will
4	recovered their money they invested but it is, the
5	risk is they don't know how they will do it.
6	So, in light of what you said about
7	equation, equating the risk and the change, I would
8	like to have to your though about that business
9	risk as doctor Brown's put it.
10 R.	Maître Duquette, you're asking an engineer to opine
11	on business risk and I can see my experts are
1 2	already shuttering in their in their shoes that
1 3	I may actually respond. So, let me, let me preface
1 4	that by saying I am not an expert by any stretch of
1 5	imagination on, on business risk.
1 6	But, they don't know how to recover it is
1 7	an interesting question, as I was listening to
18	doctor Brown I was fiercely emailing our analysts
1 9	and saying "do we know the vintage, do we know the
2 0	vintage of Énergir's assets". And we really didn't.
21	And of course there's no, there's nothing on file
2 2	to know, so I don't really know whether their
2 3	ability to recover is diminished or not. I don't
2 4	recall, at least in the past ten years that I've

watched the space very carefully that there have

1	being tremendous leave to construct applications.
2	So number one is I don't know how old their
3	assets are. I don't think there are too many
4	assets, other than meters, that are getting change
5	but would have forty years on them.
6	So, again for me, excuse the dumb unread
7	engineering mind, this is very difficult to
8	imagine, absent knowing what we're actually talking
9	about. And specially in view of seeing that the
10	energy majors in the world have adapted, the world
11	is going to need energy, it may not need this
12	energy but it will be another energy so how do we
13	provide it. They are adapting and BARE companies
14	are shining examples of how they have managed to
15	diversified their assets base, grown their
16	portfolio.
17	So I'm struck by what is the problem in
18	their recovery. I'm not seeing it. Again, I don't
19	want to prejudge, the data isn't there, if we have
20	the data maybe there's a risk. If there is a risk,
21	let's see it.
22	It's, hypnotically very hard for me, Maître
23	Duquette, to make anymore sensible remarks. Or any
2 4	remarks I made may actually not make any sense. So
25	my apologies if I didn't really answer the

- 1 question.
- 2 Q. [3] Oh no, that's fine I just wanted to have your
- 3 thoughts about this. So, that will be all my
- 4 questions. Thank you very much.
- 5 LE PRÉSIDENT :
- 6 Alors, il n'y aura pas d'autre question de la part
- 7 de la Régie. Maître Hamelin, je crois que vous
- 8 venez de m'indiquer, je pense, que vous n'aurez pas
- 9 de réinterrogatoire pour madame Rahbar?
- 10 Me PAULE HAMELIN:
- No. I will not have any further question to doctor
- 12 Rahbar. Thank you.
- 13 LE PRÉSIDENT :
- 14 Alors, on peut libérer docteure Rahbar tout de
- 15 suite.
- 16 R. Merci, Mesdames et Messieurs.
- 17 LE PRÉSIDENT :
- 18 Thank you very much.
- 19 Me PATRICK OUELLET:
- 20 Et je me rends compte, Monsieur le Président, que
- j'ai adressé la docteure par son prénom, c'était
- 22 vraiment, vraiment une erreur de ma part, là, donc
- je m'en excuse.
- Me PAULE HAMELIN:
- 25 J'ai fait la même chose d'ailleurs hier de mon

- 1 côté.
- 2 R. On a lighter note, I have been called much worst
- 3 things, so don't worry at all. Thank you... thank
- 4 you for noting it. Bye everyone.
- 5 LE PRÉSIDENT :
- 6 On pourrait passer tout de suite au panel numéro 2.
- 7 Votre micro.
- 8 Me PAULE HAMELIN:
- 9 Oui. Alors, effectivement si vous me donnez
- 10 quelques minutes on va juste se réarranger pour...
- 11 pour le docteur Hopkins.
- 12 LE PRÉSIDENT :
- 13 Oui.
- 14 Me PAULE HAMELIN:
- 15 Merci.
- 16 Me ÉRIC McDEVITT DAVID :
- 17 Monsieur le président?
- 18 LE PRÉSIDENT :
- 19 Oui?
- 20 Me ÉRIC McDEVITT DAVID :
- 21 Oui. Désolé c'est moi encore. Juste... Par
- efficacité, pendant qu'on attend, donc j'ai
- 23 rediscuté de la question avec mon analyste, et il
- me dit qu'il va se débrouiller avec l'information
- qui se retrouve en annexe du rapport de docteur

depose and saith as follows:

1	Brown. Donc, la précision qui a été demandée ce
2	matin n'est pas requise. Je m'excuse pour la perte
3	de temps.
4	LE PRÉSIDENT :
5	Ça va bien, merci.
6	Me PATRICK OUELLET :
7	Merci, Maître David, on apprécie beaucoup, merci.
8	Me ÉRIC McDEVITT DAVID :
9	Merci.
10	Me PAULE HAMELIN :
11	Alors, Monsieur le Président, on va être prêt pour
12	assermenter le docteur Hopkins.
13	
1 4	PANEL 2 - ACIG
15	
16	IN THE YEAR TWO THOUSAND TWENTY TWO, on this
17	seenteenth (17th) day of June, PERSONALLY CAME AND
18	APPEARED:
19	
20	Dr. ASA HOPKINS, Vice President at Synapse Energy
21	Economics, 485 Massachusetts Avenue, suite 3,
22	Cambridge, Massachusetts, (USA);
23	
2 4	WHO, after having made a solemn affirmation, doth

- 32

- 1 LE PRÉSIDENT :
- 2 Short comment: the pace of your voice was perfect.
- 3 R. I will endeavour to keep it up.
- 4 Me PAULE HAMELIN:
- 5 No! no!
- 6 R. Down.
- 7 Me PAULE HAMELIN:
- 8 So, Mister Chairman, we have... Oups, I've lost
- 9 everything. Ah okay. Sorry. Perfect. So, Mister
- 10 Chairman, we have already filed the affidavit of
- 11 Dr. Hopkins for the adoption of his evidence.
- 12 Before we go through the... his presentation, I
- 13 just have one or two questions to Dr. Hopkins with
- respect to his report, if you'll allow me.
- 15 EXAMINED BY Me PAULE HAMELIN:
- 16 Q. [4] My first question to you, Dr. Hopkins, we have
- 17 filed the affidavit adopting your evidence, is
- 18 there any corrections or modifications that you
- 19 would like to make on your report?
- 20 R. Yes. There is one correction I'd like to make. On
- 21 page 17 of my direct evidence, line 10, I say only
- forty percent (40%) of the assets of Chesapeake
- 23 Utilities, the correct number there is fifty-one
- 24 (51), so just simply replace forty-one (41) with
- 25 fifty-one (51)... forty (40) with fifty-one (51).

- 33 -

Q. [5] And we have filed your presentation as

- 2 additional exhibit to this case which we see here
- 3 on the screen Summary of Evidence on Business risk.
- 4 Do you also adopt this document as part of... of
- 5 your evidence, written evidence, in this matter?
- 6 R. I do.
- 7 Q. [6] Okay. So, Dr. Hopkins you can proceed with your
- 8 presentation, on a slow pace.
- 9 R. Thank you. Good... I'm glad to have the whole
- 10 morning, so I appreciate the Régie hearing me out
- and I'm glad to be with you here to present a
- 12 summary of my evidence. If we could proceed to the
- 13 second slide, I will give you a short overview of
- 14 what I intent to tell you about this morning.
- I have left off the part where I tell you a
- 16 bit about my background. I'm happy to answer
- 17 further questions about it, but I think you all
- 18 know more about my background at this point than
- 19 most of my professional colleagues do, and I
- haven't gone very closely, yesterday.
- 21 So I will begin my presentation by talking
- through and giving you a sense of the frame of
- 23 the... my approach to the proceeding, then I'll lay
- 24 out a few principles and definitions where further
- ways of, ways of seeing that I bring to this work.

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1	And then, I will go through the utilities,
2	the distribution utilities first with respect to
3	their business risk. Short term that is volatility
4	risk and then long term that is capital recovery
5	risk and draw some conclusions about the two
6	distribution utilities.

7 I will end with a couple of slides about 8 Intragaz.

Madam Clerk, you can go to fourth slide to the introduction. Sorry, go ahead. My approach to this proceeding. So my work here is grounded in the realization and the understanding that the gas utility business, its finances and operations and their associated risks, are shaped by the regulatory and policy regime in which the utilities operate.

I view utility regulation as itself, a manifestation of policy. I have been getting one who was trying to decide whether those of you sitting on the Régie were policymakers or not. I would answer in the affirmative. At the same time, you of course work within a broader policy context set for the province and for the nation.

So my testimony is intended to inform the Régie about the business risk of the three gas

1	utilities, inform my view through this regulatory
2	and policy perspective, particularly but not
3	limited to, as it relates to greenhouse gas
4	emission mitigation and what that will mean for the
5	business risk of those utilities, which is the
6	energy transition, in the language that is common
7	in Québec.
8	In order to prepare this evidence, I've
9	evaluated the Aviseo study as well as both Dr.
10	Brown's and Dr. Villadsen's expert testimonies, and
11	I've conducted my own analysis, which is presented
12	in my report.
13	Dr. Brown's testimony compares the business
14	risk of the three Québec utilities to Dr.
15	Villadsen's US gas utility sample, and Dr.
16	Villadsen then incorporates that relative risk
17	assessment into her recommendations on ROE and
18	capital structure. And in some sense the logical
19	flow of my testimony and Dr. Booth's testimony is
20	similar, although of course we are in addition
21	responding to Dr. Brown and Dr. Villadsen in that
22	process.
23	I'll say, there's a number of things that
2 4	are in the Aviseo report that are not highlights of
25	Dr. Brown's testimony and to which I have not given

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_	a great deal of weight to, and largely these, that
2	is because these are points that Dr. Brown
3	identifies as areas where they are not particularly
1	different between US sample and the Québec
5	utilities, and therefore you can set them aside,
ō	when trying to do this comparative analysis.

One example being the physical impacts, the weather and climate impacts of climate change on utility assets is not appreciably a different risk in Québec than in the US gas sample.

So the focus of my evidence really is on the areas of potential differences from the US gas sample and those are roughly summarized in two categories: the regulatory and policy context and the question of competition between gas and other sources of energy, most particularly electricity.

You can go to the next slide. So at this point in the proceedings we are all pretty familiar with the role of business risk in a cost of capital case, just to put us to, to ground us all again where we are. The allowed return on equity and capital structure of a utility should reflect the return that investors would demand for investing in a prudently run utility facing the same financial and business situation as the utility, thus being a

4	c '		_			c ·	
1	Iaır	cost	ΟĪ	capital	or a	Iaır	return.

The financial piece reflects overall market demand for return from equity, that has an overall sort of comparable level of risk as the industry, the utility level comparators, so accounting for the level of risk in sort of a benchmark or a proxy group of regulated utilities.

The business risks piece is intended to reflex and inform the overall setting of the return by examining the specific risks or the specific types of risks that a given utility faces due to its particular business context, its regulatory context, its customer context, its competitive context.

And you know, prudent utility managers evaluate those risks, analyse the costs that those risks might impose along with the costs of efforts to mitigate them and take appropriate action, you know, obviously in concert with their regulators.

And here, I guess, I'll say that this is an area of some difference between myself and Dr.

Brown. He laid out an analogy, and I am not going be able to quote him exactly but the idea is that if you imagine playing a game of cards, that business risk analysis is not about the skill with

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_	which the game is played, but by which cards the
<u>)</u>	utility has been dealt. And I guess I would
3	broaden the story there a little bit. And say that
1	one of the characteristic of this of this
5	structure is that the rules of the game itself are
5	potentially malleable.

The regulators help to set the rules of the game, the utilities can act to create new cards, right, but it's not a simple analysis of external circumstances and something simply happening to the utility, without its ability to adapt, without its ability to adjust and without the active partnership and engagement with its regulators, in order to find an appropriate path forward.

 $\label{eq:solution} \mbox{So I take a somewhat broader view of this} \\ \mbox{business risk analysis than Dr. Brown does.}$

Next slide, please. So, just to get some terminology straight, I know the question of timescales and different types of risk, timescales and timeframes and how close to the present will be something that folks might want to talk about in the course of my testimony. So, just to get some definitions straight and the way that I think about this.

25 So in my testimony and my evidence, I

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described and divided it into consideration of
short term business risks and long term business
risks. And what I refer to as short term business
risk is essentially operational in nature. Risk
that the utility might receive less revenue than
expected or be forced to pay unexpected costs due
to some event happening in the world, economic
conditions, weather, changes in customer demand
from one way or another.

And this is manifested in the variability, year-to-year variability or variability over time, in the rate of return earned by the utility shareholders, in reference to their allowed rate of return. So this is short term in the risk. The timescale on which these events occur is generally short, year to year, you know, not generation to generation.

So, what I refer to as long term business risks has to do with the risks related to long-live assets. The risk that the utility might be unable to recover both its invested capital and earn a reasonable return on that capital, this is capital recovery risk.

We also sometimes refer to this as stranded cost risk, you know a stranded cost, if the utility

1	were actually fully burdened with a stranded cost
2	that would be equivalent to not being able to
3	recover its invested capital. And just for
4	definitional sake, I think, I'll define a stranded
5	cost: it's the undepreciated value of an asset that
6	is no longer used and useful.

risk might actually come to pass, might actually happen in the real world. One is that in the event that there were an asset that is no longer used and useful, a regulator might say, you don't get to recover that anymore. This is the regulatory risk. We can touch on this again a little later but I don't view this as a very material risk in a sense that overwhelmingly regulators take their view of the regulatory compacts pretty seriously, that if the investment was prudent at the time that it was made, then being able to recover it, even when it's not use and useful, is accommodated basically whenever possible.

There are some circumstances in which it might not be possible, because of overall market changes or other circumstantial changes and this would largely manifest itself through competition.

The competition may limit the ability of utility to

1	even charge the rates that are sufficient to
2	recover its full cost of service.
3	I will go in a little bit more detail on
4	this piece in particular, a little bit later. So
5	you can go to the next slide, please, Madame Clerk.
6	So my last sort of introductory slide here
7	has to do with timescales of risk and return.
8	So in my evidence, I argue that the ROE and
9	capital structure should primarily reflect the risk
10	that's facing the utility during the period that
11	the ROE is in effect. I argue that given the
12	evidence that's in this proceeding, that the short
13	term risks, those volatility risks should be the
14	primary driver, the primary informant of the Régie,
15	as you consider the business risk portion of the,
16	of setting the ROE.
17	If there were in fact capital recovery
18	risks in the short term, these should also be
19	included, but nobody is claiming that there's any
20	likelihood, in the few years, that's there's any
21	capital recovery risks for any of the utilities.
22	If they were in fact present and well
23	justified capital risks, in other later periods,
2 4	than those could be taken into account even during
25	the immediate period. However, no such risks too my

mind have been sufficiently justified in this
proceeding, and this comes from a preview of my
conclusion, you might already have read it, and
doctor Rahbar draws on my conclusion perhaps in her
statement and recommendation.

That if, if there were further analysis done to really actually analyse these risks and show how they might come to pass, with what likelihood and under what conditions, and if they would perhaps not be mitigable through appropriate regulatory and financial action, then, yes, we should, we should take that into account. But the question is, has that been shown here and my answer is no. I think that the utilities should do that analysis and come back and we can revisit these questions.

So now I'm gonna turn and talk a little bit about the short term volatility risk and what the real world tell us about with respect to that.

Thank you, Madame Clerk, you can go on to the next.

A refresher, a few notes about the short term risk. Volatility risk. Volatility in returns is associated with risk as doctor Brown's state.

"Other things equal, investors prefer returns that are less volatile." In general that means that

1	lower volatility investments are preferred by
2	investors and what's being preferred by investors
3	means, in practice, is that the investors are
4	willing to accept a slightly lower overall return
5	in exchange for lower volatility. So that means a
6	lower cost of capital if the volatility is lower.
7	There of course a number of different
8	kinds of regulatory tools and this is where we get
9	into the role of the regulator as a shaper of these
10	business risks. Deferral accounts, decoupling,
11	multi-year rate plans, regular recurrent frequent
12	rate cases confirm or eliminate regulatory lag and
13	thereby lower business risk by reducing that year
14	to year volatility.
15	Low volatility of returns is an indicator
16	of short regulatory lag. I heard doctor Brown
17	testified earlier in this hearing that if the
18	regulatory lag is not existent or very short, then
19	you expect the allowed and achieved ROE to be very
20	close to each other.
21	Québec's regulatory policy has in fact
22	established these kind of tools for Énergir and
23	Gazifère. And utilities, they have in fact
2 4	demonstrated low volatility in their returns. While
25	consistently exceeding their allowed rates of

return. So these tools are successful. They are
delivering low regulatory lag, and thus low short
term business risk for the utilities. You can go
the next slide, we will see what the actual numbers
show for Énergir and than Gazifère, so slide 10
please.

For Énergir, this is a plot of data that was provided in a data request filed in this docket. The allowed returns in blue, the achieved returns in orange. We see that Énergir achieved returns have ranged between nine and eleven and a half percent (9-11.5%) over the course of the last twenty (20) years. Overwhelmingly between nine and ten a half percent (9-10.5%) for the last fifteen (15) years. And if you were to calculate the standard deviation of this, of this orange curve, it's half a percent (0.5%). So, there's some variability but it is, it is of half percent (0.5%). Next slide please.

For Gazifère. It's a little bit noisier.

You can see that visually but also the calculation of the standard deviation of this, of this data is, it's a little bit less than point seven (0.7). So yes, it's, it's almost one and a half time noisier than the Énergir returns. But it still, apart from

2.5

1	few excursions resides between nine and eleven
2	percent (9-11%) through out this draft's period
3	Next slide please.

So, remember that the purpose of this analysis is to inform the comparative risks between the proposed benchmark gas sample, or other utility sample, with the Québec Utilities. So, doctor Brown did a qualitative analysis. He looked at the words in the 10-K filing for the descriptions of the regulatory structures in which the US gas sample operates. And concluded the utilities in the sample have similar regulatory lag to Énergir because they have similar use of deferral accounts or decoupling and that sort of things.

If they had a similar regulatory lag, they should have similar volatility in their achieved returns, which they do not. They also, on average, underperform their allowed ROE. Although, the focus of this analysis is on, is on risk and variability rather than overall level of report. I'll come back in a moment, to the question of whether the gas sample is a suitable one. And whether there... this is possible that one of the reasons why the risk is different, it's because the actual businesses that the utilities are in, are different. We'll look at

1	those numbers on volatility. Next slide please.
2	So these are the allowed or the achieved
3	returns on equity, over the course of the last ten
4	(10) years for the nine utilities in the US gas
5	sample. The grey area is the range of data that we
6	were able to find again in 10-K forms for the
7	allowed rates of return. Not all companies file all
8	that information nice and neat in that sort of
9	table in their, in their 10-K file. So we can, we
10	can at least look at their achieved returns.
11	I see that they vary all over the place.
12	Some of them, some of the utilities have
13	experienced losses in a given year. Their
14	variability year to year amounts several percent
15	level, if you follow anyone of these curves across,
16	they're a handful that are relatively stable but
17	many of them jump around quite a lot. So we see the
18	standard deviation of these, that's on slide 14.
19	Next slide please.
20	The standard deviation of those currents
21	for the nine utilities in the US gas sample. One of
22	them, Chesapeake has a standard deviation that is
23	smaller than Énergir's. The other eight are larger,
2 4	are larger and in many cases distinctly larger. You
25	know a good more than three percent (3 %) standard

1	deviation	range in	n the	spread	οf	variability	of
2	their achi	leved ret	turns.	Next s	slid	le.	

So, what can we conclude from this? There's a lower regulatory lag and lower volatility of returns for Énergir and Gazifère than there is for the US gas utility sample. Which indicates a lower level of short term business risk. All else equal, this implies that Énergir and Gazifère should have a lower cost of capital than the US sample as presented by the utilities' witnesses. Next slide.

I'll take a moment and... revisit the question of the suitability of the US gas sample.

One option for why the volatility could be so much higher, in the US gas sample, is that it includes companies that have substantial business outside of regulated gas distribution, and thus are simply facing different risks, different business risks.

Or it may even be just a different class of company entirely, therefore a different financial risk, from Énergir or Gazifère.

So, a few examples: Chesapeake, fifty-one percent (51%) of its assets are in regulated gas distribution. The bulk of the rest are in gas transmission, which is a different business. Note this is the point for which I had that correction

1	in my pre-filed testimony.
2	South Jersey Industries, slide 16 please,
3	South Jersey Industries, less than half of its
4	revenues come from its regulated gas distribution

5 utility operations.

2.5

New Jersey Resources that is the one of the nine that was labelled as mostly regulated in Dr. Villadsen testimony. Fifty-two percent (52%) of its assets are in gas distribution, it also developing solar generators and engaged in wholesale and retail gas supply, transportation and storage.

Northwest Natural is today, actually pretty close to a pure-play gas distribution utility.

However, during the analysis period covered by Dr.

Villadsen's work, it owned an unregulated gas storage business and in twenty-seventeen (2017) it took a substantial loss from its investment in that, in that business. If we were to look at that noisy return target that Northwest Natural took a big dip in twenty seventeen (2017), and that's because of this unregulated business that it was involved in.

Similarly there's other kind of risk that you might want to think about, taking account of in the... in the suitability of sample. One of these

1	companies is NiSource, it had a gas-related
2	disaster, it started distribution and it blew up in
3	Massachusetts near Boston and it was basically
4	forced to sell its gas distribution business in
5	Massachusetts as a result, all during the analysis
6	period in which it is being put forward as a as
7	a benchmark, you know, a proxy that can be use to
8	evaluate the risk of Énergir and Gazifère.
9	So, in conclusion looking at this structure
10	pieces were left with either of two options. One is
11	that the gas sample is a suitable one, but the
12	regulatory lag in practice is dramatically
13	different for the gas US gas sample and for
1 4	Quebec, and thus the you should consider a lower
15	ROE for the Quebec Utilities, or alternatively that
16	the sample itself is actually not a good proxy,
17	because the volatility in its results are not
18	because of the regulated gas distribution
19	businesses that are part of those companies, but
20	because of their unregulated actions, which in
21	that in that conclusion would flow through to
22	question the use of those companies of proxies at
23	all and would challenge much of the test players in
2 4	this case.

So, I think, you know, I largely come down

_	on, on the willingness to be okay with the sample,
<u>)</u>	but but sceptical at the very least, I conclude
3	that business risk on the short term basis for the
1	Quebec Utilities is lower than for the US gas
5	sample.

Now, let's make a turn to the long term, that is capital recovery risk. Madame Clerk, you can go for slide 18 if you like.

remember what we mean by this long term capital recovery risk, the two different pathways that can happen. One is essentially a regulatory risk that the regulators might find. First you have to have assets that were no longer used and useful, and then the regulator would have to say: "We're not going to let you... we're not going to develop a deferral account, we're not going to do some sort of other accommodation, we're not going to securitise it." Whatever, you're not going to recover it or recover it with some lower, some lower rate of return or something like that.

The other potential long term risk comes from competition where it might be... it might come to pass, how you actually -- not actually earning your rate or return is if you simply charge enough

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1	money to the ratepayers to recover your full
2	revenue requirement. So, the potential things that
3	could potentially, you know, they have been
4	positive things that could lead to this kind of
5	risk and uncertainty in Quebec.
6	First, and in particular, remember we are
7	in a differential case, so the question is: what's
8	different between Quebec and elsewhere? The
9	policies and actions to reduce greenhouse gas
1 0	emissions can be different, and the competitive
11	position of gas versus electricity may be different
12	and those are closely related and could create some

So, one thing that I tend to do when I'm looking at policy context is to remember that there are policies that can be implemented at multiple levels. The national government and all governments of both US and Canada have committed to net-zero emissions in twenty fifty (2050) as part of their filings in response to the Paris Agreement.

sort of capital recovery risk. We will look at each

of those in turn. Next slide, please.

So, both US and Canadian utilities across all states and provinces face national over drivers to reduce emissions as part of that path. I expect that the long term energy transition impacts on

1	different	types	οf	utilities	are	roughly	comparable
2	in the two	o coun	trie	es.			

That said, you got to think about what impacts is it likely to have on gas utilities over the course of, say the next decade, recognizing that we're really concerned here about what the risks are in immediate term, but if you could really see that a real risk was going to occur in seven years out or twelve (12) year out, it would be prudent and appropriate to take that into account.

So, what's likely to happen over the course of the next decade? So, I concluded in my evidence that the impacts on gas utilities are likely to be modest over the next decade, sales impacts rather than asset level, capital recovery impact. Even the sale impacts are relatively modest, there's a couple of drivers for this. The technology that you would need to use to compete with gas are themselves... don't have a large market share in many places today where there's a lot of gas. It takes time for those technologies to penetrate markets.

I know in Quebec, the electric heating
market is well established, but the newer

1	technologies using heat pumps, for example, that
2	are likely to be of interest to folks who are
3	electrify are not yet fully mature in term of
4	market opportunities. Their market would have grow,
5	a lot more people would have to learn how to
6	install them well and, you know, a bunch of
7	different changes need to take place.

Even if those new technologies did rapidly become the dominant technology, the plough for heating for example, that's for water heating, the stock turn over time for heating equipment are generally long, ten (10) years for water heating, fifteen (15) or more years for space heating equipment. So, the replacement timescale is muted.

Folks who have looked at this and tried to model out what that looks like generally indicate about a twenty percent (20%) sales impact by twenty thirty (2030) to be on track to net-zero in twenty fifty (2050). U.S. analysis point to about an eighteen percent (18%) effect, Énergir's Resiliency Plan, the first one, I know there's a second in the record now too for twenty twenty-one (2021), point to about a twenty-two percent (22%) reduction sales, that implies about a twenty-two percent (22%) reduction in sales to equip the buildings as

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1 part of being on a policy-consistent path.

So, the course of reduction in gas

throughput is not directly causally linked to the

capital recovery risk because utilities can take

actions to mitigate the impact of sale changes on

capital recovery, with honestly, when necessary,

working with their regulators, but in some cases

with decoupling, for example, an automatic

adjustment would account for that even in three

years. Next slide please.

I'll take a moment to look at competition risk. Again, the risk is not the competition might lead to a reduction in sales because as we just said, reduction sales alone does not create a capital recovery risk. The impact would have to be that if the sales reduction happened, you have to raise rates enough to recover that and eventually get to some point where you can't raise rates any further. If you raise rates any further, sales drop even faster. There's simply isn't a rate where the whole revenue requirement can't be recovered and you end up to earn less than your, what would otherwise be your revenue requirement.

You simply can't do rate times volume,

there isn't an available product there that

1	actually works in the market place, if you don't
2	have that product to get to your revenue
3	requirement then you might fail to earn it, that
4	would show off as a capital recovery risk.
5	Regulators and utilities would almost
6	surely work together to avoid getting to this
7	point. Right? There are a lot of tools they can
8	use, and I'll talk about them in a moment, to avoid
9	getting here and So, the question of how likely
10	is such a situation and how mitigable is it is
11	relevant. I know there's this question of, you
12	know, Dr. Brown stated and one of the members of
13	the Régie asked about this earlier: if there's not
14	actually any real chance that the the capital
15	recovery risk would actually come to pass, right.
16	There's no particular proposal here that any
17	that this future is actually likely to come to
18	pass. The only question is: what is there's some
19	risk, because we don't really know what path would
20	be use, how it will be mitigated. And so, that
21	that's a concrete risk, so I'll address that coming
22	up in a few moments.
23	I do want to remember that we're talking
2 4	about comparison here again between Quebec and the
25	US sample. There is no evidence in the docket here

about how the comparative position of electric and
gas actually compares between Quebec and in the
various jurisdictions in the US sample. Doctor
Brown simply asserts that because electricity is so
cheap in Québec, the, it must be that the
competition risk is greater in Québec than
elsewhere.

But I think it's important to actually do a quantitative analysis of the relative competitors of electrical and gas. Given the different markets, given the different climate in those different places, and actually understand to what extend that understanding is backed-up by data.

there is a difference in the amount of savings for being, for heating with gas versus electricity in different places, that doesn't necessarily mean that there is a difference in a relative competition risk between those places. If gas has a two to one hedge over electricity in Québec, and its three to one hedge over electricity in some US state, changes in the price of gas by a factor of fifty percent (50 %) would still leave gas with a distinctive competitive advantage and not necessarily lead to mass defection for example.

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1	So, the how much room there is, how much
2	possibility there is in that competition equation
3	matters. Next slide please.
4	Again, now let's think about what the
5	evidence actually shows about behaviour around
6	competition in Québec. If we look back over the
7	last twenty-five (25) years, Québec customers have
8	continued to use gas, even when gas prices were
9	substantially higher, like three times higher than
10	they have been recently. I don't know if there's a
11	raise current, you know, near term spike, that is
12	not reflected here related to a global advance
13	exporting of gas to Europe and war, and all sort of
14	things. That doesn't account for that.
15	But, just look on the annual data of

But, just look on the annual data of twenty-twenty (2020). There is a point in, you know... basically before fracking in the US, you know, before it became a large amount of natural gas export, low cost natural gas available in North American, when gas cost about three times what it was in the last few years.

If we'd look at the requests for whom Énergir and Gazifère have most of their infrastructure: the small pipe. They serve some commercial and institutional customers. They have,

they showed, you know, relatively indifferent
behaviour in their consumption to a gas price that
was distinctly higher, you know, equivalent to a
quite large carbon price, for example, I can't
remember the number but you can imagine that you
have to pay a very large carbon price to triple the
cost of the deal.

Industrial customers, seem more sensitive, yes, you watch the industrial use go down if the price go up, the price comes down and industrial use goes up. But again the asset risk is much lower in the industrial case because the amount of assets built to serve industrial customers is small relative to the other classes.

If we look at the analysis about the bill advantage of gas versus electricity. Gazifère filed an analysis that showed that in the past, up to the present, the customers using gas had distinctive lower bills than those using electricity. The updated Énergir Climate Resilience Plan that was filed in this hearing, shows a continued competitive advantage for gas over electricity into the future, while accounting for executing the plan with the use of higher cost renewable natural gas. The bi-energy proposal in a residential center etc.

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-	So, overall I conclude that there's likely
2	to be considerable room for gas rates to rise with
3	associated with falling sales - but also
1	crossing a tipping point where the utility would be
5	unable to recover its revenue requirement and you
ō	get some sort of death spiral situation.

I agree that it is unlikely that we would, Québec would find itself in that situation, you know, there's basically zero chance that the utilities would find themselves in that situation both because the actual conditions to create that situation would themselves be quite a change from the status quo, it will take some time to get there. And because we would, Québec and the Régie and utilities would use that time, to take various kind of mitigation actions.

Again, I care in a business risk context about the actions that folks might take to address risks and not just some sort of external set of cards that are dealt and must be paid. Next slide.

So thinking about what the mitigation actions are that might take place over that coming timeframe as energy transition proceed.

The first is, the potential and the need for planning. Faced with known projections forward

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of what the changes in sales or at least the changes in emissions needs to look like, utility managers can mitigate their risks by developing a business plan for managing the firm in the face of that changing policy and competitive context.

Such a plan would identify and quantify risks and opportunities, including when they would impact the company, and what their impacts would be. This kind of plan assessment would include assessing the roles of the electric and gas utilities. What the sales forecast would be under different scenarios. What infrastructure would be needed under different scenarios. What happens under different gas prices forecasts for fossil gas, different kinds of customer counts and consumption patterns by different type of customers, industrial customers might be really quite different from residential customers, for example. And of course, the availability and cost of alternative fuels, RNG, hydrogen and other things.

Even simply having such a plan, would itself reduce uncertainty regarding the future of the company business and thereby lower investor risk. Investors coming to a company facing energy

transition might say: I'd like to understand w	hat
your plan is, how are you dealing with that. A	an d
company says: We don't have one. That is likel	y to
be a riskier response in term of the demanded	
return or the willingness to invest, than for	a
company that says: I know, here's our plan, th	nis is
how we're going to adapt to that, this is how,	this
is why your investments still works.	

Aust to clarify whether this kind of plan exists or has been done. I think the seed have been planted for it but it does not exist today that I've been able to find. The earlier Resiliency Report of Énergir starts down this path, the updated one shows some analysis that indicates some further work has been done. The slide, the page 33, if I remember the page number right, there's a chart in this, a text there about accounting for reduction in sales, what is it going to rates, etc. So, the ideas are there. I think we're again starting down the appropriate path but we're not there. Next slide please.

Once, of course, you have a plan there are different kind of things you can do. I've identified four different classes or ideas of potential mitigation actions. Obviously I don't

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trust that I know everything about managing a
utility. I expect that the folks in the utilities
when they conduct this analysis will come up with
other ideas. But here's a few to give you some
examples.

Firstly, there's of course to be really careful about examining any choice to invest in new gas infrastructure. If you're worried about capital recovery risk, investing in more capital, you want to be careful about that. This includes understanding what is the useful life of that infrastructure is likely to be, which inform the appropriate depreciation rate for example, and consider what the options are for non-pipeline alternatives, to be able to have just less capital at risk in all.

The second item: the utility can reevaluate its depreciation approaches for each type of utility's asset, including differentiating among, what might be today lump together as similar kinds of assets, but if they serve different types of customers, then different long term usage patterns for those assets, then you might need to differentiate there and depreciate those of different timelines to reflect their actual useful

1 life.

That utility could develop partnerships with electric utilities to meet the electric utilities winter peak needs through the gas system, subject to regulatory approval of course. This, of course, the bi-energy approach, this one has been proposed in a number of different places in the U.S. as well. But no one is as far along as Québec in terms of actually proceeding toward that sort of idea.

There's, of course, looking at low-carbon fuels, understanding them better, developing them, the green hydrogen, biomethane, what their cost is, what their availability is, what the market is going to hold for them, what customers might demand, you know, maybe industrial customers would have particular demands for hydrogen, for example, so speaking about that from a market development standpoint.

There's also understanding what it's going to mean for physical infrastructures, hydrogen can cause damage to some kind of metal pipe, so you want to be careful about it, about what this is going to mean for infrastructure cost. Next slide, Madame Clerk, slide 24.

- 1 Q. [7] Madame la Greffière, peut-être aller à la page
- 2 24.
- 3 R. Okay. Thank you very much. So one of the things of
- 4 that I lay out about this is the question of what
- 5 lessons to be learned from all the utilities that
- 6 are perhaps a little further along this path,
- 7 particularly on the planning front and I think you
- 8 would... you know, well, you might take initial
- 9 actions as the bi-energy for example, without
- 10 necessarily having a full plan mapped out, I think
- 11 you have to do planning first and then revisiting
- 12 plan makes a lot of sense to me.
- 13 So Green Mountain Power, a sister utility
- 14 to Énergir, the leading electric utility in the
- 15 state of Vermont, has conducted some planning that
- 16 I think that Québec gas Utilities could learn from
- 17 not necessarily (inaudible) it's an electric
- 18 utility, it's in a different place, right. But in
- 19 terms of the kinds of things that it takes into
- 20 account.
- 21 So GMP, Green Mountain Power has produced
- 22 recently a couple, two different documents: a
- 23 Climate Plan, an Integrated Resource Plan, both of
- these are filed with their regulator and have been
- approved or acknowledged by the Public Utility

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Commission in Vermont, and they take an integrated view across the utility's operations and particularly connecting with their financial and regulatory approaches in this context of long term planning.

I know the question of Integrated Resource Planning had been mentioned a couple of times in this hearing, in order to clarify the Integrated Resource Planning part of this, is in fact required by Vermont State Law. I talked about my role in helping to, you know, resuscitate that process and making it an effective one, when we were talking yesterday.

But the Climate Plan part of this, that's utility management led. The regulator didn't ask for that, the legislature did not require it, utility management saw the need for this kind of work, and set out to do it. That is a proactive utility leadership on understanding these pieces.

So potential lessons to draw from the analysis of the GMP planning processes. First, the importance of long term business planning. Second, the value of taking an integrated view across the whole of a utility's business including the drivers and needs of various different kinds of customers.

1	And the need for the plan and the actions
2	associated to that plan to be developed within a
3	particular policy and economic context where they
4	operate.

You know, Vermont is not the same as the

New Hampshire, is not the same as Québec, is not

the same as Massachuset. And reflecting the

particular needs for climate change mitigation,

adaptation, associated risks, you know, Vermont

will experience particular kind of changes in,

because of climate change, and that will have

particular impacts on GMP's electric system assets.

And so it is accommodating and working with that

particular context in mind.

And finally, the importance in these lessors is integrating the utility's financial and regulatory positions and approach into the planning process, including laying out in detail how those financial aspects of the utility need to adapt as the plans are implemented. Next slide, please.

So you know, you are aware that various actions are underway in Québec, that are, you're acting to mitigate these kinds of long term capital recovery risks, the first obviously is the bienergy proposal, dual-fuel approach to building

1	decarbonization, in which the gas system act as a
2	sort of peaker, non wired alternative in some
3	sense, on peak days in the winter time.
4	I point out essentially what this bi-
5	energy direction would mean, it is essentially a
6	new business model for Énergir and which in
7	addition to having normal rate paying customers, it
8	has a new customer. Its customer is Hydro-Québec
9	Distribution and it provides a new kind of service.
10	It provides a electric peak mitigation service,
11	right. And by being in this new line of business,
12	it can mitigate rate concerns from decarbonization
13	for other Énergir customers, that helps to mitigate
1 4	the capital recovery risk for Énergir shareholders
15	as the utility officials indicated that it does,
16	earlier in these hearings.
17	Also discussed earlier in this hearing, and
18	I admit that all I know about this is what was
19	literally been talked about in these hearings, but
20	I thought, it was relevant and interesting, so I
21	put it here. There is a potential proposal
22	mentioned by Énergir to change the protocols
23	profitability required to support new customer
2 4	interconnection, that would have some effect on

selecting which customers get some sort of

1	assistance essentially on and how the economics
2	work of new customers interconnections.
3	This is essentially an implementation of
4	the first item on my you know, potential actions
5	to consider list, to examining any choices to
6	invest in new gas system infrastructure and taking
7	into account the useful life of that
8	infrastructure.
9	But these risk mitigating actions are, you
10	know, present. They are being discussed in Québec
11	and can be pulled together in a more comprehensive
12	way. Next slide.
13	So again, you know, we have been talking
14	about Québec for the last little while but the real
15	question here is, how is the, how are the risks in
16	Québec different from the risk in the U.S. gas
17	sample. And so, you know, if the U.S. gas utilities
18	were engaging in all sorts of risk mitigating
19	actions, the planning in the Québec utilities work,
20	right, then that would, that would be informative.
21	In fact, if anything it's the other way
22	around. The U.S. gas sample utilities are only just
23	beginning to conduct the kind of analysis and
2 4	evaluating actions of the sort that I have
25	discussed and recommended. One particular example

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of actually taking action, a state taking some
actions that are driven by jurisdictional policy,
is in Oregon where Northwest Natural is one of the
gas utilities. They passed a net zero requirements
law in a last year or two and that is spurring
their regulator and gas utilities in Oregon, to do
much more comprehensive planning about what the
future of their businesses looks like.

To my knowledge none of the U.S. gas sample utilities have proposed risk-mitigating actions, much less received any approval for those actions on a scale or on a potential of the Énergir Hydro-Québec bi-energy proposed structure. Next slide.

So, a note here on the question of, in the long term piece around industrial customers, you know, Aviseo identified potential risks around a large portion of industrial customers, and what that can mean. You know, we saw in the sales figures that industrial customers are more price sensitive, demonstrably it appears, than other customer classes in terms of near term variation but with respect, you know, even that, as I said, is mitigated. For all the reasons, we just talked about before.

But on the industrial customers front, in

1	the long term risk, my assessment is actually
2	rather then being a source of risk, the net risk in
3	the context of decarbonization, industrial
4	customers are likely to be a source of opportunity
5	on that for the gas utilities, they're less likely
6	to electrify than other rate classes, Dr. Rahbar
7	describe it up as an amazing cost for
8	potentially for a customer to electrify their
9	operations. And they're more likely, therefore, to
10	be demanding biomethane and hydrogen delivered by
11	pipe, as part of their approach towards net zero by
12	twenty fifty (2050).
13	Industrial customers who are now using
14	liquid petroleum or perhaps coal or other fuels,
15	may find it advantageous to connect to pipelines
16	first to access to natural gas but in a longer term
17	to access low-carbon gases, again hydrogen or
18	biomethane.
19	And, you know, a little more speculatively,
20	there is a potential opportunity if folks running
21	those facilities are trying to capture the CO2,
22	that has to be sequestered as part of their
23	approach towards net zero, there is of course a
2 4	pipeline need for the CO2. It is another potential
25	business area to be to investigate on that front

1	(inaudible)	more	speculative.	You	can	go	to	29,	if
2	you would la	ike.							

So a few concluding items with respect to industrial gas distribution utilities. On this short term volatility risk, the analysis of the actual numbers shows that there's less, less volatility related risk for the Québec utilities than for the U.S. gas sample.

With respects to the long term capital recovery risk, particularly with respect to the potential to take various different kind of planning and mitigating actions, that would be identified in that planning process, you must really, have a lower long term capital recovery risk, after taking in those kinds of... doing that kind of planning and settings those kinds of actions in motion than today's U.S. gas sample does, where the big U.S. gas utilities are not taking any of these kind of actions or doing any of that kind of planning.

The low short term risk that is much more backed-up by evidence or analysis in this proceeding and who's timeframe aligns with the timescale over the next few years should be given primary weight in evaluating what the approved

1	appropriate	allowed	ROE	is.

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2 And then, I would recommend that on that long term risk piece, that in order to really 3 4 understand what's going on, that the utilities 5 should complete comprehensive business plan and 6 risk assessments before they come back to the Régie 7 in a few years, and we can have a more 8 comprehensive and informed discussion about what 9 that long term future looks like.

I'll note here that Énergir and Gazifère may face different long term risks due to their customer composition, in particular, which could be identified in their detailed company specific analysis.

With respect to the short term risk, I don't see a great deal of difference, the difference to standard deviation of 0.5 and a standard deviation of 0.7, when they're both really stable and both achieved their allowed ROE year in and year out, doesn't seem to be particularly different, even though I recognize that Gazifère is smaller, but that doesn't seem to have resulted in dramatically different variability because of these different kind of things to reduce regulatory lag.

So, we can spend the last couple of moments

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1	here on Intragaz which is in an entirely different
2	boat, from my perspective. So, we can go to slide
3	31. Thank you. So, Intragaz, there are no direct
4	peers to use as some sort of comparison sample, you
5	know. There aren't regulated gas storage only
6	publicly traded companies, right, that you can go
7	out and, you know, pull them down for some sort of
8	sample and figure out what their cost of capital
9	is.
10	So, we had to start from principles and

So, we had to start from principles and think about what risks does this company faces. But we can't... we don't have a sample to compare, we don't have any particular metrics to compare.

I will say that there's a history of coupling Intragaz and Énergir, it may makes sense for some reasons, but from a business risk perspective, I see them as really quite different.

Intragaz has one customer, Énergir. Énergir has a large and diverse customer base. So, the question of size and serving different customers is really quite different for the two of them.

Intragaz's customer is a rate-regulated utility which cannot take advantage as sole buyer to mess with what it pays to Intragaz. And in fact, he partly owns Intragaz. But Énergir has customers

1	who are households and businesses, you know, we
2	discussed that.
3	Intragaz has competitors, there are other
4	storage and pipeline providers who can help who
5	can help Énergir meet its needs to reliably supply
6	customers.
7	Énergir faces competition from different
8	fuels, from electricity, and others fuels to meet
9	its customer needs. So, they really are
10	fundamentally different businesses and we shouldn't
11	expect their business risk to necessary line up.
12	Next slide, please.
13	So, the only appreciable business risk that
14	I identified is that if Énergie will somehow
15	decide, well, could decide, that the appropriate
16	way of managing its system is to purchase other
17	resources to help meet its meet their needs
18	rather than to buy storage from Intragaz.
19	So, of course, the timeframe for our
20	interest is the next decade or so, for which the
21	ROE would be set and for which we have a reasonable
22	level of visibility about how what the future
23	might hold.
2 4	Over the course of that decade,
2 5	policy-driven changes in the gas system will likely

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1	have little effect on Intragaz, to the extent that
2	Énergir is using RNG as required by Quebec policy
3	up to ten percent (10%) in twenty thirty (2030) and
4	more after that most likely. Biomethane is
5	biomethane, it's stored in a storage facility just
6	as well as fossil methane, it's the same chemical.
7	Énergir's load shape may become more peaky
8	as its winter peak day demands remain while
9	electrification reduces demand on warmer days, this
10	would be an effect of the bi-energy approach,
11	higher rate approach.
12	And a peakier load would actually improve
13	the competitiveness position of local storage
1 4	relative to pipeline capacity. If you're trying to
15	think about different options for for meeting a
16	peak, a winter peak, local storage with
17	relatively that's just trying to serve needs on
18	a few coldest days is a pretty different and more
19	attractive proposal than, you know, paying for
20	capacity that you then have to hold during
21	sixty-five (65) days a year to only use on the
22	coldest days, instead the storage has a compelling
23	peak here that demand has been more compelling with
2 4	business risk for storage.

So, in conclusion, from my perspective

PANEL 2 - ACIG Examination Me Paule Hamelin

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- 1 Intragaz faces very low business risk and should...
- 2 the proportion of its allowed return on equity
- 3 should reflect that low risk. I also think that
- 4 Intragaz should do long term planning obviously
- 5 closely in concert with Énergir about what Énergir
- 6 thinks its future would look like and how it will
- 7 use... how it will need storage. It might be that
- 8 the way that you use storage is different in the
- 9 future and Intragaz should be making investments or
- 10 otherwise changing its systems to try to match
- 11 that.
- 12 That concludes my testimony.
- 13 Me PAULE HAMELIN:
- 14 So, Mister Chairman, I will not have any further
- questions for Mr. Hopkins, so he's available for
- 16 cross examination.
- 17 LE PRÉSIDENT :
- 18 D'accord, mais on va prendre une pause de quinze
- 19 (15) minutes avant de passer aux questions. Donc,
- on se reverrait... on se revoit à dix heures
- 21 cinquante-cinq (10 h 55). Merci.
- Me PAULE HAMELIN:
- 23 Parfait. Merci. So, Mr. Hopkins, we'll take a break
- for fifteen (15) minutes
- 25 R. Okay. Thank you.

1	SUSPENSION DE L'AUDIENCE
2	
3	REPRISE DE L'AUDIENCE
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5	LE PRÉSIDENT :
6	Rebonjour. Alors, est-ce qu'on a un
7	contre-interrogatoire des demanderesses?
8	Me PATRICK OUELLET :
9	Oui. Ce sera maître Georgescu qui procédera au
10	contre-interrogatoire du docteur Hopkins.
11	LE PRÉSIDENT :
12	D'accord.
13	CROSS-EXAMINED BY Me ADINA GEORGESCU:
1 4	Bonjour, Monsieur le Président. Bonjour, Mesdames
15	les Régisseurs. C'est un plaisir d'être devant vous
16	ce matin à nouveau. Je ne sais pas si maître David
17	vous aviez quelque chose à à nous partager, je
18	vois votre caméra ouverte, avant qu'on débute le
19	contre-interrogatoire?
20	ME ÉRIC McDEVITT DAVID :
21	Non non non, je suis juste ici pour surveiller la
22	bonne la bonne marche du contre-interrogatoire.
23	Me ADINA GEORGESCU :
2 4	Bon. D'accord.

Q. [8] Alors, good morning, Dr. Hopkins.

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1	R.	Good	morn	ing.

- 2 Q. [9] It's a pleasure to speak to you again this
- 3 morning. So, I will... I will be cross examining
- 4 you today. I'll have a few questions on the
- 5 testimony that you just... that you just made. So,
- 6 to start with, I'd like to take you to your
- 7 response to IR... the IR that the Régie submitted
- 8 to you, which is Exhibit C-ACIG-0048.
- 9 Madame la Greffière, est-ce qu'il serait
- 10 possible de mettre à l'écran la réponse du docteur
- 11 Hopkins à la DDR de la Régie, C-ACIG-0048, s'il
- 12 vous plaît. Merci beaucoup. Puis, si c'est possible
- de descendre à la page 3. Peut-être un petit peu
- 14 plus bas. Oui, juste au-dessus de Gazifère. C'est
- parfait comme ça. Merci beaucoup.
- So, Dr. Hopkins, I'm referring you to the
- 17 passage that is right above the title "Gazifère"
- 18 where you say... where you say... So, the Régie was
- 19 asking you here to comment on whether or not,
- 20 according to you, the business risk of Quebec
- 21 Utilities increased, diminished or was maintained
- 22 since the Régie's last decisions on the rate of
- 23 return for these Utilities. And your conclusion for
- 24 all three Quebec Utilities is formulated as
- 25 follows, and I'm reading just the one for Énergir,

his preference for highly weighted short term risk in the context of this proceeding, with an expectation for a return to the Régie with better long term analysis in a few years, Dr. Hopkins would say that Energir's relevant business risk is lower today than it was in 2011. Do I understand correctly that your position to give higher weight to short term risk is based on your personal preference and not on a regulatory principle for instance or a specialized literature or a regulator's decision? R. It's based on my understanding of being able to ground regulatory decision making in I understand that are more concrete that are better known. The short term risk is much better quantify, much better analyse in this proceeding, than long term risk and so I've given, given more weight to that portion of the evidence that is	1	but the others are the same or they're drafted the
lack of evidence on long term risk and his preference for highly weighted short term risk in the context of this proceeding, with an expectation for a return to the Régie with better long term analysis in a few years, Dr. Hopkins would say that Énergir's relevant business risk is lower today than it was in 2011. Do I understand correctly that your position to give higher weight to short term risk is based on your personal preference and not on a regulatory principle for instance or a specialized literature or a regulator's decision? R. It's based on my understanding of being able to ground regulatory decision making in I understand that are more concrete that are better known. The short term risk is much better quantify, much better analyse in this proceeding, than long term risk and so I've given, given more weight to that portion of the evidence that is	2	same. So:
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better known. The short term risk is much better quantify, much better analyse in this proceeding, than long term risk and so I've given, given more weight to that portion of the evidence that is	19	ground regulatory decision making in I
quantify, much better analyse in this proceeding, than long term risk and so I've given, given more weight to that portion of the evidence that is	20	understand that are more concrete that are
than long term risk and so I've given, given more weight to that portion of the evidence that is	21	better known. The short term risk is much better
weight to that portion of the evidence that is	22	quantify, much better analyse in this proceeding,
	23	than long term risk and so I've given, given more
better established in the record and less weight to	2 4	weight to that portion of the evidence that is
	25	better established in the record and less weight to

1 that which is less so.

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In addition, the timeframe on which the

long term risk, the capital covering risk might be

experienced, is, is much longer and is further out

in the future and more uncertain. And so, it may,

it is appropriate in my view to ground the analysis

in that part of the evidence, again, which is more

certain.

9 Q. [10] But isn't the evaluation of business risk

10 based on determining the level of uncertainty?

10 11 R. So, we have a, we are going to get ourselves in a 12 little bit of (inaudible) conversation here. I want be careful about words. So, there's uncertainty 13 about whether certain adverse things might come to 1 4 pass. That's risk. And then there's uncertainty 15 16 about how well we even know about those things. It's an uncertainty about risk. Right? And if we're 17 trying to weigh different kinds of risk, different 18 kinds of uncertainty, and combine them together in 19 some overall assessment. If we are more certain 20 21 about some kinds of risk, less certain about other 22 kinds of risk, I imagine that both of those are

kinds of risk, I imagine that both of those are
risk about uncertainty, I makes sense to me, and I
think it's justified to give more weight to that
evidence which is more certain, which is a bit of

- 1 less uncertain.
- 2 Q. [11] So your position here, when you mentioned here
- 3 that you have a preference for highly weighing
- 4 short term risk, it's really based on the fact that
- 5 you consider you have more elements in your
- 6 possession to be able to assess short term risk and
- 7 you will not assess long term risk because you
- 8 consider that you don't have sufficient information
- 9 to do so. Despite the fact that maybe there's no
- 10 regulatory principle giving more weight to short
- 11 term risk than the long term risk?
- 12 R. I wrote there in that text that the lack of
- evidence on long term risk is part of my assessment
- 14 about weighing the short term piece more heavily.
- 15 The underlying regulatory principle is really one
- of the... giving more weight to those things which
- 17 are more certain. And in addition, you're drawing
- 18 an analogy from the financial constructive present
- 19 value to discount rate that we can measure, it's a
- little bits stretch as a metaphor, I don't know,
- but if there's something that is a way out in the
- 22 future, and the future is less well known that the
- 23 present, and we would want to give some...
- 24 appropriately give some discount to potential
- 25 things that might happen in the future. Simply

1	because the future is more uncertain than the
2	further out you go in the future the more uncertain
3	it is. We think about a proposed timescale of
4	thirty (30) or forty (40) years, for example.
5	If we were trying to make an assessment in
6	a proceeding like this in nineteen eighty-two
7	(1982) or nineteen ninety-two (1992) and trying to
8	say what is the risk profile going to look like in
9	twenty twenty-two (2022), thirty (30) or forty (40)
10	years in the future? With the help of hindsight how
11	much in twenty twenty-two (2022) would we have
12	gotten, right? How well, how well would we have
13	understood what risks that we were facing from a
14	pre internet age, you know, etc. The level of
15	changes in the economy, the level of changes in
16	technology are substantial. So, taking that, we
17	need to look, give some, some greater weight to
18	those pieces again which are better known and more
19	likely to be assessable in the near term.
20	Q. [12] So, so you said a little bit earlier that you
21	based, you based your position on the regulatory
22	principle that you need to give more weight to what
23	is, that you have more evidence to determine. So
2 4	you're going to give, there's a regulatory
25	principle according to you that says that you

1 should give more weight to short term risk because it is easier to assess or it is more... it's easier to assess, it's the best way to say it. Having more 3 information about it. Because it's short term. 4 5 Can you direct me to any reference or any 6 specialized literature that states that specific 7 regulatory principle that you're referring to? R. I don't have a particular citation for you, no. 8 Q. [13] Thank you. Merci, Madame la Greffière, vous 9 pouvez retirer la pièce. Doctor Brown testified a 10 11 few days ago to the effect that investors assess 12 long term business risk to decide whether or not they will invest in a gas distribution utility and 13 that this long term risk is the economic life of 14 the assets, so we're talking thirty (30), forty 15 16 (40) years. Am I correct in saying that according to you investors would rather look at short term 17 risk when deciding to invest? 18 R. I think investors look at both short and long term 19 risks. And I think that they weigh how well they 20 21 understand those risks when they're making that 22 decision. They understand that if they look at the 23 recent returns of a gas utility that they are very likely in the next couple of years to return their 24

allowed rate of return because there's a great deal

2.5

- 1 of regulatory structure incident around that,
- 2 (inaudible).
- 3 They would also look and see if, yes there
- 4 is some sort of risks associated with the energy
- 5 transition. And they would see that, you know,
- 6 changes of the business model are going to be
- 7 likely compare to relative, to other companies that
- 8 are not affected by energy transition, that they
- 9 might be choosing to -- considering to invest in.
- 10 So they are going to weigh how much they know about
- 11 the different kinds of utilities, they actually
- 12 have a very comparable weighing to the one that I
- was just describing is appropriate for the
- 14 regulator to weigh.
- How well do they know what the risks are
- going to be in the future, and how well do they
- 17 know what the near term risk is going to be when
- 18 determining an overall assessment about their
- investment decisions.
- 20 Q. [14] So what you're saying is that long term risk
- is a relevant element to look at, and investors
- 22 will look at it. Is that correct?
- 23 R. They will look at it and they will, they will try
- to get the best information they can about it. To
- 25 the extent that the information is available that

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- 1 will help them better understand that risk and be
- 2 able to take it into account in making their
- 3 decisions.
- 4 Q. [15] But they study in your previous answers
- 5 relating to the weight that you give the short term
- 6 risk, it is your opinion that they will more likely
- 7 put more weight on short term risk because it is
- 8 easier to assess. Is that correct?
- 9 R. Because the information they have available to
- 10 them, is, give them much better information about
- 11 the near term risk. And they will, they will look
- 12 at those long term risks and, and give it... work
- 13 the best they can with the information they have to
- 14 the extent that -- the extent of the lack of
- information is itself presenting a kind of a risk
- 16 to them. Then they would take that into account. I
- 17 don't think that you would want to say that the
- 18 utilities could earn a higher rate of return simply
- 19 because they're risky because they failed to plan.
- I don't think that's something that the utilities
- 21 are claiming in this case. A utility that is
- failing to look ahead I think will also be less
- 23 attractive to investors.
- Q. [16] So the answer to my question, your answer to
- my question is yes, investors would be more at ease

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- 1 to look at short term risk because it is easier to
- 2 assess. Is that correct?
- 3 R. Easier to assess is not my, is not my -- I don't
- 4 think that's the reason why. I think that the, that
- 5 the investors would look at all the evidences that
- 6 they have about what the risks are, you know, in
- 7 their investments are over different timescales.
- 8 And take into account their own time preference and
- 9 their own timeframe for investing, etc. And weigh
- 10 those different... what they know about those
- 11 different risks appropriately.
- 12 If they see that there is a long term
- 13 capital recovery risk, then they would, then they
- 14 would take that into account.
- 15 Q. [17] Okay. Thank you. I will bring you now to your
- 16 report, your direct testimony. On page 5, Q and A
- 17 11 if... Madame la Greffière, est-ce que vous
- 18 pourriez s'il vous plaît mettre à l'écran la pièce
- 19 C-ACIG-0028 s'il vous plaît.
- 20 LA GREFFIÈRE :
- 21 Quelle page, s'il vous plaît?
- Me ADINA GEORGESCU:
- 23 À la page 8, s'il vous plaît. Excusez-moi, j'ai dit
- question et réponse 11, mais c'est en fait question
- et réponse 18. It's actually Q and A 18.

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about.

1	Q.	[18] So at Q and A 11, you categorized the
2		potential business risks a utility faces into two
3		categories: short term risk and long term risk that
4		you have just spoken about. But at Q and A 18, you
5		mention here that :
6		The allowed return on equity should
7		most directly reflect the risks
8		regarding return on invested capital
9		in the period until the next time the
10		return on equity is set, with less
11		weight given to risks that extend
12		further out in time. Thus, short term
13		risks should be the primary driver for
14		the allowed return.
15		Do you, I understand that you don't mention any
16		kind of specialized literature or decision to
17		support this position in your direct testimony. Is
18		that correct?
19	R.	Correct.
20	Q.	[19] So, this is essentially your opinion? It is

you bring forward this particular assessment, that

short term risk should be the primary driver for

R. Yes, inform by all what we've just been talking

the allowed return, is that correct?

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- 1 Q. [20] Are you aware of any specialized literature or
- 2 decisions that would disagree with your position?
- 3 R. Nothing in particular.
- 4 Q. [21] So, I'd like to refer you to one of the
- 5 exhibits that we just filed. Madame la Greffière,
- 6 est-ce qu'il serait possible de mettre à l'écran la
- 7 pièce qui vient d'être déposée. Je suis désolée, je
- 8 n'ai pas la cote de la Régie, j'ai seulement la
- 9 cote des demanderesses, EGI-35.
- 10 Parfait. Alors, est-ce que ce serait
- possible d'aller à la page de la pièce, 495, s'il
- 12 vous plaît, au bas de la page. En fait, il n'y a
- pas énormément de pages, donc, ça va être assez
- 14 facile à trouver. Voilà, juste au bas de la page.
- Non, non, non, on remonte, s'il vous plaît. Oui. Au
- 16 bas de la première page de texte. Voilà. Merci.
- 17 Vous pouvez la descendre un tout petit peu. Merci
- 18 beaucoup. Et est-ce que c'est possible peut-être de
- 19 l'agrandir un peu? Oui, super. Merci beaucoup.
- 20 So, I'm referring you here to an article
- that was written by Kathleen McShane and Michael
- 22 Cleland, with respect to the fair return and they
- 23 indicate here, under chapter 3, The Fair Return and
- The Cost of Capital.
- The fair return represents a real cost

1	L	to the utility, no less real than the
2	2	cost the utility incurs to pay wages
3	3	or acquire materials and supplies.
4	1	Investors require a return on the
Ę	ō	capital they commit to finance utility
(5	assets for two basic reasons.
7	7	1. Committing funds to a long term
8	3	investment means investors are
G	9	deferring current consumption for the
1	0	opportunity to enhance future
1	1	consumption. The return investors
1	2	demand on the capital committed
1	3	represents the compensation they
1	4	require to put off current consumption
1	5	to a later date.
1	6	So what the authors are saying here essentially is
1	7	that investors look before committing their funds
1	8	to long term investment risks, rather than short
1	9	term investment risks.
2	0	Were you aware of this article?
2	1 R.	I have not read this article.
2	2 Q.	[22] I will refer you to
2	3	Me PAULE HAMELIN :
2	4	Pardon, j'ai une objection, parce que vous
2	5	référez sorry, I will say that in English, you

PANEL 2 - ACIG Cross-examination Me Adina Georgescu

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- 1 just indicated that the author refer to... sorry,
- just give me a second, est-ce qu'on peut juste
- 3 baisser, encore. Can I ask you to rephrase your
- 4 question again, because I'm not sure I got it
- 5 right.
- 6 Me ADINA GEORGESCU:
- 7 Well, I just asked, I just asked Dr. Hopkins if he
- 8 was aware of this article and the position that is
- 9 referred to here, to the effect that according to
- 10 these authors, investors, before committing their
- 11 funds, look at long term risk for their
- 12 investments. That is the essential principal type
- of risk that is considered. So I just asked Dr.
- 14 Hopkins if he was aware of this article. This is
- 15 not a trick question.
- 16 Me PAULE HAMELIN:
- 17 No, your question was your interpretation of what
- 18 the article said, not if he was aware of the
- 19 article. If he was aware of the article, that's a
- 20 question. Your interpretation of the article is
- 21 something else.
- Me ADINA GEORGESCU:
- 23 So I asked Dr. Hopkins if he was aware of this
- 24 article and I think the answer was no.
- 25 Q. [23] So I will go now to a decision from the

- 1 Régie...
- 2 R. I'm sorry. I just want to clarify...
- 3 Q. [24] Yes.
- 4 R. ... for the record that I do not necessarily agree
- 5 with your assumption of the characterization of
- 6 this text, I simply answered your question, which
- 7 is that I had not previously read it.
- 8 Q. [25] I understand, that's fine. My initial question
- 9 was whether or not you were aware of any literature
- 10 that possibly goes against your opinion that short
- 11 term risk should have more weight in the
- 12 determination or the assessment of business risk
- 13 than long term risk? So I just wanted to know if,
- for instance, you were aware of this particular
- 15 piece of literature that does not share your
- opinion.
- 17 So I will go now to a decision from the
- 18 Régie de l'énergie that we filed a little bit
- 19 earlier, which is D-96-31. And that is... Madame,
- 20 la cote est EGI-37 et je m'excuse, à nouveau, je
- 21 n'ai pas la cote de la Régie, encore. On me dit que
- 22 c'est B-0361. Merci beaucoup et ça sera à la page
- 23 17, s'il vous plaît. Voilà.
- 24 So this is a decision from the Régie, from
- 25 ninety-six (96), nineteen ninety-six (1996) that

1		looked, amongst other things, at the determination
2		of the rate of return and capital structure and
3		obviously there is a discussion here about long
4		term, short term risk and long term risk and for
5		the long term risk portion here, what is
6		highlighted, it is in French, but I will translate
7		it in English.
8		In the long term, it is more the
9		companies ability to remain
1 0		competitive in its market and to
11		ensure that its forty (40)-year
12		facilities and long term investments
1 3		are profitable.
1 4		In this decision, the Régie considers long term
1 5		risks on this basis. Were you aware of this
1 6		decision?
1 7	R.	I have not read this decision, I have read other
18		more recent Régie's decisions on business risk.
1 9	Q.	[26] Thank you. And just as a final reference,
2 0		Madame la Greffière, est-ce que je peux vous
21		demander, s'il vous plaît, d'aller à la décision,
2 2		pièce excusez-moi, juste un petit instant, c'est
2 3		la pièce C-ACIG-0079, c'est la décision D-2011-182.
2 4		Merci beaucoup. Et ce sera à la page 12. En fait,

je vais peut-être vous référer davantage au

1	paragraphe, c'est le paragraphe 232.
2	So, here this is a this is an Énergir
3	former decision that looked at the rate of return
4	amongst other things. And here the Régie says :
5	The Régie understands that investors
6	regard risk as consisting in the
7	uncertainty of realizing a return on
8	their capital within a given horizon
9	and of recovering their capital.
10	And if we go a little further down at paragraph
11	234:
12	In the Régie's view, Gaz Métro
13	bondholders and Gaz Métro being
14	Énergir today bondholders and
15	unitholders' perceptions of long term
16	risk are very similar today to what
17	they were in 2009. The credit-rating
18	agencies do not report any
19	materialization of capital recovery
20	risk in the case of regulated
21	businesses in Quebec.
22	So, in this particular decision, as you can see,
23	the Régie is determining that investor risk is the
2 4	uncertainty over an investment horizon, and in the
25	Régie's view this equates to long term risk. So,

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- 1 were you aware...
- 2 Me PAULE HAMELIN:
- 3 Again... again, I object to your characterization,
- 4 because when I read it:
- 5 Gaz Métro bondholders and unitholders'
- 6 perceptions of long term risk.
- 7 So, it's their perceptions.
- 8 Me ADINA GEORGESCU:
- 9 Yes. But we're referring to long term risk
- 10 nonetheless, but I think we can have a debate on
- 11 what the decision really says. My question to Dr.
- 12 Hopkins is whether or not he was aware of this
- decision and has he read it?
- 14 R. Yes, I have read this decision. This portion of
- this decision.
- 16 Q. [27] And you did not consider this as being
- 17 relevant in your assessment?
- 18 R. I don't view that this disagrees with my
- 19 assessment. The... My understanding is that the
- 20 Régie weighs short term and long term risk, it
- 21 weighs the evidence that is presented with respect
- to those different kind of risks.
- 23 Elsewhere in this decision there is
- discussion of changes in competitiveness, there's
- 25 discussion of deferral accounts, there's discussion

- 1 of many of the same kind of things that are present
- 2 in the current docket. And the Régie is taking all
- 3 of those different pieces into account thinking
- 4 about the weight of the evidence before it,
- 5 including the bit that you just described.
- 6 But I don't think that is inconsistent
- 7 with... with what I have said in terms of the
- 8 weighing given to different timeframes for risk and
- 9 the uncertainty that we need to take... to keep
- 10 into account with respect to whether certain kinds
- 11 of risks are more or less certain and should be
- 12 given different kinds of weight.
- 13 Q. [28] So, you're reading of... of the Régie's
- 14 decisions are that the Régie does not necessary put
- more weight on long term risk, is that... is that
- 16 correct?
- 17 R. The Régie evaluates all the different kinds of
- 18 risks on various different timescales. I think the
- 19 Régie recognize that the long term is a succession
- of short terms. I think the Régie looks carefully
- 21 at all... at everything that's before it and makes
- 22 appropriate decisions.
- 23 Q. [29] Thank you. I will move on now to again your
- direct testimony at question 25.
- 25 R. Yes.

1	Q.	[30] So, here you compared Énergir and Gazifère's
2		achieved and allowed returns on equity. Do I
3		understand correctly that you consider this element
4		as an important factor for your recommendation?
5	R.	The most important aspect of this for my
6		recommendation is the volatility in the achieved
7		return. That needs to be taken you need to see
8		the allowed return along with that gives some
9		explanatory information. If you look at the
10		Gazifère one, if the clerk will scroll down, you'll
11		see that some portion of the volatility of Gazifère
12		returns in the twenty-twelve (2012),
13		twenty-thirteen (2013) timeframe is related to the
14		allowed return falling during that timeframe before
15		returning to its present level, rather that the
16		volatility necessarily has to do with the
17		operational risk of some sort that the utility
18		faced during that time period. Its return dipped
19		but it wasn't it wasn't that it failed to earn
20		its allowed return, I think investors would care
21		about that kind of thing.
22		But to simply answer your question is that
23		the important aspect of the data presented here,
2 4		the most important aspect for the evaluation of
25		risk is the volatility of the orange Achieved line

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- 1 relative to the Allowed blue line.
- 2 Q. [31] Understood. So, you are looking at achieved
- 3 and allowed returns on equity as part of your
- 4 assessment and you consider this as a factor in
- 5 your recommendation? It's a...
- 6 R. Yes.
- 7 Q. [32] ... yes or no question. Okay. Perfect. Thank
- 8 you. At question 34, going a little further down,
- 9 you say that both Énergir and Gazifère have earned
- 10 stable returns for their equity investors, that
- 11 both have consistently achieved returns in excess
- 12 of their allowed returns, and that therefore
- 13 neither utility is facing any identified
- 14 utility-specific short term challenges to earning
- its return.
- 16 And then at question 35, you conclude that
- 17 both utilities have low business risk over the
- 18 short term, and therefore that their allowed return
- on equity should be relatively low.
- 20 Do you have any reference to specialize
- 21 literature or decision that you can reference to
- 22 support your position that historic achievement or
- 23 excess of the allowed ROE justifies a lower ROE?
- 24 R. Again, the critical piece here is the volatility in
- light of the... in light of the allowed return, and

1		the conception that the that lower volatility is
2		indicative of lower risk, it's indicative of lower
3		regulatory lag, and therefore, you know, close to
4		the implication for the cost of capital.
5	Q.	[33] Understood. But that that's still is a
6		there's a direct correlation between whether or not
7		the businesses have met or exceeded their ROEs and
8		your looking at historical data with respect to
9		that achievement or excess of ROEs in order to
10		determine volatility. And according to you, if
11		there is achievement or excess of historical ROEs,
1 2		that's an indication that that the businesses
13		should have a lower ROE going forward because there
1 4		is limited risk. Is that a correct assessment?
1 5	R .	I don't think I would have strung it all together
16	1	in quite that way. We as an indicator of whether
17		
		the regulatory lag is low, and therefore that the
18		year to year volatility going forward, on a forward
1 9		looking basis, is likely to be low. Are the
2 0		regulatory structures established to limit
21		volatility working? That's a relevant question to
22		investors and the evidence here is that yes,
2 3		historically they have been working, they haven't
2 4		been any particular changes either than

strengthening those regulatory structures, and

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- 1 therefore investors would see that they have
- 2 relative assurance on a forward going basis that
- 3 those kind of structures and therefore the lower
- 4 volatility will continue into the future.
- 5 Q. [34] So, you're looking at the historical in order
- 6 to determine what will happen forward looking. Is
- 7 that correct?
- 8 R. Looking at the historical in order to inform
- 9 assessment of the future, same as any investor
- 10 would.
- 11 Q. [35] Understood. So, are you basing yourself on
- any... any regulatory principle or decision to use
- 13 this approach in... in your assessment of business
- 14 risk?
- 15 R. The general... I don't have a particular citation.
- 16 I'm relying on the same... the same knowledge of
- 17 how volatility informs investor perceptions as Dr.
- 18 Brown is, on this area he and I have different
- 19 literature and have different experiences, but I
- 20 agree with him on the statement that lower
- volatility implies lower business risk.
- 22 Q. [36] You are referring here not to lower volatility
- in your... in your... in the excerpt of your
- evidence, you are referring to the... the
- achievement or excess of the return on equity in

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PANEL 2 - ACIG
Cross-examination
- 100 - Me Adina Georgescu

1		order to come to the conclusion that the historical
2		achievement or excess of the ROE, in order to come
3		to the conclusion that allowed ROE for the future
4		should be lower. So, with respect to that specific
5		principle, I'm asking if you have any reference to
6		base yourself on.
7	R.	I am not I am not propounding the principle
8		you're trying to put into my mouth. The first
9		the first clause after the word « no » in answer
10		34, it says :
11		Both have earned stable returns for
12		their equity investors.
13		That's the primary aspect grounding my analysis.
1 4		The fact that they have also exceeded the allowed
15		return in that context, if they were stable and
16		sometime above and sometime below the allowed
17		return, my conclusions would be the same. If they
18		were stable and always two points below the allowed
19		return, my conclusion would be the same. It's not
2 0		the question of the absolute value of the of
21		return relative to the achieved return, it's a
22		question of that volatility.
2 3	Q.	[37] Understood. So, you are looking at the

24 historical performance of the ROE for that

25 assessment?

1	R.	The volatility of the achieved return informs
2		assessment of what the regulatory structure is and
3		whether the low regulatory lag that is correlate in
4		and the attention of that regulatory structure,
5		whether that is working. And if an investor says:
6		is that regulatory structure likely to change? How
7		do I how do I evaluate the risk that's coming
8		down you know, coming likely in the future, let
9		me look at the regulatory structure that exists,
1 0		let me see if it's working, is it likely to change
11		and then I can build on that historical assessment
12		in order to evaluate whether the whether I think
13		that there's a particular short term risk that I'm
1 4		really facing making this investment.
15	Q.	[38] Understood. So, are you aware that in the
16		twenty twenty-three (2023) generic cost of capital
17		Alberta Utilities Commission's decision that was
18		rendered on March thirty-first (31st) this year, at
19		paragraph 41, the Commission quote :
2 0		Considers that historical earnings
21		above or below the approved ROEs do
22		not help determine what the ROE for a
2 3		future test period should be.

24 R. I haven't read that decision.

23

- 1 Me PAULE HAMELIN:
- Monsieur le Président, si on réfère à une... if we
- 3 refer to a decision it would be important that
- 4 we... we have a copy of that.
- 5 Me ADINA GEORGESCU:
- 6 La décision pourra être déposée si nécessaire, mais
- 7 comme le passage est très très court et qu'il était
- 8 en plus en anglais, nous n'avons pas considéré
- 9 nécessaire de... de le déposer pour le montrer à
- 10 l'écran. Donc, si... Monsieur le Président, si vous
- 11 souhaitez que la décision soit déposée nous le
- 12 ferons.
- 13 LE PRÉSIDENT :
- 14 Bien, ce serait préférable, effectivement.
- Me ADINA GEORGESCU:
- 16 Parfait. Nous allons effectuer le dépôt.
- 17 Me PAULE HAMELIN:
- 18 Parce qu'on ne voit pas... on ne voit pas le
- 19 contexte, etc., alors on peut juste...
- 20 Me ADINA GEORGESCU :
- 21 However, I do understand from Dr. Hopkins that he
- 22 was not aware of this decision.
- 23 Q. [39] Is that correct? That was your answer?
- 24 R. Correct. Also...
- 25 Q. [40] Yes.

1	R that decision doesn't have any bearing on the
2	point that I was just making in my testimony. The
3	quote that you just read to me it's tangential not
4	central to the analysis that I presented.
5	Q. [41] I'm moving on to Exhibit EGI-34. Je suis
6	désolée, Madame la Greffière, j'essaie de récu
7	B-0358, on me dit pour la cote de la Régie. Donc,
8	ça sera à la page 578 de l'extrait, s'il vous
9	plaît. Voilà, juste un peu plus bas.
10	So, I'm referring you here to The Process
11	of Ratemaking, which is a piece of specialized
12	literature by Leonard Saul Goodman. On page 578, he
13	talks about "past excess earnings excluded". It is
14	indicated here that:
15	Under the rulings of the Supreme
16	Court, past excess earnings cannot be
17	used to sustain an otherwise
18	inadequate rate for the future. The
19	regulated company is entitled to the
20	opportunity to earn a fair return in
21	the future period An agency may not
22	revisit an approved past rate, whether
23	the rate in the past is now considered
2 4	too high or too low. When the agency
25	authorizes the filing of a rate, the

1	filing has future legal effect.
2	Were you aware of this piece of literature?
3	R. I don't recall that I've read this.
4	Q. [42] Thank you. Nous pouvons enlever la pièce,
5	Madame la Greffière. Merci beaucoup. I will go back
6	now to your evidence. Madame la Greffière si c'est
7	possible de revenir au direct testimony. Merci. À
8	la question 36. So Q and A 36. You state here that:
9	the drivers for long term risks for
10	the Québec Utilities
11	at Q and A 36
12	are associated with policies and
13	actions to reduce the provinces
14	greenhouse gas emissions. Combined
15	with a competitive position of gas
16	compare to electricity.
17	At question, Q and A 37, you answered the following
18	question:
19	Do the utilities in the U.S. gas
20	utility sample analysed by Dr. Brown
21	face similar risks?
22	Your answer is:
23	Yes, they do. Both the United States
2 4	and Canada have stated their
25	intentions to reach net zero

PANEL 2 - ACIG Cross-examination - 105 - Me Adina Georgescu

1		greenhouse gas emissions by 2050.
2		You then go on to say:
3		The utilities in the U.S. gas utility
4		sample will all be subject to federal
5		actions that will encourage
6		electrification in buildings and the
7		use of low-carbon fuels in
8		hard-to-electrify end uses in both
9		buildings and industry.
1 0		Are you aware that the Québec Utilities are
11		currently faced with specific limitations on the
12		use of traditional natural gas?
13	R.	What do you mean by specific limitations?
1 4	Q.	[43] Are you aware, for instance, that the city of
15		Montréal has adopted a by-law that is currently in
16		force and that prohibits the use of traditional
17		natural gas in buildings?
18	R.	I've heard about it, heard and talked about it in
19		the course of the hearing in the last few days. I
2 0		haven't review the by-law.
21	Q.	[44] Are you aware that the Québec Utilities are
22		subject to a regulation that imposes on them, since
23		twenty-twenty (2020), the obligation to provide a
2 4		percentage of renewable natural gas every year,

which will reach five percent (5 %) in twenty

- 1 twenty-five (2025) and is intended to reach ten
- 2 percent (10 %) by twenty thirty (2030)?
- 3 Me PAULE HAMELIN:
- 4 Je vais m'objecter encore une fois à la question
- 5 parce qu'on vient de dire que la réglementation les
- 6 oblige à dix pour cent (10 %). Est-ce que c'est ce
- 7 que vous avez dit?
- 8 Me ADINA GEORGESCU:
- 9 Non, j'ai dit que « is intended to reach ».
- 10 Me PAULE HAMELIN:
- 11 Mais, il n'y a pas de réglementation qui vient dire
- dix pour cent (10 %) pour l'instant.
- 13 Me ADINA GEORGESCU:
- 14 Il y a un règlement qui dit cinq pour cent (5 %) en
- vingt vingt-cinq (2025) et il y a une intention,
- which is why I used is "intended to reach".
- 17 Q. [45] Let me clarify Doctor Hopkins so that there's
- 18 no confusion. There is a regulation that is in
- 19 force currently that imposes an obligation that
- will reach five percent (5 %) of renewable natural
- gas in twenty twenty-five (2025). The government
- 22 has announced its intention to bring that
- 23 percentage up to ten percent (10 %) by twenty
- thirty (2030). So just to be clear, the ten percent
- (10 %) is not an obligation as of yet. But the

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- 1 government has announced its intention to bring it
- 2 up to ten percent (10 %) by twenty thirty (2030).
- 3 Right now, the obligation, which is going to be
- 4 applicable until twenty twenty-five (2025) is
- 5 progressively going up to five percent (5 %) of
- 6 renewable gas. Were you aware of this?
- 7 R. Yes.
- 8 Q. [46] Are you aware that the Québec Utilities are
- 9 also subject to a regulation that prohibits, as of
- 10 December thirty first (31st) twenty twenty-three
- 11 (2023), the replacement of healing oil equipment
- with any fossil fuel including traditional natural
- 13 gas?
- 14 R. I think I've seen something about that in passing
- but I'm not closely familiar with it.
- 16 Q. [47] Are you aware the Québec Utilities are subject
- to carbon pricing obligations?
- 18 R. Yes.
- 19 Q. [48] Are you aware of any similar obligations,
- 20 federal or states specific, falling on the
- utilities for doctor Villadsen's US sample?
- 22 R. I'm not aware of any specific policies of those, of
- those sorts, for the US sample.
- 24 Q. [49] So is it fair to say that currently, there are
- no specific obligations that the utilities in

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- 1 doctor Villadsen's US sample are subject to and
- 2 that impose a move towards green energy, today?
- 3 R. In terms of items with specific regulatory force,
- 4 the Oregon Climate Law...
- 5 Q. [50] I'm talking about concrete impact. Current and
- 6 concrete impact.
- 7 R. Current concrete impact...
- 8 Me PAULE HAMELIN:
- 9 Encore une fois, sorry, objection. Are you
- 10 referring impact and regulation as two different
- 11 things?
- 12 Me ADINA GEORGESCU:
- 13 Well, regulations are obligations that have current
- 14 impact, I'm talking about current impacts as well.
- 15 Me PAULE HAMELIN:
- 16 So, just... I think you should rephrase your
- 17 question.
- 18 Me ADINA GEORGESCU:
- 19 I think, I think we're not going to have a legal
- debate on whether a policy has immediate, immediate
- 21 obligations that are imposed on whoever might be
- 22 concern by them. But, I will rephrase my question
- or reiterate it.
- Q. [51] Is it fair to say that currently, there are no
- 25 specific obligations that the utilities in doctor

1	Villadsen's US sample are subject to, and that
2	impose a move towards green energy?
3	. I think it depends a little bit on the definitions
4	of a lot of those words. I've heard through this
5	proceeding, utility folks and others have maybe
6	argument that knowing where you're going, needs to
7	be taken into account in the present. For example,
8	Oregon's requirement of net zero by twenty fifty
9	(2050) or the New Jersey Energy Master Plan or
10	Maryland's requirement of zero emission in twenty
11	forty-five (2045) they are state level, admittingly
12	not gas utilities specific, but requirements that
13	will have deep obligations and requirements coming
14	for the gas utility.
15	They have implications for those utilities
16	as they think about their capital planning, as they
17	think about how they go about their operations.
18	Do those requirements have specific
19	reporting obligations or specific obligations that
20	require a specific utility to do a specific thing,
21	in a specific year, no they do not. But they ground
22	and shape policy context in which those utilities,
23	which are members of the gas utility sample,
2 4	operate.

Q. [52] So you agree with me that the utilities in the

- 1 US sample are not subject right now to the similar
- 2 type of restrictions and obligations that I just
- 3 mentioned that the Québec Utilities are already
- 4 confronting with?
- 5 R. The form of the policies in which they operate are
- different than the Québec one.
- 7 Q. [53] I am talking about legislative or regulatory
- 8 obligations that are of immediate application. I'm
- 9 not talking about policy or governmental
- 10 intentions.
- 11 R. Again the question was there a statutory
- requirement that something happen in the future
- 13 whether that has immediate application I think
- 14 maybe that's just a semantic question that we'll
- have to deal with. The utilities folks are arguing
- 16 that knowing where you're going to go, these long
- 17 term capital questions has immediate application.
- 18 And so, logically that would seem to flow the same
- in the US sample.
- Is there a carbon price implemented today
- in any of the US gas several jurisdictions, no.
- 22 Q. [54] Any restriction on the use of fossil fuels the
- 23 same as the example that I just gave you for the
- 24 Québec Utilities?
- 25 R. Again, not that I'm aware. That doesn't mean

another jurisdiction in the United States might

- 2 have pass a by-law of one of those sorts. But again
- 3 the application may be different. The application
- for long term energy transition and thus, capital
- 5 recovery risk maybe less different.
- 6 Q. [55] But you haven't looked into it to compare to
- 7 the situation, the current situation, real
- 8 situation, that the Québec Utilities are faced
- 9 with, today. You haven't done that research for the
- 10 US sample?
- 11 R. I have... I'm aware in a general sense of the
- 12 direction as I said of where these different states
- 13 are going, the laws that are in effect in different
- 14 places, my colleagues and I have done surveys of
- local policies and other things in different
- 16 places. In those contexts I have not come across
- 17 specific examples that are relevant, that are
- identify specifically to the US gas sample
- 19 utilities.
- 20 Q. [56] Thank you. I would refer you now to your
- 21 question and answer 37 that is already there. Line
- 22 22, you say:
- 23 While governmental actions turn to
- 24 electrification and use of the low-
- 25 carbon fuels will cause transformation

PANEL 2 - ACIG Cross-examination - 112 - Me Adina Georgescu

1		in gas utilities on both sides of the
2		border, the impacts on regulated gas
3		distribution businesses will be modest
4		in both Québec and the United States
5		over the next decade.
6		Do you based yourself on any specific study or
7		analysis to make this assertion?
8	R.	Well, that the following question, question 38,
9		is the other side of the logic around that next
1 0		decade piece including citations to both Énergir's
11		Climate Resiliency Plan and to an assessment of
12		what it will take to achieve US nationally
13		determine contribution.
1 4	Q.	[57] But, but my question was whether or not you
1 5		looked at any type of analysis, or any type of
1 6		study that would inform you, and allow you to make
17		the assertion that "on both side of the boarder the
18		impacts on regulated gas distribution businesses
1 9		will be modest over the next decade".
2 0	R.	I think that the studies that I've cited count as a
21		level of analysis particularly the US one.
22	Q.	[58] Are you referring to the Long Term Strategy of
2 3		the United States? The one that's cited in your

25 R. I'm referring to exhibit ASH-5.

footnote 12?

1	Q.	[59]	Yes,	that's	the	one.	So	it's	the	Long	Term
---	----	------	------	--------	-----	------	----	------	-----	------	------

- 2 Strategy of the United States, exhibit ASH-5 which
- 3 is cited in your footnote 12. It's on page...
- 4 R. ASH-5 is a working paper by scientists based at the
- 5 University of Maryland and other jurisdictions
- 6 entitled: Charting an Ambitious US NDC, a 51 %
- 7 Reduction by 2030. It is not the item cited in
- 8 footnote 12.
- 9 Q. [60] Well, in footnote 12 you are referring to
- 10 exhibit ASH-5. And footnote 12 if I am not mistaken
- 11 is...
- 12 R. I would like to make a correction to my testimony,
- 13 thank you for finding a typo. My footnote 12 should
- 14 refer to exhibit ASH-3, the Long Term Strategy of
- 15 United States. Apologies, to all. Typo in the
- footnote, footnote 12, exhibit ASH-3 is the Long
- 17 Term Strategy of the United States.
- 18 Q. [61] O.K. So you cite, I'm sorry I just wanna make
- 19 the correction so that we all talk about the same
- 20 thing. You seem to cite the Long Term Strategy of
- 21 the United States in support of this paragraph and,
- 22 and the previous sentence that says:
- 23 The utilities in the U.S. gas utility
- sample will all be subject to federal
- 25 actions that will encourage

1	electrification in buildings and the
2	use of low-carbon fuels in
3	hard-to-electrify end uses in both
4	buildings and industry.
5	There's footnote 12, with your reference to the
6	Long Term Strategy in the United States. And then,
7	the next sentence is the one that I was referring
8	to which is, Madame la Greffière si ça serait
9	possible juste de baisser un petit peu la page pour
10	qu'on voit le début de la prochaine. Merci.
11	While these pathways will cause
12	transformation in gas utilities on
13	both sides of the border, the impacts
14	on regulated gas distribution
15	businesses will be modest in both
16	Quebec and the United States over the
17	next decade.
18	And my question to you is, do you have any study,
19	or any analysis, to support that last sentence
20	referring to the impact on both sides of the border
21	for the next decade?
22	R. My Q and A 38 is an explicit expression of my
23	answering that question. Why do you say the impacts
2 4	of the next decade, it will be modest in both
25	places? And my answer runs from lines 5 to 25. It

- 115 -

- 1 cites both Énergir Climate Resiliency Plan and the
- 2 analysis, Exhibit ASH-5, conducted by researchers
- 3 in the United States, about what... beginning to
- 4 twenty-thirty (2030) in line with the U.S. Paris
- 5 agreement commitments would entail.
- 6 Q. [62] So ASH-5 is an American study, to my
- 7 understanding, is that correct?
- 8 R. Correct.
- 9 Q. [63] Does it pertain to...
- 10 R. That covers one side of the border.
- 11 Q. [64] Right, so...
- 12 R. Énergir...
- 13 Q. [65] Just a second, just a second, if you don't
- 14 mind,. I just want to finish my question. Does that
- 15 study pertain to Canada?
- 16 R. No.
- 17 Q. [66] Does that study pertain to Québec, in any way?
- 18 R. No.
- 19 Q. [67] So technically, the study that you are
- 20 referring to, that would illustrate, in any way,
- the situation in Québec, is the Énergir document
- that you are referring to in your question and
- 23 answer 38?
- 24 R. That is the most relevant document I could find
- 25 that is directly related to the question of gas

- 1 utilities in Canada, as it has been develop by one
- 2 of them.
- 3 Q. [68] Gas utilities in Canada, which are reflected
- 4 simply by...
- 5 R. That are in Québec.
- 6 Q. [69] So you have not done any, you have not found
- 7 any other analysis or any other study with
- 8 reference to the reality in Canada or in Québec,
- 9 with respect to the future of gas utilities over
- 10 the next decade?
- 11 R. I did not rely on any other study besides the
- 12 analysis of, in this respect, other than the
- 13 analysis presented by Énergir in their own study.
- 14 Q. [70] Understood, thank you. I will bring you now to
- 15 your page 4 of your direct testimony, which I think
- is Q and A 9. On va juste remonter, Madame la
- 17 Greffière, oui, parfait, merci.
- 18 Maybe just... Monsieur le Président, je
- 19 m'excuse, je viens de voir l'heure, I am trying to
- 20 be mindful of the time, je suis en train de
- 21 commencer une nouvelle série de questions et je
- vois qu'il est déjà midi moins dix (11 h 50). Est-
- 23 ce que vous souhaitez que l'on s'arrête pour la
- pause du dîner ou est-ce que je continue?

Cross-examination - 117 -Me Adina Georgescu

- 1 LE PRÉSIDENT :
- Bien, vous pensez en avoir pour combien de temps,
- environ? 3
- Me ADINA GEORGESCU: 4
- 5 Je vous dirais que j'en ai probablement pour encore
- 6 une demi-heure à quarante minutes (40 min), sinon,
- 7 peut-être quarante-cinq (45). Trente (30) à
- quarante-cinq minutes (45 min). 8
- LE PRÉSIDENT : 9
- Oui, dans ce cas-là, on va prendre la pause tout de 10
- 11 suite.
- 12 Me ADINA GEORGESCU:
- 13 Parfait.
- Q. [71] So, Dr. Hopkins, I apologize, before starting 1 4
- my next line of questions, we are going to take the 15
- 16 lunch break.
- R. Okay. 17
- Q. [72] Thank you. 18
- 19 R. Thanks for translating.
- 20 Me PAULE HAMELIN :
- In the meantime, Dr. Hopkins, Maître Georgescu has 21
- indicated that she has thirty (30) to forty-five 2.2
- 23 (45 min) to go with her questions. So we will take
- 24 the lunch break and Mr. Chairman will indicate at
- which time we will be reconvening. 25

1 LE PRÉSIDENT:

- 2 On se revoit à treize heures (13 h 00), donc, at
- 3 one o'clock (1:00) we will be back.
- 4 Me ADINA GEORGESCU:
- 5 Thank you.
- 6 Me PAULE HAMELIN:
- 7 Merci beaucoup.
- 8 LE PRÉSIDENT :
- 9 Merci.
- 10 SUSPENSION DE L'AUDIENCE
- 11
- 12 REPRISE DE L'AUDIENCE
- 13 LE PRÉSIDENT :
- 14 Bonjour. Alors, nous sommes prêts à poursuivre avec
- 15 maître Georgescu.
- 16 Me PAULE HAMELIN:
- 17 Avec votre permission, Monsieur le Président...
- 18 LE PRÉSIDENT :
- 19 Oui.
- Me PAULE HAMELIN:
- 21 Je ne sais pas si tout le monde est là. Alors, I
- 22 usually do not make those type of comments but in
- 23 all fairness to the witness, I just want to draw
- the Régie's attention to two things.
- 25 My colleague referred the witness to a

1 4

_	decision from the Régie, the I think it is
2	B-0361, a decision from the Régie in ninety-six
3	(96) and Me Georgescu referred the witness to the
1	evidence of the utility and not to the Board's
5	findings.

the witness, we make sure that we give the time, and in fact, it was a French decision, so we give the time to the witness and unfortunately, I was not, I took the time during the break to read the decision, so I just want to make sure that for the rest, the remainder of the cross-examination, we give sufficient time so we can look at the documents.

I will need to review the transcripts and because I think that there was another comment pertaining to the City of Montreal, indicating that there was a by-law banning gas natural, so I think it was what I have heard and I think that the situation is... was not correctly, not correctly informing the witness. So I just want to make sure that we cross-examine on the principles of fairness to the witness.

Me ADINA GEORGESCU:

Mr. Chairman, if you do not mind, I'd like to

2.5

respond to my colleague's comments. Regarding the decision D-96-31 that was presented to the witness, the objective was essentially to see if he had already seen it. And I think that was, that point was made and he answered that he had not. The content is more legal than anything else and if you want to have a debate on what the Régie said in that decision, we can have that in pleadings, later on in the process. I think that is definitely an opportunity that we will have.

With respect to the by-law that was adopted and that restricts the use of natural gas, that is part of the evidence in the file. It has been mentioned and discussed by the experts of the three utilities for the past four days. It has been brought up in the Aviseo report. Some I am very confused as to, as to what the issue is, with respect to that.

If you want to... if you want us to file that specific by-law once again, we shall, but the idea was simply to know if Dr. Hopkins was aware of the fact that there is a by-law adopted by the City of Montreal, with respect to the banning of the use of natural gas in buildings, a by-law that is already in force and that will progressively have

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- 1 an amplified effect over the next few years.
- 2 So again, I am not sure exactly what the
- 3 issue is, here. So those are my comments for the
- 4 time being and I invite my colleague, if she has
- 5 any issues with the questions that are being
- 6 formulated to the witness, to object when the
- 7 questions are submitted and I will reformulate or
- 8 will provide the necessary information.
- 9 Me PAULE HAMELIN:
- I will surely do, if I have the time to read the
- decisions.
- 12 LE PRÉSIDENT :
- 13 Bien, si vous me permettez ce court commentaire,
- là, je pense que le point ici, c'est tout
- simplement de s'assurer, même pour les questions
- 16 simples, de s'assurer de bien décrire le contexte,
- 17 là, qui entoure les pièces auxquelles vous faites
- 18 référence, pour s'assurer que le témoin puisse
- 19 répondre adéquatement.
- 20 Me ADINA GEORGESCU:
- 21 Tout à fait, Monsieur le Président, c'est bien
- 22 noté.
- 23 Q. [73] So, if there are no further comments, I will
- 24 continue with the questions that we still had. So
- 25 hello, again, Dr. Hopkins.

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1	к.	Good afternoon.
2	Q.	[74] Let me lead you to your direct testimony. I
3		think we had it on screen right before the break.
4		Madame la Greffière, je ne sais pas si ça serait
5		possible de remettre à l'écran la pièce C-ACIG-
6		0028, s'il vous plaît. Merci. Et c'est à la page 4,
7		à la ligne 5. Juste un instant, je vais aller
8		chercher l'extrait exact, parce qu'il semble que ce
9		ne soit pas la bonne page. Excusez-moi, c'est à la
10		question 9, c'est la mauvaise je vous ai donné
11		la mauvaise page, je m'en excuse. Parfait. À la fin
12		de la réponse. Parfait. Merci beaucoup.
13		So, Dr. Hopkins, here essentially you
14		you mention that first bullet from the top
15		Both the Aviseo report and Dr. Brown's
16		testimony failed to sufficiently
17		consider the business opportunities
18		associated with the decarbonization
19		energy transition or the impact of
20		mitigating actions that prudently run
21		utilities that prudently run
22		utilities would take to adapt to that
23		transition.
2 4		Can you refer me to any regulatory principle, or
25		literature, or articles, or any kind of source that

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- 1 would support the position that the mitigation of
- 2 risks or the taking into consideration of business
- 3 opportunities are a factor to consider in assessing
- 4 business risk for the determination of the rate of
- 5 return?
- 6 R. I don't have any particular citation for you.
- 7 Q. [75] Are you aware of any Régie decisions that
- 8 would support this principle that mitigation
- 9 measures and business opportunities are a factor to
- 10 consider to determine the rate of return?
- 11 R. On the mitigation front in reviewing the Régie's
- 12 past rate of return orders, there's discussion of
- 13 the Régie accounting for... you know, considering
- 14 evidence regarding the... their use of various
- deferral accounts and other such things, you know,
- 16 that are used to mitigate short term business risk
- 17 and accounting for the existence of those
- mechanisms in setting the rate of return.
- 19 Q. [76] Do you agree that the business opportunities
- 20 that you are referring to also bring their own set
- of uncertainty and risks?
- 22 R. They do. This is why it's important to do the
- 23 analysis and to actually look carefully at the
- future and understand what those risks would be,
- 25 how the risks and opportunities play out over the

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- 1 courses of the full energy transition.
- 2 Q. [77] So, do you agree that mitigation measures or
- 3 business opportunities remain uncertain solutions
- 4 that may or may not be effective in reducing the
- 5 risk? Is that a fair assessment?
- 6 R. The form that different mitigating actions might
- 7 take and, you know, is... remains uncertain and...
- 8 but would be much more certain if there were
- 9 analysis conducted that indicate when that certain
- 10 things might happen and which type of actions might
- 11 be more relevant or not, and I'm not sure... I'm
- 12 not sure I quite got your question there, so feel
- free to come back to it.
- 14 Q. [78] Well, I will actually, because I didn't ask
- 15 about the form of the solutions or whether or not
- they can be investigated or analysed and whether or
- 17 not we can develop hypothesis about how they should
- 18 be implemented. I asked about whether or not they
- 19 would lead to a successful solution to palliate the
- 20 risks that come with energy transition.
- So, my question to you is : do you agree
- that mitigation measures or business opportunities
- 23 still remain uncertain solutions? We don't know if
- they're going to be successful or not, even if they
- are looked into to, even if they are implemented.

1		Do you agree with that assessment?
2	R.	I agree that the elimination of risk is not
3		possible.
4	Q.	[79] Thank you. On page 3 of your report
5		Actually, no, it's on the same it's the same
6		question, Q and A 9. You mention, and I just want
7		to my reference to the pages were not were
8		not they're mistaken on my notes, so I just want
9		to find the right excerpt.
10		So, Madame la Greffière, si vous pouviez
11		simplement Oui, c'est parfait. Donc, peut-être
12		redescendre la page pour qu'on voit le le début
13		de la prochaine. Super. On peut s'arrêter là.
1 4		So, it's the second bullet in response to
15		question 9 :
16		The evidence presented by Aviseo
17		report and in Dr. Brown's testimony is
18		insufficient to evaluate the long term
19		business risk associated with stranded
2 0		assets and competition with
21		electricity, including the risks that
22		could be associated with the
23		decarbonization energy transition.

Do you agree that energy transition increases

business risk for the utilities?

25

1	R.	Energy transition provides a changing baseline, a
2		changing set of circumstances in which the
3		utilities will need to do their work. The utility
4		business, the fundamental of their business
5		investing capital, recovering that capital with a
6		return will be different as the energy transition
7		proceeds and it will take careful management by the
8		utility and actions by regulators in order to in
9		order to navigate that transition.
10		That means, yes, the future is different
11		from the past. In terms of the actual likelihood
12		of, you know, the fundamental level, business risk
13		is the evaluation of a likelihood of unexpected
1 4		negative results from investors' standpoint. And
15		whether the actual likelihood of that outcome
16		occurring is any lower or higher going forward in
17		the long term is uncertain as this point, because
18		the analysis for the Quebec utilities has not been
19		conducted. And so I can't say whether the that
2 0		transition will increase the Utilities business
21		risk.

Q. [80] So, you mention that energy transition will trigger changes and that the Utilities will have to 24 adapt to those changes, but that to you does not cause uncertainty, is that what I have to 25

- understand from your statement?
- 2 R. The overall construct, you know, the overall
- 3 utility within its regulatory context that actually
- 4 finally in the end pays a dividend of some amount
- 5 or earn a return and that pays that dividend to his
- 6 shareholders. Actually, mapping the changes in the
- 7 business environment, the change in the way the
- 8 utility may operate actually to... will the return
- 9 be any different? That connection hasn't been made.
- 10 Q. [81] But I'm coming back to your initial statement.
- 11 You... you mention that energy transition does
- trigger a change in paradigm, we're no longer in
- 13 the same situation that we were in the past, and
- 14 that is going to bring the Utilities to have to
- adapt, and to you that doesn't pose a certain level
- 16 of risk that the utilities are going to have to
- 17 adjust their business model in order to respond to
- 18 this energy transition that they're now facing and
- 19 that they were not facing in the past?
- 20 R. I'm not... I'm not saying that there isn't a risk.
- 21 The question is: is there... is there a risk
- that's different from... in some sort of
- 23 quantitated fashion different from the risk they
- face today. And also remember the particular
- 25 context here of the question comparison with the US

1	gas sample and wh	nether the energy transition is any
2	different for the	e Quebec Utilities than it is for
3	the US gas sample	e. They face, as we discussed
4	before, a compara	able energy transition challenge
5	and so, to the ex	xtent that they are a reasonable
6	proxy, that is a	lready being priced into their cost
7	of capital and th	nerefore would be priced over again
8	to the Québec Uti	ilities cost of capital.
9	Q. [82] But my quest	tion was not a question by which we
10	were comparing th	ne two at this point. It was a
11	general question	of whether or not energy
12	transition regard	dless of whether we're in Canada or
13	whether we're in	the States, brings an additional
14	set of challenges	s, risks and uncertainties. And
15	you, yourself mer	ntioned earlier that yes there's a
16	change in paradio	gm and yes they will have to be
17	adjustments make	by the utilities whether we're in
18	Canada whether we	e're in the States. The same
19	reaction is going	g to have to apply. And that
20	normally according	ng to what you, yourself mentioned
21	a little earlier,	, leads to a certain level of
22	uncertainty.	
23	And my qu	uestion to you is doesn't that lead
2 4	also to a higher	level of business risk and
25	obviously reasona	ably and logically speaking would

2 4

1	also lead to an increase ROE for the utilities? You
2	don't agree with that assessment?
3 R.	Again, I think that, you know, in the context of
4	how the ROE how their business risks analysis
5	feed in to the ROE discussion in which there is a
6	adder generally in the Régie's formulation there is
7	a adder for business risk, an adjuster from the
8	reference utility level of risk. So I don't think
9	that in this context it's, it is Looking at this
10	entirely in isolation is not necessarily the right
11	context we need to be looking at that comparative
12	assessment.
13	If the overall ROE of gas utilities is
1 4	higher because of a overall business risk facing,
15	or perceive business risk by investors, that they
16	see and they think the gas utilities face a risk
17	going forward because of the energy transition,
18	that would be priced into the outcome of doctor
19	Villadsen's or doctor Booth's analysis rather than
20	because it's not a distinct risk associate with
21	a particular utility as it's the policy context,
22	and my estimation between the two countries is
23	comparable.

So to the extent that there is such a risk

investors, utilities managers etc. are able to

1		understand that risk. If people think that it will
2		not actually be mitigated in some fashion and want
3		to carry that risk forward into their assessment of
4		overall risk, that would be priced into the market
5		assessment of those utilities as it stands today.
6	Q.	[83] Okay. Madame la Greffière est-ce que ça serait
7		possible de mettre à l'écran, s'il vous plaît, la
8		pièce EGI-36, B-0360 s'il vous plaît.
9		So, I'd like to refer you to an exhibit.
1 0		This is, this is actually a document that you
11		mentioned in your resume. It is an analysis that
12		Synapse, and you yourself, prepared for the Natural
13		Resources Defence Council with respect to Gas
1 4		Regulation for Decarbonized New York. And I'd like
1 5		to refer to the page before last.
16		So you were mentioning earlier that the
17		analysis cannot be made at a high level and we
18		can't necessarily conclude automatically that if
1 9		there is energy transition and there's heighten
2 0		risk that necessarily leads to an increase business
21		risk which would trigger a heighten ROE.
22		However, if we look in the analysis that
2 3		you submitted to the Natural Resources Defence
2 4		Council of the state of New York, you mentioned

here, at point 8.3, on Return on equity that:

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1 The risks to the existing gas utility business model from the policy-driven changes and the urgent need to address 3 climate change are only going to grow. 4 5 New business models are likely to be risky as well, if only due to their 6 7 novelty. In a typical utility 8 regulatory construct, investors have 9 the opportunity to earn a return commensurate with the risk of their 10 11 investment. This would imply that the 12 allowed return on equity (ROE) for gas utilities might need to be higher. 13 14 So, I'll ask my question again. I'm a little 15 confused. You seem to say in this particular report 16 that energy transition leads to uncertainty, leads to a new business model for utilities because they 17 need to adjust to this new reality, it could lead 18 19 to an increase ROE but when I ask you the question if that is the case, you tell me that: "No, we have 20 21 to evaluate the situation specifically for these 22 specific utilities in this present case and it's 23 not a general rule". I'm a little confused as to exactly what 24 you mean. So, is it or is it not an additional 2.5

1		risk? Energy transition, does it constitute an
2		additional business risk that could lead to an
3		increase ROE as you mentioned in this report to New
4		York state?
5	R.	Managing energy transition well will be a challenge
6		for utilities and for their regulators. And that
7		may well mean a riskier future. Again I'll come
8		back however to the question, you know, you point
9		out to this file in New York. The, the question
10		here, particularly with respects to the business
11		risk analysis in this context, has to do with
12		differential risks, particular risks, claimed
13		particular risks that Aviseo identified and that
14		doctor Brown discussed related to energy transition
15		in Québec. The claim that those are distinct and
16		different form risks experienced by the reference
17		utilities in the US gas sample.
18		To the extent that, at this point,
19		investors are looking at short term returns, long
20		term returns, investors overall in public markets
21		are considering the risk associated with energy
22		transition and it is present, that risk is already
23		present in the benchmark gas utilities risk
2 4		returns, rather than something that would be
25		identified in a utility specific, jurisdiction

1	specific	business	risk	analysis	presented	in	this
2	case.						

- If the Québec utilities want to show that
 they're, that they face unique and different risks
 they should quantify those in the context of a plan
 and come back and show how that actually plays out
 as I recommend.
- Q. [84] But in your, in your report to the state of

 New York, you don't mention mitigation, you don't

 mention the fact that the utilities should put in

 place different measures before the business risk

 is assess to be increased leading to an increased

 ROE.

Your statement is broad and general and 1 4 doesn't state that you need to analyse each 15 16 situation based on the measures that should be applied. Your statement is general and says that 17 cause to effect, energy transition leads to a new 18 paradigm which leads to new business models which 19 essentially leads to increase business risk which 20 21 lead to an increased ROE.

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So I have to say I'm still confused as to why here you're making that type of general statement but in our case you want to restrict it to the specific of, of our particular jurisdiction

- and the mitigation measures that you seem to want
- 2 to impose on the Utilities. I'm, I'm still
- 3 confused.
- 4 R. I'm not sure what's the question there.
- 5 Q. [85] There is not... there's no question. I'm
- 6 asking, I'm asking you again is your statement in
- 7 this report to the, to the state of New York, a
- 8 statement that could be applicable here in the
- 9 present case. Do you agree with the statement that
- 10 you made in this report to the state of New York?
- 11 R. I agree with what's written for the state of New
- 12 York. We produce that report that we, that we, we
- 13 produced it for a client who then filed it in the
- 14 state of New York. Just to context of what this is.
- There's a lot of other stuff, there's a lot of
- other stuff in this report. You picked a particular
- 17 portion of it. Even just above what you're reading
- 18 this here. There's a call for regulators to worry,
- 19 to think through what competition between electric
- and gas look like. And to manage that competition
- 21 well. This is, this is one, this is one component
- 22 of a larger picture, as has been identified in that
- 23 process. If you let me finish I'll let you go.
- Q. [86] Sure, absolutely. I'm not gonna interrupt you.
- 25 R. The reason that I keep coming back to the question

1	of whether there is something unique and different
2	about Quebec is because that's the logical
3	structure that the utilities' case relies upon with
4	respect to establishing a process, and it's a
5	standard process, for figuring out how to assess an
6	ROE. To the extent that that we went back and
7	forth on long term and short term before, to the
8	extent that investors are looking carefully at the
9	risks of the utilities that they're investing in.
10	If the energy transition applies generally, which I
11	believe it does, then they are looking at the
12	appropriate weight that they feel is appropriate
13	between short term and long term risks in
1 4	establishing the cost of capital that they're
15	willing to that they demand in order to invest
16	in those utilities.
17	If the maybe in the future they will
18	demand a higher ROE and that will show up in
19	analysis like Dr. Villadsen and Dr. Booth, because
20	maybe there will be a greater distinction between
21	the ROEs in gas utilities and electric utilities,
22	because the risks to one will be different from the
23	other and we'll see that in the analysis.
2 4	In the meantime, we have what we have, what
25	I've written, my colleagues and I have written in

1 this report to New York, I think it's true, and I also think that it should be considered in the context of the overall report and the various 3 recommendations that are present in it. 4 5 I also want to be very clear that I am not 6 making or intending to make any prescriptive 7 statement about, you know, imposing, as you said, 8 any solution or mitigating action on the management 9 of a Quebec company. I'm a consultant to and I'm a outside intervener in a regulatory proceeding. I'm 10 11 not in the position to impose anything on anyone. 12 I'm identifying options of the kind of things that I'm thinking of, to help the Régie understand what 13 those kind of mitigating actions might look like. 14 15 Q. [87] Understood. So, look, I don't want to have a 16 debate with you on this and I just want to... I just want to say that you're not making the nuances 17 that you're making now during your... your 18 explanation in this excerpt from the report that 19

various things should be taken into consideration and how the investors consider business risk and the challenges that... that utilities are faced with due to energy transition, but leaving that aside, I just want to ask you...

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1 Me PAULE HAMEL!	IN:
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- 2 Écoutez, je vais m'objecter. I will object. Maître
- 3 Georgescu could plead this point, but if she has a
- 4 question she can put that to the question, I don't
- 5 think that she should be putting her views as to
- 6 her interpretation. I think the witness has
- 7 answered.
- 8 Me ADINA GEORGESCU:
- 9 So, I will get to the question.
- 10 Q. [88] So, I just have one last question for you on
- 11 this particular report. Did you perform any
- 12 quantitative analysis before making this statement
- 13 to the New York state in your report? The one that
- 14 we see at 8.3?
- 15 R. No. This is a general statement derive from
- 16 principles rather than a specific analysis of a...
- of a particular utility.
- 18 Q. [89] Understood. Thank you. So, I will bring you
- 19 now to Q and A 40 in your direct evidence. Merci,
- 20 Madame la Greffière. So, the question here is :
- 21 You stated earlier that the cost of
- 22 capital for the Quebec utilities
- should be informed by the level of
- 24 business risk facing a utility that is
- 25 taking all prudent measures to

1		mitigate risk.
2		The first essential step is for the
3		utility to develop a business plan for
4		managing the firm in the changing
5		public policy and competitive context
6		in which it operates.
7		Do you base yourself on any specific study or,
8		again, articles, source of any sorts, to support
9		your position that a business plan is required to
10		inform the regulator on long term business risk
11		when determining the rate of return?
12	R.	There is a non sequitur in that question.
13	Q.	Sorry? I'm sorry, I didn't catch that.
14	R.	There is a non sequitur in that question. My
15		recommendation is not in this context, as written
16		here, is not that the utility needs to develop a
17		business plan for the purpose of use in a ROE
18		proceeding, but that the company should develop a
19		business plan in general about managing this and
20		that would then be an input into whatever
21		proceedings might come to the Régie. The particular
22		context in the recommendation that I've made is
23		that should then inform the analysis, that should
2 4		then should inform the next ROE proceeding, but
25		clearly a utility isn't going to do planing for the

- 1 purpose of one -- a comprehensive planing of the
- 2 sort that I've described for the purpose of using
- 3 it in, you know, in one cost of capital proceeding,
- 4 but rather to use it to inform their overall
- 5 business management.
- 6 Q. [90] So, in short, there is no specific requirement
- 7 for a business... a business plan to be provided in
- 8 order to assess long term business risk when
- 9 determining the rate of return?
- 10 R. There is no specific requirement. If a utility
- 11 wants to claim that they are brand new risks, that
- 12 are new and different, and need to be accounted
- for, backing that claim up with analysis that shows
- 14 what those risks are, how they might come to pass,
- how they might be mitigate, etc., seems to me to be
- 16 valuable information to provide to the regulator to
- 17 understand the claimed new risk.
- 18 Q. [91] Are you aware of any other utility that
- 19 provided a business risk (sic) in order to allow
- 20 the regulator to assess business risk in... for the
- 21 purpose of determination, for the purpose of the
- determination of the rate of return?
- 23 R. I'm aware of other utilities doing analysis of this
- 24 sort, and again the... doing that analysis is not
- done solely for the purpose of use in a cost of

1		capital aspect of a rate case, but I am not aware
2		of those analysis actually being, you know, filed
3		and use as evidence in an ROE proceeding, no.
4	Q.	[92] Thank you. Going back now just a few
5		questions, a few pages, from your direct testimony,
6		Q and A 37. Madame la Greffière, si si pouviez
7		revenir un petit peu en arrière. Merci. Just a
8		second. I apologize, it's actually Q and A 40 at
9		the on the next page.
10		So, you mentioned that the business plan,
11		that you recommend that the utilities, provide,
12		should contain mitigation actions such as the ones
13		that you list here. So, you list here:
14		Detailed and careful examination of
15		any choice to invest in new gas system
16		infrastructure with appropriate
17		depreciation rate and the options for
18		non-pipeline alternatives to reduce
19		and eliminate the need for a rate
20		based utility infrastructure
21		investments, reevaluation of
22		depreciation approaches for each type
23		of utility assets
2 4		I'm sorry, I'm going to summarize because I don't
25		want to read all of this developing partnerships

- 1 with electric utilities to meet winter peak needs
- 2 through the gas systems subject to regulatory
- 3 approval, evaluation of low-carbon fuels such as
- 4 green hydrogen or biomethane, including costs and
- 5 availability as well as impact on pipeline
- 6 performance and leakage.
- 7 So, regarding the first bullet, which
- 8 refers to investments, are you aware that the Régie
- 9 must approve all investments that the utilities in
- 10 Quebec make with respect to their assets?
- 11 R. I'm not aware of the specific precesses that are
- used, it would seem unlikely to me that the Régie
- 13 individually approves each new service line, for
- 14 example. My understanding of common fact of this,
- is that there are rules and regulations regarding
- 16 expansion to new services for example. New
- 17 infrastructure on a largest scale doesn't worry me
- 18 all, that would come for the Régie to be considered
- 19 and approved.
- 20 Q. [93] So essentially you're not, you're not you're
- 21 not aware of the details, of how it works?
- 22 R. Every jurisdiction has its own thresholds and rules
- 23 and regulations. I haven't reviewed the Québécois
- 24 structure in detail.
- 25 Q. [94] Okay. For the section bullet, relating to

- 1 depreciation, are you aware that the Régie must
- 2 approve all depreciation rates of the utilities
- 3 assets?
- 4 R. I'm not aware of that in particular but again it
- 5 doesn't surprised me at all that the Régie would,
- 6 would, would care about that. That's a standard
- 7 component of rate cases, it's a derivation of the
- 8 revenue requirement.
- 9 Q. [95] With respect to partnership with electricity,
- 10 you mentioned it yourself earlier and it is in your
- 11 evidence, but I will ask the question again,
- 12 nonetheless. Are you aware that the Régie rendered
- 13 a decision allowing Hydro-Québec and Énergir to
- 14 deploy a partnership between gas and electricity in
- 15 Québec?
- 16 R. Yes.
- 17 Q. [96] Are you aware that both Énergir and Gazifère
- 18 are developing various renewable gas production
- 19 projects?
- 20 R. In a general basis yes, I've seen in the... a two
- 21 page facts sheet kind of, summary of what they're
- 22 up to, (inaudible) in English. Is a summary of
- 23 information, but, yes, I heard the president of, of
- 24 Gazifère talk about is desire to, to do, to develop
- 25 RNG in his testimony earlier this week, I'm aware

PANEL 2 - ACIG Cross-examination Me Adina Georgescu

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- 1 that they're active in this area.
- 2 Q. [97] Are you aware that Énergir and Gazifère are
- 3 also working on green hydrogen production projects?
- 4 R. Yes. I'd seen, studied the summary labo information
- 5 to that effect.
- 6 Q. [98] Are you aware that Intragaz is conducting a
- 7 resilience study to determine the impact of the
- 8 injection of green hydrogen in its facility?
- 9 Me PAULE HAMELIN:
- 10 Je vais m'objecter, juste... Excusez-moi est-ce que
- 11 vous... Est-ce que vous avez produit cette... Parce
- 12 que j'ai posé des questions justement là-dessus il
- me semble. Have you filed this...
- 14 Me ADINA GEORGESCU:
- 15 Je sais pas à quoi vous faites référence, Maître
- 16 Hamelin. Je, je, j'ai de la difficulté...
- 17 Me PAULE HAMELIN:
- 18 J'ai mal compris votre question. Je pensais que
- 19 vous aviez parlé d'Intragaz.
- 20 Me ADINA GEORGESCU:
- Oui. J'ai parlé d'Intragaz. J'ai demandé au témoin
- 22 s'il était au courant de, du plan de résilience
- 23 d'Intragaz qui porte sur l'hydrogène vert.
- Me PAULE HAMELIN:
- En fait je voulais dire Gazifère, je m'excuse.

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- 1 Alors je, je ferme mon micro.
- 2 Me ADINA GEORGESCU:
- 3 Q. [99] So I will just repeat my question Dr. Hopkins.
- 4 Are you aware that Intragaz is conducting a
- 5 resilience study to determine the impact of the
- 6 injection of green hydrogen in its facility?
- 7 R. I was not aware of that. Seems like a good idea.
- 8 Q. [100] Do you agree with me that the actions that I
- 9 just mentioned, that are taken already by the
- 10 Québec Utilities and that you suggest be part of
- 11 the business plan are already taken by the
- 12 utilities?
- 13 R. Which one in particular, sorry, you went through a
- list of four and then... when you say these
- things... Which one exactly?
- 16 Q. [101] So, I'm referring to the bi-energy
- 17 electricity and gas project that Énergir is, is
- 18 managing right now. I'm talking about the RNG
- 19 production projects. I'm talking about the green
- 20 hydrogen production projects. And I'm talking about
- 21 the resilience study for Intragaz, for instance, on
- the capacity of its infrastructure of its, of its
- infrastructure to receive green hydrogen.
- 24 Do you agree that, that these are items
- that, that are already done by the utilities and

- 1 that you recommend be included in a business plan?
- 2 R. I recommend activities of those sorts should be
- 3 part of an overall comprehensive picture. And that
- 4 overall comprehensive picture would inform the
- 5 selection... those are those actions as they stand
- 6 to that. We're talking about an energy transition
- 7 over multiple decades. Further planning...
- 8 Q. [102] Understood.
- 9 R. ... those plans, those plans will continue and need
- 10 evaluation and expansion or change. Other things
- 11 may be required. But, yes, I agree that those
- 12 actions would be appropriate to include and are
- 13 good first steps in the kind of process that I'm
- 14 talking about here. And are already serving to, to
- help to mitigate risk for the utilities.
- 16 Q. [103] Is it fair to say that there is no guarantee
- 17 that these new measures that should be detailed in
- 18 the business plan will successfully be implanted or
- 19 work?
- 20 R. Yes. There's no guarantee about the future. That's
- 21 why I recommend a planning process revision and
- 22 revisitation that came from the process that I
- 23 recommended to the state of Colorado.
- Q. [104] Do you agree that the mitigation measures or
- business opportunities remain uncertain that they

1	may or may not be effective in reducing risk?
2	R. They may not be yeah individual action,
3	individual program may not have the intended
4	effects in reducing risk, which is again why a
5	revisitation or a regular process to think through
6	what the risks are and what with better
7	information every time you come back is
8	appropriate.
9	Q. [105] So, I'd like to take you now to your Q and A
10	10 again. Madame la Greffière, si on peut juste
11	remonter à la question 10 s'il vous plaît. C'est à
12	la toute fin de la réponse, Madame la Greffière, si
13	vous permettez.
1 4	So, in Q and A 10, at the very end of the
15	paragraph. Not very end, the middle of the
16	paragraph, line 4 you say « This plan », you're
17	referring to the business plan:
18	should then inform analysis of,
19	and selection of, different mitigating
20	actions. With such a plan in place,
21	the Régie would be able to adequately
22	evaluate the long term risk faced by a
23	prudent utility management in each
2 4	utility's situation, for inclusion in
25	an assessment of the appropriate

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1	return	on	equity.
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- 2 So, my understanding is that your position in the
- 3 present case is that the Régie should determine the
- 4 rate of return without considering the long term
- 5 risks that the utilities in Québec are facing
- 6 today. Is that correct?
- 7 R. I think that the Régie should give a predominant
- 8 weight to the nearer term, to more certain risks if
- 9 that makes any, if that phraseology makes sense.
- 10 And give little weight, if any, to the claims of a
- 11 particularized risk for, over the long term for
- 12 capital recovery.
- 13 Q. [106] Little rate, sorry. Little weight or any is
- 14 it, is it little or is it any? Is your position
- that the Régie should not be assessing a long term
- 16 risk?
- 17 R. I think the Régie should look and see what it's got
- 18 in this case. In my estimation there's not as much
- 19 here as there could or should be. That doesn't
- 20 mean there's nothing. I think, you know, the Régie
- 21 historically has looked at competition risk, for
- 22 example, which is a manifestation of a long term
- 23 capital recovery risk, in its determination. And
- so, the question of whether, whether things are
- 25 different this time, is to my mind unsettled

1	because of the, the lack of sufficient evidence to,
2	to, to settle it. But the Régie should continue to
3	give weight to the short and long term risks as it
4	sees fit. I see that the evidence is much stronger
5	about what the short term risk is and so I would
6	recommend that it would be put, put more weight
7	there, but obviously the final determination is up
8	to them.
9	Q. [107] I would like to bring you now to Q and A 41
10	of your direct testimony. Madame la Greffière, si
11	on pouvait aller à la question-réponse 41, s'il
12	vous plaît.
13	You see here that :
1 4	The prudent gas utility manager has an
15	obligation to shareholders to align
16	the utility's financial approach to
17	the reality of the market and policy
18	context in which it operates, and to
19	consider all of the implications of
20	potential actions.
21	You answered, in response to the IR that the Régie
22	addressed to you, at question 10.1, and I am going
23	to ask Madame la Greffière to put it up. Madame la
2 4	Greffière, si c'était possible de mettre,
25	d'afficher à l'écran, la pièce C-ACIG-0049, s'il

1	vous	plaît.	À	la	question	-réponse	10.1,	s '	il	vous
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- plaît. So here, you were asked:
- 3 List all US natural gas...
- 4 Oh, and I apologize, I am sorry, this is not
- 5 actually the IR from the Régie, this is the IR from
- 6 Dr. Brown that was addressed to you.
- 7 R. Correct.
- 8 Q. [108] You are asked here to list all of the US
- 9 natural gas LDCs that have taken planning actions
- 10 similar to what you recommend, and your answer
- 11 here, that the only... you answer, you know of only
- one utility at the very end of the response. You
- 13 know of only one utility in the US sample that has
- 14 begun planning activities for compliance with an
- ambitious state climate policy, which is Northwest
- 16 Natural. In other words none of the other utilities
- 17 in the US sample have a business plan like the one
- 18 you recommend.
- 19 So, can we go, Madame la Greffière, est-ce
- qu'on peut descendre jusqu'à la fin de la réponse,
- s'il vous plaît?
- 22 So here is the excerpt, at the very last
- paragraph:
- I am aware of one of the companies in
- 25 the U.S. gas sample that has begun

- 1 planning activities for compliance
- with an ambitious state climate
- 3
 policy, Northwest Natural, in Oregon.
- 4 Do you consider the utilities in the U.S. sample to
- 5 be imprudent?
- 6 R. I have no... I don't know enough about their
- 7 individual particular situations to make that
- 8 determination. I think they should be doing good
- 9 planning.
- 10 Q. [109] But they don't appear to have a business plan
- 11 like the one you recommend, and you are making the
- 12 assessment that a prudent manager would have a
- 13 business plan. So my question is this: on the basis
- 14 of the fact that they do not have a business plan,
- does that make them imprudent?
- 16 R. If I had the full picture of what was going on in
- 17 each of those cases, I could opine on that topic.
- 18 At some point, moving into the energy transition
- 19 without a plan, I expect that if utilities truly
- are going deeper and deeper into the energy
- 21 transition without a plan, I expect that the
- 22 question of prudence of their actions to become a
- 23 more and more pressing question.
- 24 Q. [110] Did you... sorry, go ahead.
- 25 R. Whether the, whether you know, whether is... you

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- 1 know, absent, you know, a rate case or a particular
- 2 context in which to, to make the evaluation,
- 3 looking closely, you know, at this, at this point
- 4 in the energy transition, as to whether you know
- 5 exactly what planning processes have been
- 6 undertaken.
- 7 Again, utilities maybe, maybe are doing
- 8 these plans internally, they have not filed them, I
- 9 am talking about publicly filed things that I am
- 10 aware of.
- 11 Q. [111] Understood. So I am just going to complete my
- 12 question : did you research at all to find out if
- 13 there was anything that was submitted by the
- 14 utilities in the U.S. sample in terms of a business
- 15 plan?
- 16 R. I put in here, in this response, what I am aware
- 17 of. The... I am not aware of other planning that
- 18 those utilities may be conducting or may have
- 19 filed.
- 20 Q. [112] Understood. Madame la Greffière, je vous
- demanderais, s'il vous plaît, si c'est possible de
- 22 revenir au direct testimony.
- 23 R. Let me make something clear about that. Could you
- 24 please put that, that question back on the screen
- and scroll up to the actual question I was asked?

1		Okay.
2		The could you, I think there is a second
3		portion to that question, because there's a
4		question about what the policy context is. I just
5		want to make something, make sure that my
6		understanding is clear, could you scroll down a
7		little bit, because I want to see whatthere's
8		like a 10.2, or a 10.1.2 or something. Can you
9		scroll down a little further. Yes :
10)	In each case, please identify the
11	L	public policies relevant.
12	2	So the yes, okay, I think my understanding, that
13	3	is why I wanted to double check how that question
14	1	was phrased, thank you very much for allowing me to
15	5	make sure my answer was as a correct example as it
16	5	could be.
17	7 Q.	[113] Thank you, so, Madame la Greffière, est-ce
18	3	que ça serait possible de retourner au rapport du
19)	docteur Hopkins? Merci. À la question 48. So in Q
2 ()	and A 48, you say :
21	L	To the extent of the utilities in the
22	2	U.S. gas sample are not taking the
23	3	available actions that investors might
2 4	1	expect regarding risks associated with
2.5	5	climate change mitigation policies,

1	they are not an appropriate proxy to
2	use to estimate the cost of capital
3	for a utility that has a plan and is
4	taking prudent actions.
5	Do I understand correctly that you do not consider
6	the U.S. sample to be a valid proxy? I do believe
7	you also mention that in your testimony earlier
8	today? Is that correct?
9	R. The structure of these cases is, you know, over
10	time they are coming more and more they are
11	going to become more and more difficult. There are
12	very few companies that you could find that are
13	publicly traded companies that are pure LDCs, gas
14	LDCs. Many of the companies that I identified and
15	talked about in my direct, that are in the sample,
16	are engaged in other lines of business as well.
17	And it is not that this is a selection of
18	nine (9) out of, you know, the best nine (9) out
19	of a hundred (100) options. It is these are the
20	nine (9) you got, right?
21	And so, it's more the question of dealing
22	with the level of information that we have. If you
23	try to make a restriction to only the sort of, the
2 4	purest best analogs, you might end up with a sample
25	that only had a handful of utilities in it, even

- 1 fewer than nine (9), which would, which would start
- 2 to draw big challenges about trying to find a
- 3 range. A range when you have only two or three or
- four options, is challenging.
- 5 So this whole construct of how these ROEs
- 6 are being decided, is having a sort of a crisis of
- 7 data availability, "a crisis availability" is a
- 8 strong word but a slow, a slow challenge building
- 9 to the methodology.
- 10 So in that context, it makes sense to me to
- include companies that are perhaps not perfects
- 12 analogs, as long as you are aware of what you are
- doing and you account for that, in how you use the
- sample.
- 15 Q. [114] So I am not sure that answers my question. Do
- 16 you consider this U.S. sample as a valid proxy or
- 17 not?
- 18 R. I think when viewed with the full information about
- 19 what the sample is or isn't, then the Régie can use
- 20 it and take it into account along with other
- 21 evidence of other samples and all the other pieces
- 22 that come together with that. But I think the Régie
- 23 should be informed about challenges associated with
- the sample.
- 25 Q. [115] I understand, but I'm not asking you what the

- 1 Régie may or may not do with the sample, I'm asking
- 2 you if you consider the sample as a valid proxy?
- 3 R. I think if I were using the sample, I would go
- 4 ahead and use it, but I would... but I would allow
- 5 and account for the fact that businesses involved
- 6 in that are in... are not perfect proxies for the
- 7 utilities that may be involved in bolder and
- 8 riskier lines of business, etc. And would account
- 9 for that in how I was thinking about ROE in the
- 10 business risk.
- 11 Q. [116] It is my understanding from your report and
- 12 your testimony that you used the sample to assess
- short term risk for the purpose of your
- 14 recommendations to the Régie, is that correct?
- 15 R. I evaluated the sample and one of the outcomes of
- 16 that evaluation as I described in my direct this
- 17 morning, is the clear impact of unregulated
- 18 activities and other things that are not great
- 19 proxies on the results of that analysis. And so,
- 20 that actually... using that sample and evaluating
- 21 it informs my assessment about whether and how to
- give weight to the US sample.
- 23 Q. [117] So, your recommendations for the purpose of
- your report and for the purpose of this file were
- 25 based on your evaluation and your assessment of the

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- 1 US sample as a benchmark, is that correct?
- 2 R. My evaluation of the US sample and how it compares
- 3 with Quebec without necessarily assuming... it is
- 4 the proposed benchmark by Dr. Villadsen, and so I
- 5 wanted to evaluate its suitability as a benchmark
- 6 as well as working forward from that assumption, if
- 7 it is a reasonable benchmark, then what does that
- 8 imply.
- 9 So, there's two steps just as Dr. Brown had
- 10 two steps to his analysis about whether it's a...
- 11 whether it's a reasonable proxy, and to the extent
- 12 that it is, how it can inform the assessment of
- 13 business risk.
- 14 Q. [118] I understand, but my question was more
- precise than that. You made recommendations for...
- 16 regarding short term risk based on your comparison
- 17 between the Quebec Utilities and Dr. Villadsen's US
- 18 sample. So, I will reiterate my question : did you
- 19 use Dr. Villadsen's US sample for the purpose of
- your recommendations in the present file?
- Me PAULE HAMELIN:
- 22 Je vais m'objecter. I object to the question. I
- 23 think that the witness has answered the question in
- this two steps process that he has done. So...

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- 1 Me ADINA GEORGESCU:
- 2 I disagree and that's why I asked my question
- 3 again, but I will leave it up to Mister Chairman to
- 4 decide.
- 5 LE PRÉSIDENT :
- 6 Bien, écoutez, il me semble que vous avez répété la
- 7 question déjà à deux, trois reprises. Dr. Hopkins a
- 8 répondu. Là, après ça c'est une question
- 9 d'appréciation. Vous aurez l'occasion d'y revenir
- 10 en argumentation si la... pour nous expliquer en
- 11 quoi la réponse vous convenait ou ne vous convenait
- 12 pas.
- 13 Me ADINA GEORGESCU:
- 14 Entendu. Merci, Monsieur le Président. Et juste
- pour vous laisser savoir, j'en ai pour encore
- 16 peut-être cinq minutes de questions, j'ai presque
- 17 terminé.
- 18 Q. [119] So, moving on to the next question, Dr.
- 19 Hopkins. So, I won't go back to the exhibit, the IR
- from Dr. Brown to you, question 10.1, because we
- just just looked at it and it's the same... the
- 22 same exact excerpt where you mentioned that the
- 23 only utility you were aware of in the US sample
- that has begun planning activities for compliance
- 25 with an ambitious state climate policy is Northwest

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- 1 Natural. But regarding...
- 2 Me PAULE HAMELIN:
- Who has started making or has made a plan?
- 4 Me ADINA GEORGESCU:
- 5 That it began planning activities for compliance
- 6 with an ambitious state climate policy.
- 7 Me PAULE HAMELIN:
- 8 You should go back to the... to the IRs.
- 9 Me ADINA GEORGESCU:
- 10 So, I will read again from the answer that Dr.
- 11 Hopkins gave:
- 12 I'm aware of one of the companies in
- 13 the US gas sample that has begun
- 14 planning activities for compliance
- with a ambitious state climate policy.
- 16 Me PAULE HAMELIN:
- 17 Thank you.
- 18 Me ADINA GEORGESCU:
- 19 Q. [120] Do you agree that the regulator has set an
- 20 ROE for this utility in the past despite the
- absence of a business plan?
- 22 R. I imagine the regulator must have set an ROE. What
- 23 the... there are resource planing requirements in
- Oregon. Oregon has a recurring process for
- 25 integrated resource planning for each of its gas

1	utilities. In fact, our firm has just been hired
2	to to help the regulator in Oregon with its
3	evaluation of Northwest Natural next integrated
4	resource plan. So, ask me in a few years, and I'll
5	all know this process intimately.

But the... so, well, I haven't been involved in specific processes in Oregon, I'm sure that had to set an ROE because that's a key part of any rate case. I'm sure that they've evaluated plans from Northwest Natural. I also think that if I don't know what the timing has been, but that in Oregon law, the changes of the planning context for the Oregon utilities is recent. So, whether they have set an ROE since that law passed and have wanted to take the planning into account since then, I don't know, it seems a little unlikely given the timeframe.

So, I think the role of that kind of future looking planning in an ROE case in the particular context of energy transition, I think is still an open question in Oregon.

Q. [121] Well... I wasn't referring to the integrated
resource plan which appears to be a statutory
obligation for Northwest Natural to file. I'm
talking about a business plan such as the one that

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1 you recommend and your answer to IR 10.1 says that even Northwest Natural did not file a similar 3 business plan. So, my question to you is : do you agree 4 5 that the regulator in Oregon had to set an ROE 6 despite the fact that Norhtwest Natural did not 7 file a business plan for the purposes of 8 determining that ROE in the past? Do you agree with 9 that? R. So, I think the question of... the need to do this 10 11 kind of forward looking comprehensive business 12 planning is driven by, the root cause of that is the need to mitigate greenhouse gas emissions and 13 to meet ambitious climate goals. So, the... to the 14 15 extent that that policy environment has changed 16 since the last time Northwest Natural had a rate risk, and I unders... I do not know when the last 17 time where Northwest Natural had a rate case and 18 19 when the ROE was set and what the issues were with 20 respect to business risk. But I just think we 21 can't.. I don't know, but given the context of the 22 timing of policy change in Oregon, I would not have 23 expected these issues to be at issue in a rate case where the ROE was addressed in the past. And so, 24

the question of how Oregon will deal with that in

PANEL 2 - ACIG Cross-examination Me Adina Georgescu

- 1 the future, I think it's still an open question. I
- think... I think we are in a sort of a... a moment
- 3 of transition about how the regulators in Oregon
- 4 will think about the climate law, which they are
- 5 required to take into account in many different
- 6 cases, including integrated resource planning, but
- 7 also other cases, how they will bring that to bear
- 8 the next time the question of risk and ROE comes up
- 9 in Oregon.
- 10 Q. [122] Thank you. My last question, and it's more a
- 11 question of clarification, I'd like to bring you to
- 12 your presentation of... of this morning. Your
- 13 PowerPoint at page 9. Madame la Greffière, est-ce
- 14 qu'il serait possible d'afficher la présentation du
- Dr. Hopkins de ce matin, s'il vous plaît? Merci
- 16 beaucoup. C'est à la page 9. Merci.
- 17 So in the first, in the first bullet on
- 18 this, on this page, I see you're quoting a sentence
- 19 from Q and A 11 from doctor Brown's direct
- 20 testimony. You say:
- 21 Volatility in returns is associated
- 22 with risk, and "Other things equal,
- 23 investors prefer returns that are less
- 24 volatile".
- 25 And that is the quote from doctor Brown's

1	testimony. I would like to go to that specific
2	answer that doctor Brown gave, to see the rest of
3	the paragraph, if possible, so Madame la Greffière
4	est-ce que ça serait possible de mettre à l'écran
5	le témoignage du docteur Brown. Et je vais vous
6	donner la cote dans un instant. B-0027. C'est à la
7	question 11. Merci.
8	So, you quoted the first sentence of his
9	answer: « Other things equal, investors prefer
10	returns that are less volatile ». The second
11	sentence says:
12	Thus, if investors expect returns to
13	be volatile, and specifically if
1 4	movements in achieved return are
15	correlated with returns from the
16	market generally so that the
17	volatility cannot be diversified away
18	the cost of capital increases and the
19	allowed return needs to be higher.

- Do you agree with this second sentence?
- R. Pardon me. I'll just re-read. 21
- Q. [123] Sure. Take your time. 22
- R. Yes, I do. I think that's a general precinct. 23
- 24 Q. [124] Okay. So, I would like to now go back to your
- presentation. Madame la Greffière, si c'était 25

- 1 possible de retourner, de retourner à la
- présentation du docteur Hopkins. Merci.
- I'd like to take you then to slides 10, 11 3
- and 13 of your presentation, so we can take them 4
- 5 one by one. Ten. I'm gonna let you take a look at
- 6 them, take the time you need.
- 7 R. I'm familiar with them.
- 8 Q. [125] Eleven. We can go just to make sure that
- you've seen them and you have the context for the 9
- 10 question. Eleven, and thirteen. So these slides
- 11 essentially show return volatility. So my question
- 12 is: do these charts show movements in achieved
- return that are correlated with the returns from 13
- the market generally so that the volatility cannot 14
- be diversified away? Or do these charts show total 15
- 16 volatility?
- R. These charts show a total volatility. 17
- Q. [126] Thank you. Monsieur le Président si vous me 18
- 19 donnez juste deux petites minutes pour voir avec
- 20 mes collègues si j'ai d'autres questions. Je vais
- pouvoir vous revenir, puis sinon je vais avoir 21
- terminé mon contre-interrogatoire. 2.2
- 2.3 LE PRÉSIDENT :
- 24 Alors on vous attend pour quelques minutes.

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- 1 Me ADINA GEORGESCU:
- Q. [127] Merci beaucoup. Doctor Hopkins, I'll be back
- in a second to see if I have any further questions.
- 4 R. [128] I'll be here.
- 5 PAUSE
- 6 Me ADINA GEORGESCU:
- 7 Alors je suis de retour, Monsieur le Président.
- 8 Excusez-moi, donc je n'aurai pas d'autres
- 9 questions. Merci beaucoup.
- 10 Thank you very much Doctor Hopkins.
- 11 R. That is a pleasure.
- 12 Q. [129] Same here.
- 13 LE PRÉSIDENT :
- 14 Merci, alors Maître Legault? Pas de question de la
- 15 Régie. Merci. Madame Falardeau? Alors ça va
- 16 compléter...
- 17 Me PAULE HAMELIN:
- 18 Monsieur le Président j'aurais peut-être juste
- 19 deux, trois questions en ré-interrogatoire si vous
- le me permettez.
- 21 LE PRÉSIDENT :
- Oui. J'allais vous poser, j'allais vous le
- 23 demander. Alors allez-y.
- 24 RE-EXAMINED BY Me PAULE HAMELIN:
- Q. [130] Doctor Hopkins, I wish to refer you to

- 1 decision D-2011-182. It is exhibit C-ACIG-0079. So
- 2 I'll ask... Madame la Greffière, si vous pouviez
- 3 mettre la décision à l'écran. C-ACIG-0079 autour du
- 4 paragraphe 232.
- 5 So my colleague asked you questions
- 6 specifically to paragraph 232 and to paragraph 235.
- 7 Do you have any other comments with respect to,
- 8 because she didn't read 233. Do you have any
- 9 comments to make with respect to paragraph 233?
- 10 R. Only that the Régie in addition to considering the
- 11 items of risk that, that she asked about also
- 12 considered other things like the consistency of
- 13 returns realizing its authorized ROE that's
- 14 consistent with a short term more volatility risk
- 15 piece that I identified as being part of what the
- overall assessment should be. And the
- 17 competitiveness piece which is again consistent
- 18 with how I've composed my analysis.
- 19 So the, the questions... it looks like the
- 20 Régie was considering many of the aspects that I
- 21 highlighted in my testimony as it was making its
- decision.
- 23 Q. [131] Thank you. Have you read doctor Booth's
- 24 report?
- 25 R. I read, I read an early draft of it, earlier draft

- 1 of it. I don't know if I read it in its, in its
- 2 final form. Mister Booth writes lot of words.
- 3 Q. [132] Are you aware of any Canadian precedents
- 4 cited by doctor Booth referring to the questions of
- 5 the risk horizon in an ROE case?
- 6 R. I don't remember that particular citation from
- 7 doctor Booth's testimony. I'm sure he can highlight
- 8 relevant pieces at that point. I'm not as familiar
- 9 with the Canadian, the various Canadian regulatory
- 10 precedents.
- 11 Q. [133] You were asked if you have any, if you have
- 12 seen any mitigation plan in the context of an ROE
- 13 case. Are you aware of any utility claiming energy
- 14 transition as a business risk in an US
- jurisdiction?
- 16 R. I haven't, I haven't seen that come up in any cases
- 17 that I've been involved in. Most of the cases are
- in... you know, there's a sort of... the state of
- 19 the conversation on energy transition is at the
- 20 level of regulatory... regulators wanting to get an
- 21 handle on this issue in opening generalized dockets
- on the question. And so the analysis and the
- 23 presentation are in that context. And the, the
- 24 particular questions of, you know, that energy
- transition causes a particular risk, which then

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- 1 should be reflective in so many points on an ROE, I
- 2 haven't seen that in any, in any case in the US.
- 3 Q. [134] Thank you. Mister Chairman, this will be
- 4 ending my questions, so no further questions to, to
- 5 doctor Hopkins.
- 6 LE PRÉSIDENT :
- 7 Alors on va pouvoir libérer docteur Hopkins. Thank
- 8 you very much, Dr. Hopkins, for your availability.
- 9 You are now free.
- 10 R. Thank you very much, it has been a pleasure.
- 11 Me PAULE HAMELIN:
- 12 Thank you.
- 13 Me PATRICK OUELLET:
- 14 Donc, j'aurais une petite question d'intendance si
- vous me permettez, Monsieur le Président.
- 16 LE PRÉSIDENT :
- 17 Oui.
- 18 Me PATRICK OUELLET:
- 19 Pour l'interrogatoire en chef du docteur Booth, et
- j'imagine que vous allez prendre le reste de...
- 21 Est-ce que vous avez une idée de combien de temps
- 22 ça va durer, pour savoir si je contre-interroge
- 23 aujourd'hui ou non, tout simplement? Parce qu'il
- 24 est quand même rendu quatorze heures quinze
- 25 (14 h 15).

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- 1 LE PRÉSIDENT :
- Oui. Allez-y, Maître Hamelin!
- 3 Me PAULE HAMELIN:
- Bien, écoutez, c'est sûr qu'il est déjà deux heures
- 5 quinze (2 h 15). On peut commencer. Mais ça a été
- 6 effectivement une longue semaine. Je veux juste
- 7 souligner que mon collègue va avoir eu sa
- 8 présentation. Nous, on a essayé de le faire selon
- 9 les règles habituelles. Ça a été déposé hier.
- 10 Alors, juste soulever le fait que mon collègue va
- 11 avoir la chance de passer tout le week-end à penser
- 12 à son contre-interrogatoire du docteur Booth alors
- 13 qu'on a eu à peu près comme... bien, j'ai eu une
- 14 heure et, une soirée disons, si je peux dire, de
- notre côté. Mais on est à la disponibilité de la
- 16 Régie. Je pense que ça a été une longue semaine
- 17 pour tous. Il est disponible, mais on est prêt à
- 18 commencer.
- 19 LE PRÉSIDENT :
- Oui, on serait prêt à poursuivre avec la
- 21 présentation du docteur Booth.
- Me PAULE HAMELIN:
- 23 Parfait.
- 24 LE PRÉSIDENT :
- 25 Et il continuera lundi matin. Je voulais juste

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1	vérifier avec vous, Maître Hamelin. Est-ce que vous
2	avez eu l'occasion de prendre connaissance de la
3	réponse à l'engagement numéro 3?
4	Me PAULE HAMELIN :
5	Pas encore. Je m'excuse. Ça va à un rythme assez
6	rapide. Alors, on va naturellement prendre
7	connaissance en fin de semaine sûrement et on va
8	être en mesure de revenir à la Régie. Est-ce que
9	c'est trop tard si Je sais que mes analystes
10	travaillent, regardent le document présentement. Je
11	vais essayer de vous revenir avant la fin de la
12	journée. Je vois maître Duquette
13	LE PRÉSIDENT :
1 4	Oui, ça va. Donc, pour docteur Booth, on aurait
15	besoin de combien de temps? Est-ce qu'on ferait ça
16	tout d'un bloc dès cet après-midi ou
17	Me PAULE HAMELIN :
18	J'ai l'impression qu'on ne fera pas tout un bloc
19	parce qu'il en avait On a déposé la
20	présentation. Je pense que ça a presque cinquante-
21	neuf (59) pages. On peut peut-être commencer et je
22	pense qu'il y a des aspects qu'on pourrait faire
23	dans le cadre de sa présentation. Et il pourrait
2 4	peut-être nous indiquer à peu près où il serait
25	prêt à On pourrait le faire par blocs. Alors, on

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- 1 pourrait peut-être commencer par un premier bloc.
- 2 Si vous me permettez, je pourrais peut-être prendre
- 3 juste quelques minutes avant qu'il commence pour
- 4 voir à peu près, juste m'assurer où est-ce qu'on
- 5 pourrait arrêter. De sorte qu'on pourrait
- 6 certainement aller jusqu'à trois heures (3 h) si ça
- 7 vous convient ou bien si vous préférez qu'on le
- 8 fasse tous... Mais c'est quand même... On est à la
- 9 disposition de la Régie. Ma préférence, ce serait
- 10 de pouvoir en faire une partie.
- 11 LE PRÉSIDENT :
- Oui. Disons jusqu'autour de quinze heures (15 h),
- un petit peu plus.
- 14 Me PAULE HAMELIN:
- 15 Parfait.
- 16 LE PRÉSIDENT :
- 17 Autour de ça. C'est ça. Alors, on prendrait une
- 18 pause de dix minutes, jusqu'à quatorze heures
- 19 trente (14 h 30). Vous aurez l'occasion de discuter
- 20 avec docteur Booth.
- Me PAULE HAMELIN:
- 22 Parfait.
- LE PRÉSIDENT :
- 24 Très bien. Merci.

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1	Me PAULE HAMELIN :
2	Merci.
3	SUSPENSION DE L'AUDIENCE
4	
5	REPRISE DE L'AUDIENCE
6	LE PRÉSIDENT :
7	Alors, nous sommes prêts à passer au panel numéro 3
8	de l'ACIG.
9	Me PAULE HAMELIN :
10	Parfait. Alors, quant au panel for panel number
11	3, we have already filed an affidavit from Dr.
12	Booth with respect to his evidence and all of the
13	IRs. So, it's already adopted. I'll ask à madame la
14	greffière d'assermenter le témoin.
15	
16	PANEL 3 - ACIG
17	IN THE YEAR TWO THOUSAND TWENTY TWO, on this
18	seventeenth (17th) day of June, PERSONALLY CAME AND
19	APPEARED:
20	
21	LAURENCE BOOTH, professor of finance, CIT Chair in
22	Structured Finance, Rotman School of Management,
23	University of Toronto, 105, St. George Street,
2 4	Toronto (Ontario);
2.5	

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- 1 WHO, after having made a solemn affirmation, doth
- 2 depose and saith as follows:

3

- 4 EXAMINED BY Me PAULE HAMELIN:
- 5 Q. [135] So, Dr. Booth, as I was indicating, we
- 6 have... we have already file an affidavit adopting
- 7 your evidence, your written evidence, in this file.
- 8 Do you have any corrections or modifications that
- 9 you would like to make to the... to your written
- 10 evidence?
- 11 R. I have two corrections that I'll cover in my direct
- 12 presentation, because they're part of the material
- 13 I took direct from my testimony that are correct.
- 14 Q. [136] Okay. And I don't know if it's only me, but I
- 15 see just a portion of... of your face, Dr. Booth.
- 16 Would it be possible just to move your camera a
- 17 little bit?
- 18 R. Is that better?
- 19 Q. Yes. Is it okay with... with the Board?
- 20 LE PRÉSIDENT :
- 21 Oui, ça va.
- Me PAULE HAMELIN:
- 23 Okay.
- 24 LE PRÉSIDENT :
- 25 Merci.

1 Me PAULE HAMELIN:

- 2 Parfait.
- 3 Q. [137] And just before you, we see on the screen
- 4 your presentation, this was file as C-ACIG-0087. Do
- 5 you also adopt this presentation as part of your
- 6 written testimony in this file?
- 7 R. I do.
- 8 Q. [138] Okay. So, I'll let you make your presentation
- 9 and my understanding is that you will be doing the
- 10 first portion of your presentation up and until the
- 11 capital structure segment, so I'll let you go.
- 12 R. Okay. Now, the person that's in charge of
- 13 transmission of the overheads, is that Ms. St-Cyr,
- Nathalie? Is that right?
- 15 LA GREFFIÈRE :
- 16 Yes, that's right.
- 17 R. Okay. So, Nathalie, when I say : can you change the
- 18 overhead, please change the overhead, and if I need
- 19 the overhead expanded, there's some of my pictures
- if you click on them, you could just pull the
- 21 handles and make the picture bigger. I don't think
- 22 that affects us today, but it might affect us on
- Monday. Okay?
- 24 LA GREFFIÈRE :
- Okay. No problem.

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- 2 And Madame St-Cyr, I think that Dr. Booth prefer to
- say Nathalie because he has a hard time saying 3
- St-Cyr, and so it's not as of disrespect to you, 4
- 5 okay.
- 6 LA GREFFIÈRE :
- 7 That's very fine with me.
- 8 R. I can say, but I prefer to call her Nathalie, if
- 9 that is acceptable to her. Okay. This is just
- oversee the title page Fair Return and Capital 10
- 11 Structure for the Ouebec Utilities. And first of
- 12 all... next slide please, Nathalie.
- So, I've not appeared before the Régie, I 13
- think since two thousand and fourteen (2014), eight 14
- 15 years ago, and I'm not familiar with the members of
- 16 the panel, so I thought it was appropriate just to
- remind them of my CV. As I said, I'm a professor of 17
- Finance and I hold a CIT Chair in Structured 18
- Finance at the Rotman School. 19
- 20 I was the finance area coordinator there
- 21 for twenty-one (21) years during which time I was
- 22 awarded the Financial Post Leader in management
- 23 Education award and I've published over a hundred
- refereed articles, mainly journal articles and 24
- 2.5 three leading text books.

1	My first professional work was in nineteen
2	eighty-two eighty-three (1982-1983) where I was
3	asked to do some reports for the Ontario Securities
4	Commission. At the time, we were deregulating the
5	investment banking business, and in fact the
6	chartered banking business as well. So, I wrote a
7	series of reports for the OSC because the
8	investment banks were under the control of the
9	provincial government, provincial regulation, the
10	OSC regulations.
11	Then, in nineteen eighty-five eighty-six
12	(1985-1986), I did my first rate of return
13	testimony before the CRTC on Bell Canada, and
14	subsequently with my late colleague, Professor
15	Michael Berkowitz, we appeared in almost every
16	regulatory body in Canada including cases before
17	the Régie. And I was trying to remember when I
18	first appeared before the Régie and I suspect it
19	was in the late nineteen nineties (1990s) with my
20	late colleague Professor Michael Berkowitz, but
21	unfortunately I don't have any records of that.
22	But as part of this, we both appeared
23	before the National Energy Board in nineteen
2 4	ninety-four (1994) when they had the landmark
25	hearing into setting an automatic ROE adjustment

mechanism.

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And individually, I appeared on behalf of the Canadian Association of Petroleum Producers in another landmark case which was the two thousand and eleven (2011) case on whether or not its assets were stranded and whether or not it was facing the really serious risk of stranded assets where some parties suggested that the Northern Ontario line basically should be written off. So, that was two landmark cases before the National Energy Board.

In addition a lot of the things that I say, in many ways are basic finance issues, and I've appeared before the Tax Court of Canada on a couple of occasions as well as several civil cases to explain what, in many ways, are really fundamental things in finance.

And most recently with my colleague,

Professor Eric Kirzner, we've appeared in a number

of indigenous land claim cases in Ontario and right

away across Canada, and we've appeared on behalf of

the Department of Justice dealing with questions

that go back to the seventeen nineties (1790s) in

terms of the purchase of land on behalf, from

Indians, the Indigenous Bands and on other cases

where the Crown has not fulfilled some of its

1	responsibilities toward our Indigenous People.
2	So, that's just to give you a background
3	of of what I do. I mainly teach corporate
4	finance, but I do lots of other things apart from
5	advising boards in terms of rate of return
6	regulation. And in that case, I've appeared as a
7	board witness also as an intervener witness on
8	multiple occasions over the last I hate to say
9	but over the last thirty-seven (37) years. Next
10	slide please, Nathalie.
11	Okay. Now, when I look at my testimony, I
12	have my core testimony, which is broken out into
13	these six sections and I have a number of
14	appendices and what I put in appendices tends to be
15	the more technical material, and I think I probably
16	made a mistake in this hearing, which is I
17	should've put the business risk appendix right in
18	the core of my testimony rather than including it
19	as Appendix F. But in this presentation, I'm going
20	to give an overview of everything that I
21	essentially cover or all the core material that I
22	covered in my testimony. Next slide please,
23	Nathalie.
2 4	So, what are the key issues and
25	recommendations, what's the big picture the Régie

1	has to deal with. And that's fundamentally from my
2	reading of the file: has the business risk of any
3	of the Quebec gas utilities increased since their
4	last hearings? And I was involved in all three of
5	the last hearings, the two thousand and eleven
6	(2011) Gaz Métro hearing, the two thousand and ten
7	(2010), I think it was Gazifère hearing, and the
8	Intragaz hearing, as well as subsequent
9	Hydro-Québec distribution and transmission
10	hearings.
11	Why is the business risk important? It's
12	because most regulators set the common equity ratio
13	based upon the underlying business risk. The
14	National Energy Board has a specific policy. First
15	of all, they assess the business risk and then if
16	the business risk is changed, they change the
17	financial risk, which is they change the debt
18	equity ratio.
19	So, for example, in the landmark nineteen
20	ninety-four (1994) decision, they set the gas
21	transmission pipelines at a thirty percent (30%)
22	common equity ratio, they were holdbacks for a long
23	term contract, they then set the oil pipelines of
2 4	forty-five percent (45%) because their common
25	carriers not back for a long term contract. And

1	what was then called Vancouver Westcoast
2	Transmission, the pipeline from western Alberta
3	down to Vancouver, they gave us thirty-five percent
4	(35%) common equity ratio because they have a lot
5	of feeder pipelines as well as mainline pipelines.
6	So, business risks is really fundamental to
7	determining the common equity ratio. And then, it's
8	a question of what are reasonable common equity
9	ratios. And then, from those common equity ratios,
10	what is a fair and reasonable rate of return.
11	So the logic of most hearings, is first of
12	all business risk, then the common equity ratio,
13	and then assessing a fair rate of return. And in
1 4	fact I've been involved in some hearings which are
15	not a rate of return hearing it's strictly business
16	risk and common equity ratio hearing. The Ontario
17	Energy Board had a couple of those in the two
18	thousand and ten (2010) for Union Gas and Enbridge
19	Gas Distribution. So the question was: what it is
20	their business risk, has it changed, do they
21	deserve a change in a common equity ratio. And
22	obviously I was involved in most of those hearings.
23	What are my recommendations? My best
2 4	recommendation for the last two decades has been

25 that gas distributors, a fair rate of return should

1	be based upon a thirty-five percent (35 %) common
2	equity ratio. And for the last ten years also, my
3	recommendation has been a 7.5 % return on equity.
4	And I'll explain, probably on Monday, why my return
5	on equity ratio hasn't materially changed over the
6	last ten years. But that's my best recommendation.
7	For Énergir I'm proposing 7.5 % return on
8	equity, and I'm proposing the continuation of the
9	current capital structure. It's a basic example of
10	if it works why change it? And here, Énergir is got
11	a 38.5 % common equity and 7.5 % deemed. And I've
12	be listening to the discussion on the deemed
13	preferred shares. The fact of that they're deemed,
14	means to say they don't exist. They exist in terms
15	of setting the revenue requirement, but they do not
16	exist in terms of having a prior charge over the
17	common equity holders. Normally we look at
18	preferred shares as having a preferred dividend
19	over the common shares. A preferred plan in case of
20	liquidation and as a result the absence of voting
21	rights. In the case of deeming neither of those
22	exist. There is no preference in terms of the
23	dividend, since they don't really exist. And
2 4	there's no preference in terms of a claim on the
25	resources of Énergir should it get into financial

1	difficulty. So really it is 46% common equity,
2	where part of that 46% of common equity, 38.5% gets
3	the common allowed return and 7.5% gets a deemed
4	preferred component which last time, I seem to
5	remember, was a five percent (5 %) rate of return.
6	But, unlike doctor Villadsen, I do not
7	believe that it consists of 60% common of 40% debt,
8	because they don't exist. And they're not imposing
9	any risk. That ratio does apply to some types of
10	preferred shares based upon a specific
11	characteristics of preferred shares that are stowed
12	into the capital market. And as a result, there is
13	a preferential dividend over the common shares. And
14	there is a preferential claim in bankruptcy. But
15	the mere act of deeming them doesn't make them
16	equivalent to preferred shares. So, in my view, a
17	46% equity component, 11% more than I would
18	normally recommend is an adjustment for the higher
19	risk of Énergir. And then, given the higher risk
20	reflected in the 38.5 and 7.5, I think they deserve
21	a 7.5% ROE.
22	In terms of Gazifère, I will talk a little
23	bit about its risk, but I'm recommending a 40%
2 4	common equity ratio which is slightly more than a
25	gas distributor regulated by the Alberta Utilities

1	Commission. A significantly smaller utility
2	regulated by the Alberta Utilities Commission. And
3	a 7.65% ROE. So I'm recommending a marginal higher
4	ROE and 5% more common equity ratio than I
5	recommend for a typical gas distribution utility.
6	The Intragaz, I went back to what I said
7	eight, nine years ago at the Intragaz hearing. And
8	what we have to remember about Intragaz is that it
9	got a ten years contract with Énergir and Énergir
10	owns 50% of Intragaz. So if you give Intragaz a
11	higher ROE essentially that goes back to Énergir,
12	50% of it to Énergir. And Énergir controls to great
13	extent the risk of Intragaz.
1 4	As a contractual arrangement, I see very
15	very little risk attached to Intragaz. The only
16	risk is that Énergir doesn't fulfill its contract.
17	This is very similar to ATCO Pipelines out in
18	Alberta where their revenue requirement is included
19	in the revenue requirement of TransCanada
20	Pipelines. And the only serious risk is whether
21	they fulfill the contract. I remember asking ATCO
22	Pipelines a question: what we'd you do if you don't
23	get paid on your contract? And they say
2 4	immediately: we would sue TransCanada.
25	So the question here is, is there any

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2 no. At least under the ten years of the contractual

material risk attached to Intragaz and my answer is

- 3 arrangement. But, I'm mindful of the fact that
- 4 Énergir wanted Intragaz integrated within his rate
- 5 base. As far as I can see it is integrated into his
- 6 rate base. So I have no problem allowing Intragaz
- 7 the same financial parameters as Énergir. I do not
- 8 see it as a freestanding independent company. It's
- 9 basically integrated with his only customer which
- is Énergir. So I have, I know that the Régie has
- 11 regulated on the past on an avoided cost basis, but
- 12 I have no material problems with, with it being
- integrated within, within Énergir.
- 14 Q. [139] Just, just before you go, Doctor Booth. Have
- you considered the, the decision or recommendation
- of Dr. Hopkins with respect to Intragaz?
- 17 R. I have.

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- 18 Q. [140] And what's your position with respect to
- 19 that?
- 20 R. I don't see that has being a material problem
- 21 treating them as being integrated with, with
- 22 Énergir. And this is exactly the same conclusions
- 23 that I came to eight years ago when I provided
- 24 testimony on Intragaz. The only customer is
- 25 Énergir.

1	And talking about trying to generate
2	additional customers, I don't think is reasonable.
3	I can understand the Régie's point of view that you
4	shouldn't get charged more than the avoided cost,
5	which was the situation the Régie basically had
6	eight, nine years ago. But, as I said, I have no
7	problem treating it as integrated within Énergir
8	because as far as I'm concerned it essentially is
9	integrated within Énergir.
10	The only problem is the 50% minority
11	ownership. Otherwise I'm sure Énergir would have
12	100% acquired the company and ask for it to be
13	integrated within Énergir's rate base. Much the
1 4	same that Union Gas, their storage operations where
15	basically integrated with Union Gas. And except the
16	fact that Union Gas could actually market the
17	services of his gas storage to other customers
18	whereas Intragaz has no other customers.
19	So, where I have a substantial difference
20	with Asa's comments. In a deep sense it is lower

Now, I do say that this is a very strange 2 4 hearing. Normally, when I look at a hearing, I get five hundred (500) to a thousand (1000) pages of

risk. But in a practical sense, I just don't see

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it.

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1	filing by the company. And included within those
2	fillings, there would be a hundred pages from an
3	expert witness. In this case, I do not see all of
4	the filings. I do not see the forecast for the
5	revenue requirement over the next three years, the
6	test years or the next five years. I do not see the
7	forecasting costs. I do not see all of the
8	discussion of the embedded debt cost. I do not see
9	all of the things that I normally see in a rate
10	hearing, all I see is evidences presented by
11	witnesses on behalf of the Québec Utilities. And,
12	they say things very similar to what I've heard in
13	other hearings. Which is not quite the disguise
1 4	falling but there are all sorts of qualitative risk
15	factors out there.
16	And I heard this most recently in two

thousand and eleven (2011) from doctor Morin when he provided testimony. I hear it in most rate cases, there are qualitative discussions attached to increasing risk. But when the rubber meets the road, is when these qualitative factors actually materialize and they are risks born by the common shareholders.

And in thirty-seven (37) years, thirty (30) whatever it is of years of testifying, invariably

when these risks materialize, they get reallocated	
to ratepayers, they are not risks that are born by	
shareholders. And that is a regulatory compact in	
Canada.	

So I was listening to the cross-examination of Dr. Hopkins and I was waiting for him to say: yes, these risks may exist, but are they actually born by the shareholders? They may be born by the shareholders in the United States, but they are generally not born by the shareholders in Canada. And I will get to that when I discuss further about business risk.

And there's a link that's missing and the link is that even if these risks do materialize, how do they actually affect the utility which is to say: if we get a dropping load and if, in fact, we get a drop in the number of customers attached to Énergir system, then this is a predictable forecasting risk that Énergir deals with in a rate hearing.

And the question is: can Énergir deal with this in a normal regulatory framework and is the regulator going to protect Énergir in a way that it has protected Énergir for the last thirty (30) years? And in fact, every regulator in Canada has

1	protected Canadian regulated utilities for as long
2	as I have been testifying.
3	So the only way that these risks can
4	materialize is first of all, that the regulator
5	decides to hold the utility at risk, for these
6	risks which I have yet to see, and secondly, do
7	they actually demonstrate a loss in customers and
8	their inability to rebalance load and to change
9	rates to accommodate a reduction in the number of
10	people using gas in Québec.

And incidently, I have no problem that there are increased risks out there. The critical thing is not that the risks exist, but the risks actually affect the utility.

So, if you can change the slide, please, Nathalie?

Now, part of my introduction here came from the fact that I had some very good questions from the Régie. So I am starting out basically highlighting my answers to the Régie because there were very appropriate questions. And one of the questions, was: there's all these utilities and they average the rate of return and the average to common equity ratio and essentially the Régie ask what do I think about this?

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Well, I think it is very bad and it is very
misleading to just average a number of utilities
and say: that is the average common equity ratio
and the average return on equity for a Canadian gas
distributor.

And what I have got here, I got four big black arrows for the utilities they are always regarded as being the main utilities in Canada. I do not regard Liberty Utilities Gas New Brunswick as being a major utility. I testified in that hearing last year, it's got forty-nine million dollars (\$49 M) in revenues. It is a tiny little utility. Not only is it a tiny little utility, it is an immature utility. Both Liberty and Heritage Gas in New Brunswick were trying to build a brand new gas network in a province that didn't use gas. And the reason for that, was the discoveries of offshore gas and oil fields off the, off the Maritimes and a desire to provide them with natural gas, a cheaper form of fuel for the residential and industries than fuel oil.

So Liberty Utilities, fifty million dollars (\$50 M), annual throughput five million gigajoules (5 M Gjs). Heritage Gas, a little bit bigger but less customers, because of the mix between

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1		,		
1	industrial	and	residential	customers.

So those are two of what we call greenfield utilities. Tiny utilities that haven't even really built out their gas network to reach the stage of being close to sort of an established utility.

And then a little bit bigger than them, we got AltaGas utilities which incidentally, is not AltaGas in the samples of companies that people look at, because that used to belong to AltaGas but it was spun off and is no longer owned by AltaGas, so it is a little bit misleading, but AltaGas Utilities is regulated by the Alberta Utility Commission and again, is a tiny little utility. His customers will spread out geographically in Alberta and as a result of that, the AUC gives them a slightly bigger bump in their combined equity ratio.

And then bumping up a little bit more, we got Pacific Northern Gas and Gazifère. Pacific Northern Gas, was always regarded as one of the riskiest utilities in Canada, mainly because it lost seventy percent (70 %) of his load when Methanex closed his doors and as a result, they were load rebalancing problems out in north east British Columbia. And Gazifère I've always regarded

-	as being integrated with Enbridge gas, it is part
2	of the Enbridge gas system. So they all got special
3	cases.

And then we got to four big utilities and Énergir is not a small utility. Its annual revenues, one and a half billion (1.5 B), FortisBC Energy, one point three billion (1.3 B), ATCO Gas, eight hundred and twenty-four million (824 M).

And then the giant, Enbridge Gas, five billion dollars (\$5 B) in revenues and Enbridge Gas basically swallowed up all of the gas utilities in Ontario. We used to have Union Gas until four, five years ago. We used to have Central Gas Ontario, dealing with all those northern Ontario industrial plants with heavy industrial load, and I think I compared Énergir or Gaz Métro with Central Gas Ontario in previous hearings, because of its heavy industrial load.

But those are the benchmarks I have used in, traditionally, looking at Énergir, not adding in these tiny little utilities that are greenfield utilities and certainly not splitting Pacific Gas, Pacific Northern Gas, which is already a tiny utility into three different tinier utilities. It over represents the average in terms of companies

1	that I do not think are representative of Énergir.
2	So Nathalie, can you change the next
3	overhead, please?
4	So what do I think is representative and
5	useful for a business risk analysis of Énergir?
6	I've always looked at the four big, almost province
7	wide, utilities and the critical one ultimately is
8	the competitive nature of natural gas as a fuel.
9	And if because if natural gas is not
10	competitive, it will not be flow through the pipes
11	and you'll have problem recovering obviously the
12	revenue requirement.
13	This was data put together for the BCUC's
14	ongoing hearing and it was put together last fall
15	for FortisBC Energy. This is the sort of
16	information that I expected Énergir to provide, an
17	assessment of his own business risk and ultimately,
18	this is only information that can come from
19	Énergir. You cannot ask witnesses to deep dive into
20	the utility in terms of coming up with
21	competitiveness of natural gas in different areas
22	and forecast and how this is going to affect their
23	revenue requirement.
2 4	So fundamentally, this is what Énergir
25	should have provided, but regardless, it was

1	provided by FortisBC Energy and as a lot of the
2	material provided by the utilities, it is not quite
3	what it seems to be.
4	So Nathalie, can you click on the overhead
5	and grab one of the handles to expand it, so we can
6	see some of the numbers, a bit clearer?
7	Okay, so what we have got here, is for
8	example in Vancouver, we've got Fortis Energy BC is
9	looking at it, and the cost advantage, and it's got
10	electricity, fifty-five percent (55%) increase over
11	gas. Now fifty-five per cent (55%) is a little bit
12	unrealistic way of representing it.
13	What it really means, is that heating with
14	electricity is twice as expensive as heating with
15	gas and I think it is misleading, for Fortis Energy
16	BC that doing it this way is a little bit
17	misleading. What you're really saying is
18	electricity is twice as expensive.
19	When you look at ATCO, you've got the same
20	sort of analysis twenty-six on a unit basis
21	twenty-six percent (26%) cost is for gas,
22	seventy-four percent (74%) is for electricity. So,
23	what they're really saying is electricity is three
2 4	times as expensive as heating with gas in Alberta,
25	which is not really surprising because the

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1	transmission and the distribution cost attached to
2	natural gas in Alberta is obviously very very low.
3	So, even though the electricity is more expansive,
4	natural gas is incredibly cheap in Alberta because
5	that's predominantly where a lot of the gas comes
6	from.

But when you look at ATCO gas, electricity is three times more expansive than... than gas. You look at Ontario and you got thirty-four percent (34%) to sixty-six percent (66%), it's a little bit better than out in Vancouver, but basically you're looking at twice the cost of heating with electricity than gas.

And then you get to Montreal, and people in Quebec are incredibly lucky, they got very cheap power costs, thankfully because of all of the... the big dams coming down from the James Basin. BC's got some of that, BC Hydro got lower cost as well, but not as much as Quebec. And the only other province would be Manitoba, where Manitoba Hydro also got very cheap hydro power. But in Ontario, we got some cheap hydro, but we got lot of nuclear plants and it's struggling to... to provide electricity.

So, when you look at Montreal, you got

seventy-four percent (74%) cost for natural gas,
twenty-six percent (26%) cost for electricity, so
you've got a thirty percent (30%), thirty-five
percent (35%) cost advantage for natural gas over
electricity. In the sense that currently
electricity costs thirty to thirty-five percent (30
to 35%) more than the natural gas for a residential
user.

And this, as I say, is what... is provided before the BC Utilities Commission right now, but that is the underlying business risk, it comes from the competitiveness of the fuel that you're transporting. And Énergir does not have the huge advantage that ATCO Gas has, all the significant advantage that Fortis Energy BC and Enbridge Gas have, but it's a question of how much cheaper this gas have to be relative to electricity. And right now, natural gas has a competitive advantage in Montreal, but it's clearly going to erode as you start getting bigger carbon taxes and that's going to reflect on his cost comparison.

But that's how I start when I look at these utilities. I say we got these big four utilities that are good bases for comparison, forget about these smaller utilities, they're not in the same

1	bucket as the four big utilities, and of these four
2	big utilities I would rate ATCO Gas is probably the
3	lowest risk on clear competitive reasons, but
4	Enbridge is the primary utility in Canada, it is
5	huge in size gives it so many advantages that
6	you've got, Enbridge is probably the lowest risk
7	closely followed by ATCO Gas. Then you got BC,
8	Fortis Energy BC, and then you got Énergir.
9	This is my risk ranking that I've been
10	explaining for at least the last fifteen (15)
11	years. Next slide please, Nathalie.
12	So, in terms of that average that was put
13	before the Régie, my view would be the correct
14	average is ATCO Gas, FortisBC Energy and Enbridge.
15	So, as of twenty twenty (2020), that means the
16	average ROE was eight point five three percent
17	(8.53%) and Énergir allowed eight point nine
18	percent (8.9%). So, it's thirty seven (37) basis
19	points more, slightly more than the risk premium
20	that the Régie allowed back in two thousand and
21	eleven (2011). And then we look at the common
22	equity ratio of thirty-seven point two percent
23	(37.2%) allowed common equity for those three
2 4	utilities, and as I said the Régie allows Énergir a
25	thirty-eight point five (38.5) and a deem seven

19

20

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22

23

24

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slide, please.

1	point five (7.5). So, that's basically forty-six
2	percent (46%) equity and I judge is the equity
3	ratio where you really adjust for the differential
4	risk of the utilities.
5	And incidently the AUC said you can't use
6	US as a comparative because they treat the common
7	equity ratio differently from the way that we do it
8	in Canada.
9	So, that's just to highlight other
1 0	regulatory decisions. Now, I agree with Dr.
11	Villadsen that it's the job of the expert witness
12	to provide their recommendations, but it is also
1 3	the job of the expert witness to provide some
1 4	insight as to what other Canadian regulators are
1 5	doing at the current point in time, because they're
1 6	looking at the same evidence and coming to the same
17	sort of conclusions. Okay, Nathalie, the next

The other part to the existing decisions is what are the last decisions, and the last decisions in a litigated hearing where there was intervener witnesses and there were company witnesses, was last year in the New Brunswick Utilities Board, Energy and Utilities Board to do with the former Enbridge Gas New Brunswick or Liberty Utilities New

1 Brunswick.

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And their decision, which was made last year based upon last year's information when 3 interest rates were lower than now, but regardless 4 5 that was actually a long term decision, because 6 there wasn't sort of an expectation that in two to 7 three years they'll have another hearing. The 8 previous hearing for Liberty Utilities New 9 Brunswick was ten years ago, so there was every 10 expectation that that would be parameters for a 11 reasonably long period of time. Well, they said... 12 their decision, which I admit, I'll let the Régie know, this under appeal. So, Liberty Utilities 13 doesn't like this decision, so they've appealed it 14 15 but the decision was a risk-free rate of three 16 point zero seven percent (3.07%), a market risk 17 premium of six point two three percent (6.23%), a Beta of point five five (0.55) and so a utility 18 19 risk premium of three point four three percent 20 (3.43%), flotation costs of half a percent (0.5%)21 and a generic ROE of seven percent (7%). And I say there a generic ROE, this is not the ROE for 22 23 Liberty Utilities, this is what they thought a generic utility should be. 24

And as I said, my recommendation for

1	Énergir is a generic rate of return recommendation.
2	I put the risk adjustment in the forty-six percent
3	(46%) equity ratio. The last year, New Brunswick,
4	in a decision that came out late last year, I think
5	it was in December, seven percent (7%) generic, and
6	then they allowed one point five percent (1.5%)
7	specific additional risk premium for Liberty
8	Utilities New Brunswick for an eight point five
9	percent (8.5%) allowed ROE and they allowed them a
10	forty-five percent (45%) common equity ratio. So,
11	they allowed them significantly more common equity
12	than the Alberta Utilities Commission allows, which
13	is thirty-seven percent (37%), but they allowed the
1 4	same ROE of eight point five percent (8.5%).
15	The AUC confirmed its parameters in March
16	of this year, that was sort of a written input, it
17	wasn't an oral hearing. I don't know whether I
18	could describe it as a litigated decision because
19	clearly there was input from a variety of partners,
20	but there wasn't a normal cross-examination you'd
21	expect in a litigated hearing. But they confirmed
22	eight point five percent (8.5%) ROE on thirty-seven
23	percent (37%) common equity versus my generic
2 4	recommendation seven point five percent (7.5%) ROE
25	on thirty-five percent (35%) common equity. So,

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1 next slide please, Nathalie. 2 So, now we talk about business risk and I listened to the cross-examination of Dr. Hopkins. 3 First of all, we have to define risk. Risk, if you 4 5 look in the dictionary, is the probability of 6 incurring harm, so it's a combination of the 7 probability of it happening and the amount of the 8 harm. And in finance, we treat harm as losing 9 money. So, that is what risk is, it's the 10 probability of losing a certain amount of money. 11 Now, the first time I started emphasizing 12 this it was in the Mackenzie Valley Pipeline hearing before the NEB in two thousand and five 13 14 (2005), and that was when they had backstops for 15 the pipelines from all of the major shippers that 16 were less than the economic horizon for the pipeline. So, if I seem to remember correctly, it 17 was sort of something like twenty (20) years of 18 19 fixed contracts and a pipeline had twenty-five (25) years to depreciate. So, there was the problem of 20 21 what do you do with the lack of shippers for the 22 last five years. So, we were talking about data's 23 being the long run risk, which is the long run risk of the return of capital, the recovery of capital. 24

And the short run risk is the return on

1	capital. Now, in that case, it was a fully cost of
2	service pipeline. So, literally there was no short
3	term risk whatsoever. Everything was be recovered
4	by the tolls. And the only risk was long term risk.
5	So that's when I started putting into my business
6	risk assessment, short run versus long run.
7	Short run, this is quantitative. It's the
8	ability to earn the allowed return. The only short
9	term risk if you don't earn a fair returned. So,
10	that is a quantifiable risk. It is not generally
11	assess by external witnesses on behalf of the
12	utility. They would much prefer to talk into
13	qualitative terms rather then look at the actual
14	risk which is failing to earn the allowed ROE.
15	This is not just my assessment, this is
16	also the assessment of the Bond Rating Agencies.
17	Moody's specifically puts twenty-five (25%) of
18	their credit rating on the ability to earn the
19	allowed rate of return. Because it does assess the
20	amount of losses that the utility could be exposed
21	to in the short term. So that is the short term
22	risk and that's the ability to earn the allowed
23	ROE.
2 4	And incidently Moody's also assess is

twenty-five percent (25%) risk as a quality of

1 4

1	regulation. So the fact is, when we look at the
2	risk, from the point of view of the bondholders, at
3	least fifty percent (50%) of that risk is not the
4	business risk, it's the risk of the regulators.
5	It's the risk of the regulators basically suddenly
6	exposing the utility to risk.

And so that's where Canada is traditionally different from the United States. Canadian regulators by in large, do not put their utilities at risk. And that's reflected in their bond ratings. And specifically Moody's has fifty percent (50%) allowance for that.

Long term risk, no question that if supply and demand doesn't exist, then the viability of the commodity that is being transported, that's really a reflection of that long run risk. And that it is where we look at depreciation. If a utility thinks that there's a fundamental shift in the risk of the assets being stranded, we expect the utility to come forward with a depreciation study and say that we will recover that, those assets, over a shorter period of time, to make sure that there's no assets, at the end of the period, when this risk materializes, that they actually get stranded and the utility suffers it.

1	So it's up to the utility to do a
2	depreciation study to assess a stranded asset risk,
3	which is a long run risk. But ultimately, long run
4	risk shows up as short run risk. Ultimately, any of
5	these risks should show up in problems in the
6	utilities earning his allowed rate of return.
7	There's not a risk out there, that's long
8	run risk that never never have to happen, it has to
9	show up, sooner or later, as a short term risk. So
10	next slide please Nathalie.
11	So, what can we say about the history of
12	Gazifère and Énergir earning their allowed ROE. I
13	ask to see every hearing and I've yet to see any
14	utility in Canada significantly filing to earn his
15	allowed ROE. In this case for Énergir, I have the
16	data going back to nineteen ninety (1990) for
17	previous hearings. And when you go back to nineteen
18	ninety (1990), the pink line basically overlap the
19	blue line, which just indicates during that period
20	of time Énergir exactly earned his allowed ROE.
21	Mainly because there was no incentive regulation.
22	The regulators of that time didn't give Énergir or
23	Gaz Métro the opportunity of sort of extra
2 4	earning by being more efficient.

Since then, Énergir has invariably over-

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1	earn his allowed ROE. There's nothing wrong with
2	that. That's what we want to see as long as it
3	means that the cost are also reduced and overall
4	rates are lower. So there's nothing wrong with
5	incentive regulation and giving the utility an
6	incentive to earn a little bit more.

Once before the OEB, one of the Commissioners specifically ask me: Why should we give them an incentive to act efficiently? And I said: Well, you hope that they'll be efficient, but if you give them a little bit of an incentive where they get to keep a little bit of the gains, then that little bit of incentive some how seems to end up generating cost efficiencies. And that's what we seem to see with Énergir.

So, Énergir has no history of filing to earn the allowed ROE.

Gazifère, when I actually was involved in the hearing in two thousand and ten (2010), it was a little bit of a filing to earn the allowed ROE. It was a little bit in a, I can't quite see it with my eyes that are failing, but there's a couple of instances, three of them, where Gazifère didn't earned his allowed ROE. So, I said there's a little bit of risk involved in Gazifère that doesn't exist

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1 in Énergir. But since that hearing in two thousand and ten (2010), Gazifère presumably got their 3 4 forecasting a little bit better. And as a result 5 they were able to recover their forecasting cost in 6 the test years in the rates that they charge 7 customers. And that little bit of forecasting risk 8 that was evident, prior to two thousand and ten 9 (2010) seems to have to disappear. 10 So the experiences, the last time I 11 testified in both of these cases, is the absence, 12 the total absence of risk. And I say that in a deep sense. Neither of these utilities have suffered 13 any losses while they've been earning material risk 14 15 premiums. So, they've been earning a risk premium 16 for baring a risk that, so far, has not materialized. Now, in the future that risk may 17 materialize. But the reason why they haven't 18 19 suffered any risk, is the Régie. Is regulation. It's the fact that they have deferral accounts. The 20 21 fact that they are allowed forward test years. And 22 they can forecast all that costs. And it's the 23 active regulation in Canada that has reduce their 24 business risks.

And there was a case before the Régie when

1	I said that they've been earning their allowed ROE,
2	and one of the questions at the end of the hearing,
3	was a member of the Régie said, words to the
4	effect, I can't remember the exact words, but the
5	words were: "You do realize that they earn their
6	allowed ROE only because we protect them and we
7	provide them with a degree of regulatory
8	protection." And I said: "Absolutely correct." And
9	I think I said absolutely correct.
10	But why they earn their allowed ROE, is
11	because, you, the Régie protect the utility and in
12	that you're no different from the Ontario Energy
13	Board, the Alberta Utilities Commission, the BC
1 4	Utilities Commission. Every single regulator in
15	Canada protects the utility and their over-earn
16	their allowed ROE.
17	So that's not to criticise Énergir, but the
18	question is simply: should they get a risk premium
19	and ask for more equity, when in fact the actions
2 0	of the regulator transfer those risks to the
21	ratepayers? In essence, the ratepayers are baring
22	these risks not the utility shareholders.
23	And this is where I question a lot of the
2 4	discussion of Dr. Villadsen, she talks about risks

and she talked about leverage. I have no doubt

whatsoever that if, you the Régie, allowed Énergir
seventy-five (75 %) debt and twenty-five (25 %)
equity, this over-earning of the allowed ROE would
not change.

In other words there's no magnification of the operating risks of Énergir by the use of debt.

What that is, is compensation for long run possible stranded asset risk and the possibility the product, the fuel, is no longer cost efficient. It is not compensation for short run risk. Right at the moment, and for the last thirty (30) years, the use of debt has not magnified any risk to the shareholders of Gaz Métro or Gazifère or for that matter almost every utility in Canada. Okay. Next slide please, Nathalie.

Which brings us to this long run risk. And as I said, my experience in testifying in Canada has been that the utility, witnesses on behalf of the utilities talk about all these risks, qualitative risks and there's always arguments over, which I've heard this morning about all of these different risks. But you have to ask the question: These risks that have been express by witnesses for the last thirty (30), forty (40) years, so far, they have never materialized. And

1	why is that? It's because of the active regulation.
2	Regulation in Canada is a dynamic process.
3	And I regard as a good example of this, the
4	decision of the Ontario Energy Board, when the
5	utility witness said : Well, there are all these
6	long run risks, the utility is risky. And the OEB
7	slapped them down and said essentially no. They
8	said :
9	Regarding thee risk of future events,
1 0	the Board agrees with CCC that the
11	relevant future risks are those that
12	are likely to affect Enbridge in the
1 3	near term.
1 4	That is basically over the future test years.
1 5	Any risks that may materialize over
1 6	the longer term can be taken into
1 7	account in subsequent proceedings.
18	Which is to say: if any of these future risks
1 9	happen to materialize as they get closer, bring
2 0	them up in a hearing where they can actually see
21	how the affect the utility. And they went on to
22	say:
2 3	In considering the risk of future
2 4	events, the Board will take into
2 5	account the fact that generally, the

1	more distant the potential event, the
2	more speculative is any conclusion on
3	the likelihood that that risk will
4	materialize.
5	And I used that word "speculative", because when
6	you use it in the bond market or the capital
7	markets, it means non-investment grade. It is a
8	damaging word, when we talk about speculative
9	risks, when we look at an investment.
10	So what the OEB is saying : essentially the
11	risk raised by the utility witness in this business
12	risk hearing before the OEB, they brought up a lot
13	of risks that the OEB said were speculative. We
14	need to wait until they actually sort of come
15	closer and we can get a handle on them and how we
16	are going to deal with them.
17	So I regard the essence of the OEB
18	decision : don't pay too much attention to long run
19	risks as we will deal with them, when they arise.
20	That's what has happened, all the time in
21	regulatory decisions in Canada. The regulators deal
22	with these things as they actually crop up and they
23	may affect the utility. And generally, those risks
2 4	are transferred to the ratepayers. Next slide,
25	please, Nathalie.

1	Now, this did come up before the National
2	Energy Board. The gas that is used by Énergir may
3	come from Western Canada, where it actually comes
4	from is difficult to determine, because they are
5	just joules of energy, they are just bits of gas,
6	but it traditionally came from Western Canada and
7	starting in two thousand and one (2001), we started
8	getting competition from Marcellus and gas from
9	Pennsylvania. Closer gas fields that basically go
10	through Dawn which has become a major hub.
11	And we started worrying about the
12	TransCanada mainlines where the sum of that
13	pipeline is basically stranded, because
14	TransCanada's forecast was essentially that his
15	load was going down and when we looked to this, in
16	a major hearing in two thousand and one (2001), the
17	question was: what about depreciation? How should
18	we depreciate the mainline and the NEB decision was
19	exactly this:
20	The Board views the issues of cost of
21	capital and depreciation as being
22	related, but as addressing different
23	factors. The primary goal of the
2 4	depreciation rate is to reflect the
25	assessment of the economic life of an

1	asset. Business risk, which is a key
2	determinant of cost of capital,
3	addresses the probability that the
4	utility may not be able to recover its
5	prudently incurred costs over the
6	economic life of the asset, whatever
7	that economic life may be.
8	So what the NEB did, was shortening the economic
9	life. It basically used a twenty-five (25) year
10	life for the mainline gas transmission assets and
11	given the increase in business risk, it started
12	increasing the common equity ratio. Initially, it
13	was thirty percent (30 %) set in nineteen ninety-
14	four (1994), they then increased it to thirty-three
15	percent (33 %). A hearing after this increased it
16	to thirty-six percent (36 $\%$) and the last time in
17	two thousand eleven (2011), they increased it to
18	forty percent (40 %).
19	So they increased the common equity ratio
20	reflecting the business risk and they shortened the
21	depreciation period, to reduce the stranded assets
22	risk, that all those pipe assets way out in the
23	future may not be used and useful and may not be
2 4	able to be recovered in rate base.
25	So why is that important? Next slide,

please, Nathalie. Why it's important, is that the
gas that Énergir gets, the NEB thinks it comes from
Western Canada. In the TQM hearing I said: Well it
could be coming from Dawn, lots of the contracts
are signed at Dawn, but the NEB decided that was
just Western Canada gas coming through the United
States, rather than the northern Ontario line and
then coming through Dawn and contracting the Dawn
was basically still contracting for Western Canada
gas.

As I said, we can't tell the difference between a megajoule or whatever of gas from Western Canada versus Marcellus, it's all system gas. But the fact is that Énergir's gas comes from TQM.

So, if there is a real serious risk of stranded assets, and you are not going to use the gas in Québec, then you would think that Gazoduc or TQM would look at that and say: Well, if there is nobody taken our gas, we won't be shipping gas to Énergir, in which case, they should be thinking in terms of the stranded assets of TQM (Gazoduc) and then should be shortening their depreciation study.

Well, surprise, surprise, in the settlement, just a few months ago, TQM (Gazoduc) did not change its economic useful life for

1	shipping gas to Québec. And in the depreciation
2	study for TQM, Concentric on behalf of TQM said :
3	We developed the depreciation rate utilizing the
4	economic planning horizon, which is how long is
5	these assets going be used and useful. And the
6	dates were two thousand and fifty (2050) and two
7	thousand and forty (2040) for Québec and East
8	Hereford, segments of TQM.
9	The service life of each of the
10	geographic segments are distinct as
11	contract terms, flow volumes and
12	market dynamics are sufficiently
13	different as to warrant separate
1 4	segments with different economic
15	planning horizons.
16	What they are saying there: there's simply not
17	enough long term contracts to make sure that the
18	East Hereford branch of TQM will have enough gas.
19	So they are using a shorter economic planning
20	horizon for the East Hereford branch then they are
21	for the branch serving Québec.
22	TQM previous depreciation study completed
23	in two thousand nine (2009) also segmented the
2 4	Québec and East Hereford lines using twenty fifty
25	(2050) and twenty twenty-three (2023) economic

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1	ртанити	a	respectively.

Concentric continues to recommend the calculation of depreciation rates based on these two distinct geographic segments, with an expanded economic planning horizon for the East Hereford segment relative to previous depreciation studies.

So what Concentric is saying is: Compared

to two thousand and nine (2009), there is more gas flowing on TQM but it is flowing down the East Hereford branch. And as a result, they have increase the economic life of the East Hereford segment going into New England, and it kept the same planning horizon for the segment going into... to Ouébec.

So, from that, if there is no risk of stranded asset for Gazoduc or TQM, it is difficult to see, that the pipelines serving Énergir, is any different in risk from Énergir?

So from this, at least as a prima facie evidence, in fact there is not underlined stranded asset risk for the asset serving Énergir and the delivery of gas into Énergir in Québec. Okay. Next slide, please, Nathalie.

Now finally, we might talk about short run versus long run risk, we might talk about return on

1	capital versus return of capital, the bond rating
2	agencies are only concerned about return of
3	capital. There only concern about the bonds that
4	have been issued by Énergir, are they getting paid
5	back those long term bonds?
6	So, if you want an assessment of long term
7	risk, you look at the bonds rating because they are
8	looking at the risk of the bond, long term bonds
9	getting paid back and when you look at the long
10	term bond assessment, S&P is very clear. In fact,
11	it can't be clearer. Their assessment of the
12	business risk of Énergir is excellent.
13	Now, how do you rate excellent? Well, there
14	is nothing better than excellent. So from S&P's
15	assessment, a vulnerable is at the bottom, then
16	weak, then fair, then satisfactory, then strong,
17	then excellent. There's nothing better than
18	excellent.
19	So, in terms of the business risk
20	assessment of Énergir, the ability to recover those
21	long term bonds, they've assigned the highest
22	possible business risk assessment, and this
23	assessment comes from the result of site visits,
2 4	talking to Énergir. The way which you set bond
25	ratings I don't know whether they had physical

1	site visits because this is COVID-19 but
2	normally there's a site visit, they get a
3	presentation from the company, they go away and
4	write their report, they return it to the company
5	to check for any obvious errors and then they
6	publish their report.
7	So, you've got to look at this and say
8	well, this is S&P assessment based upon discussions
9	with Énergir, and that is the highest possible
10	assessment.
11	In terms of all the risks raise by the
12	company, these risks have been there for a
13	significant period of time and S&P assessment, and
1 4	I'll read it in because this is their assessment as
15	it applies to long term bonds issued by Énergir.
16	We view Énergir's exposure to
17	environmental, social, and
18	governance-related risks as similar to
19	the broader industry. The company is
20	primarily a gas distributor but also
21	owns an electric regulated
22	transmission and distribution network.
23	The natural gas network operators,
2 4	environmental risks include gas leaks,
25	explosions, emission of greenhouse

1	gases which can affect biodiversity.
2	We believe Énergir's environmental
3	risk is consistent with the broader
4	industry because the company's gas
5	network is fairly new and does not
6	contain cast iron or bare steel pipes
7	which reduces the potential of gas
8	leaks and explosions. In addition, the
9	company also participates in the
10	Quebec's cap-and-trade system, to
11	offset its GHG footprint in its gas
12	distribution operations.
13	That may have changed over the last year, but that
1 4	was S&P assessment after discussing business risk
15	with Énergir. And I don't see a lot of the risks
16	raised by the company witnesses being reflected in
17	the bond risk assessment by either Standard &
18	Poor's or the Dominion Bond Rating assessment. Now,
19	final slide next slide please, Nathalie.
20	So, what's the conclusion from this?
21	Capital structure and business risk. As yet I see
22	no change in Énergir's business risk. And I say "as
23	yet" because the company has not filed any
2 4	documentation to indicate how these long term risks
2 5	affect his ability to earn his allowed ROE. Now,

1	normally, I would've expected as I see in other
2	hearings, forecasting models, which is to say they
3	forecast industrial gas use, they forecast
4	residential use, and those forecasting equation
5	allow you to do sensitivity analysis.

Suppose that there's an increase ten percent (10%) in the price of natural gas because of more greenhouse gas charges, how does that affect residential and industrial use? That is the information we need to assess the business risk of Énergir. I would assume that they've got that information, but it is not available in this hearing, and I heard a lot of things this morning and I was just dying to say: where is that only... on the regulate, where's that file in this hearing? So, the Régie could make a decision based upon the information filed in this hearing. I don't see a lot of this stuff filed in this hearing.

They were not available to me to assess the business risk and I don't think they're available to other people. As I said, when I look at this, I normally recommend thirty-five percent (35%) common equity for an electric or gas distributor. Is that arbitrarily low? Not really. The Alberta Utility Commission assigns a thirty-seven percent (37%),

1	the BCUC assigns thirty-eight percent (38%) for
2	Fortis Energy BC which is slightly higher risk than
3	ATCO Gas. So, I don't regard that as being
4	excessive, I think that reflects the fact that ATCO
5	Gas is more competitive in Alberta than Fortis
6	Energy BC is in BC.
7	Gazifère is a bit of a common drum. As far
8	as I can see, it's fully integrated in Enbridge
9	Gas. It's legal entity is separate, but the senior
10	management that manages Enbridge Gas also manages
11	Gazifère. As far as I can see it manages an
12	integrated utility. So, that may not be the legal
13	situation and I fully appreciate that the Régie has
14	to regulate the legal institution but for the
15	border between Ontario and Quebec, it would be part
16	of Enbridge Gas, it would be completely integrated
17	with Enbridge Gas.
18	My recommendations, thirty eight point five
19	(38.5%) common equity and seven point five percent
20	(7.5%) deemed preferred shares. If it works, why
21	mess with it? And as far as I'm concerned, that
22	adjust for Énergir's higher business risk.
23	Forty-six percent (46%) equity compared to
2 4	thirty-five percent (35%) is a big boost in the
25	equity.

1 Forty percent (40%) for Gazifère accounts 2 for its small size, AltaGas is allowed thirty-nine percent (39%) and is half Gazifère's size and not 3 only is it half Gazifère's size, it's over a wide 4 5 area in Alberta versus Gazifère which is a 6 relatively small area in Quebec. So, it's slightly 7 different from... from AltaGas, but that's my recommendation for the equity ratios which flow 8 9 from the business risk. Me PAULE HAMELIN : 10 11 So, I think that would be a good place to stop. 12 R. I feel it's a good... a good time to stop and I see 13 Mr. Ouellet smiling, so I think he thinks this is a good time to stop as well. 1 4 15 LE PRÉSIDENT : 16 I second the motion.

Me PATRICK OUELLET : 17

18 I third the motion.

LE PRÉSIDENT : 19

20 Mais avant de terminer, Maître Hamelin, avez-vous

21 jeté un petit coup d'oeil sur l'engagement 3?

Me PAULE HAMELIN : 22

23 Oui, tout à fait. Alors, l'engagement convient, on

24 n'aura pas de questions.

2.5

1 LE PRÉSIDENT :

- 2 Parfait. Merci beaucoup. Alors, merci beaucoup à
- tous et on se revoit lundi matin à neuf heures 3
- (9 h). Pardon? 4
- 5 Me PAULE HAMELIN :
- 6 Maybe we can verify this directly with Dr. Booth
- 7 because I think that there was a misunderstanding
- 8 as to his unavailability, I think the
- 9 unavailability was with Tuesday and Thursday
- because he teaches. 10
- 11 So, Dr. Booth can you confirm that you are
- 12 available Monday as of nine o'clock (9:00)?
- R. Yes. I get up at five thirty (5:30) on Tuesday and 13
- Thursday, walk across campus and I have to teach at 14
- 15 seven o'clock (7:00) in the morning, so I'm done by
- 16 nine o'clock (9:00). And when I say done, I'm
- literally done, I'm tired and I drive myself back 17
- to my office, so if you give me half an hour or an 18
- 19 hour or so, I can refresh myself with a cup of
- 20 coffee by ten o'clock (10:00) on Tuesday, but I'd
- 21 love to be able to be on the stand on Monday rather
- 22 than continuing on Tuesday after... after teaching.
- 23 LE PRÉSIDENT :
- Okay. So... 24

17 Riopel Gagnon Larose & Associés.

1	Me PAULE HAMELIN :
2	I understand from that that we could start on our
3	side at nine o'clock (9:00) if it works with the
4	Régie?
5	LE PRÉSIDENT :
6	Oui. Parfait. Alors, ça fonctionne pour lundi à
7	neuf heures (9 h). Merci beaucoup.
8	Me PAULE HAMELIN :
9	So, Dr. Booth, it will be Monday nine o'clock
10	(9:00) that we continue.
11	R. Okay. Very good. Thank you.
12	Me PAULE HAMELIN:
13	Thank you.
14	AJOURNEMENT DE L'AUDIENCE
15	
16	