



“When You Talk - We Listen!”



MANITOBA PUBLIC UTILITIES BOARD

re:

MANITOBA HYDRO

2023/24 and 2024/25

GENERAL RATE APPLICATION

Hearing

Before Board Panel:

Robert Gabor, KC - Board Chairperson

Marilyn Kapitany - Board Vice Chair

Carol Bellringer - Board Member

Hamath Sy - Board Member

George Bass, KC - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

May 16th, 2023

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Odette Fernandes )  
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1 --- Upon commencing at 9:04 a.m.

2

3 THE CHAIRPERSON: Good morning,  
4 everyone. We're going to have presentations this  
5 morning. It's interesting because I'm so used to  
6 seeing everybody sitting there and everybody sitting  
7 here.

8 So we'll have presentations today.  
9 We're going to start -- I have on my -- my notes a  
10 daily overview by Board counsel.

11 Mr. Peters, is there a daily overview,  
12 or are you going to tell us that we're doing  
13 presentations this morning?

14 MR. BOB PETERS: The daily overview's  
15 been provided by Ms. McMillin and Ms. Schubert. It's  
16 before everybody today.

17 We -- the Public Utilities Board  
18 welcomes the opportunity for members of the public to  
19 come before the Board and to provide presentations  
20 with respect to the matters that are before the Board.  
21 And this morning, the Board has set aside times to  
22 allow that to happen, and it's a relatively full  
23 schedule.

24 I can say that there are some virtual  
25 presentations as well as some in-person presentations,

1 and I think they're going to flow relatively  
2 unannounced and in accordance with the schedule.

3 I will indicate that we have estimated  
4 some times in there only to allow the Board some time  
5 if there are questions that they have of the  
6 presenter.

7 And with that, I think we'll invite the  
8 first presenter, Ms. Amanda Leighton who is before you  
9 when you're ready, sir.

10 THE CHAIRPERSON: Okay. Thank you.  
11 Let me just make a few comments. We're very happy to  
12 have these presentations. What we will do is we will  
13 -- because we are taking this as evidence, we will  
14 have the witnesses sworn in or they can declare. The  
15 secretary will swear each of the witnesses in.

16 The -- we're asking that each party or  
17 person take approximately ten (10) minutes for the  
18 presentation, and we'll have five (5) minutes for  
19 questions. And we -- we'd like to roll through these,  
20 and I'll try and enforce the -- the time limits.

21 But we do want this as -- as evidence  
22 before the panel. So, Ms. McMillin, if you could  
23 swear in the first witness.

24

25 PUBLIC PRESENTATIONS

1

2

AMANDA LEIGHTON, Affirmed

3

4

THE CHAIRPERSON: Please proceed.

5

6

PRESENTATION BY MS. AMANDA LEIGHTON:

7

MS. AMANDA LEIGHTON: Good morning,

8

everyone, Panel members, Manitoba Hydro

9

representatives, Interveners, and the public. Thank

10

you so much for allowing me to present today.

11

I understand that the process of

12

hearing the public is not standard across our country,

13

so I see it as a privilege and a responsibility.

14

My name is Amanda Leighton, and I'm

15

here representing both myself as a Hydro consumer and

16

the Interfaith Council on Hydropower of which I am a

17

member.

18

The Interfaith Council on Hydropower is

19

a non-partisan advocacy group with a fifty (50) year

20

history working for justice with hydro-impacted

21

communities and people.

22

A major motivator for our council is

23

the PUB's consideration of all Manitobans which was

24

made apparent when you created the First Nations on-

25

reserve rate class, no longer in place following the



1 Court of Appeal's decision in 2020.

2           At the time, the PUB's initiative was a  
3 signal to us that you recognized the real need to find  
4 ways to mitigate hydro costs for First Nations Hydro  
5 consum -- customers and, in our view, recognize and  
6 reconcile the long-standing and dirty history between  
7 the Manitoba Government, Manitoba Hydro, and the  
8 communities living in and around hydro-generating  
9 stations and projects.

10           By way of mutual understanding during  
11 this presentation, when I use the term 'hydro-impacted  
12 areas', I am referring to communities and territories  
13 that have been devastated environmentally, culturally,  
14 economically, and spiritually by hydro development.

15           This industry causes an endless list of  
16 damage including poor water quality, unnaturally  
17 fluctuating water levels causing massive shoreline  
18 erosion.

19           As we speak, Norway House First Nation  
20 has been imploring Manitoba Hydro to assist with  
21 massive erosion on the two (2) and eight (8) mile  
22 channel. Other damage includes death and decay of  
23 wildlife and habitat, destruction of fisheries, trap  
24 lines, and livelihoods, and loss of traditional ways  
25 of life, food, and land. This list goes on.

1                   The matter at hand is the impact of  
2 Manitoba Hydro's proposed rate increase of two (2)  
3 consecutive 2 percent rate increases this September  
4 and in April of next year on Northern communities,  
5 specifically those who live in hydro impacted areas.

6                   That 2 percent being an overall  
7 increase, I understand it is being proposed by  
8 Manitoba Hydro that the -- the allocation of this  
9 increase is not across the board. Rather residential  
10 customers will see a 2.4 percent increase while  
11 industrial class customers would see something like  
12 1.5 percent.

13                   This 2.4 percent times two (2) coupled  
14 with the 3.6 interim rate increase already implemented  
15 at the beginning of January 2022 amounts to an overall  
16 increase of over 8.4 percent within a twenty-seven  
17 (27) month period.

18                   The rationale to increase the  
19 residential rate more than the industrial rate is  
20 based on a mechanistic approach that boils down to  
21 infrastructure needs.

22                   We understand how Manitoba Hydro might  
23 have come to this conclusion. And perhaps it is even  
24 a recognition that increased hydro rates will damage  
25 the industries that are reliant on massive amounts of

1 power and could be a deterrent to new industry finding  
2 a home in Manitoba. But we feel that the financial  
3 burden of rate increases should be shared by all  
4 customer classes. We all rely on electricity.

5           As you are aware, the repeal of the  
6 First Nations on reserve hydro rate resulted in a 9  
7 percent increase in September of that year for all  
8 First Nations on reserve customers.

9           A report submitted to you in 2019 on  
10 behalf of the Assembly of Manitoba Chiefs titled,  
11 "Energy poverty on First Nation reserves" -- for your  
12 reference, that is Exhibit AMC-3 from the 2019/2020  
13 Electric Rate Application -- which states that:

14                   "Average annual energy consumption  
15                   is considerably higher on First  
16                   Nations on reserve residences both  
17                   in absolute terms and per unit floor  
18                   space.

19                   First Nation on reserve values are  
20                   roughly three (3) times the average  
21                   Winnipeg city values and 35 to 55  
22                   percent higher than the Winnipeg  
23                   city low-income cutoff values."

24           This report also notes that the yearly  
25 average electricity bill in First Nations on reserve

1 households is two thousand eight hundred and fifty-  
2 five dollars (\$2,855), which is 59 percent higher than  
3 Winnipeg city low-income cutoff households and 82  
4 percent higher than the average bill for all Winnipeg  
5 city households.

6                   If this rate is accepted as it is, the  
7 hydro bill of a First Nation on reserve household  
8 would climb dramatically, an already difficult bill  
9 adding debt and insult to Hydro customers in the  
10 North.

11                   On the other hand, from what we  
12 understand, Manitoba Hydro is fairing well these days.  
13 In 2022/2023, Manitoba Hydro's net income was  
14 approximately 750 million with projected net income to  
15 have significant surpluses in the coming years.

16                   We also understand that Manitoba  
17 Hydro's projected net debt will continue to be reduced  
18 by the end of '24/'25.

19                   Additionally, the Provincial Government  
20 gave Manitoba Hydro a break when they chose to reduce  
21 water rental fees and debt guarantee fees which, in  
22 our opinion, can only lead to more net income.

23                   But where is the break for the  
24 customer? Where is the recognition that hydro  
25 impacted communities have paid enough? We are not

1 here to convince you of anything. You have more  
2 information before you than I would ever have the time  
3 to engage with. This is your job.

4                   We are here to remind you that you have  
5 protected Manitobans from higher than necessary hydro  
6 rates before, and we trust that you will do it again.  
7 You have the unique position to keep this publically-  
8 owned Crown corporation in check. And we believe that  
9 you can:

10                   "Fairly and transparently weigh the  
11 financial needs of the Utility with  
12 the needs of the ratepayers."

13                   I run a Timbit soccer league for kids  
14 aged 4 to 12. It's my first year. We had the  
15 opportunity to raise our registration fee this year.  
16 It hadn't been raised in a long time. People won't be  
17 surprised considering inflation. Everything's going  
18 up. But we chose not to because we knew we could make  
19 due without extra income.

20                   I feel very confident that Manitoba  
21 Hydro can more than make due without more money from  
22 the -- from the consumers' pockets and certainly  
23 should not be looking for it in the pockets of those  
24 who have endured Manitoba Hydro's over fifty (50) year  
25 legacy of disregard for hydro impacted communities.

1 Thank you.

2 THE CHAIRPERSON: Thank you, Ms.  
3 Leighton. I'll ask the panel. Ms. Kapitany...?

4 VICE CHAIR KAPITANY: Thank you for  
5 your presentation. I just have a couple questions.

6 Could -- could you tell me -- and I  
7 apologize if you said it and I missed it, but could  
8 you tell me about how many people your organization  
9 represents?

10 MS. AMANDA LEIGHTON: Well, over the  
11 time that we've existed, it would be just a variety of  
12 communities up north. So right now, we have  
13 relationships with Southern Indian Lake, Tataskweyak  
14 Cree Nation, Norway House Cree Nation.

15 This summer, we're hosting a kokum's  
16 gathering, which will gather grandmothers from a  
17 variety of -- of communities.

18 So I'm not sure that I have a number  
19 for you exactly, but I hope that's a good enough  
20 answer.

21 VICE CHAIR KAPITANY: So it's not  
22 members of the council per se, it's just organizations  
23 that you work with then?

24 MS. AMANDA LEIGHTON: Well, on our  
25 council, we have about ten (10) members. Yeah. Is

1 that -- that was the answer you were looking for?

2 VICE CHAIR KAPITANY: Both, yeah.

3 Like, the number of people and about how many people  
4 in the council.

5 The other thing I was wondering is what  
6 kind of relationship your council would have with  
7 Efficiency Manitoba in terms of looking for ways that  
8 you might be able to reduce your energy costs?

9 MS. AMANDA LEIGHTON: On northern  
10 communities, you're saying?

11 Well, we don't have a history of having  
12 a relationship with Efficiency Manitoba.

13 VICE CHAIR KAPITANY: Okay. Thank  
14 you.

15

16 (BRIEF PAUSE)

17

18 BOARD MEMBER BELLRINGER: Do you have  
19 to announce me or anything?

20 THE CHAIRPERSON: I'm announcing Ms.  
21 Bellringer.

22 BOARD MEMBER BELLRINGER: Sorry, it's  
23 early still for us, I guess.

24 And thank you very much for the  
25 presentation. And as you know, you know, we've --

1 we've looked at -- at the northern communities before.  
2 But it's my first time on the Board, so I'm actually  
3 wondering if you could -- and you did include this in  
4 your presentation, but I just want to make sure I got  
5 it -- got it straight.

6                   And it was around the -- I heard two-  
7 thousand-eight-hundred-and-fifty-five (2,855) on  
8 average. What was that on? That was per --

9                   MS. AMANDA LEIGHTON: That was the  
10 yearly average electricity bill rate -- or sorry, just  
11 bill on First Nations on reserve. And that would have  
12 been from 2019, before the 9 percent increase that  
13 came after the repeal.

14                   BOARD MEMBER BELLRINGER: So those are  
15 figures for 2019?

16                   MS. AMANDA LEIGHTON: Yes.

17                   BOARD MEMBER BELLRINGER: That's okay.  
18 And also, you compared that to other -- to Winnipeg  
19 and low income.

20                   Can you go -- can you just run through  
21 that one more time?

22                   MS. AMANDA LEIGHTON: Sure. So those  
23 numbers are coming from the report submitted to you in  
24 2019 on behalf of the Assembly of Manitoba Chiefs. So  
25 you could find that information there.



1                   But what I said was that -- so the  
2 yearly average electricity bill in First Nations on  
3 reserve households is two-thousand-eight-hundred-and-  
4 fifty-five (2,855). That was 2019 which is 59 percent  
5 higher than Winnipeg city low income cutoffs and 82  
6 percent higher than the average bill for the Winnipeg  
7 city households.

8                   THE CHAIRPERSON:   Ms. Leighton, I have  
9 a question for you.

10                   Has the Interfaith Council ever met  
11 with Manitoba Hydro to express concerns?

12                   MS. AMANDA LEIGHTON:   In the past,  
13 yes. But it has been several years.

14                   THE CHAIRPERSON:   Thank you. Sorry, do  
15 you have a question, Mr. Sy?

16                   BOARD MEMBER SY:   Yes, Amanda. Thank  
17 you again for -- for your presentation. And thanks  
18 for sharing those numbers with -- with us.

19                   Maybe you can -- you can just help me  
20 understand. I'm new to the Board as well.

21                   What would you say the overall impact  
22 is going to be for Manitoba Hydro if they were to go  
23 with zero (0) increase?

24                   MS. AMANDA LEIGHTON:   The impact on  
25 Manitoba Hydro?

1 BOARD MEMBER SY: Yeah. From you,  
2 from your community.

3 Or another way, the 2 percent increase,  
4 how much in dollar term are we talking about?

5 MS. AMANDA LEIGHTON: Well, I don't  
6 have that math in front of me so I'm not going to try  
7 to do that live.

8 I mean, I -- I understand that the bill  
9 is already terribly high for northern communities.  
10 This is likely due to housing issues and so I -- I  
11 don't -- I don't really feel like I can answer this  
12 question without doing a little bit of work  
13 beforehand.

14 So, if there's a way for me to submit  
15 an answer like that, I'd be happy to do that at a  
16 later time. Is that okay? Is that welcome? Or is  
17 this kind of it?

18 THE CHAIRPERSON: You can -- sorry,  
19 you can always submit after the fact.

20 MS. AMANDA LEIGHTON: Okay.

21 THE CHAIRPERSON: Okay. Any of the  
22 Interveners have a question for the witness? Not Ms.  
23 Leighton. Don't think --

24 MS. AMANDA LEIGHTON: Okay.

25 THE CHAIRPERSON: Okay. Thank you,

1 very much, Ms. Leighton. The next person is Mr.  
2 Brandon.

3 Mr. Brandon, you're on-line? I think  
4 you're muted.

5 MR. JOSH BRANDON (by Teams): Hi  
6 there. Thank you so much. My name's Josh Brandon,  
7 I'm with the Social Planning Council of Winnipeg. I'm  
8 a community animator there.

9 And I just have a few comments today to  
10 express concern about the high rates of -- of the  
11 increases proposed in the Manitoba Hydro Rate  
12 Application.

13 Here in Manitoba, we have some of the  
14 highest rates of child poverty. We have the highest  
15 rates of any province of child poverty across Canada.  
16 And for families that are living in poverty, energy  
17 costs are -- are a major stress. They add to the  
18 financial burden of families that are already  
19 struggling.

20 And so, what we found at the Social  
21 Planning Council is that because of the high rates of  
22 child poverty and poverty generally across the --  
23 across the province, but particularly with child  
24 poverty, there are negative social impacts. There are  
25 negative health impacts and reduced social inclusion

1 for families who are suffering from low incomes.

2           We are concerned that, in particular,  
3 we did -- we did a research project just last year  
4 through a project called Campaign 2000. And there we  
5 found over one (1) in five (5) Manitoba children are  
6 living in poverty.

7           And we know that for families that are  
8 living in poverty there are much higher rates of -- of  
9 energy poverty. And that's families that are paying a  
10 high portion of their -- of their total income towards  
11 their energy costs.

12           One of the things that we found in our  
13 Campaign 2000 report, is that there are severe  
14 negative impacts on human health. So, for example, as  
15 a result of poverty, so families that are living in --  
16 in low income households, are more likely to have  
17 higher rates of child mortality.

18           Tragically, we've also found higher  
19 rates of childhood diseases, including diabetes,  
20 dental extraction, which is associated with poverty  
21 and -- and most tragically we found higher rates of  
22 child suicide as a result of poverty.

23           And these are -- these are conditions  
24 that -- that we see across the province and we know  
25 that for families that are living in low income,

1 they're much more likely to be paying more than 6  
2 percent of their income into -- for their energy  
3 costs. And when we see the increases that are being  
4 proposed here, that's going to add to that burden even  
5 more substantially.

6 One of the things that we've proposed  
7 in past hearings, and in past engagements with  
8 Manitoba Hydro, is to look at a -- a low income rate  
9 for families that are -- that are living in poverty.

10 And I -- I hope that's something that  
11 comes back into consideration, because I think when --  
12 when we talk about four (4) or 5 percent increases on  
13 an annual basis to energy rates, that's going to have  
14 a -- a large impact for all families and for all  
15 households, you know, most of us are not seeing our  
16 incomes going up by -- by that amount every year.

17 But, for families that are living in  
18 poverty, what it means is making critical decisions  
19 around what they can afford, whether they can afford  
20 food, whether they can afford to pay their rent, or  
21 whether they can pay their -- their hydro bills.

22 And, so, we need to examine if there  
23 are opportunities available to create better  
24 subsidies, either through the Hydro system or -- or  
25 with assistance with governments and other agencies,

1 to make sure that there is affordable hydro for  
2 everyone.

3 I know that that is part of the mandate  
4 of Manitoba Hydro is to -- is to provide affordable  
5 electricity for everyone and, even if electricity  
6 rates here in Manitoba are relatively low compared to  
7 other provinces, we do know that it does provide a --  
8 a burden for the families that are most in need.

9 And, so, those are the rec -- the --  
10 the recommendations that we have is to reduce the --  
11 the rate for residential customers and to consider a  
12 low income fund for -- for low income customers, and -  
13 - and that's all the comments that I have for -- for  
14 today. So, thanks so much for the opportunity to  
15 present.

16 THE CHAIRPERSON: Thank you. Am I  
17 correct it's Ms. Wall. Okay. You're -- you're muted  
18 as well.

19 MS. BAILEY WALL (by TEAMS): Yes.

20 THE CHAIRPERSON: I -- I -- I forgot  
21 and Ms. McMillin, can you swear them both in?

22 MS. BAILEY WALL (by TEAMS): Pardon  
23 me. Did you ask a question?

24 THE CHAIRPERSON: Sorry. We -- we  
25 need to swear you in as presenters, so that we can

1 consider your --

2 MS. BAILEY WALL (by TEAMS): Oh. I'm  
3 so sorry about that.

4 THE CHAIRPERSON: -- your  
5 presentations as evidence.

6 MS. BAILEY WALL (by TEAMS): I thought  
7 I was just supposed to just start to presenting.

8 THE CHAIRPERSON: And that was a  
9 mistake on my part --

10 MS. RACHEL MCMILLIN: Okay. So, I'll  
11 do you both now.

12 THE CHAIRPERSON: -- notwithstanding  
13 you're virtually rather than in the room but that's  
14 the process.

15

16 JOSH BRANDON, Affirmed

17 BAILEY WALL, Affirmed

18

19 THE CHAIRPERSON: I'm wondering if we  
20 can do this as a tag team. So, maybe, what we'll do,  
21 Ms. Wall, is we'll have your -- we'll have you do your  
22 presentation and, then, we'll ask questions of -- of  
23 the two (2) of you, because I suspect that may be some  
24 overlap in the questions. Okay?

25 MS. BAILEY WALL (by TEAMS): Okay. I

1 do have a presentation to share but I -- it doesn't  
2 look like I have sharing capabilities at the moment.

3

4 (BRIEF PAUSE)

5

6 THE CHAIRPERSON: Okay. Now, if  
7 you've got a -- a -- if you could try and I -- I think  
8 it's longer, sort of summarize it in about 10 minutes  
9 or hit the high points in 10 minutes and, then, we  
10 need some time to ask questions.

11 MS. BAILEY WALL (by TEAMS): Of  
12 course. It is -- I timed. I'm about nine (9)  
13 minutes. There are multiple slides by the way it just  
14 like progresses through.

15 THE CHAIRPERSON: Okay.

16 MS. BAILEY WALL (by TEAMS): So, I  
17 will get going, so I don't keep you too long.

18 So, my name is Bailey Wall. I am the  
19 Program Co-ordinator for the Rent Relief Fund, a  
20 program of the Manitoba Non-Profit Housing  
21 Association.

22 So, what I will do today is give you an  
23 overview of what the Manitoba Non-Profit Housing  
24 Association is, what the Rent Relief Fund does, so  
25 that you have some context from where I'm giving you



1 this information from, and then go through some of the  
2 data and case studies from our participants.

3                   So the Manitoba Non-Profit Housing  
4 Association is a member-based organization. We have a  
5 hundred (100) non-profit housing providers as members  
6 that offer twenty-four thousand (24,000) affordable  
7 homes in Manitoba.

8                   The Association offers housing  
9 supports, educational tools, resources, and advocacy  
10 for our members. Next slide, please.

11                   In April 2021, the Manitoba Non-Profit  
12 Housing Association partnered with SEED Winnipeg and  
13 Manitoba Housing to establish the fund. Next slide,  
14 please.

15                   What this means, essentially, is that  
16 the Rent Reli -- Relief Fund is a rent bank model.  
17 So, the Province of Manitoba provided \$5.6 million to  
18 this fund for us to provide interest free loans to  
19 tenants in Manitoba to secure, stabilize, and maintain  
20 housing. Next slide, please.

21                   The things that we cover are rent  
22 arrears. Next. Damage deposits and first month's  
23 rent and utility arrears, which is why I'm here to  
24 speak to you today.

25                   The first thing that I would like to

1 address is that we have a maximum household income  
2 threshold and that is for households without  
3 dependents is sixty-three thousand four hundred and  
4 fifty (63,450). And households with dependents is  
5 eighty-four thousand six hundred (84,600).

6 So, we're not dealing with just low-  
7 income households. We deal with the moderate to low-  
8 income household threshold for our participants. Next  
9 slide.

10 The next thing that I would like to  
11 address is that the Rent Relief Fund has a very good  
12 working relationship with Manitoba Hydro. Our case  
13 workers are in contact with Manitoba Hydro nearly  
14 every day, and we do this to negotiate affordable  
15 payment arrangements for our participants, find out if  
16 there are other resources available to them, and just  
17 to determine whether our loan will actually stabilize  
18 their services.

19 And we value this relationship a lot  
20 because it benefits our participants, makes our job  
21 easier by helping them find the best solution for  
22 them, and we appreciate that we have that  
23 relationship. Next slide.

24 So, in 2022, we received nine hundred  
25 and fifty-two (952) utility applications towards

1 utility arrears. Out of a total of two thousand eight  
2 hundred and seventy-three (2,873) total applications.

3                   This results in approximately 33  
4 percent of our applications being towards utility  
5 arrears. And I want to acknowledge a couple things  
6 with this data. First is that the number of loan  
7 applications that are towards utility arrears is  
8 actually probably higher -- not probably, it is higher  
9 than 30 percent -- or 33 percent.

10                   And that's because when you apply for a  
11 program you have to identify either rent arrears or  
12 utility arrears or utility arrears, not -- you can't  
13 identify both at this point. And when our caseworkers  
14 get involved with people that apply for rent arrears,  
15 we often find that they're often struggling to keep up  
16 with utilities, or they do already have utility  
17 arrears, so it ends up being a double situation once  
18 we dive into their situation.

19                   And that is a common scenario, as Josh  
20 mentioned previously, is that people often make a  
21 trade-off between paying for their rent so that they  
22 can pay their utilities, or paying their utilities so  
23 that they can pay their rent. This is a scenario we  
24 come across often.

25                   The second thing with that 33 percent

1 is that that number does include water arrears  
2 because, again, it just identifies utilities in our  
3 application. However, we do know that the majority of  
4 those applications are towards Hydro arrears and that  
5 can be demonstrated by looking at the numbers that  
6 we've actually approved, because then we can break  
7 them up.

8                   So, in 2022 we approved a hundred and  
9 twenty-six (126) loans towards Hydro arrears, for a  
10 dollar value of one hundred and thirty thousand forty-  
11 nine and twenty-one cents (\$130,049.21). In  
12 comparison to only approving thirty-eight (38) towards  
13 water arrears.

14                   And so, again, I want to acknowledge a  
15 little bit of a difference in this data here where we  
16 had such a high number of applications and a lot lower  
17 approved. And the reason for that is that our program  
18 is designed to be a last resource for participants.

19                   So, if we can identify other programs  
20 through that relationship we have with Manitoba Hydro,  
21 such as getting them a grant through Neighbours  
22 Helping Neighbours, or maybe setting them up on the  
23 Customer Arrears Assistance Plan, we'll encourage them  
24 to take that route rather than taking a loan through  
25 our program adding, you know, extra financial

1 hardship, having to pay that back.

2                   So, that's one (1) of the reasons why  
3 they might not go through with a loan through our  
4 program.

5                   The second one is we often have  
6 participants apply with utility arrears beyond what we  
7 can fund. And therefore, our loan through our program  
8 would not stabilize their utilities, would not  
9 stabilize their housing.

10                   Therefore, it doesn't make sense to  
11 fund that loan, because the goal of our program is to  
12 stabilize housing, so we try to work for other  
13 solutions when that happens.

14                   So, now I have a few case studies for  
15 you, just giving you a snapshot of our participants'  
16 experience with utilities. Next slide, please.

17                   So, the first one is a single non-  
18 elderly participant. They are living in a roommate  
19 situation in a single detached residential home.  
20 Their income source is EIA Disability, and their  
21 annual income is twelve thousand two hundred and  
22 forty-six (12,246). Next slide, please.

23                   So, this is a snapshot of their monthly  
24 budget. Our caseworkers dive in and do a budget  
25 assessment with every participant to determine what

1 kind of expenses they have against what income they  
2 have coming in. And there are a few things I'd like  
3 to identify with this budget for you.

4           First is that the Hydro expense is only  
5 50 percent of the actual household cost because  
6 they're in that roommate situation. They're splitting  
7 this 50/50, so their actually monthly utility expenses  
8 are two hundred and forty five dollars (\$245).

9           The second thing is is that they are on  
10 an equal payment plan in this budget snapshot. Before  
11 they were connected with the Rent Relief Fund, they  
12 were not on an equal payment plan, and they were  
13 experiencing seasonal spikes in their utility  
14 expenses.

15           You can see at the bottom of their  
16 balanced budget there that there is -- it's in the  
17 positive, but it's just barely. So seasonal winter  
18 spikes would cause them to fall into a winter -- a  
19 deficit in the winter.

20           The other thing that I'd like to draw  
21 attention to is that they have a very lean grocery  
22 budget, no entertainment or leisure expenses. You can  
23 see this tradeoff already where they're trying to  
24 balance their rent and utility expenses against other  
25 things in their lives just to make the payments work.

1                   So of -- sorry. Next slide, please.

2 Of this income, Hydro utilities accounts for 9 percent  
3 of their costs.

4                   Okay. Study number 2 is a couple, non-  
5 elderly, living in a single detached residential home.  
6 They have an income source combined of pension from  
7 one and EI from the other. Before they went on EI,  
8 their annual income was fifty-seven thousand nine  
9 seventy-two (57,972). Next slide, please.

10                   This snapshot of their budget again  
11 does show that they have a positive balance at the end  
12 of the month, but there are a few things I'd like to  
13 draw your attention to as well.

14                   They do have lean budgeted costs for  
15 transportation, internet, and phone expenses for two  
16 (2) individuals, again, making those tradeoffs to make  
17 this budget work for them. As you can see, any sudden  
18 expense would cause a disruption to this budget and  
19 cause them to fall into a deficit in something.  
20 They'll have to pick which one they fall behind in.

21                   This family was not on the equal  
22 payment plan, so they are experiencing seasonal spikes  
23 in their utility costs. I believe this dollar value  
24 was on a shoulder season, like in between winter and  
25 fall, so it would go up a bit, but it's not at the

1 lowest it would be. So we try to keep an average in  
2 there to show. And then next slide, please.

3 Of this budget, their costs -- their  
4 utility costs were 12 percent of the participants'  
5 income. Next slide.

6 So final case study is a couple, non-  
7 elderly, with two (2) dependents living again in a  
8 single detached residential home. Income was a  
9 combination of employment and child benefits. Annual  
10 income was forty-three thousand five hundred and  
11 seventy-six (43,576).

12 Snapshot of their budget here. First  
13 thing to us that we see is that their rent was not  
14 affordable and their budget is in a deficit every  
15 month. However, their budget is also very lean and  
16 budgeted in areas of groceries and transportation for  
17 four (4) individuals. So they're trying to make this  
18 work, but it's not.

19 Unfortunately, we were unable to fund a  
20 loan for this participant because their housing was  
21 not sustainable going forward. So we did make the  
22 recommendation for them to move somewhere that would  
23 fit in their budget.

24 However, you can see again that the  
25 utility expenses were 9 percent of their household



1 income at this place. Sorry. That's the next slide,  
2 and one more slide.

3                   The final key points that I'd like to  
4 leave you with is that 33 percent of our participants  
5 are struggling with utility arrears, and again this  
6 number is higher. This is just the initial  
7 application recorded number.

8                   Next, that applicants are struggling --  
9 that are struggling have utility expenses between 9  
10 and 12 percent of their household income. Next slide.

11                   And finally, applicants that are  
12 struggling have household incomes between ten thousand  
13 (10,000) and sixty thousand (60,000) in these case  
14 studies.

15                   However, again, we do accept  
16 applications up to eighty-four thousand six hundred  
17 (84,600) for household income, and we have seen people  
18 apply for utility arrears with that dollar value as  
19 their annual income. So this is not just a low-income  
20 issue where people are struggling to keep up with  
21 utility expenses.

22                   And last slide just has my contact  
23 information if you have any questions, but you can ask  
24 them to me now.

25                   THE CHAIRPERSON: Thank you. We have

1 questions from the Panel.

2 Ms. Bellringer...?

3 BOARD MEMBER BELLRINGER: Ms. -- Ms.

4 Wall, what -- what geographical area do you cover? Is  
5 it all of Manitoba or primarily Winnipeg?

6 MS. BAILEY WALL (by TEAMS): All of  
7 Manitoba we cover. However, the -- the majority of  
8 our applications are from Winnipeg, but we do cover  
9 all of Manitoba. And I can -- we just actually did a  
10 report, so I could pull the exact numbers if you guys  
11 need them.

12 BOARD MEMBER BELLRINGER: I'd be  
13 interested in that, so thank you.

14 MS. BAILEY WALL (by TEAMS): For sure.

15 THE CHAIRPERSON: Mr. Brandon --

16 MR. JOHN BRANDON (by TEAMS): M-hm.

17 THE CHAIRPERSON: -- I've got  
18 questions for both of you.

19 From your studies, what percentage of  
20 people in Manitoba have the cost of energy as over 6  
21 percent? Do you have any statistics on that?

22 MR. JOHN BRANDON (by TEAMS): I don't  
23 have it on the top of my head. There was a report  
24 done by the -- by Manitoba Hydro and the Manitoba  
25 Hydro Affordability Group in 2017, and it has the

1 exact numbers in there, and I can find that for you if  
2 -- if you're --

3 THE CHAIRPERSON: Okay.

4 MR. JOHN BRANDON (by TEAMS): -- if  
5 that would be appropriate.

6 THE CHAIRPERSON: Sure. I just  
7 indicate -- so I was at a conference last week in  
8 Toronto where there were utilities and regulators from  
9 across the country. And in Ontario, they mentioned  
10 that 22 percent of the population is -- has more than  
11 6 percent of net income going towards energy.

12 The interesting thing in Ontario is  
13 that the government started a program a number of  
14 years ago where they subsidize everybody's energy use  
15 right across the board by 25 percent. So their --  
16 their -- the 22 percent is following a subsidy.

17 So I was just wondering if -- you  
18 know, if you could find that number. If not, we can --  
19 -- we can find it. I know -- I know which hearing it  
20 came from.

21 Ms. Wall, how are you funded?

22 MS. BAILEY WALL (by TEAMS): Province  
23 of Manitoba.

24 THE CHAIRPERSON: Okay. So here --  
25 here's a question I have for -- for both of you.

1 Let's say Manitoba Hydro does not get a rate increase.

2 You still have problems with energy poverty, correct?

3 MS. BAILEY WALL (by TEAMS): Correct.

4 THE CHAIRPERSON: Situation doesn't  
5 change.

6 MS. BAILEY WALL (by TEAMS): Correct.

7 THE CHAIRPERSON: Okay. So --

8 MR. JOHN BRANDON (by TEAMS): But it  
9 certainly -- if -- if it goes up, we're -- we'll see  
10 higher rates of energy poverty as a result of the --  
11 the proposed increases.

12 THE CHAIRPERSON: Okay. So is this a  
13 -- in your mind, is this an issue of -- a ratepayer  
14 issue, or is this a taxpayer issue?

15 Is this that Manitoba Hydro should not  
16 get a higher rate even if they can show they need it,  
17 or is it that the state should be doing something to  
18 subsidize those people who can't afford to pay higher  
19 rates?

20 MS. BAILEY WALL (by TEAMS): I can  
21 start answering that question if you'd like, in my  
22 opinion.

23 THE CHAIRPERSON: Yeah, sure.

24 MS. BAILEY WALL (by TEAMS): Well,  
25 when you're looking at it from a housing security

1 perspective -- and we have established in Canada that  
2 housing is a human right -- if you don't have  
3 utilities in your house, you are at risk for eviction  
4 if you get disconnected.

5                   And so if we're looking at housing as a  
6 human right, I think that we need to consider this as  
7 an inclusive factor in that because we're in Canada.  
8 Without utilities, your house -- you're going to  
9 freeze and you're going to get disconnected.

10                   So if we are going to take that  
11 seriously of -- with housing as a human right, we need  
12 to consider it as lumped into that, in my opinion,  
13 which then falls on the government. Sorry.

14                   THE CHAIRPERSON:    Yeah. Mr.  
15 Brandon...?

16                   MR. JOHN BRANDON (by TEAMS):    My -- my  
17 opinion is that it's an area of shared responsibility.  
18 Manitoba Hydro has a responsibility to provide  
19 equitable rates for all its customers, and -- and part  
20 of that equity is considerations of geography, it's  
21 considerations of what the costs are of providing  
22 energy to households. But it's also a matter of what  
23 they can afford.

24                   And if we're not providing energy  
25 that's affordable for Manitobans, then that is a -- an

1 issue that -- where Manitoba Hydro isn't fulfilling  
2 its responsibilities to all of its customers.

3           When we think about how Hydro rates are  
4 set, I think you're considering a number of factors  
5 here as you're -- as you're looking at this proposal,  
6 I know.

7           And you're going to be looking at, you  
8 know, areas that -- some areas of the province are  
9 more expensive to -- to service than others, and we've  
10 decided as a -- as a community that we're going to  
11 provide the same rates in rural Manitoba as we provide  
12 in -- in Winnipeg. And -- and to some degree, that in  
13 effect means that some parts of the provinces --  
14 province are subsidizing others.

15           We also know that here in -- in  
16 Manitoba compared to some other provinces residential  
17 customers pay a higher rate than -- than large  
18 corporate consumers. And if I understand the rate  
19 application that's before you this -- this time  
20 around, they're looking at a higher rate increase for  
21 residential customers than for -- than for large  
22 corporate consumers.

23           And so, there's -- there's all of these  
24 considerations. In -- in many ways, various classes  
25 of consumers are, in effect, subsidizing other classes

1 of consumers.

2                   And part of that, we believe, could be  
3 that lower income consumers have -- have more of a  
4 subsidy as a result, you know, programs like -- like  
5 Ms. Wall's or programs -- more broad-based, low-income  
6 subsidy programs.

7                   And if those were put into effect,  
8 Manitoba Hydro could be better implementing its  
9 mandate. And there -- there certainly is a  
10 responsibility from the province, as well, for this.  
11 We know that for EIA, for example, there have been no  
12 significant increases for the basic needs budget for -  
13 - for many years, since -- really since the 1990s.

14                   And many consumers are -- are paying  
15 out of -- out of their basic needs budget if they're  
16 on EIA, paying their hydro rates, and that's not  
17 sustainable either.

18                   So, certainly, there are government  
19 responsibilities, but -- but Manitoba Hydro, as the  
20 public utility, also has a responsibility to ensure  
21 that affordable hydro is available for everyone.

22                   THE CHAIRPERSON: Thank you very much.

23                   MS. BAILEY WALL (by TEAMS): That's so  
24 much better than me.

25                   THE CHAIRPERSON: Questions...? Mr.

1 Sy...?

2 BOARD MEMBER SY: Yeah. Ms. Wall,  
3 thank you very much for your -- for your presentation.  
4 I'm just trying to get some clarification here.

5 The income range that you are -- that  
6 people that you are working with goes anywhere between  
7 twelve thousand (12,000) K to eight-four thousand  
8 (84,000) K. Is that correct?

9 MS. BAILEY WALL (by TEAMS): So, we  
10 don't have a minimum income. The lowest one I picked  
11 was twelve thousand (12,000) because that's a  
12 participate on EIA disability.

13 If someone is on general EIA, their  
14 income would be less than that, and we will still  
15 consider their application.

16 The main criteria we're looking at when  
17 -- when we're looking at income is that they can  
18 afford housing going forward, that it's still  
19 sustainable.

20 If it's not sustainable, one time loan  
21 isn't going to help, so we'll be looking at connecting  
22 them with other resources, possibly more affordable  
23 housing, things like that. But, yes, our maximum at  
24 the top end is eighty-four thousand (84,000).

25 BOARD MEMBER SY: Yeah. So, just, you



1 know, if you look at stats so, currently, the middle-  
2 class income in Canada is anywhere between forty-five  
3 thousand (45,000) to a hundred and twenty thousand  
4 (120,000).

5 So, a good portion of the population  
6 that you are dealing with, based on what you guys just  
7 said -- what -- what you said, is earning more than  
8 the average income in Canada.

9 What would you say the breakdown is  
10 between those who are above and those who are below  
11 the average income in Canada? I'm not talking about  
12 Manitoba. I'm just talking about Canada in general.

13 MS. BAILEY WALL (by TEAMS): The  
14 breakdown of our participants that's above and below?

15 BOARD MEMBER SY: Yeah.

16 MS. BAILEY WALL (by TEAMS): I would -  
17 - our database would be able to pull that, I believe,  
18 because we do record annual income on everyone, but I  
19 don't have that specific statistic available to me.

20 From my experience, I've worked here  
21 for two (2) years, and off the top of my head, I would  
22 suspect that we're -- I'd almost say we're probably  
23 almost equally split because I see low-income  
24 participants all the time, but I also see moderate  
25 income participants all the time. I don't see at the

1 top end that often.

2 Like, near the eighty thousand  
3 (80,000), seventy thousand (70,000) is less frequent,  
4 but definitely in the fifty (50), sixty thousands  
5 (60,000s), very frequent to see that income threshold  
6 to come through but, again, that's just my perception  
7 of what I see day to day. I can get the data from --  
8 for you if you need.

9

10 (BRIEF PAUSE)

11

12 THE CHAIRPERSON: Any of the -- I  
13 don't know if Manitoba Hydro or any of the Interveners  
14 have any questions.

15 I'd like to thank both of you for --  
16 for very good presentations and -- and thank you for  
17 participating in the Hearing.

18 MS. BAILEY WALL (by TEAMS): Thank  
19 you.

20 THE CHAIRPERSON: Thank you.

21 MR. JOSH BRANDON (by TEAMS): Thanks  
22 very much.

23 THE CHAIRPERSON: Okay. The next  
24 person will be Mr. Guenther, from New Jersey -- New  
25 Journey Housing. Sorry. Is Mr. Guenther here? I'm

1 sorry, Codi Guenther. Sorry. Please -- my apologies.

2

3 AZARIAS BUTARIHO, Affirmed

4 CODI GUENTHER, Affirmed

5

6 THE CHAIRPERSON: Good morning.

7 MS. CODI GUENTHER: Good morning.

8 THE CHAIRPERSON: So, if you could  
9 give us your names -- sorry, the panel, your names.

10 MS. CODI GUENTHER: Sure. My name is  
11 Codi Guenther.

12 THE CHAIRPERSON: Right. Yeah, it's  
13 the magic button. And I'm going to say this before we  
14 get a note from -- we have a reporter. You need to  
15 speak closely into the mic, or else we're going to get  
16 a note.

17 So, sir, you just turned it off.  
18 There. There's a red -- there's a -- yeah, it's on  
19 now.

20 MR. AZARIAS BUTARIHO: My name is  
21 Azarias Butariho.

22 THE CHAIRPERSON: And can you spell  
23 your last name, sir?

24 MR. AZARIAS BUTARIHO: B-U-T-A-R-I-H-  
25 O.

1 THE CHAIRPERSON: Thank you. Thank  
2 you very much. So, if you could do the presentation  
3 in approximately ten (10) minutes. And then we'll  
4 have some time for questions.

5 MS. CODI GUENTHER: Okay.

6 THE CHAIRPERSON: Thank you.

7 MS. CODI GUENTHER: Okay. Thanks for  
8 having us today. A little bit of nerves. We went to  
9 the hydro building first, and now we're here, but nice  
10 to see you all. And --

11 THE CHAIRPERSON: Their -- their  
12 building's much nicer.

13 MS. CODI GUENTHER: It's very fancy  
14 over there. Yes, it is very nice, but we're happy to  
15 be here either way, without the waterfall; it's okay.

16 So, we'll be going back and forth  
17 during this presentation. Thank you for having us  
18 today and giving us the opportunity to speak in front  
19 of the members of the Board.

20 My name is Codi, like I said, and I'm  
21 the Director of New Journey Housing. We're a local  
22 charity, a housing resource centre that helps  
23 newcomers to Canada with housing.

24 Our clients are anyone born outside the  
25 country, and we work with them regardless of their

1 immigration status or how long they've been here. If  
2 they need help with housing, they can come and see us.

3           We started fourteen (14) years ago.  
4 And we provide supports through one-on-one housing  
5 advising and plus a group workshop. On average, we  
6 usually met with about twenty (20) to thirty (30)  
7 households in a month.

8           In the year 2022, that number has  
9 jumped to around a hundred and fifty (150) to two  
10 hundred and fifty (250) households a month, and this  
11 is because of the war in Ukraine. And we've been  
12 welcoming -- I think there's over eighteen thousand  
13 (18,000) Ukrainians that have arrived since March  
14 2022.

15           And our role at New Journey has been  
16 moving them out of temporary hotels and into permanent  
17 housing. So we have been fortunate to meet with many  
18 of those families and help them out along the way.  
19 We've been very busy, to say the least.

20           Some of the reasons that newcomers come  
21 to see us, they can't find a place to rent because  
22 they don't have a guarantor or a damage deposit. Or  
23 they're renting a place, but it's too expensive so  
24 they need help applying for support, like Manitoba  
25 Housing, Employment and Income Assistance.

1                   They have a place to live, but there  
2 are bed bugs and mice, and they don't know what to do  
3 about it or how to talk with their landlord.

4                   And the final reason -- or one of the  
5 reasons -- is they're renting a place that they can't  
6 afford the high costs, including utilities and their  
7 Hydro bills.

8                   So they come to us looking for either  
9 alternative housing or ways to try to increase their  
10 income from different benefits to cover those costs.

11                   This last point, as you may have  
12 guessed it, is why we're here today. Our presentation  
13 aims to highlight some of the ways that we feel  
14 Manitoba Hydro isn't meeting the needs of newcomers to  
15 Manitoba.

16                   So I'll pass it over to Azarias, with  
17 his red light on, and he will talk about some of the  
18 costs.

19                   MR. AZARIAS BUTARIHO: Thank you,  
20 Codi. I'm talking -- I'm going to talk about the  
21 costs.

22                   So newcomers to Canada are struggling  
23 to pay the bills. When newcomers arrive, they are,  
24 most of them, low income for the first years of their  
25 settlement journey.

1                   According to Stats Canada, poverty was  
2 more prevalent among immigrants than among the  
3 Canadian born population; particularly among refugees  
4 and recent immigrants.

5                   They are often choosing between paying  
6 rent or paying Hydro. So they struggle or can't pay  
7 both in one month. I can give just some examples.

8                   So in our office, we are working with  
9 newcomers to Canada. I'm going to talk about one  
10 family, one case, among many, from EIA and another  
11 case among working community.

12                   So one family from EIA, a family of six  
13 (6) people. So they are receiving a budget for  
14 utilities and their rent, which is twelve hundred and  
15 thirty-four (1,234) -- one thousand two hundred and  
16 thirty-four (1,234) for rent and utilities.

17                   And this family, they are renting a  
18 three (3) bedroom. And they just -- for their rent,  
19 they are paying seventeen hundred (1,700) -- one  
20 thousand seven hundred (1,700) just for their rent.  
21 Already there is a gap -- a gap of five hundred and  
22 thirty-four (534). Just for their rent.

23                   And when they add the utilities, the  
24 Hydro, which was one hundred and fifty (150) -- so the  
25 gap in their budget goes to six hundred and sixteen

1 (616). So they came to me, crying. Saying, What are  
2 we going to do in this case? I talked to them. I  
3 can't change the figures, but they said, We spent two  
4 (2) days without sleeping.

5                   They receive their bills. As newcomers  
6 to Canada, when we receive papers, either from the  
7 Government or from Manitoba Hydro, we all think that  
8 this is from the Government. And through the  
9 experience we have in our home countries, we really  
10 fear the Government.

11                   So these people, they could not sleep  
12 for two (2) nights. And I was powerless. I could not  
13 change the figures, as I said.

14                   And I was wondering, when I heard that  
15 there is this idea of Hydro increment, I said, I have  
16 to raise these issues among the newcomer community.

17                   And those who are working, newcomers to  
18 Canada, when they arrive here, they are minimum wage  
19 full-time. Minimum wage in the first years.

20                   A family working to pay -- is paying.  
21 Another family came to me. They are paying 80 percent  
22 over their income on housing costs. I mean, their  
23 rent plus utilities.

24                   So here, to find -- I'm going to talk  
25 about the impact of this in the family, what is the



1 impact of all of this in their families.

2 And not only these cases I'm working or  
3 saw in the community, and we see such cases. People  
4 are stressed. That is what I will talk about, the  
5 impact of this high cost in the communities.

6 So I wanted to pass on to Codi to talk  
7 about large families of newcomers and the housing,  
8 their rent, and this relationship.

9 MS. CODI GUENTHER: Thanks, Azarias.  
10 So yeah, another piece is that a lot of the families  
11 we see are larger families. You know, they need three  
12 (3) bedroom, four (4) bedroom, five (5) bedroom --  
13 these are going to be big houses that they're renting,  
14 poorly insulated, very drafty, which means their  
15 utility bills are a lot higher. And that impacts  
16 specifically, I think, newcomer -- newcomer groups.

17 Another issue that we wanted to bring  
18 up today was around the fact of new -- of new  
19 customers to Hydro have to pay deposits. And a lot of  
20 times, that's newcomers because they've never had a  
21 Hydro account before.

22 This can be \$200, \$300 that a lot of  
23 these families do not have. EIA does not give them  
24 extra money to pay deposits.

25 I know there's an ability to waive that

1 deposit, but that often requires a community advocate  
2 to do that on their behalf or with them. So that's  
3 another way that Hydro is impacting newcomers.

4           And also, along those lines, are issues  
5 that we've been seeing around customer service.  
6 Manitoba Hydro has an obligation to provide quality  
7 service to all Manitobans. Services like setting up  
8 new accounts, inquiring about bills have all shifted  
9 to online or telephone support.

10           There's no place we can go and just  
11 walk up in person and talk to a human. That impacts  
12 newcomers. They maybe don't have computer literacy  
13 skills. They don't have internet at home. They can't  
14 speak over the phone with an agent or understand,  
15 'Press 4, press 3, press 2'. That can be very  
16 confusing.

17           And that work shifts to an office like  
18 ours. If clients can't access Hydro, they're either  
19 going to go without or they're going to go to a  
20 community agency to get that help.

21           When our team at New Journey has to  
22 spend an hour on hold with Hydro or navigating the  
23 online portal with them, that takes away from our  
24 resources. We are non-profit. We don't have a lot of  
25 money. And it's very difficult for us to shift those

1 resources that way.

2                   So I just don't think it's fair or  
3 right that Hydro is closing those services and then  
4 putting that responsibility on the non-profit sector.

5                   And one of the other points that  
6 Azarias -- I'll go to him -- is the impacts of a rate  
7 increase that we could see happening with the clients  
8 that we work with.

9                   MR. AZARIAS BUTARIHO:    So the -- the  
10 impacts of all these rent increase and the rate  
11 increase for our newcomer clients -- first of all,  
12 many of them, they are on EIA. And on EIA, they are  
13 given a budget. And as I said, there is a gap to pay  
14 the rent and utilities.

15                   So the families are forced to take from  
16 the food allocation money to pay Hydro and to pay the  
17 rent. So this alone creates a lot of challenges, a  
18 lot of problems in the family.

19                   They cannot have balanced diet. They  
20 cannot buy proper clothing for their children and for  
21 themselves. They cannot take the children maybe for  
22 after school programs or to extracurricular programs.  
23 And this bring a lot of stress in the family.

24                   Sometimes it can lead to separation or  
25 divorce. Financial stress.

1                   So we are seeing this in the community,  
2 in low income community. And also, they are facing  
3 eviction because the rent is too high. They cannot  
4 afford to rent certain houses or apartment. So this  
5 leads to homelessness and also, if we can consider  
6 about their health. Once they are not eating healthy,  
7 they have a lot of challenges we have. And finally,  
8 the government will pay a lot of money because of  
9 their health issues.

10                   And they don't have even their  
11 children, because they have to move to one apartment  
12 or one house to another one, cheaper than that, so  
13 they -- the effects, the schooling, the school of the  
14 children. The children are moving from schools to  
15 schools and it is really interfering with the -- the -  
16 - the education of the children.

17                   And, I don't know -- I speak many  
18 languages. I don't know how I can say to you, the  
19 Board members, to really advocate for non-hydro rate  
20 increase. (RUSSIAN SPOKEN). This is in Russian.  
21 (RUSSIAN SPOKEN)

22                   THE CHAIRPERSON: I -- sorry, I  
23 appreciate the languages, but I don't know if --  
24 anybody doesn't speak Russian, they're not going to.  
25 No, can you -- could you conclude because I think we

1 have a number of questions.

2 MS. CODI GUENTHER: Sure.

3 MR. AZARIAS BUTARIHO: So, I wanted  
4 to ask Codi to continue and give an email from our  
5 clients.

6 MS. CODI GUENTHER: I'll be very fast.  
7 We want to end the presentation with an email from one  
8 of our clients Nagen (sic).

9 When I told her that we could have this  
10 opportunity to present in front of the Board, she was  
11 happy because she knew that she could express her  
12 feelings through this way.

13 She said,

14 "I'm a single mother of seven (7)  
15 kids. We all live in the same  
16 house. You can imagine how big of a  
17 hydro bill I have to deal with. I  
18 even sometimes have to choose paying  
19 the bill over buying my kids new  
20 clothes or taking them on a little  
21 trip.

22 All these hardships and the million  
23 questions I have to face for my kids  
24 is before the increase. I can't  
25 imagine how my kids and I would

1                   survive after the increase. All I  
2                   can say and ask for is; please  
3                   help."

4                   So, I wanted to end with her words and  
5                   thank you for the time, sorry we went over, that we  
6                   look forward to your questions.

7                   THE CHAIRPERSON: Thank you. Thanks  
8                   very much. Any questions, Ms. Kapitany?

9                   VICE CHAIR KAPITANY: Thank you for  
10                  the presentation. At the beginning you said that you  
11                  are a charity. Does all your money come from  
12                  charitable donations? All your funding?

13                  MS. CODI GUENTHER: The vast majority,  
14                  yes. From New Journey Foundation, it's a local  
15                  foundation that funds us almost 98 percent.

16                  VICE CHAIR KAPITANY: Okay. And, the  
17                  other thing I was wondering is, what kind of linkages  
18                  you have with other organizations in the community?  
19                  And we just, before you came, heard the presentation  
20                  from the Rent Relief Fund.

21                  And so I'm wondering would that, and  
22                  also you had mentioned, you know, the -- the high --  
23                  the houses that some people go into and they're not  
24                  very energy efficient, have you had any linkages at  
25                  all with Efficiency Manitoba or with other

1 organizations that you might be able to pull together  
2 different resources to help you -- your clients?

3 MS. CODI GUENTHER: Yeah, like -- like  
4 I said, we've been around for fourteen (14) years, so  
5 we -- we know quite a few of those folks. Bailey, we  
6 know her well, we know their rent relief program.

7 Rent Assist we work with all the time.  
8 There's MANSO, the Manitoba Association of Newcomers  
9 Serving Organizations. That's our umbrella for all  
10 the agencies that work with newcomers. So, we're all  
11 very connected that way.

12 But, when it comes to the big houses  
13 that are drafty and poorly insulated, a lot of that  
14 falls on the landlord and the owner. Right?  
15 Newcomers are renting. They're not owning in their  
16 first five (5) years, ten (years). Right?

17 So, that falls a lot on the landlords  
18 and when the tenants are paying the utilities, there's  
19 not a lot of in -- reason for them to do that, is what  
20 we've seen.

21 VICE CHAIR KAPITANY: Thank you.

22 MS. CODI GUENTHER: Thanks for the  
23 question.

24 THE CHAIRPERSON: Mr. Bass...?

25 BOARD MEMBER BASS: Great

1 presentation, as were all of them this morning and I  
2 certainly feel your pain and I expect it's shared by  
3 my fellow Panel members.

4 But the -- the challenge I see is even  
5 if we were to grant a 0 percent increase for the  
6 residential class, that's not going to solve the  
7 problem of energy poverty, is it?

8 And, our hands are tied a little bit  
9 and Mr. Peters will gently remind me at some point in  
10 the future, but between the Manitoba Court of Appeal  
11 decision in the First Nations on reserve residential  
12 rate case, and I -- I have recollection that there  
13 might be something in Bill 36, when it eventually  
14 becomes applicable to us.

15 Like, the government has -- and the  
16 courts and the law, has -- has tied our hands. Do you  
17 have any suggestions and I throw it out even to the  
18 Interveners and other parties to eventually make some  
19 suggestions to us if they like.

20 But asking to you, specifically, do you  
21 have any suggestions as to how we can deal with this?

22 MS. CODI GUENTHER: Yeah, well, like  
23 Josh Brandon said that it will get worse, if the  
24 increase happens, right? So, keeping that in mind,  
25 but there's a -- you're right, there's a huge issue



1 with the lack of income. EIA has remained very  
2 stagnant. Cost of living is -- is going up and we see  
3 every day that, yeah, people need more money. Right?  
4 In order to -- to pay for their -- to pay for their  
5 bills.

6 But, I don't have a solution for you  
7 right now. Maybe we'll -- we'll come up with that  
8 later, but, yeah.

9 BOARD MEMBER BASS: Well, I think part  
10 of it too gets back to our Chair, Mr. Gabor's comment  
11 as to whether it's a bigger issue that needs to be  
12 dealt with at the taxpayer level --

13 MS. CODI GUENTHER: M-hm.

14 BOARD MEMBER BASS: --- and not just  
15 at the ratepayer level.

16 MS. CODI GUENTHER: M-hm. Yeah,  
17 perhaps.

18 THE CHAIRPERSON: I echo the comments  
19 of my -- my learned friend. Lawyers used to say that,  
20 so I -- oh, okay.

21 If -- if -- if we gave Manitoba Hydro 0  
22 percent increase, or we -- and Ms. Fernandes is going  
23 to hit her head against the table if -- or if we ever  
24 rolled back rates, it wouldn't solve your problem.

25 I mean, when I read 80 percent for some

1 is on housing costs, you're -- you're hooped at that  
2 point.

3 MS. CODI GUENTHER: Yeah.

4 THE CHAIRPERSON: Your issue is the  
5 housing cost issue. Manitoba Hydro is just one (1) of  
6 many other factors. The price of -- of -- of fruit  
7 and vegetables going up.

8 MS. CODI GUENTHER: M-hm.

9 THE CHAIRPERSON: It's all of those  
10 things. So, you know, it's a great presentation and,  
11 you know, I think you said it and Mr. Brandon said it  
12 earlier, Ms. Wall, you know, there are a lot of things  
13 we look at. We look at a plethora of -- of -- of  
14 factors that we have to consider.

15 Mr. Bass eluded to it, but under a part  
16 of the Bill that has not yet been proclaimed, we are -  
17 - cannot look at social economic factors.

18 So, it's -- it's a complicated problem  
19 right across the country and I -- I suspect right  
20 across the world, but it was a very good presentation  
21 and -- and -- and we thank you for it.

22 Ms. Bellringer is -- has a question.

23 MS. CODI GUENTHER: Sure.

24 BOARD MEMBER BELLRINGER: Well, and --  
25 and taking all of that in mind, but still there were

1 two (2) things that jumped out from your presentation  
2 that I saw as specifics that we could, you know, be  
3 and -- I don't know, I have to process it.

4 One was deposits, so that specifically  
5 being a -- something that's required.

6 MS. CODI GUENTHER: For new clients,  
7 yeah.

8 BOARD MEMBER BELLRINGER: And -- for  
9 new clients, and also the amount of, like an access  
10 point for appropriate getting -- getting good  
11 information.

12 MS. CODI GUENTHER: Yeah.

13 BOARD MEMBER BELLRINGER: Directly  
14 from Hydro.

15 MS. CODI GUENTHER: Yeah.

16 BOARD MEMBER BELLRINGER: And, are  
17 those -- so is -- are there any other elements to  
18 those two (2) points that you'd want to add for --  
19 we're looking at that as something specific that's  
20 outside of public policy and social policy and  
21 everything that we can't touch. Those are pretty  
22 specific to making sure that access is -- is  
23 equitable.

24 MS. CODI GUENTHER: M-hm. Sorry, what  
25 was -- what was the question?

1 BOARD MEMBER BELLRINGER: Other than,  
2 you -- you brought them up as -- as I just described  
3 them --

4 MS. CODI GUENTHER: Yeah. Yeah.

5 BOARD MEMBER BELLRINGER: -- I  
6 believe, and is there anything more to it than that  
7 that we should be considering?

8 MS. CODI GUENTHER: I guess just the  
9 piece about equitable service for newcomers and those  
10 two (2) points really stuck out around how it's  
11 impacting them directly.

12 And then also how that's impacting our  
13 work in the non-profit sector, 'cause that's really  
14 taking a big piece of our time that we didn't really  
15 sign up for but we didn't sign up for a lot of things  
16 and we just respond to the needs, right, that are out  
17 there in the community.

18 But it's definitely been, I think since  
19 COVID maybe, that's when the in-person stuff started  
20 closing and other agencies did that too, like Manitoba  
21 Health, but they've opened up again. So, now you can  
22 go in person to see them, so that was just one (1) of  
23 the pieces that we've heard from our clients that we  
24 wanted to bring with you, here today.

25 THE CHAIRPERSON: Do any of the

1 Interveners or Manitoba Hydro have any questions for  
2 the witnesses?

3 I'm sorry, Mr. Christle gave me the --  
4 do any of the Interveners or Manitoba Hydro have any  
5 questions for these presenters? If not, thank you  
6 very much.

7 Again, we're a little early but I think  
8 at this point we're going to take the morning break.  
9 So we will reconvene at 10:30. Thank you.

10

11 --- Upon recessing at 10:16 a.m.

12 --- Upon resuming at 10:34 a.m.

13

14 THE CHAIRPERSON: Mr. Hacault...?

15 MR. ANTOINE HACAULT: Yes. Good  
16 morning again, Panel members and everybody in the  
17 room. My name is Antoine Hacault, for the record, for  
18 the court reporter. I'll be sitting at the  
19 presentation table today.

20 You'll have a presentation from various  
21 members of Manitoba Power Industrial Users Group who  
22 we've been referring to as MIPUG, first from  
23 Chemtrade, Gerdau, TransCanada, Maple Leaf, and  
24 finally Canadian Kraft Paper.

25 What I would propose is that each of

1 the presenters introduce themselves at their  
2 respective presentations, and it's my understanding  
3 that the secretary will come and affirm or swear as  
4 the case may be for each of the presenters.

5 And with that, I leave it to the first  
6 presenter, ChemTrade. Dale Bossons online and Rick  
7 Zetariuk.

8 THE CHAIRPERSON: Okay. So my  
9 understanding is we're going to deal with them as  
10 separate presentations, so we'll have questions after  
11 each presentation. If possible, maybe after people  
12 have done their presentations, if they could remain  
13 here, we might have -- depending on the amount of time  
14 we have left over, we may want to ask questions of the  
15 -- of the parties as a group at the end.

16 MR. ANTOINE HACAULT: Thank you for --  
17 very much for letting us know that, and -- and we'll  
18 make our best efforts as presenters to accommodate  
19 your request.

20 THE CHAIRPERSON: Yeah. I just  
21 thought of it two (2) seconds ago. So if it causes a  
22 problem for anybody, that's fine, but I think there  
23 may be some issues that we can -- we may want to raise  
24 after if we have time again.

25

1 (BRIEF PAUSE)

2

3 MR. ANTOINE HACAULT: I'm advised with  
4 respect to ChemTrade that Mr. Zateriuk unfortunately  
5 won't be able to stay. I -- I hope -- I can't speak  
6 to Mr. Bossons 'cause he's on line right now because  
7 they're in a plant shutdown situation, and he's the  
8 plant manager so he needs to get back --

9 THE CHAIRPERSON: That's fine.

10 MR. ANTOINE HACAULT: -- to deal with  
11 that issue.

12 THE CHAIRPERSON: Yeah.

13

14 (BRIEF PAUSE)

15

16 PRESENTATION BY MANITOBA POWER INDUSTRIAL USERS GROUP:

17

18 RICK ZETARIUK, Affirmed

19

20 MR. RICK ZETARIUK (by TEAMS): So  
21 thank you for having us today -- or me today. In this  
22 presentation, I'm going to give a brief overview of  
23 who we are, some of our concerns about -- certainly  
24 around cost of service, and then some opportunities  
25 that we see with some of the new policy as far as time

1 of use and -- and some of the concerns inside that  
2 policy.

3                   So ChemTrade ElectroChem is a Canadian  
4 chemical manufacturing company, handling company, and  
5 service all over North America for more than half a  
6 century. We pride ourselves in being a low-cost  
7 operations, strategic -- strategic growth, quality  
8 service, and a commitment to responsible care through  
9 safe, substantial operating practices.

10                   The Brandon sodium chlorate plant is a  
11 key operation for ChemTrade and is the largest low-  
12 cost sodium chlorate plant in North America. The  
13 plant has been in operation for the last fifty-five  
14 (55) years, with a current capacity of 320,000 tonnes.  
15 We are the largest single power consumer in Manitoba  
16 at 223 MV at full load, equivalent to a hundred and  
17 fifty (150) households.

18                   Chlorate and salt are shipped by rail.  
19 Approximately thirty-two hundred (3,200) cars are  
20 shipped a year of chlorate and sixteen hundred (1,600)  
21 salt cars per year by CN and CP Rail. And -- and one  
22 of our advantages being where we are located is that  
23 we have access to both railways.

24                   Plant capacity has increased from  
25 original 18,000 tonnes per year to five (5) distinct



1 expansion projects. Our -- our employee -- our plant  
2 employs seventy-eight (78) employees, twenty-seven  
3 (27) staff, seventeen (17) in maintenance, thirty-four  
4 (34) in operations, and a -- and a unionized workforce  
5 Unifor (phonetic) for maintenance and operations.

6                   We provide high-paying jobs in the city  
7 with an annual payroll of over \$8.5 million. Strong  
8 philosophy of growth -- growth and improvement, and  
9 I'll speak to some opportunities later in the  
10 presentation that we hope will -- will come to  
11 fruition alongside with -- with stable operation.

12                   We have a strong safety culture and a  
13 long history of responsible care since 1994.

14                   This is an overview of our plant site,  
15 so when you look at it -- look at it, you see the --  
16 the distinct expansions and a change in technology  
17 where we were actually supposed to be shut down in  
18 1978.

19                   We've grown this -- this process to the  
20 biggest one in North America, and -- and particular I  
21 guess attention to phase 6 because when power rates  
22 were extremely high in Louisiana, we went down. And -  
23 - and we owned that plant. We dismantled it, brought  
24 it up to Canada, located it in Brandon, and -- and  
25 it's been in service since the early 2000s.

1 I guess the one (1) distinguishing  
2 factor, you look at the size of that being built in --  
3 in the lower US, and it was all outside, the  
4 footprint. In comparison, it makes the exact same  
5 amount of tonnes as the other processes with a much  
6 larger footprint.

7

8 (BRIEF PAUSE)

9

10 MR. RICK ZETARIUK: So ChemTrade as  
11 well as all other chlorate producers utilize an  
12 electrolytic process. Electricity accounts for  
13 approximately 72 percent of our variable cost. Salt  
14 is the next most costly raw material and accounts for  
15 approximately 16 percent, with the balance being other  
16 materials that make up the remainder of our variable  
17 costs.

18 Chlorate competitiveness is determined  
19 by three (3) key considerations: power pricing,  
20 stability of operation, and availability. And what  
21 we've been seeing and certainly has impacted our  
22 business certainly since COVID, the North American  
23 market, we bleach fine white pulp to fine white paper.

24 So COVID has had an impact on it. It's  
25 coming back, but we're certainly not to where we were

1 before. And that's strictly because people working  
2 from home and -- and not I guess returning to -- to  
3 the office, and hopefully that, for -- for our  
4 business anyway, changes.

5                   Salt pricing and availability. We're a  
6 single-source supplier out of -- out of Saskatchewan,  
7 so, I mean, we all -- always looking for alternatives  
8 in that as far as having I guess a backup plan to  
9 continue operation.

10                   And transportation to markets. We're -  
11 - we're located in Manitoba, and we were located, or  
12 are located, because of power pricing originally, but  
13 our transportation costs are one (1) of our main  
14 concerns. We ship most of our product to the  
15 southeastern United States, so we're -- our -- our  
16 location to market is not ideal.

17                   Of the three (3), obviously power is  
18 the most important due to the large volumes required  
19 for electrolysis. In 2022, two (2) chlorate plants  
20 were idled in Canada -- and again, the industry is  
21 very competitive -- one (1) of those plants being our  
22 own in Quebec.

23                   I -- we struggle -- well, we compete  
24 for market share almost daily with other -- other  
25 suppliers. And -- and certainly, if we go back in the

1 past, decisions about capital investment in Brandon  
2 certainly weigh on being cost competitive and -- and  
3 making sure that we can -- we can run our plants at  
4 maximum rates.

5                   And presently, I'll speak to some of  
6 the -- some of the projects that are being considered,  
7 but right now in -- in Brandon itself, we're looking  
8 at capital investment of over \$100 million in the next  
9 five (5) years, which is I guess for the city, the  
10 province a real positive story.

11                   If these investments go through, it --  
12 it means increased -- increased jobs, probably to the  
13 -- to the magnitude of 15 to 20 percent of unionized  
14 employees and staff. So something that we -- we look  
15 forward to I guess being able to bring to fruition.

16                   And what helps us is stable and  
17 predictable power -- powerable (sic) rates on true  
18 power costs, reliability of service with no  
19 interruptions -- and I'll talk to the -- to the impact  
20 that -- that interruptions have on our business in the  
21 next -- in the following slides -- and flexibility of  
22 alternate rate options.

23                   And -- and we do feel that we are  
24 somewhat of a unique business as when we look at a  
25 time of use -- and I'll speak to that again -- we

1 think we -- there's an opportunity there, but again  
2 some concerns with the way it's structured presently -  
3 - and support from customer service.

4           So when we get into stable power supply  
5 and critical operation, a single power loss to our  
6 plant -- and again, it's -- it doesn't matter the  
7 duration because when you look at it further down the  
8 thing, a two (2) minute -- two (2) second delay is  
9 equivalent to around forty thousand dollars (\$400,000)  
10 in loss production.

11           And nitrogen costs reproduce hydrogen  
12 as a byproduct. So, when we trip, all of our -- all  
13 of our systems have to be purged. And then there's  
14 the -- the time lag to start up.

15           When we have kind of, I guess,  
16 interruptible and unstable power supply. And the last  
17 event coincided with a hydro -- hydro upset on April  
18 19th, that we had fluctuation in incoming power. And  
19 that resulted in our capacitor banks having failures  
20 in -- in that yard, and -- and the timing is -- is  
21 basically the same as the interruption, and that was a  
22 thirty thousand dollar (\$30,000) cost to the plant in  
23 repairs.

24           When you look at other, I mean, if you  
25 take 220 megawatts and shut it off, it jars your

1 system. And we often see gasket failures associated  
2 with that when we start up. And if we do have one,  
3 that's about an eight (8) hour outage for -- for one  
4 (1) of our cell lines.

5                   So, stability and supply is -- is  
6 critical for us. We can go to the next slide.

7                   So, annual power costs for Manitoba  
8 Hydro when we're at full rates are about \$65 million.  
9 If we have a 2 percent increase multiplied year over  
10 year for five (5) years, we have a cost of \$20  
11 million, which is a huge number when you look at  
12 trying to be competitive.

13                   And it has a significant decision-  
14 making regard for future growth. And again, as I say,  
15 highly -- highly competitive market where market --  
16 market share is -- is -- or the -- the total sales are  
17 shrinking.

18                   So, our concern when we're looking for  
19 -- for cost-base rates that are fair and equitable,  
20 right now, I mean, our general service large status  
21 results in us paying 113 percent of the cost. And on  
22 an annual -- annual basis, that's \$7 1/2 million to  
23 our -- our facility.

24                   And we're certainly looking -- we're  
25 not adverse to certainly paying our share because we

1 understand the importance of -- of maintaining  
2 equipment, but \$7 1/2 million seems like it's far in  
3 excess of what we should be -- what we should be  
4 looking at.

5                   And I understand that -- that there is  
6 a process that has been put in place to try to  
7 equalize those rates, but the process is going to take  
8 a long time and, again, will result in -- in tens of  
9 millions of dollars if we ever get to the -- get to  
10 the point where we are at the 95 to 100 percent -- 105  
11 percent acceptable rate or -- or, I guess -- variable.

12                   And -- and, obviously, the long-term  
13 goal should be we pay a hundred percent of -- of our  
14 cost.

15                   The change in -- in billing demand,  
16 when you look at time of use, again, I -- I said that  
17 we're -- we're a pretty unique process. We can move  
18 plant load around, up and down. But when we look at  
19 the 90 percent off-peak ratchet, that's not a risk  
20 we'd be prepared to take, especially with market  
21 conditions being unpredictable.

22                   So, it puts us at -- at a disadvantage,  
23 saying, okay, we -- we can work with Manitoba Hydro on  
24 an initiative but, in the end, inherit some risk that  
25 -- that is not acceptable to us.

1 BOARD MEMBER BASS: Just on that  
2 bullet, can you explain what 'off-peak ratchet' is?

3 MR. RICK ZETARIUK: We would be -- the  
4 90 percent demand is if we dropped our load if we --  
5 if we weren't running would be we'd still be  
6 accountable for 90 percent of the demand, so.

7 And then the second part of that is the  
8 increased tax rate on demand of -- of 1.2 percent,  
9 which seems like, for working with Manitoba Hydro,  
10 we're being penalized in the process.

11 When I talked about investment in  
12 Brandon, and -- and you won't see this on -- on the  
13 slides, but, I mean, we are the -- the largest emitter  
14 of green hydrogen in North America.

15 So, we're -- we're looking at,  
16 obviously, utilizing that stream, and -- and for  
17 several reasons; 1) because it's the right thing to do  
18 with greenhouse effect. And we've got several --  
19 we've had several discussions with several different  
20 off-takers as partners.

21 And one (1) of the main -- not one (1)  
22 of the main, the main question that they ask is, if  
23 you're going to invest -- and this over a hundred  
24 million dollars -- if you're going to invest that, can  
25 you guarantee stable supply of hydrogen, because



1 nobody wants to put that kind of investment into place  
2 or -- or go to customer base and say, well, we can  
3 only have that intermittently, so a big concern, but  
4 also a huge opportunity for, I think, but the province  
5 and -- and for certainly ChemTrade.

6                   And then finally, we -- we've -- we  
7 need to have a good working relation with our customer  
8 service, and -- and for the most part, we do. They've  
9 helped us research the resource equipment. We  
10 certainly -- any questions we have, they ask, but --  
11 but that has to be ongoing not only for us, but to be  
12 able to -- to, I guess, instill confidence in -- in  
13 our partners.

14                   So, that is the end of -- of my  
15 presentation. Hopefully, if you have questions, I can  
16 answer then. If not, we will certainly get back to  
17 you with -- with our answers.

18                   THE CHAIRPERSON: Ms. Kapitany...?

19                   VICE CHAIR KAPITANY: Thanks for the  
20 presentation. A couple questions. You talked about  
21 curtailing. So, the Curtailable Rate Program is  
22 something that's already available.

23                   And I don't want you to give out any  
24 company secrets, obviously, but you work with Manitoba  
25 Hydro in terms of that Curtailable Rate Program?

1 MR. RICK ZETARIUK: We do.

2 VICE CHAIR KAPITANY: Okay. And do  
3 you have any issues with that, any concerns you'd want  
4 to --

5 MR. RICK ZETARIUK: No. I think the -  
6 - the Curtailable Rate Program certainly has improved  
7 since we've been part of the -- part of the program.  
8 Initially, it was -- I mean, if it was on peak and we  
9 were curtailed, they had thirty (30) -- thirty (30)  
10 curtailments a year, and we got all thirty (30) of  
11 them, and -- and on a plant that was hard.

12 Now, it's basically curtailing for --  
13 for loss of -- or loss of equipment on their end. So,  
14 no, I wouldn't say we have any issue with that.

15 VICE CHAIR KAPITANY: My other  
16 question is about the reliability of the system. And  
17 I certainly understand why reliability is important to  
18 you, but have you looked at any of the other  
19 jurisdictions near or other jurisdictions that might  
20 be of interest to you to see what kind of reliability  
21 they have?

22 My understanding from evidence we've  
23 seen is that Manitoba Hydro has an above average  
24 reputation or reliability service standard. So, I  
25 just wondered what the comparables are that you might

1 have seen.

2 MR. RICK ZETARIUK: We haven't done a  
3 comparison.

4 VICE CHAIR KAPITANY: Thank you.

5 BOARD MEMBER SY: Thanks for -- for  
6 the presentation. First of all, thank you for using  
7 the rail. I am from the oil industry so I appreciate  
8 that.

9 MR. RICK ZETARIUK: That's a whole  
10 different conversation.

11 BOARD MEMBER SY: Yeah, I know. We  
12 are not bring it here. So, the question I have is  
13 just related to what you -- what you talked to earlier  
14 in your presentation.

15 You said power rates are based on true  
16 cost of service. I'm stressing the word 'true'. What  
17 do you mean by that?

18

19 (BRIEF PAUSE)

20

21 MR. RICK ZETARIUK: I'm just looking  
22 through here.

23

24 (BRIEF PAUSE)

25

1 MR. RICK ZETARIUK: Yeah, I mean, it's  
2 the -- it's the cost being determined between the  
3 calculation of demand and energy consumption and the  
4 calculation of kilowatt hours actually consumed.

5 BOARD MEMBER SY: Okay.

6 THE CHAIRPERSON: Mr. Zetariuk,  
7 ChemTrade has a plant in Quebec?

8 MR. RICK ZETARIUK: We've got one (1)  
9 in Quebec that is basically shut down. The  
10 electrolysis process is just providing brine to a  
11 sister plant -- not a sister plant, a service to  
12 another chemical plant that's adjourned to it.

13 THE CHAIRPERSON: Okay. And when did  
14 it shut down the electrolysis?

15 MR. RICK ZETARIUK: It was, I believe,  
16 September, October of last year.

17 THE CHAIRPERSON: Okay. And can you  
18 give us the reason they shut it down?

19 MR. RICK ZETARIUK: Competitive  
20 market. I mean, their -- their costs were high. I  
21 mean, we've -- we've got the advantage of economy of  
22 scale with our employees. I mean, making 320,000  
23 tonnes with seventy-eight (78) employees or making  
24 40,000 tonnes with -- with thirty (30) to forty (40)  
25 employees, and -- and there was, I believe, a Hydro

1 component -- cost component there also.

2 THE CHAIRPERSON: Okay. My  
3 understanding is that the last rate for Quebec Hydro  
4 for commercial clients was 6.4 percent. I don't know  
5 if you can confirm that or not?

6 MR. RICK ZETARIUK: I can't -- I can't  
7 answer that.

8 THE CHAIRPERSON: Can you, without  
9 disclosing confidential information, indicate a  
10 comparison between the cost you'd be paying Manitoba  
11 Hydro on a per kilowatt basis, versus how much the  
12 company was paying Quebec Hydro on a kilowatt basis?

13 MR. RICK ZETARIUK: I can't confirm  
14 that.

15 THE CHAIRPERSON: Okay. When you had  
16 this outage in April and you had the \$30,000 cost  
17 repairs, are you compensated by Manitoba Hydro as a  
18 result of the outage?

19 MR. RICK ZETARIUK: We are not.

20 THE CHAIRPERSON: So anytime you have  
21 a service interruption or outage, essentially, you eat  
22 it?

23 MR. RICK ZETARIUK: Yes.

24 THE CHAIRPERSON: Okay. And Mr.  
25 Hacaault is going to tell me whether my memory is

1 correct or not on the following question.

2 I believe, when we had the Interim Rate  
3 Application, and we had presenters, that there was  
4 somebody from ChemTrade who testified.

5 Mr. Hacault, is that correct? No?

6 MR. ANTOINE HACAULT: I don't believe  
7 so. I don't think in the interim process we had  
8 presenters. Surely, if we did, then your recollection  
9 would be correct.

10 THE CHAIRPERSON: I think -- what was  
11 -- was the Hearing where we had --

12 MR. RICK ZETARIUK: It was the 2019.

13 THE CHAIRPERSON: It was the 2019.

14 And do you remember who -- who -- who presented?

15 MR. RICK ZETARIUK: Dale Bossons from  
16 ChemTrade was here.

17 THE CHAIRPERSON: Okay. That's -- and  
18 presented?

19 MR. RICK ZETARIUK HACAULT: Yes.

20 THE CHAIRPERSON: Okay. And there was  
21 -- there was another MIPUG representative who  
22 presented as well?

23 MR. RICK ZETARIUK: There were several  
24 companies, including Gerdau, the Canadian  
25 Manufacturers and Exporters were part of that

1 presentation, and that is the limit of my memory at  
2 this point. But there were at least one (1) or two  
3 (2) others, yes.

4 THE CHAIRPERSON: Okay. Just wait  
5 until you get older, it gets worse.

6 MR. ANTOINE HACAULT: I believe Morgan  
7 Curran-Blaney from Maple Leaf was also present because  
8 he --

9 THE CHAIRPERSON: Okay.

10 MR. ANTOINE HACAULT: -- both Mr.  
11 Bossons and -- and Curran -- Morgan Curran-Blaney are  
12 on the executive of MIPUG.

13 THE CHAIRPERSON: Okay. The question  
14 is just -- maybe Mr. Zetariuk can answer the question.  
15 And it's a question, I guess, which will be open to  
16 the other people presenting is:

17 I believe that, at the time, there was  
18 a comment made that there was less consultation  
19 between Manitoba Hydro and the members at that time.  
20 For about five (5) years.

21 And if they went back five (5) years,  
22 there was more discussion in terms of needs between  
23 account managers and the -- the individual companies.

24 I'm just wondering if you have any  
25 information on that, Mr. Zetariuk?

1 MR. RICK ZETARIUK: I do not.

2 THE CHAIRPERSON: Okay. Thank you.

3 Any other questions? Okay. Thank you. We'll move to  
4 the next presenter, Ms. McMillin.

5

6 (BRIEF PAUSE)

7

8 THE CHAIRPERSON: I'm advised by Ms.

9 McMillin -- she just handed me the note -- that

10 ChemTrade and Gerdau presented at the Interim Rate

11 Application in December of 2021.

12

13 (BRIEF PAUSE)

14

15 MR. RICK ZETARIUK: My apologies.

16 THE CHAIRPERSON: No, I'm not blaming

17 you. I'm just sort of beaming --

18 MR. ANTOINE HACAULT: No. No, you're

19 correct.

20 THE CHAIRPERSON: -- that I actually

21 remembered something.

22 MR. RICK ZETARIUK: Yeah, we did it

23 virtually. You're -- you're correct.

24 THE CHAIRPERSON: Yeah. Okay.

25 MR. RICK ZETARIUK: My apologies.



1 THE CHAIRPERSON: That's why I thought  
2 it was -- yeah.

3

4 JEFF ANTHOFER, Sworn

5

6 MR. JEFF ANTHOFER: I am the Regional  
7 Energy Manager for Gerdau. Good morning, everyone.  
8 Could you flip to the next slide, please? Thanks.

9 Good morning, everyone. Thanks for the  
10 opportunity to speak to you today. I have with me,  
11 sitting beside me, Rob Sternat, who is the Acting  
12 Environmental Manager for our Selkirk Mill here in  
13 Manitoba.

14 As I mentioned, I'm the Regional Energy  
15 Manager and part of an energy management team that  
16 works with a variety of our mills throughout North  
17 America. And we work in different markets, including  
18 Manitoba, such as the IESO in Ontario, MISO market,  
19 PGIM, and AIRCOT (phonetic).

20 And we work with regulatory bodies,  
21 utilities, and our local industrial facilities to  
22 develop and design rate solutions or regulatory  
23 solutions for those -- for those sites.

24 And the reason we're here today is to  
25 address our concern about growing and rising

1 electricity costs in Manitoba and our mill.

2                   Can you flip to the -- Manitoba and the  
3 Selkirk Mill represents five hundred and forty (540)  
4 full-time employees. And three hundred (300)  
5 indirect, upstream, and downstream employees that are  
6 related to both supply and -- and this submission of  
7 materials for our plant. And in general, we represent  
8 about a five (5) to one (1) ratio of every employee in  
9 Gerdau has a spinoff or related employment elsewhere  
10 in the community.

11                   We melt scrap steel into -- into steel  
12 -- we are one of the number one recyclers of metal.  
13 It is a -- it's a fabulous process to witness. If you  
14 ever have the opportunity to watch, an electric arc  
15 furnace under operation, it is -- it makes the ground  
16 shake. It is quite impressive.

17                   Energy represents our third largest  
18 variable cost after scrap and labour. As such, we are  
19 defined as an energy intensive in trade exposed  
20 customer.

21                   And what that means is two (2) things.  
22 One, that we -- we compete for business internally  
23 with all the other Gerdau mills. We also compete  
24 internationally for business.

25                   And as such, what's really important to

1 take away from being an EIT customer is that we can't  
2 automatically push cost increases to our customers  
3 because these are cost increases that may not be  
4 experienced by our competitors either in North America  
5 or offshore.

6                   The corporate trend for Gerdau for  
7 power costs is heading down. What you're looking at  
8 on the graph on the right-hand side is a green line  
9 that represents our overall corporate average costs  
10 for power and Manitoba's average costs for power in  
11 the blue line.

12                   The trend is continually increasing for  
13 our Manitoba mill for power costs. Currently,  
14 Manitoba is the fifth most expensive mill in our  
15 portfolio of fifteen (15) mills, on a dollar per  
16 kilowatt hour basis. The attraction of low power  
17 costs in Manitoba has eroded.

18                   You'll notice, when you look at the  
19 graph as well, that there's that quite significant  
20 anomaly at the very end of -- in the middle of 2022.  
21 That was a result of increasing gas prices, which  
22 resulted in increased electricity costs in all of our  
23 markets where electricity is -- is set by natural gas  
24 costs which we are fortunate to avoid here in  
25 Manitoba, which is one of the -- the saving graces of

1 being here.

2 But it also resulted in increased  
3 revenues for Manitoba Hydro of which the greater than  
4 100 KV class customers, of which Gerdau is one, did  
5 not see as much of the benefit from a percentage basis  
6 as some of the other participants in the marketplace.

7 So the take away from here is that  
8 where we are successful in -- in reducing our overall  
9 average costs of power is where we're able to  
10 implement innovative rate structures and take  
11 advantage of our load flexibility.

12 Internal competition for investment  
13 capital is dependent on stable and competitive  
14 electricity rates.

15 Rate design, in most jurisdictions  
16 where Gerdau operates, values load flexibility and  
17 demand reduction.

18 Manitoba Hydro does not want offer  
19 reasonable options to monetize our flexibility like  
20 other jurisdictions.

21 Our load flexibility could be of great  
22 value in Manitoba. We feel there are opportunities  
23 where there are shared revenue between ourselves and  
24 Manitoba Hydro.

25 We feel we can bring reduced demand

1 during critical peak periods and we think that our  
2 load flexibility could offer relief in the future for  
3 potential drought situations.

4           We have concerns with the rate design  
5 as it is laid out currently. Hydro is addressing the  
6 disparity of revenue recovering cost of service by  
7 adjusting energy and demand components. Most  
8 specifically the proposal is to increase only the  
9 demand charge and achieve a balance of -- by  
10 correcting the price signals for customers.

11           The impact of this proposed -- is  
12 weighted based on a higher load factor customer than  
13 Gerdau, which has a disproportionately negative impact  
14 on a lower load factor customer like Gerdau.

15           To begin with Manitoba Hydro does not  
16 have a revenue shortfall because of the demand in  
17 energy mismatch between -- for the general service  
18 greater than 100 KV customer. We are fully recovered.

19           And when we're looking at opportunities  
20 like this, or concerns like this, we need to have  
21 Manitoba Hydro provide a much clearer indication of  
22 how capacity and energy costs are going to be dealt  
23 with in the long term future.

24           And how is recovery costs coverage  
25 ratios going to change as a result of net revenue, net

1 income, operating maintenance costs and capital  
2 investments.

3                   And -- and really the take-away here  
4 is, we do not need to further aggravate the revenue  
5 cost coverage ratio in a way that's going to be  
6 detrimental to the greater than 100 KV class customer.

7                   I'm going into a little more detail  
8 around the impact it has for a lower load factor  
9 customer. And let me add a little bit of colour as to  
10 what we mean by 'load factor'.

11                   If you think of the very -- very flat  
12 customer that operates pretty well seven (7) by  
13 twenty-four (24), and throughout the week on a fairly  
14 flat basis, you have a very high load factor.

15                   When you look at the operation of a  
16 steel mill, it is much more fluctuating when we're  
17 operating our furnace. And as a result, that load  
18 factor is a smaller percentage and it's more like  
19 50/55 percent.

20                   So, the -- the impact of changing the  
21 demand component only of the rate, has a more  
22 detrimental impact on the lower load factor customer,  
23 like ourselves.

24                   And this increase will be compounded as  
25 we see further increases in demand charges only, which

1 will have a further detrimental effect on an overall  
2 demand charge.

3                   What we are proposing is that Gerdau,  
4 that Ontario or -- sorry, that's a Freudian since I am  
5 from Toronto. It's not Ontario Hydro. That Manitoba  
6 Hydro transitioned to an hourly measurement of demand,  
7 versus the current fifteen (15) minute peak window  
8 measurement.

9                   This is similar to the measurement  
10 process that is currently experienced for our plants  
11 in the ISO, MISO and PJM. And we propose that any  
12 lost revenue as a result should not be an issue, given  
13 the current high revenue cost coverage that we are  
14 experiencing with the greater than 100 KV class  
15 customer.

16                   This was raised earlier. We have  
17 further concerns about the rate designs as it relates  
18 to the recovery of costs. So, the cost service study  
19 indicates there's a disparity of revenue costs between  
20 the -- between the customer classes.

21                   In Hydro's proposal, they would recover  
22 113.2 percent of revenue required to cover the costs  
23 for the large -- large class above 100 KV class  
24 customer.

25                   This is well outside the zone of

1 reasonableness defined by ninety-five (95) to 105  
2 percent established in Manitoba.

3           We feel, just getting back to the zone  
4 of reasonableness is not enough. There must be and  
5 should be, full alignment of our costs, our cost of  
6 service requirements and it should not -- it should be  
7 basically 100 percent.

8           Let's go into a little more detail  
9 around what we mean by this zone of reasonableness.  
10 The purple dotted line, which is a little difficult to  
11 see, represents the -- the -- the larger class  
12 customer service that we're talking about. The --  
13 above 100 KV class client.

14           And since 1991, the GSL, the general  
15 service large user customer over 100 KV has been above  
16 the zone of reasonableness.

17           Continuing to increase rates while  
18 above the zone of reasonableness using a gradualism  
19 approach, is not working and should not be -- it  
20 should be stopped.

21           The Board should not agree with this  
22 proposed disparity and rate design. The Board should  
23 order Hydro to align the rates to achieve parity among  
24 its' rate classes. At a minimum, freezing rates for  
25 the greater than 100 KV class, until they are inside



1 the zone of reasonableness should be considered.

2 Specifically, no customer class should be -- no

3 customer class should be designed to over pay.

4 So, what does the future look like from

5 our perspective? One, we've talked a little bit about

6 this earlier, is Hydro should continue to work with

7 its customers to design options that unlocks

8 flexibility and potentially benefits to the system,

9 lower cost for the participants and all customers.

10 Also, Hydro should be transparent in

11 sharing important utility data that supports customers

12 contribution to rate design.

13 And, lastly, it's important that

14 Manitoba Hydro has a plan for the future and discusses

15 that plan in detail on an ongoing basis with its

16 industrial customers.

17 Thank you for your attention to this

18 very important matter. Thank you for your time today

19 in hearing our presentation and also for supporting

20 Manitoba Steel. And we welcome your questions.

21 THE CHAIRPERSON: Thank you.

22 Questions, Ms. Kapitany...?

23 VICE CHAIR KAPITANY: Thank you. You

24 mentioned on your slide 5 that Manitoba Hydro does not

25 offer reasonable options to monetize your flexibility

1 like other jurisdictions. You did speak about hourly  
2 measurement of demand.

3 MR. JEFF ANTHOFER: Yes.

4 VICE CHAIR KAPITANY: Are there other  
5 measures that you would like to see taken?

6 MR. JEFF ANTHOFER: There -- there's a  
7 number of opportunities that we feel will -- could be  
8 applied to our -- our mill and -- and our operation.

9 And so, in a summary, we would like to  
10 see our -- our demand be reflective of what -- what's  
11 considered a coincident peak. So, the amount of money  
12 we pay for our demand charge would be directly to our  
13 -- our demand contribution to the provincial peak,  
14 which is called 4CP or 5CP, which is similar to the  
15 global adjustment program you see in Ontario. And we  
16 have the similar program both PJM and AIRCOT.

17 We would like to see an opportunity for  
18 demand -- demand reduction or DR and DR participation  
19 where you're paid a stand-by fee to be interruptible  
20 in -- on need for the utility to curtail.

21 And, we participate both on a -- on a  
22 five (5) minute basis for demand reduction and we also  
23 do an hourly demand reduction in Ontario, PJM,  
24 Michigan and also in Texas.

25 We would also like to participate in

1 the curtailable rate program, which is currently  
2 closed. So, we do not have an opportunity. It's  
3 similar to both spinning reserve and operating reserve  
4 that we are able to participate in in Michigan, PJM,  
5 which -- which is MISO, Michigan, PJM for our  
6 Petersburg site and also in Texas and in Ontario.

7           And, what am I missing? I'm missing  
8 somewhere in there. Time of use is a -- is a little -  
9 - a little tougher nut to crack, because it really  
10 depends -- we -- we have some opportunity, but there  
11 needs to be a narrower view on what the time of use  
12 window should be, because there's only so much we can  
13 do in turning down our factory during the peak periods  
14 and turning up the factory in the off peak periods,  
15 but it is -- we do use time of -- time of use rates in  
16 our Cartersville facility, which is part of PJM.

17           VICE CHAIR KAPITANY: And you would  
18 have a dedicated service person at Manitoba Hydro with  
19 whom you could discuss these options?

20           MR. JEFF ANTHOFER: We had and have.  
21 We've -- we've had these -- we've had this level of  
22 discussion on a number of different occasions.

23           VICE CHAIR KAPITANY: Thank you.

24           THE CHAIRPERSON: I have a -- a series  
25 of questions. How many mills does Gerdau have?

1 MR. JEFF ANTHOFER: Fifteen (15) in  
2 North America.

3 THE CHAIRPERSON: Okay.

4 MR. JEFF ANTHOFER: All -- all similar  
5 to Manitoba being a mini-mill where we operate a -- an  
6 electric arch furnace that melts scrap.

7 THE CHAIRPERSON: Okay, so you're --  
8 because I knew the Gerdau facility here is a specialty  
9 mill, these others are speciality mills and would be  
10 competitors to yours?

11 MR. JEFF ANTHOFER: Yes, they would,  
12 because some of the product line that we run in  
13 Manitoba, we run at other mills as well.

14 THE CHAIRPERSON: Right. What's your  
15 planning cycle? So, when the company decides to make  
16 investments, over what period of time are they  
17 planning -- over what period of time ahead are they  
18 planning?

19 MR. JEFF ANTHOFER: That's a -- that's  
20 a great question. So, I'll -- I'll -- I might lean on  
21 Rob here to hit me under the table, but it really is  
22 dependent on the level of cap -- capital expenditure.

23 THE CHAIRPERSON: Yeah.

24 MR. JEFF ANTHOFER: So, as an example,  
25 currently, because of the -- the rates that we, I'll

1 say, enjoy, in Ontario, do -- al -- also because many  
2 of the specialty rates in Ontario that we have around  
3 coincident peak and DR and operating reserve that we --  
4 -- that we participate in, we are seeing a -- a new --  
5 a new arc furnace being installed in that mill, which  
6 is in the tens of millions of dollars, and that par --  
7 that process -- that CapEx process is easily five  
8 years, I would say, in the -- in the --

9 MR. ROB STERNAT: Part of the 10-year  
10 planning cycle.

11 THE CHAIRPERSON: And was the cost of  
12 energy part of the --

13 MR. ROB STERNAT: It was almost --

14 THE CHAIRPERSON: -- factors --

15 MR. ROB STERNAT: -- almost the top of  
16 the list --

17 THE CHAIRPERSON: Okay.

18 MR. ROB STERNAT: -- when it comes to  
19 something like that, because it represents 35 percent  
20 of our overall power costs consumption.

21 THE CHAIRPERSON: So --

22 MR. ROB STERNAT: It's just melting.

23 THE CHAIRPERSON: -- so, in terms of  
24 Ontario versus Manitoba, if you remove sort of the  
25 different programs, what would be the difference in

1 the kilowatt-hour cost for the company?

2 MR. JEFF ANTHOFER: That is a really  
3 good question and there's one major anomaly that you  
4 can't easily remove and, then, make it an apples and  
5 apples, and that is the global adjustment.

6 So, in Ontario, the global adjustment  
7 is -- is paid out and the global adjustment accounts  
8 for some long-term generation contracts, some energy  
9 efficiency, used to also contain the green energy plan  
10 that was our solar and wind program.

11 If you -- a more -- a major portion of  
12 our avoided costs is our ability to -- to -- to  
13 curtail during those peak -- those CP periods. I -- I  
14 would be happy to -- to take this as an Undertaking,  
15 where we could demonstrate the mathematics, as we peel  
16 out each of the different variable load programs  
17 because I think it's -- it's a very important  
18 question, because it really does relate to what is  
19 possible here and how we address it in Ontario. So --

20 THE CHAIRPERSON: No. I would  
21 appreciate it if you could put together a comparison.

22 What -- what I'm particularly  
23 interested in is, you know, a comparison of just the  
24 general rate, Manitoba versus Ontario and, then, your  
25 position seems to be we have a lot more flexibility in

1 Ontario because of the different programs they -- they  
2 offer and maybe, then, include those and show how it  
3 affects your rate and the flexibility, because I -- I  
4 -- you know, I note from page 10, and I'm happy to  
5 hear it, it says Hydro should continue to work with  
6 customers to design options. I'm happy they used the  
7 word "continue".

8 MR. JEFF ANTHOFER: M-hm.

9 THE CHAIRPERSON: So, there are  
10 discussions, but, then, the question is: What are some  
11 of the programs, what -- what are the impacts, and  
12 things of that nature?

13 MR. JEFF ANTHOFER: One of the -- and,  
14 so, I agree. I think that's -- that's a great take-  
15 away and I will work to -- to provide a breakdown of  
16 how each of those costs impact our mill and our --  
17 also our competitive mills, not just in Ontario, but  
18 Petersburg and -- and PJM and also our Texas mill with  
19 AIRCOT.

20 THE CHAIRPERSON: Is -- is the  
21 Manitoba mill, within the scheme of the 15, is the  
22 Manitoba mill the least flexible or near the bottom  
23 for flexible programs?

24 MR. JEFF ANTHOFER: Well, I might --  
25 the lovely people over at Manitoba Hydro are sitting

1 right there, but --

2 THE CHAIRPERSON: Yeah.

3 MR. JEFF ANTHOFER: -- it is -- it is  
4 the least flexible that we have dealt with, the second  
5 -- yeah, they would be the least flexible in their  
6 ability or their -- willingness is strong, because I,  
7 you know, we appreciate and respect the fact that they  
8 have to work within their own finances, but we've had  
9 the least amount of opportunity to participate as a  
10 flexible load in this jurisdiction.

11 THE CHAIRPERSON: Sure. Thank you.  
12 Any questions? Thanks very much, sir.

13 MR. ANTOINE HACAULT: Mr. Chair, you  
14 had also asked a question of Mr. Zetariuk, which he  
15 said he didn't have the answer to.

16 In the interim rate proceeding, there  
17 was a -- an Exhibit MIPUG-4, which answered your  
18 question.

19 THE CHAIRPERSON: Okay.

20 MR. ANTOINE HACAULT: I don't know if  
21 we can -- if there is an interest of the Board, we  
22 could undertake to update that Undertaking, which had  
23 been made, to a very similar question --

24 THE CHAIRPERSON: Okay.

25 MR. ANTOINE HACAULT: -- that had been



1 asked.

2 THE CHAIRPERSON: Yeah. That would be  
3 -- that would be helpful. Okay. Thank you.

4 So, now, I guess, we'll go to  
5 representatives of TransCanada Energy, who I -- who I  
6 understand are virtual? No? They're here? Oh. Oh,  
7 gentlemen. Okay. Sorry. The list -- no, it says  
8 here in person. Sorry. Okay.

9 MR. RICK ZETARIUK: Just for  
10 information, the exhibit that Mr. Antoine Hacault was  
11 referring to is slide 7 of the presentation that was  
12 delivered at the interim rate hearing.

13 THE CHAIRPERSON: Sorry. At the which  
14 -- at the?

15 MR. RICK ZETARIUK: Slide 7.

16 THE CHAIRPERSON: At which hearing?

17 MR. RICK ZETARIUK: At the interim  
18 rate.

19 THE CHAIRPERSON: At the interim rate.  
20 Yeah. Yep. Okay.

21

22 CHRISTOPHER HOST, Affirmed

23 JUSTIN CHAN, Affirmed

24

25 MR. CHRISTOPHER HOST: Good morning,

1 everyone. Thank you for taking an audience with us.  
2 Myself, I'm Christopher Host, representing TC Energy.  
3 I'm the Engineering Manager and we're representing  
4 Liquids Pipelines, specifically.

5 My colleague here, Justin Chan, he's  
6 the Technical Services Manager.

7 Specifically, today, we'll be talking  
8 more about the reliability side of Manitoba Hydro and  
9 how that affects our system and operations. Any other  
10 commercial questions we'll have to take back to our  
11 team. So, next slide.

12 So, we're going to start with a bit of  
13 an overview of our system. So, TC Energy Liquids  
14 Pipeline has been around for about 13 -- in operation  
15 for about 13 years.

16 It runs from Hardesty Terminal in  
17 Alberta. It runs all the way east, across to  
18 Manitoba, heads south through North Dakota, South  
19 Dakota, down to Cushing and Oklahoma, and down to the  
20 Gulf Coast.

21 We have around 50 pump stations along  
22 this whole line and around six (6) of those pump  
23 stations are located in Manitoba Hydro and it's  
24 transported around 3.6 billion barrels since 2010 and,  
25 on a daily basis, we transport anywhere between 500

1 and 600 thousand barrels a day. Slide, please.

2                   Yeah. So, I'm just going to do a bit  
3 of a -- an introduction on how oil is moved and  
4 transported along the system and the impact that  
5 reliability has.

6                   So, if you look at the chart here,  
7 along our x axis, is the direction or flow or  
8 distance, and, on the y axis is pressure, and every --  
9 it's a bit of a saw-tooth diagram. Every time you  
10 leave the discharge of a pump station and you start  
11 pushing out oil, you start losing pressure. You start  
12 losing pressure because of transient flow in the oil  
13 and you start losing pressure because of frictional  
14 losses on the pipe wall.

15                   So, as you move along, between pump  
16 station to pump station, you will see that pressure  
17 loss, and we have about 70 kilometres between  
18 individual pump stations.

19                   So, you can see that our pressure --  
20 suction pressure at each pump station is pretty  
21 critical. If we go below it -- an initial suction  
22 pressure, then the -- the pump station will trip. So,  
23 if we have lower pressures, we will, then, generally,  
24 have to have lower flow. So, for example, if you look  
25 at a hose, the longer the hose, the slower the flow

1 will come out of the end, which is why we have these  
2 pump stations along the pipeline route.

3                   So, why is Manitoba so crucial to us?  
4 We have six (6) pump stations in this area. There's -  
5 - there's some elevation gains in there which make  
6 them critical and any trip on a -- on a pump station  
7 could cause a line trip.

8                   So, for example, if we have an  
9 instantaneous outage from electrical service, that  
10 will mean that our whole pump station will be tripped.  
11 We will have lower suction discharge pressures, and we  
12 will have at least a 30-minute delay before we can get  
13 that pump station up and running.

14                   If it's one of our critical pump  
15 stations, of which we have two (2) out of the six (6)  
16 pump stations within Manitoba, it may full -- cause a  
17 full line shutdown, meaning that the whole line will  
18 have to be shut down, and that will be a minimum of  
19 two (2) hours before we can get that pipeline up and  
20 running. Next slide, please.

21                   MR. JUSTIN CHAN: All right. So, two  
22 (2) industry statistics that we -- we know measure  
23 utility reliability are SAIDI and SAIFI. SAIDI refers  
24 to the duration index, SAIFI refers to the frequency  
25 index. When you study both of these numbers, the

1 lower the number the better.

2                   So, the shorter the duration the  
3 interruption the better and the less frequent, the  
4 better. When we look at the published data from the  
5 Strategic Assessment Plan and the Generic Rate  
6 Application, we can see for the T-SAIDI and T-SAIFI,  
7 the actual experienced reliability was worse than what  
8 was targeted.

9                   What this does for Keystone is it  
10 diminishes our ability to be reliable as a pipeline  
11 operator as well. And one (1) specific thing to note  
12 here is, reliability is important as measured by these  
13 statistics, but as defined by EEE (phonetic),  
14 interruptions are only measured if they're lasting  
15 longer than five (5) minutes.

16                   For us, as an industrial user, as  
17 opposed to utility outages or interruptions in the  
18 seconds range matter to us. And in the next slide I'd  
19 like to show you how.

20                   So, this graph here shows where  
21 Manitoba Hydro ranks in terms of magnitude of impact  
22 to our operations. On the left, Y-axis there, you can  
23 see it's equivalent hours. We can't disclose how  
24 Manitoba Hydro interruptions diminish our ability to  
25 flow oil, but we've converted that to equivalent

1 hours.

2                   So, on the basis of hours and frequency  
3 of events, outages related to Manitoba Hydro's  
4 declining performance has resulted in more downtime  
5 and longer duration of downtime than any other  
6 provider on the Keystone system.

7                   So, this represents all utilities  
8 ranging from Alberta all the way through the US south.  
9 And I want to highlight three (3) things that this  
10 does for us. The first is, this impacts our ability  
11 to deliver oil to our customers on time and in the  
12 volume that we want.

13                   Secondly, it's -- it's an operational  
14 challenge. There's a controller in Calgary who has to  
15 manage all of these outages. So, for instance, if a  
16 pump station trips in Manitoba, he has to adjust and  
17 lower pump speeds all the way across Canada to try to  
18 manage this.

19                   As Chris mentioned, due to Manitoba's  
20 position in the pipeline, and the hydraulic  
21 criticality of these pump stations, there's a high  
22 likelihood that a single station that trips as a rela  
23 -- result of the Utility are multiple, will shut down  
24 the entire pipeline.

25                   And that -- that takes two (2) hours to

1 restart and if it's a single station, it might take an  
2 hour to restart.

3                   And lastly, safety is paramount for TC.  
4 One (1) of the challenges with having pump stations  
5 trip is that a technician has to be called out and  
6 drive to site. This could be after hours and it could  
7 be during adverse weather conditions. So, we want to  
8 try to avoid these as much as possible. Thanks. Next  
9 slide.

10                   So, if we take out this data and purely  
11 look at reliability with weather removed, we can see  
12 that Manitoba Hydro's reliability is still the largest  
13 impact to our Keystone operation relative to other  
14 providers along this system.

15                   The grey bars are American utility  
16 providers and the light blue are other Canadian  
17 utility providers. So, when we look at similar  
18 jurisdictions, we still experience high levels of  
19 unreliability. Next slide, please.

20                   And when we look purely on weather  
21 basis, we can see Manitoba Hydro ranks the -- has the  
22 far -- fourth largest impact relative to other  
23 providers across Keystone, including American  
24 providers.

25                   And in Canada it's the second -- second

1 largest impact to us.

2                   We recognize weather; it varies from  
3 year to year and it could be unpredictable. But one  
4 (1) thing we note, that is, since we're -- we have 66  
5 kV transmission lines feeding our substations,  
6 compared to other jurisdictions where we might have  
7 higher voltages, the unreliability we experience is  
8 shown here.

9                   So, with that, I'll turn it over to  
10 Chris to close us out.

11                   MR. CHRISTOPHER HOST: So, if you look  
12 at the -- Manitoba Hydro's General Rate Application  
13 excerpt, it's basically saying that the system is  
14 becoming more aging and the overall conditions begin  
15 to degrade.

16                   So, what impact does that have on us,  
17 it means that it's our ability to perform and be  
18 reliable for our customers is also starting to be  
19 impacted by that.

20                   So, what are we asking for? We're  
21 asking for funds to be prioritized and allocated to  
22 increase the reliability across the system. This  
23 degradation and reliability has had a knock-on effect  
24 to our business and it's quite significant, because it  
25 effects not just one (1) single area, but can affect a



1 whole line from Alberta all the way down to -- to the  
2 Gulf coast.

3                   And as counterpart, and as you provide,  
4 is we also want to provide maximum reliability to our  
5 customers, similar to Manihy -- Manitoba Hydro wanting  
6 to do for theirs, and so we're looking to partner with  
7 this to see if there's opportunities where we can put  
8 our engineering technical minds together to find  
9 opportunities to make the system more reliable.

10                   What might seem like a very small  
11 outage for an instantaneous second will actually cause  
12 some of these longer more sustained issues along the  
13 whole pipeline. Thank you. So, we're open for twenty  
14 (20) questions now.

15

16                   (BRIEF PAUSE)

17

18                   VICE CHAIR KAPITANY: Okay. Thank you  
19 for the presentation. Sorry, and I'm -- I'm not -- I  
20 didn't catch which slide number it was, but there was  
21 a reference on one, two targets and it was noted on  
22 the bottom that it came out of the Manitoba Hydro's  
23 Strategic Asset Management Plan.

24                   I appreciate you weren't here yesterday  
25 and the CEO who was here yesterday isn't here today,

1 so we don't have everybody in the room. But I did ask  
2 about KPIs on the customer on the -- like, there was a  
3 discussion of the degradation and customer survey  
4 results and the outage times I believe was what we  
5 were talking about yesterday.

6 And I -- I just specifically asked what  
7 KPIs were being developed. And I -- my -- my -- I'm  
8 not reading this word for word. My interpretation of  
9 the answer was it was being discussed with the  
10 customers.

11 So, can you tell me just from this  
12 slide, and the comparison between the SAIDI/SAIFI  
13 target versus actual? Are you having those  
14 discussions? Are you comfortable with the targets?  
15 Do you think the targets need revision or are they  
16 like okay as is and that's not the issue that you're  
17 concerned about?

18 MR. JUSTIN CHAN: Yeah, we're -- we  
19 haven't had recent discussions with Manitoba Hydro,  
20 but we plan to resume them this year and especially on  
21 an engineering-to-engineering conversation. We will  
22 be having those, so.

23 Yeah, we weren't too fixated on -- on  
24 the targets, but rather to work together to explain  
25 how it influences Keystone.

1 (BRIEF PAUSE)

2

3 THE CHAIRPERSON: Ms. Kapitany...?

4 VICE CHAIR KAPITANY: This is maybe a  
5 followup question. You -- on your last slide I think  
6 you said that the engineers were working together to  
7 try and find solutions, so your engineers and the  
8 engineers at Manitoba Hydro?

9 So, you have a customer agent then that  
10 you would work with to -- so -- so they're well aware  
11 then of -- of the issues that you're facing and the  
12 impact on your business?

13 MR. CHRISTOPHER HOST: So, I'd say  
14 that where we're focussing at the moment is more on  
15 the reactive. When things happen, how do we get the  
16 system back up and running. I wouldn't say we've had  
17 conversations around increasing the long-term  
18 reliability and stability of the system, and that's  
19 where we want to go next.

20 VICE CHAIR KAPITANY: I see. Thank  
21 you.

22 BOARD MEMBER SY: Thank you. It's  
23 just more of a -- of a comment, and thank you for  
24 sharing this KPI. I think TC Energy is a -- is a  
25 perfect example of assisting the efficiency of

1 Manitoba Hydro, because you're across Canada and the  
2 US as well, and you touch different utilities, so that  
3 -- that's pretty good.

4 I guess my question to you or to  
5 Manitoba Hydro is: I'm assuming that you do have an  
6 account manager, somebody who is dealing with Manitoba  
7 Hydro.

8 And are you sharing, or have you been  
9 sharing this PPI with them, with Manitoba Hydro's  
10 (INDISCERNIBLE) and if so, what is the game plan? I  
11 mean it's good to say we are the best, we are the  
12 best, but at the end of the day you guys are more  
13 indicated to say yes you are or you are not.

14 And if you are not, what are you doing  
15 to be, you know, what you claim you are, as being the  
16 best?

17 MR. JUSTIN CHAN: Sure. Yeah. So,  
18 part of our plan this coming year is to collaborate  
19 with Manitoba Hydro a lot more. So, we haven't shared  
20 all these details with them yet.

21 In the past we've had conversations  
22 about reliability. But this data that you're seeing  
23 here today, we have to have more conversations.

24 MR. CHRISTOPHER HOST: But what we're  
25 really focussed on is actually trying to influence

1 them prioritizing reliability for their -- for their  
2 annual spending to be higher up and make sure that  
3 we're actually getting that utility grid stability  
4 going forward. That's what we really want to do.

5 THE CHAIRPERSON: So I've got a few  
6 questions. So I assume from your presentation that  
7 you support their rate increase.

8 Is that correct?

9 MR. CHRISTOPHER HOST: So we -- we're  
10 the engineers here. We -- we're not going to comment  
11 on anything to do with sort of rates, tariffs, or  
12 tolls. We're going to particularly talk about  
13 reliability and the engineering technical side.

14 THE CHAIRPERSON: Okay, but I note  
15 that you want increased budget capital and operating  
16 budgets.

17 MR. CHRISTOPHER HOST: I didn't say  
18 that. I said prioritized. We all have to live within  
19 our means --

20 THE CHAIRPERSON: Okay.

21 MR. CHRISTOPHER HOST: -- and we all  
22 have to spend money, and we're looking for reliability  
23 to be prioritized above other things. So that wasn't  
24 what we were saying.

25 THE CHAIRPERSON: Okay. So when you

1 have these outages, how do you find out the reason for  
2 the outages? I -- I know that you make adjustments  
3 internally --

4 MR. JUSTIN CHAN: Yeah.

5 THE CHAIRPERSON: -- but is it that  
6 Manitoba Hydro tells you the reason for the outages or  
7 what's the conversation?

8 MR. JUSTIN CHAN: So the data I  
9 presented here today from 2020 to 2022, for the 2020  
10 and 2021 data sets, those would have been confirmed  
11 with Manitoba Hydro. So my electrical engineer would  
12 talk to the Manitoba Hydro engineer and they would  
13 check is this weather, what was the root cause, and  
14 have those conversations.

15 For 2022, we still have to look through  
16 them. We also have our control room logs which we can  
17 look in to see if there was weather events -- for  
18 example, an ice storm or snow storm in the area -- and  
19 we parse through event by event and try to find out  
20 what happened.

21 THE CHAIRPERSON: Right, but if it's -  
22 - if it's non-weather --

23 MR. JUSTIN CHAN: M-hm.

24 THE CHAIRPERSON: -- essentially,  
25 you're relying on Manitoba Hydro to say -- I mean,

1 you've got here degradation. This is your finding or  
2 them telling you?

3 MR. CHRISTOPHER HOST: That was --  
4 that was us. So that was from their excerpt from  
5 their -- that was directly from their --

6 THE CHAIRPERSON: Yeah.

7 MR. CHRISTOPHER HOST: -- website.

8 THE CHAIRPERSON: Okay.

9 MR. CHRISTOPHER HOST: I think what  
10 we're trying to illustrate here today is that I don't  
11 think Manitoba Hydro captures outages less than five  
12 (5) minutes, and we're saying that outages of up to  
13 seconds can trip our stations and actually cause them  
14 to be down for half an hour to multiple hours.

15 So, yeah, that's what we -- we kept  
16 that frequency on --

17 THE CHAIRPERSON: Right.

18 MR. CHRISTOPHER HOST: -- on that  
19 data.

20 THE CHAIRPERSON: But it sounds like  
21 you're -- and I'm not saying this negatively, but it  
22 sounds like you're into reactive mode if there's an  
23 outage in that you made the comment about there  
24 haven't been discussions on long-term reliability.

25 Do you have any idea when those

1 discussions would occur? Who triggers the  
2 discussions? Is it you proposing to them? Are you  
3 waiting for them to propose, or is it you could  
4 potentially be in reactive mode for the near future?

5 MR. CHRISTOPHER HOST: So for us, we  
6 have been reactive to this stage. The importance of  
7 reliability for sure from Manitoba Hydro and for TC  
8 Energy is -- is very high, and the impact is very  
9 high.

10 So our next steps ought to be trying to  
11 come to the table and have more conversations around  
12 how we can have better reliability on the system.

13 THE CHAIRPERSON: Right, but --

14 MR. CHRISTOPHER HOST: Has yet -- to  
15 answer your question, has yet to happen. Will be our  
16 next steps, and we --

17 THE CHAIRPERSON: Okay, but is it --

18 MR. CHRISTOPHER HOST: -- we can  
19 (INDISCERNIBLE) for that.

20 THE CHAIRPERSON: -- next steps that  
21 you anticipate this year? It is this year?

22 MR. CHRISTOPHER HOST: Right.

23 THE CHAIRPERSON: Okay. That's great.  
24 Thank you very much. Thank you. We'll -- gentlemen,  
25 thank you for the presentation.



1 MR. CHRISTOPHER HOST: Yeah. Thank  
2 everyone for your time.

3 MR. JUSTIN CHAN: Thank you.

4 THE CHAIRPERSON: Okay. We'll move on  
5 next to, according to my list, a virtual presentation  
6 for Maple Leaf.

7

8

9 MORGAN CURRAN-BLANEY, Affirmed

10

11 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
12 Okay. Well, thank you very much for -- for allowing  
13 virtual presentations. It's much appreciated for  
14 those of us out of province.

15 I would like to present on behalf of  
16 Maple Leaf Foods today. If we could go to the next  
17 slide.

18 So just to give some context around the  
19 importance of the Province of Manitoba to Maple Leaf  
20 Foods, we have significant assets and -- and  
21 investments and have made investments in -- in the  
22 province.

23 On the agricultural operations, the  
24 majority of our farms and feed mills reside in  
25 Manitoba. We also have the largest primary processing

1 plant in Brandon, Manitoba, which you can see pictured  
2 here.

3                   And most recently we've made a large  
4 capital investment to expand our pre-cooked bacon  
5 processing line in the Winnipeg plant, creating the  
6 largest bacon manufacturing facility in Canada. All  
7 this to create approximately \$753 million in direct  
8 and \$1.2 billion in indirect benefits to the province.

9                   So as much as Maple Leaf is -- is  
10 critical to -- to the Province of Manitoba, Manitoba  
11 is critical to the success of Maple Leaf. We are very  
12 much intertwined. Next slide, please.

13                   Today I'd like to focus on the fresh  
14 pork side of the business. We operate in -- in a  
15 global commodity free market industry. The pricing of  
16 our meat is based off USDA market indexes. We create  
17 value in our -- in our business by converting cuts  
18 from their bone-in states to value-add finished goods  
19 either through additional trimming or usually we're  
20 making a boneless product and -- and portioning.

21                   Manitoba, the -- the Province of  
22 Manitoba, produces some -- some of the highest quality  
23 pork for the Japanese chilled pork industry. This is  
24 a very labour-intensive and energy-intensive product  
25 requiring very strict cooling protocols and -- and

1 programs to be put in place. Next slide.

2                   So just to give you a quick idea of --  
3 of the process through the -- the Brandon plant, today  
4 we process approximately fifteen thousand (15,000)  
5 pigs a day with about two thousand (2,000) people.

6                   We receive pigs through our -- our  
7 barn, harvest them through our front-end process, run  
8 them through our evisceration lines. Then we have a  
9 blast chill, and then they sit in the coolers for  
10 approximately -- oh, it's a -- it's a full day, so  
11 anywhere from sixteen (16) to eighteen (18) hours.

12                   And then they hit our cut floor where  
13 we cut them up into -- into the pieces, box them, and  
14 -- and send them out in our shipping -- into our  
15 shipping dock. Next slide, please.

16                   So I really want to focus today  
17 because, as an industry, we're facing unprecedented  
18 headwinds, and -- and I think it's -- it's important  
19 to note this. The impacts are real, and -- and we're  
20 starting to see the financial pressures leading to  
21 plant closures and consolidations.

22                   And -- and I think I've put just the --  
23 the few recent snapshots of -- of either some of the  
24 financial results that we've seen from our North  
25 American competitors, as well as some of the

1 casualties from -- from some of our North American  
2 competitors.

3                   And I think it's really important to  
4 note the companies on this slide are not small  
5 players. These are -- are in many cases equal or  
6 larger than Maple Leaf Foods, and -- and we're not  
7 immune to the issues that are facing us in -- in the  
8 industry.

9                   And our largest issue is the elevated  
10 feed costs which is driving up the price of hogs. If  
11 you go to the next slide, please.

12                   So this -- this graph best demonstrates  
13 us, what we're experiencing. And you can see the blue  
14 line is the cost of -- of producing a -- a hog. The  
15 red line is the value of the cuts, and -- and the --  
16 the black lines are what they call a packer margin.

17                   You can see, starting late last year,  
18 these lines inverted. We -- we saw a spike in the --  
19 the costs of the hog related to grain prices in early  
20 January. That has not come down. The value of meat  
21 has, and -- and we have seen this continue all the way  
22 into the first quarter.

23                   So this is the -- the challenge that  
24 we're facing, and it's -- it's market driven. It's  
25 not following historical trends, and it's lasting much

1 longer than it -- it has when it has inverted in the  
2 past. Next slide, please.

3                   When I look at our own business and --  
4 and our own fresh pork, Hydro's one of our highest  
5 utility costs in the Brandon plant. It's used to  
6 power equipment but, most importantly, our  
7 refrigeration of the plant. In fact, the snap chill  
8 alone represents one-third of our hydro use. This is  
9 not something that we can modulate or throttle back on  
10 and off. This is something that is an on -- always on  
11 position for our product that we produce.

12                   One (1) of the few remaining benefits  
13 that we have left as being located in Manitoba is --  
14 is a reliable source of electricity at a reasonable  
15 rate. This is an advantage we can't afford to lose.  
16 Next slide, please.

17                   And as I mentioned before, so the --  
18 the impacts that we would see with rate increases, we  
19 -- we operate in a commodity-based market, and  
20 incremental costs we are not easily able to pass on if  
21 we are able to pass them on at all.

22                   Canadian pork is viewed as a high-  
23 quality product internationally. So -- so, we're at  
24 an inflection point though today where we're not able  
25 to pass on the -- a price increase. And that -- that

1 price quality equation is -- we're starting to see  
2 tradeoffs being made, and it's impacting the volume of  
3 what we're exporting.

4                   And this is not just a Maple Leaf  
5 issue, this is a Canadian pork issue. As zero-based  
6 budgeted company, any additional costs we must find  
7 within the system, and in the short-term, that's comes  
8 at discretionary spends. In the longer term, it -- it  
9 looks to fill the gap with alternate sources of power  
10 or looking at how do we reduce the load through the --  
11 the Manitoba facilities and where else can we do that  
12 cheaper. The next slide, please. Thank you.

13                   So, historically, we've -- we've had a  
14 very strong relationship with Manitoba Hydro. And  
15 again, we understand that many of the pressures facing  
16 our business are likely the same that are facing  
17 Manitoba Hydro and a reasonable rate increase may be  
18 needed to produce a reliable source of electricity.

19                   But I -- I do want to put -- the caveat  
20 is we need to make sure that we take in and -- and  
21 consider the factors and the pressures of the  
22 ratepayers as well when we do this. And we're  
23 counting on the PUB process to do as such.

24                   And -- and we've had a great  
25 partnership with Manitoba Hydro in the past. I expect

1 that to continue, but -- but we are really -- we're an  
2 industry that is under extreme pressure right now, and  
3 -- and I would ask that that be considered when we are  
4 looking at rate increases.

5                   So, thank you very much. I -- I do  
6 appreciate the opportunity to present our concerns to  
7 the PUB.

8                   THE CHAIRPERSON: Thank you, sir.  
9 Questions? Ms. Kapitany...?

10                   VICE CHAIR KAPITANY: Thanks for the  
11 presentation. Are you able to take advantage of  
12 program -- of the Curtailable Rate Program at Maple  
13 Leaf?

14                   MR. MORGAN CURRAN-BLANEY (by TEAMS):  
15 Sorry, the -- the --

16                   VICE-CHAIR KAPITANY: The Curtailable  
17 Rate Program.

18                   MR. MORGAN CURRAN-BLANEY (by TEAMS):  
19 I'm -- I'm not sure if we've been able to take  
20 advantage of that. I know in Brandon that we have not  
21 been able to take advantage of that.

22                   VICE CHAIR KAPITANY: And what about  
23 time of use? Would that be of any use to your  
24 industry, to your plant?

25                   MR. MORGAN CURRAN-BLANEY (by TEAMS):

1 It's very difficult, time of use, and -- and it would  
2 -- it would depend on -- on when that -- that cycle  
3 happens.

4 We're -- most of our facilities are  
5 twenty-four (24) hour --

6 VICE-CHAIR KAPITANY: Twenty-four (24)  
7 hours. Okay.

8 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
9 -- facilities, and again, refrigeration being the  
10 biggest load. It's an always on source.

11 VICE CHAIR KAPITANY: Okay. Okay.  
12 Thank you.

13 BOARD MEMBER BASS: Is there still a  
14 hot processing plant operating in Neepawa, Manitoba?

15 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
16 There is. There is. That's HyLife --

17 BOARD MEMBER BASS: Is that part of  
18 HyLife?

19 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
20 Yes.

21 BOARD MEMBER BASS: Okay. And --  
22 well, I just had two (2) other questions with respect  
23 to your slides. On slide 8, you talk about employee  
24 head count.

25 What's the total workforce in the



1 Brandon plant?

2 MR. MORGAN CURRAN-BLANEY (by TEAMS):

3 The total workforce in the Brandon plant is  
4 approximately two thousand (2,000) people right now,  
5 and it fluctuates depending on -- on the hog volume.  
6 It can go as high as twenty-three hundred (2,300)  
7 people.

8 BOARD MEMBER BASS: And the next  
9 slide, in the third bullet, you talk about need for a  
10 reasonable increase.

11 What do you consider to be a reasonable  
12 increase?

13 MR. MORGAN CURRAN-BLANEY (by TEAMS):

14 I think we've looked at the historical patterns. And  
15 again, I look at reasonable as -- as it has to factor  
16 in all of -- all of the forces that are impacting  
17 them.

18 I mean, having -- having really cheap  
19 hydro, it doesn't -- doesn't make a difference if --  
20 you know, to -- to the TC Energy presentation before,  
21 if -- if there's a whole bunch of -- of service  
22 interruptions.

23 So -- so, I do think it has to factor  
24 in, you know, when I look at our -- our pattern rate  
25 increases in the past. And I think that does follow a

1 reasonable rate increase. But -- but again, I would -  
2 - I would say it factors in the -- the -- what -- what  
3 is facing the industry today, but is also what is  
4 facing ratepayers today.

5 BOARD MEMBER BASS: So understandably,  
6 I take it you don't want to name a number?

7 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
8 No. I -- I will leave that to -- to the PUB to  
9 direct.

10 BOARD MEMBER BASS: Thanks.

11 BOARD MEMBER BELLRINGER: Thanks for  
12 that. In the event of an interruption, what do you  
13 do?

14 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
15 It -- it causes significant challenges for us. It --  
16 it shuts down our plant. So, you know, immediately we  
17 have anywhere -- on a shift -- we have about a  
18 thousand people a shift, and it depends on when it  
19 happens. But if it's during the shift, it'll -- it'll  
20 stop everything, and we have to restart and bring our  
21 systems back online.

22 From a refrigeration standpoint, we're  
23 able to shut our coolers and -- and shut our freezes,  
24 and -- and the insulation can -- can withstand, you  
25 know, a few hours without having any product impact.

1                   Our -- our biggest challenge is from --  
2 from the stunning area all the way to the evisceration  
3 area, there's -- there's about -- anywhere from two  
4 hundred (200) to two hundred and fifty (250) pigs.  
5 And -- and depending on the outage, we can -- we can  
6 have all of those or some of those sent into  
7 rendering, and -- and at zero value of which we paid  
8 for. And we've had that happen in the past.

9

10   (BRIEF PAUSE)

11

12                   BOARD MEMBER SY:    Yeah, that's for --  
13 for the presentation. You indicated that your  
14 Manitoba Hydro cost is \$5.2 million. Is that correct?

15                   MR. MORGAN CURRAN-BLANEY (by TEAMS):

16 Yes, in -- in --

17                   BOARD MEMBER SY:    Okay.

18                   MR. MORGAN CURRAN-BLANEY (by TEAMS):

19 -- in the Brandon plant.

20                   BOARD MEMBER SY:    In the Brandon  
21 plant, yeah. So, I hope I'm not asking too much here,  
22 but what percentage of the total cost is that?

23                   MR. MORGAN CURRAN-BLANEY (by TEAMS):

24 In the Brandon plant?

25                   BOARD MEMBER SY:    Yeah, yeah, yeah.

1 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
2 From -- from a utility perspective, it's our highest.  
3 From -- from an overall overhead perspective, I -- I'd  
4 have to say that that would be confidential  
5 information.

6 BOARD MEMBER SY: Okay. Okay. That's  
7 what I thought. Okay. Thanks.

8 THE CHAIRPERSON: Sir, how many  
9 disruptions do you experience in a year?

10 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
11 For us, they -- they've been -- they've been few, and  
12 it's most weather related. So -- so, those -- we have  
13 -- we do have a dedicated line into the plant, and --  
14 and that I think has -- has helped reduce the number  
15 of interruptions that we've had.

16 THE CHAIRPERSON: Okay. During your  
17 presentation you made the comment that, if the -- if  
18 the rates go too high, you'd have to look at doing it  
19 somewhere cheaper?

20 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
21 Yes. And -- and so, to clarify that -- that point,  
22 it's -- it's what kind of work -- what else -- where  
23 else can we go.

24 You know, obviously, the -- the primary  
25 processing side, it's difficult to do too far away

1 from -- from where the hogs are grown, which is in  
2 Manitoba.

3                   That said, you know, it's -- it's a lot  
4 of the further conversion, the value-added type work,  
5 and we've seen that in the US. A lot of the US  
6 facilities will send, for example, all of their hams  
7 down to Mexico. We -- we have some competitors that  
8 will do that. And they take advantage of -- of lower  
9 -- lower costs to do -- produce a product down in  
10 Mexico, and then ship it back up into the United  
11 States.

12                   We don't do that. We send all of our  
13 hams down to Winnipeg, and we -- we debone them there.

14                   THE CHAIRPERSON: Okay. In terms of  
15 your planning cycle when you're projecting out, you  
16 know, costs and revenues, what -- what sort of go-  
17 forward term would it be? How long -- how long do you  
18 project ahead?

19                   MR. MORGAN CURRAN-BLANEY (by TEAMS):  
20 So -- so, from a -- I'm not sure I'm answering this  
21 correctly, but I'll give it a shot. From a budgeting  
22 perspective, we -- we -- we're looking at --

23                   THE CHAIRPERSON: You -- you did much  
24 better than I did.

25                   MR. MORGAN CURRAN-BLANEY (by TEAMS):

1 Okay. So -- so, we're looking -- we do an annual  
2 budgeting process, but we also have a five (5) year  
3 strategic view.

4 THE CHAIRPERSON: Okay. So, as part  
5 of your five (5) year strategic view and you're  
6 looking at costs, I assume you're looking at labour  
7 costs and all sorts of -- all sorts of different  
8 costs.

9 What do you -- what do you put in for  
10 Manitoba, the increase in rates, if any, for Manitoba  
11 Hydro?

12 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
13 So -- so, from both a budgeting perspective and -- and  
14 a strategic view, we will take -- we usually will  
15 operate on a five (5) year average.

16 THE CHAIRPERSON: About a five (5)  
17 year average. Okay. Thank you. That's very helpful.

18 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
19 And again, with the caveat of any anomalies, you know,  
20 we'll --

21 THE CHAIRPERSON: Sure.

22 MR. MORGAN CURRAN-BLANEY (by TEAMS):  
23 -- we'll look at, but that's historically how we've  
24 looked at -- at utilities in general.

25 THE CHAIRPERSON: Yeah. That's --

1 thank you. Thank you very much, sir. That was --  
2 that was very helpful.

3 MR. MORGAN CURRAN-BLANEY (by TEAMS):

4 Okay. Thank you.

5 THE CHAIRPERSON: So, Rachel, we have,  
6 I guess, I understand virtual, Canadian Kraft Paper.

7

8 (BRIEF PAUSE)

9

10 DAN HOTEL, Affirmed

11

12 MR. DAN HOTEL (by TEAMS): Good  
13 morning and thanks for having me. I'll give a little  
14 presentation about what our business is up here in The  
15 Pas and how Hydro impacts our operation. So if we  
16 could go to the first slide.

17 So I'd like to respectfully acknowledge  
18 that our operation is located on Treaty 5 territory,  
19 traditional lands of the Swampy Cree, Saulteaux, and  
20 Metis Nations and its people.

21 So we're a leading manufacturer of  
22 unbleached high performance sack kraft paper. We've  
23 been located and operating here in The Pas since 1971.

24 Our annual capacity is 165,000 prime  
25 tonnes of paper per year. We employ three hundred and

1 fifty (350) directly. And we also have a partnership,  
2 a fifty-fifty (50-50) partnership, with the Nekote.  
3 And that's the Nisokapawino Forestry Management  
4 Corporation. And that's part of our hundred and  
5 eighteen (118) woodlands contractors. Roughly  
6 seventy-four (74) are Indigenous.

7                   So we're a manufacturer of grade 'A'  
8 kraft paper. A strong sustainably managed northern  
9 Canadian fibre, results in top tier product offerings.

10                   We have our own sales team, Canadian  
11 Kraft Sales and Marketing. They're located in  
12 Kelowna. And we're a highly regarded technical service  
13 and product development. We have our own mill-based  
14 technical customer service. We have a full range of  
15 paper testing and services with our onsite testing and  
16 research lab. We have a network of leading Forestry  
17 and paper industry academics. And our product  
18 development team and advisory services are offered to  
19 our customers.

20                   And then, for logistics, we try to  
21 optimally use rail, truck, and ocean freights. Next  
22 slide.

23                   So for diversion equity and inclusion,  
24 CKP strives to create a diverse organization that's  
25 reflective of our surrounding communities where



1 culture, ethnicity, race, gender, orientation,  
2 religion, age, education, and varied backgrounds are  
3 respected and valued.

4           We're committed to promoting a fair and  
5 equitable work environment where all employees are  
6 valued and provide opportunities to grow within our  
7 organization.

8           We aim to create an inclusive work  
9 environment that fosters creativity, innovation,  
10 promoting engagement through awareness, and  
11 inclusivity.

12           We have an environmental responsibility  
13 as a business. We're committed at all levels of the  
14 organization to protection of the environment for the  
15 benefit of the present and future generations.

16 Through internal monitoring and external audits, we  
17 continually assess our environmental performance and  
18 take necessary corrective actions.

19           We adhere to regulatory and compliance  
20 standards and legislations, and also any voluntary  
21 commitments. We continually manage operations to  
22 minimize pollution, waste, and ensure environmental  
23 commitment. And we use sustainable forest management  
24 through our sustainable forest management policy.

25           So to make our paper, what makes it

1 world class, is the strong northern fibres up here in  
2 northern Manitoba. It's the slow-growing northern  
3 boreal forest provide long, slender, flexible fibres  
4 that have exceptionally high strength. And further,  
5 high consistency refining results in high tensile  
6 strength development.

7                   This is a line of our products we make.  
8 I won't go into too much detail. But we make regular  
9 unbleached paper, and also our extensible paper, which  
10 has certain stretch and porosity to it. And also wet  
11 strength paper for food products that have some  
12 moisture.

13                   About 50 percent of our paper ends up  
14 becoming cement bags. So that stretch and porosity  
15 allows them to fill it rapidly, keeping the dust under  
16 control. Next slide.

17                   So we're recognize world-wide for our  
18 strength, consistent quality, and excellent customer  
19 service. Our focus remains on the development,  
20 production of world-class industry leading kraft paper  
21 products.

22                   About 80 percent of our product is  
23 shipped within North America. And the remaining 20  
24 percent to other areas of the world.

25                   We're ISO certified, 9001 for quality

1 management; 14001 for environmental CSAZ809  
2 sustainable forest management; PEFC chain of custody;  
3 ISEGA certification of food compliance packaging; and  
4 CME safe work certified. We're also a member of FPAC  
5 (phonetic) and, as of a year ago, we're also Made Safe  
6 certified in Manitoba.

7                   So our economic impact to Manitoba is  
8 about \$120 million; ninety-two (92) of that in the  
9 north; twenty-eight (28) in the south.

10                   We also have impacts of 20 million in  
11 Saskatchewan and seventy-eight (78) in other areas of  
12 the country.

13                   So a high level overview of our  
14 process. We're very energy intensive with the  
15 consumption being in the form of electricity and  
16 steam. We have a chemical recovery boiler that burns  
17 the black liquor. Our power boiler is a biomass  
18 boiler. It burns hot fuel, which is the bark, limbs,  
19 saw mill residuals.

20                   We have our own 28-MVA back pressure  
21 turbine. It lowers the steam pressure to the  
22 operational requirements while extracting the energy  
23 to produce electrical power.

24                   So the steam is used by our pulp mill  
25 to cook the wood chips. It's used for the paper mill

1 on the paper machine for drying the paper. And we use  
2 it in the steam plant for our multi-effect evaporators  
3 for concentrating that black liquor for the boiler.

4 Then our large users of electricity are  
5 the paper machine drives, the pulp washers, our  
6 boiler, auxiliaries, and air compressors. And then  
7 our fibre refiners, which include a 10-megawatt high  
8 consistency refiner.

9 So our longstanding relationship and  
10 service from Manitoba Hydro is important to the  
11 success of our business. And these are the key  
12 priorities that affect our mill the most.

13 For reliability, we are a 24/7  
14 operation and any interruption to the power supply is  
15 an interruption to paper production and lost profit.

16 Even a momentary interruption would  
17 require hours to restart the production and the losses  
18 would easily exceed \$100,000 per occurrence.

19 We do have our own turbine, but it's  
20 not designed to carry the plant load. And in the --  
21 in a Manitoba Hydro outage, it also trips offline,  
22 resulting in a blackout to the plant.

23 In the winter months, it's even more  
24 important. We need to get things going so we don't  
25 start freezing up.

1                   For our customer service, we've always  
2 had good customer service with Manitoba Hydro; that  
3 needs to continue. We usually get timely responses to  
4 billing inquiries and they have worked with us before  
5 in providing information on new and green technologies  
6 as we strive to decarbonize our operations.

7                   As far as the rate structure, pulp and  
8 paper is a very competitive industry. Very low margin  
9 production. And any large changes to our service  
10 rates directly impacts our bottom line.

11                  And Canadian Kraft Paper, we are a  
12 disadvantaged mill compared to most other mills in the  
13 country. We have no access to natural gas, so most of  
14 our auxiliary fuel is bunker 'C'.

15                  And for the rate design, the  
16 alternative rate options, such as time of use, do not  
17 work for us. We have no flexibility in our operation  
18 to utilize them. Because our turbine is a back  
19 pressure for the processed steam, the electricity we  
20 generate from it is purely based on production.  
21 There's really no flexibility to increase or decrease.

22                  And the current demand model -- oh,  
23 sorry, just wanted to -- the current demand model is  
24 adequate for us. But it could be improved if there's  
25 concessions for short plan maintenance. We have had

1 times where we have a small oil leak on our turbine.  
2 And even to take it down for a couple hours to  
3 address, we end up having to pay the full demand peak  
4 for the month, which increases our costs by \$100,000  
5 usually per occurrence.

6 That's all I have, if anyone has any  
7 questions?

8 THE CHAIRPERSON: Ms. Kapitany...?

9 VICE CHAIR KAPITANY: Just on your  
10 slide where you had talked about your turbine. And  
11 so, you said that you have a turbine. If it trips,  
12 then there's a power outage in the plant.

13 I didn't quite understand the use of  
14 the turbine and then what you said afterwards about  
15 how it fits into your operation and how it relates to  
16 Manitoba Hydro.

17 MR. DAN HOTEL (by TEAMS): So it's --  
18 it's a back pressure turbine, so our boiler steam is  
19 750 psi and the turbine reduces it to one sixty-five  
20 (165) and sixty-five (65) pounds for use in the  
21 process.

22 So, any electricity we generate off  
23 of that, we do carry about half our plant load, just  
24 internally generated. But we don't control how much  
25 electricity it makes, it's -- it's just a function of

1 the steam demand of the plant.

2 And, on the other note, we're synced  
3 into Hydro, so when Hydro trips, the turbine trips  
4 off-line.

5 VICE CHAIR KAPITANY: Okay. And so  
6 you don't have any back-up source of power that would  
7 be reliable then?

8 MR. DAN HOTEL (by TEAMS): No, we --  
9 after an outage if it were to be a long duration, we  
10 can fire up parts. We can start up a boiler and run  
11 the turbine to keep parts of the plant warm, but it's  
12 not sized to actually run the -- the operation in full  
13 production.

14 VICE CHAIR KAPITANY: Thank you.

15 THE CHAIRPERSON: So, Mr. Sy...?

16 BOARD MEMBER SY: Yeah, thanks for  
17 sharing this presentation, really fast.

18 I guess the -- the -- I -- I'm just  
19 trying to understand the relationship that you and  
20 other MIPUG uses have with Manitoba Hydro.

21 When you sit down and make your case,  
22 you know, not, for example, not increase the rate or  
23 do you share all the information with Manitoba Hydro  
24 so they know exactly your case, or you're sort of  
25 trying to say this is confidential, I can't share this

1 information with you.

2                   Ans -- an example. I mean you talked  
3 about low marginal operation. How -- how -- how  
4 granular are you when you are sitting down with  
5 Manitoba Hydro to tell them that this is a low margin  
6 operation?

7                   MR. DAN HOTEL (by TEAMS): I don't  
8 have an exact answer to that. I don't know how  
9 specific we are with them at time. I'm fairly new to  
10 the role, so I -- I haven't sat down with Hydro that  
11 much for negotiations.

12                   THE CHAIRPERSON: How frequent are the  
13 disruptions?

14                   MR. DAN HOTEL (by TEAMS): It's been  
15 good for a while. Last summer there was definitely  
16 three (3) or four (4) complete plant outages due to  
17 weather.

18                   THE CHAIRPERSON: Okay.

19                   MR. DAN HOTEL (by TEAMS): As  
20 mentioned before, they were -- they were momentary,  
21 but same thing, even a couple second outage our -- our  
22 paper machine is twenty (20) feet wide, it's a  
23 football field long and the paper is moving at 30km an  
24 hour, so when you dump the power to all the drives,  
25 it's hours of clean-up.



1 Same thing in the pulp mill, they're  
2 moving fixed stock through the lines and a hard stop  
3 on the pumps, the lines become plugged. Even a  
4 momentary outage for us is five (5) to six (6) hours  
5 to get everything back to normal to begin production.

6 THE CHAIRPERSON: Okay. But if -- if  
7 the outage is caused by weather, is there anything  
8 that can be done?

9 MR. DAN HOTEL (by TEAMS): Not to my  
10 knowledge.

11 THE CHAIRPERSON: Yeah. You haven't  
12 put forward a position for the company on the rate  
13 request of Manitoba Hydro.

14 So, we're -- what -- the -- this  
15 hearing is to confirm a -- an interim rate of 3.6  
16 percent and then a rate of 2 percent starting  
17 September 1st and a further rate of 2 percent starting  
18 April 1st of next year.

19 Does the company have a position on the  
20 rate request?

21 MR. DAN HOTEL (by TEAMS): Not at this  
22 time.

23 THE CHAIRPERSON: Thank you, sir.  
24 That was -- that was very helpful. We appreciate your  
25 participation. We appreciate the participation of all

1 of the MIPUG members today.

2 We're going to adjourn for lunch.

3 Before we do it, if I could just direct a comment to  
4 Ms. Fernandes who's -- who actually learned how to  
5 type without looking at the keys.

6 There was a lot of information, a lot  
7 of evidence this morning. I'm not giving you  
8 direction, but Manitoba Hydro may wish to review this  
9 information and address it either during, you know,  
10 the rest of the hearing, or -- or in closing  
11 submission. It's up to you, but, you know there's a  
12 lot of information that came forward this morning.

13 MS. ODETTE FERNANDES: We've heard all  
14 the presentations this morning and we've started  
15 having discussions on how to --

16 THE CHAIRPERSON: Yeah. And I noticed  
17 how much you were typing.

18 So, okay. We appreciate it. We're  
19 going to adjourn until one o'clock for lunch. Thank  
20 you.

21

22 --- Upon recessing at 12:10 p.m.

23 --- Upon commencing at 1:02 p.m.

24

25 THE CHAIRPERSON: Ms. Fernandes, do

1 you -- would you like to introduce the panel?

2 MS. ODETTE FERNANDES: Thank you.

3 Good afternoon, Mr. Chairman, Madam Vice Chair, and  
4 Board members. We are excited to kick off the -- this  
5 GRA with our Export Hydrology and Drought Panel.

6 I thought I would actually allow the  
7 individual members of the panel to introduce  
8 themselves and provide you with a little bit of their  
9 background and what areas of the application they  
10 would be speaking to.

11

12 MANITOBA HYDRO EXPORT, DROUGHT, & HYDROLOGY PANEL

13

14 HAL TURNER, Affirmed

15 KEVIN GAWNE, Affirmed

16 CHERYL SANCLEMENTE, Affirmed

17 NIKHIL KARANWAL, Affirmed

18

19 THE CHAIRPERSON: Thank you. So, are  
20 we starting with Mr. Turner?

21

22 EXAMINATION-IN-CHIEF BY MS. FERNANDES:

23 MR. HAL TURNER: All right, I can do  
24 that. Thank you. And good afternoon, Mr. Chairman,  
25 Ms. Vice Chairman, and members of the Panel. My name

1 is Hal Turner, and I am Vice-President of asset  
2 planning and delivery. And I'm also a member of  
3 Manitoba Hydro's executive team.

4 I -- I'm a registered professional  
5 engineer in Manitoba. I hold a bachelors of science  
6 in mechanical engineering from the University of  
7 Manitoba. And I started at Manitoba Hydro in 1995.

8 Prior to my appointment as vice-  
9 president in November of 2021, I held a variety of  
10 positions within the Company and, most recently, I was  
11 the director of asset management. And this is my  
12 second time appearing on behalf of Manitoba Hydro at  
13 the GRA. Thank you.

14 MR. KEVIN GAWNE: Good afternoon,  
15 Board Chair, Chair -- Vice Chair, Board members, Board  
16 counsel and staff, Interveners and counsel, experts  
17 and members of the public. My name is Kevin Gawne.  
18 And I'm a registered professional engineer in  
19 Manitoba.

20 And I hold a masters of science in the  
21 areas -- areas of water resources and hydraulics. I  
22 have twenty-five (25) years of experience with  
23 Manitoba Hydro. And for the last thirteen (13) years,  
24 I've managed the energy operations planning  
25 department.

1                   In 2021 to 2022 time frame, I was  
2 manager of energy supply planning, which was a merged  
3 group consisting of energy operations planning and  
4 resource planning.

5                   I last appeared before this Board  
6 during the -- the 2021 interim rate application in  
7 December of 2021. My current responsibilities include  
8 overseeing the operation of Manitoba Hydro's major  
9 reservoirs and energy resources.

10                  I oversaw the preparation of our  
11 forecast of net export revenues for the test years and  
12 the balance of Manitoba Hydro's twenty (20) year  
13 financial scenario.

14                  I look forward to assisting the Board  
15 in matters related to reservoir and energy operations,  
16 supply planning, and this panel's contribution to  
17 forecasting of net export revenues.

18                  MS. CHERYL SANCLEMENTE:    Good  
19 afternoon, Mr. Chairman and members of the Panel. My  
20 name is Cheryl Sanclemente, and I hold the position of  
21 acting manager of the wholesale -- wholesale power  
22 trading department.

23                  I am a chartered professional  
24 accountant and I have a bachelor of commerce degree  
25 from the University of Manitoba. And I've worked at

1 Manitoba Hydro for twenty-five (25) years. I have  
2 worked in the wholesale power trading department since  
3 2002 in the (INDISCERNIBLE) day-ahead merchant and  
4 forward markets in Canada and the US.

5 For the last seventeen (17) years, I  
6 have managed the day-ahead desk and forward financial  
7 physical trading operations.

8 Currently, I lead the team of power  
9 trading professionals that optimize Manitoba Hydro's  
10 assets twenty-four (24) hours a day every day  
11 throughout the year.

12 As well, I manage the deliver of energy  
13 and capacity under our portfolio of long-term export  
14 contracts. I was part of the teams that navigated  
15 through the droughts of 2003/'04 and '21/'22 and  
16 Manitoba's entrance into the MISO day 1, day 2  
17 ancillary service markets, as well as those in  
18 Ontario, Alberta, and the southwest power pool.

19 In addition, I participated in the  
20 negotiations of several of our long-term export  
21 contracts. This is my first experience testifying on  
22 behalf of Manitoba Hydro in a regulatory hearing, and  
23 I'm here to assist the Board in topics related to  
24 energy trading, operations, and energy hedging. Thank  
25 you.

1 MR. NIKHIL KARANWAL: Good afternoon,  
2 Mr. Chairman and members of the Panel. My name is  
3 Nikhil Karanwal, and I hold the position of Director  
4 energy markets.

5 I'm a registered professional engineer  
6 with a masters of engineering and MBA from the  
7 University of Calgary.

8 Prior to my employment at Manitoba  
9 Hydro, my experience was in the private sector in  
10 other volatile commodities like oil gas, leading  
11 operations, business development, risk, and strategy.

12 I've led these functions both in Canada  
13 and internationally, including countries like the  
14 United States, Argentina, China, and Malaysia. My  
15 responsibilities include wholesale power trading,  
16 marketing, gas supply, and a strategy development for  
17 energy markets division.

18 I direct Manitoba Hydro's activities in  
19 both the Canadian and US wholesale gas and electricity  
20 markets, including the administration of its  
21 contractual relationship as a buyer and seller of  
22 electricity and natural gas in both the short and  
23 long-term time frames.

24 I've held the responsibilities for the  
25 past about two (2) years. This is my first experience

1 testifying on behalf of Manitoba Hydro in a regulatory  
2 hearing. Thank you.

3 MS. ODETTE FERNANDES: Thank you. Mr.  
4 Chairman, the CVs for this Panel have been filed and  
5 have been marked, I understand, as Hydro Exhibit 29.  
6 And for the record, I'm Odette Fernandes. I'm legal  
7 counsel for Manitoba Hydro. And seated directly  
8 behind me is Deanna Hiebert who will also be acting as  
9 legal counsel for this Panel.

10 Quickly, in terms of the back row,  
11 starting to my far right we have Phalguni Pathak,  
12 who's a power trading analytics section head. And we  
13 have Chris Guttormson, who's a day-ahead power trader  
14 in the wholesale power trading department.

15 Beside him is Kelly Bertholet, who's  
16 the market operations and access manager. Then we  
17 have Phil Slota, who's a hydrological engineer in the  
18 hydrology and climate section. And finally, we have  
19 Kelly Hunter. Oh, sorry, Kelly is before Mr. Slota.  
20 He's the senior market and resource -- resource  
21 engineering in the energy resource planning  
22 department.

23 I understand that Manitoba Hydro's  
24 direct evidence presentation was emailed out to the  
25 parties. And so, with leave, Mr. Chairman, I would



1 have -- ask that the Panel go through their direct  
2 presentation.

3 MR. HAL TURNER: Okay. Thank you. I  
4 forgot to mention, in asset planning delivery, our  
5 responsibilities include planning and delivering, and  
6 managing Manitoba Hydro's generation, transmission,  
7 distribution, and natural gas assets.

8 As well, we're responsible for  
9 delivering Manitoba Hydro's first integrated resource  
10 plan which will be out later this summer.

11 I'd now like to spend a few moments to  
12 provide the Board with some background information on  
13 the Manitoba Hydro system and an indication of the  
14 areas of the application this Panel is responsible  
15 for. Next slide, please. Thank you. Oh, no, sorry,  
16 back one. Thank you.

17 Unlike most American and Canadian  
18 utilities, Manitoba Hydro is a large hydroelectric  
19 utility with over 90 percent of our capacity coming  
20 from sixteen (16) generating stations. Most of our  
21 energy is generated in Northern Manitoba.

22 The most recent addition to our  
23 generating fleet is the Keeyask station which went  
24 into service over the last couple of years. Because  
25 we are a hydroelectric utility, our system is highly

1 affected by precipitation amounts and river flows  
2 across Western Canada and parts of Northwest Ontario,  
3 Minnesota, and North Dakota.

4 In normal weather river flows at our  
5 generating stations are more than enough to meet most  
6 of the province's electricity needs, and we have  
7 surplus available to export to other markets.

8 But what we must be able -- but we must  
9 be able to provide our customers' needs under abnormal  
10 weather conditions, such as extended drought or a  
11 winter polar vortex -- polar winter vortex, excuse me.

12 So, we plan accordingly such than when  
13 these abnormal events occur, we are prepared and  
14 emergency conditions are averted. Being prepared  
15 means managing the operation of the generation and  
16 reservoir system following well-established priorities  
17 and procedures consistent with industry standard  
18 practice.

19 With these in hand, we are always  
20 prepared to deal with whatever mother nature throws at  
21 us. This panel is responsible for forecasting expert  
22 revenues and generation and purchase power under the  
23 full range of possible river flows.

24 These areas are very significant to  
25 Manitoba Hydro's financial position. For example, in

1 the fiscal '22/'23 year, export revenues were forecast  
2 at \$1.28 billion, or 40 percent, of electric revenues  
3 while generation and purchase costs were forecast at  
4 220 million, or 8 percent, of electric expenses.

5           Manitoba Hydro refers to these items in  
6 aggregate as net export revenues. We provide our  
7 forecasts as inputs to Manitoba Hydro's financial  
8 forecast scenario.

9           I would like to note here that the  
10 PUB's expert advisor, Daymark, has reviewed our  
11 forecast included -- and concluded that they were  
12 reasonable.

13           In our testimony today we will provide  
14 you with updates on water and market conditions since  
15 we prepared the application last fall as these  
16 conditions influence net export revenues. At a high  
17 level, water conditions are normal for this time of  
18 year, but we want to caution you that it is too early  
19 to know with confidence what type of water year we  
20 will have.

21           We are comfortable saying we don't  
22 expect extreme drought or -- or extreme flood  
23 conditions. But the amount of rain we receive over  
24 the next ten (10) weeks across our drainage basin  
25 typically determines to a great extent what type of

1 water year we will have. However, as we saw in the  
2 fall of 2019, significant precipitation can happen  
3 throughout the year.

4 In the meantime, our best estimates of  
5 net export revenues for the two (2) test years are  
6 based on an analysis of a broad range of possible flow  
7 conditions. It won't be until well after the GRA  
8 hearing that we will be able to start to significantly  
9 reduce the uncertainty in our net export revenue  
10 forecast for this year.

11 In addition to the uncertainty in water  
12 supply, we also face significant uncertainty in the  
13 export market. The uncertainty is a double-edged  
14 sword.

15 If we have surplus energy and market  
16 prices increase, that would result in a favourable  
17 outcome. However, if we enter a period of low water  
18 and imports are required and market prices spike, that  
19 would not be a good thing.

20 Fortunately, for Manitoba Hydro's  
21 customers, in most years we have excess electricity  
22 available that can take advantage of market prices.

23 In addition to price uncertainty,  
24 Manitoba Hydro depends on the economic regulatory and  
25 political climate of the US. Uncertainty --

1 uncertainty in these areas adds to the challenge of  
2 predicting export revenues.

3           Our panel will speak in more detail  
4 about the US market and its evolution in response to  
5 the expected effects of decarbonization and the  
6 increased penetration of low cost renewables, such as  
7 wind and solar. In anticipation of these effects, our  
8 revenue forecast reasonably addressed this shift.

9           In addition, we expect these market  
10 trends will eventually transform the capacity needs in  
11 the US market from being a summer-peaking region to a  
12 winter-peaking region.

13           We expect this will reduce the amount  
14 of diversity between our peak and the peak demand of  
15 our US neighbours. Reducing or even eliminating the  
16 opportunity to engage in seasonal diversity swaps.  
17 Seasonal diversity capacity swaps, excuse me.

18           Should loss of diversity occur, it will  
19 have a significant impact on our need for capacity  
20 resources in the future.

21           Another significant point our panel  
22 will make is that we anticipate that our future  
23 resource additions will be smaller and more frequent  
24 than they have been in the past. We don't expect to  
25 be adding large blocks of hydro capacity and energy

1 and growing into them over decades, as we have  
2 historically.

3           As a result, our total supply of  
4 capacity and dependable energy will grow more  
5 gradually, closing leading future demand increases.

6           A consequence of this is we will no  
7 longer be able to engage in new high value long-term  
8 export contracts. However, there will remain an  
9 opportunity for market export sales for the  
10 foreseeable future. And we have appropriately valued  
11 those market sales in our export revenue projections.

12           A significant point I would like to  
13 make is that our net export revenue forecast assume  
14 that the performance and capacity of the existing  
15 system will be maintained through ongoing investments.

16           That is, we are assuming that we will  
17 be able to properly invest in existing generation,  
18 transmission, and high voltage direct current systems  
19 as they age so they continue to produce electricity  
20 and deliver electricity to our customers at a high  
21 level of reliability.

22           Lastly, as Ms. Grewal pointed out  
23 yesterday, Manitoba Hydro has continued -- is  
24 committed to continuous improvement.

25           We have provided evidence in our

1 Application of the -- about the significant  
2 improvements our group has made in short-term  
3 forecasting, hydrologic modelling, energy operations,  
4 and long-term planning.

5 This panel is available to elaborate on  
6 those activities, if desired.

7 I'd now like to turn the mic over to  
8 Mr. Gawne. Thank you.

9 MR. KEVIN GAWNE: Thank you, Mr.  
10 Turner. We are now at slide 3 in the presentation.

11 Manitoba Hydro operates an integrated  
12 system of reservoirs, generation, HVDC, transmission,  
13 and interconnections to our neighbouring markets.  
14 Therefore, Manitoba Hydro applies a system approach to  
15 our operations planning, long-term planning, and  
16 export revenue forecasting.

17 Our operations planning engineers and  
18 resource planners use sophisticated energy system  
19 models to simulate the operation of our systems.

20 Key inputs include the Manitoba  
21 customer load forecast, system capabilities and  
22 limits, flow forecasts, and the entire hydrologic  
23 record. And the export market force -- price  
24 forecast.

25 Manitoba Hydro is obligated to supply

1 Manitoba firm customers. And you can see the box on  
2 the left in this slide.

3                   So when it comes to operating and  
4 planning our system, we don't have the option whether  
5 to serve these customers; rather, we must supply the  
6 amounts that they need when they need it.

7                   You'll notice the graphic includes a  
8 small image of a balance in the corner. And why is  
9 this shown? A fundamental aspect of power system  
10 operations is that supply must always balance with  
11 demand; every second, every day, every year.

12                   So how do we achieve that at Manitoba  
13 Hydro in operations and in planning? In essence,  
14 there's -- there's three (3) ways.

15                   First, we operate our reservoirs to  
16 adjust the generation when customer demand changes.

17                   Second, we physically export power or  
18 import power to or from neighbouring markets.

19 Essentially, this is like our pressure relief valve,  
20 if you will, which is particularly important for  
21 Manitoba Hydro in managing our water variability. And  
22 Mr. Turner spoke of that earlier.

23                   So normally, we're -- you know, we plan  
24 our system to sustain our reliable operations through  
25 drought. But normally, we're not in a drought



1 condition, which is why we're, on average, an exporter  
2 of electricity.

3                   So you only need to look back as far as  
4 2021 and 2022 to see the significant role that our  
5 market interactions play in balancing our supply and  
6 demand. For example, our physical exports -- that's  
7 energy leaving the province -- in '22/'23 was roughly  
8 9 terawatt hours more than in '21/'22. And that --  
9 terawatt hours is a million megawatt hours. But just  
10 from a rough perspective, that's about 40 percent of  
11 the electric demand in Manitoba year over year change  
12 in our export activity.

13                   So the third way we balance supply and  
14 demand -- and this only applies to long-term planning  
15 -- is by adding new resources to our system.

16                   So given that we're predominately  
17 hydroelectric system, our system is planned and built  
18 to reliably supply our customers under drought. And  
19 as -- as I said, when we're not in drought, we usually  
20 have surplus energy which is why we are typically  
21 exporting energy to our neighbours and this is why we  
22 need to look at it from a system approach when we're  
23 forecasting our net export revenues. Next slide,  
24 please.

25                   So a little bit more on net export

1 revenues. Explained by Mr. Turner, our panel is  
2 representing the groups who are largely responsible  
3 for forecasting export revenues and generation costs.  
4 And in aggregate, Manitoba Hydro refers to these items  
5 as net export revenues.

6 We provide these forecasts as inputs to  
7 Manitoba Hydro's financial forecast. And as you can  
8 see here on the slide, net export revenue is,  
9 essentially, export revenues minus generation costs.

10 On the export revenue side -- and I  
11 won't go through all these in detail, but just the key  
12 ones. The two (2) main components are the long-term  
13 contracts, which are multi-year contracts with counter  
14 parties who've, in often cases, elected not to build  
15 other resources but instead, purchase power from  
16 Manitoba.

17 And those -- those long-term contracts  
18 include both energy and capacity obligations on  
19 Manitoba Hydro.

20 Our opportunity revenues -- opportunity  
21 revenues are primarily market energy sales that will  
22 change with water conditions. So on this slide they  
23 are marked with this water drop icon. And -- and  
24 that's to help understand what parameters really do  
25 move around with water conditions. So there's other

1 components to this balance that identify where water  
2 is a big factor.

3                   On the generation costs side, we have  
4 water rentals. Clearly, those are dependent on water  
5 because it's directly a function of how much  
6 hydroelectric generation we produce.

7                   Then we have purchased energy, which  
8 includes imports and market purchases, which are  
9 highly dependent on water conditions. Again, to  
10 balance supply and demand.

11                   And then, we have our wind power --  
12 power purchase agreements, or wind PPAs, for wind  
13 farms located in Manitoba. And those also fall under  
14 power purchases.

15                   And lastly, while we seldom run our  
16 combustion turbines, we may do so under very low water  
17 conditions or for reliability purposes.

18                   All these costs are modelled using our  
19 system approach that I discussed earlier, when we're  
20 arriving at our net expert revenue projections. Next  
21 slide, please.

22                   Before I get into an update for the  
23 Board on current water conditions, the Board has  
24 expressed an interest in reviewing Manitoba Hydro's  
25 drought management. So I will provide an overview of

1 how Manitoba Hydro plans its energy and water  
2 operations. Next slide, please.

3                   So we are now at slide 6 in the  
4 presentation that addresses our operations planning  
5 processes, technology, and expertise.

6                   Manitoba Hydro's reservoir and energy  
7 operations also -- I'll also refer to them as  
8 operations planning or that function -- uses long-  
9 established priorities. These priorities are used --  
10 pardon me, these priorities are used to guide a large  
11 team of experts from across the enterprise.

12                   And you'll see those listed here. I  
13 won't go through them in detail. But I'll note that  
14 this -- this team of professionals was referenced in  
15 Daymark's report as their Reservoir Planning and  
16 Production Scheduling Team, at page 78 in their  
17 report.

18                   Now, the process depicted on the right  
19 involves a weekly cycle of continuous monitoring  
20 updating planning and communicating that is repeated  
21 regardless of water conditions. So this is happening  
22 week after week.

23                   Every week, our operations planning  
24 team collects and reviews observed data from across  
25 the system and meets with our hydrology team who

1 updates Manitoba Hydro's inflow forecasts.

2                   The team then assesses conditions and,  
3 with feedback from stakeholders involved, adjusts  
4 plans for major reservoir releases. And at the bottom  
5 of the cycle, those plans are then communicated  
6 broadly throughout the Organization. And lastly, at  
7 the nine o'clock position, the decisions in the plan  
8 are executed by our operators.

9                   So, for example, we recently decided,  
10 using this process, to reduce outflows from Lake  
11 Winnipeg, and that decision was implemented when our  
12 operator up at Jenpeg lowered a gate on the spillway  
13 at Jenpeg to reduce outflows from the lake. So that's  
14 executing the decision. And then we get to the top of  
15 the cycle and -- and kind of get back into the -- into  
16 the routine.

17                   The last point on this slide is water  
18 conditions and energy outlooks are regularly  
19 communicated to our senior leadership within Manitoba  
20 Hydro. And when conditions are extreme such as severe  
21 drought or -- or flooding conditions, our team will  
22 involve executive directly.

23                   For example, during the drought of  
24 2021, we engaged the executive team of VPs and  
25 directors who met twice monthly throughout the drought

1 to receive updates, to review our operating plans, and  
2 provide guidance on major decisions. Next slide.  
3 Thanks.

4 I'd like to now expand upon our  
5 operating planning priorities and how and when they  
6 are applied. So this is fundamental to our operations  
7 planning process, and we've been planning our  
8 reservoir and energy operations according to these  
9 priorities for decades.

10 Our number 1 priority is safety --  
11 safety of the public and our staff. Following this,  
12 energy supply is our next priority where we plan and  
13 operate our system to avoid prolonged outages to our  
14 customers which could have devastating social and  
15 economic impacts, particularly during a cold winter  
16 season.

17 Then we prioritize energy reserves, and  
18 that refers to protecting reservoir storage for the  
19 future in case drought con -- continues. Manitoba  
20 Hydro would deplete those reserves only to avoid  
21 curtailing Manitoba firm customers for extended  
22 periods or for safety reasons, and those being the  
23 higher priorities.

24 Short-term reliability, that -- that  
25 refers to avoiding the risk of system-level outages

1 but for short durations.

2 Stakeholders and the environment,  
3 number 5 in the priorities, refers to avoiding  
4 significant impacts on resource users. And we affect  
5 most of the major waterways in the province, and  
6 that's a -- a serious consideration for our  
7 operations.

8 And lastly, we have economics where we  
9 operate our system to maximize net revenues. Most of  
10 the time we're operating for economics. However,  
11 depending on conditions, we may move up the scale  
12 where our operations are driven more by higher  
13 priority concerns.

14 These priorities apply under all water  
15 conditions. For example, in a flooding condition, we  
16 may have to forego economic operations to minimize  
17 high water level impacts on our stakeholders.

18 At the other end of the water supply  
19 spectrum, drought, Manitoba Hydro's operations may be  
20 governed by conserving energy reserves to protect our  
21 -- protect storage for continued drought. Next slide,  
22 please.

23 So Manitoba Hydro has made  
24 improvements. So we've -- we have those long-standing  
25 operating priorities that have been around for

1 decades, but that doesn't mean that nothing's changed  
2 over the years.

3                   Manitoba Hydro has implemented many  
4 improvements related to operations planning in general  
5 and, more specifically, drought operations. We have  
6 also made improvements in the area of long-term  
7 resource planning.

8                   Our response to Manitoba Hydro-PUB  
9 Round I 168 provides an overview of the numerous  
10 improvements we have made into our operations, how we  
11 participate with the market, our practices and tools  
12 we use in our operations planning and long-term  
13 planning, and ultimately the net export revenue  
14 forecasting that we're preparing for our financial  
15 forecasts.

16                   As it relates to drought, the system  
17 improvements include the addition of the 500 kV  
18 Minnesota -- or, pardon me, Manitoba-Minnesota  
19 transmission project which came into service in June  
20 of 2020. And that increases our ability to import  
21 energy during drought or emergencies.

22                   Market participation enhancements  
23 includes provisions in Manitoba Hydro's export  
24 contracts to supply a large portion of the energy  
25 obligations in those contracts through what's called



1 market settlements, or using the market to supply the  
2 energy which, ultimately, reduces Manitoba Hydro's  
3 physical energy obligations under severe drought  
4 conditions.

5                   In terms of practices, since the  
6 2003/'04 drought, one (1) example where we've seen  
7 improvements or have made improvements is Manitoba  
8 Hydro has formally documented its drought operations  
9 processes and assumptions used in operations during  
10 drought. And this is available in Appendix 5.3 of our  
11 Application.

12                   Recently, Manitoba Hydro has  
13 implemented new tools as well used for near-term  
14 inflow forecasting, and Manitoba Hydro has also  
15 replaced its long-term generation planning software.  
16 And this is -- this replacement was with a model  
17 produced by a third party industry-leading vendor with  
18 specific expertise in hydro system modelling. Next  
19 slide.

20                   We are now at slide 9. Our filing  
21 reviewed how water conditions can impact revenues, and  
22 this Board has shown interest in understanding our  
23 hydrology forecasting methods. So, as noted in the  
24 scope of the work from our board -- pardon me, the  
25 PUB's independent expert consultant. So here I'd like

1 to briefly describe Manitoba Hydro's current inflow  
2 forecasting system.

3           It's described in greater detail in  
4 section 1 of Appendix 5.4 of our Application, but just  
5 at a high level, we've made significant advancements  
6 over the past several years to improve our short-term  
7 inflow forecasting by implementing what's called  
8 physically-based hydrologic models.

9           This -- and essentially, that's trying  
10 to reflect the hydrologic cycle that we all learned  
11 about in science in grade 7. It's -- it's trying to  
12 model the science of the process of hydrology.

13           This brings our forecasting methods to  
14 a level that is consistent with industry-best  
15 practices. These new models simulate the water cycle  
16 and use data on current basin conditions and  
17 forecasted weather to produce inflow forecasts which  
18 helps to reduce the short-term uncertainty to our  
19 inflow forecasts compared to purely statistical  
20 methods used prior to 2020 by Manitoba Hydro.

21           To make this happen, Manitoba Hydro  
22 invested in its weather and water data networks,  
23 formalized data sharing agreements with partners in  
24 neighbouring regions, and leveraged the use of  
25 satellite-based information. This was made possible

1 through years of participation in industry working  
2 groups, in collaboration with academia, other peer  
3 agency -- and other peer agencies.

4           The forecasting framework is based on a  
5 modern industry standard platform called FEWS -- and  
6 that's F-E-W-S -- and the meas -- the methods used  
7 have been reviewed by both Manitoba Hydro's external  
8 expert, Dr. Rene Roy and the PUB's independent expert  
9 consultant Daymark Energy Advisors.

10           I would like to take actually this --  
11 just to step off this for a bit and take an  
12 opportunity to address a topic raised by Board Member  
13 Sy yesterday during the policy panel session where he  
14 had asked about Manitoba Hydro's use of artificial  
15 intelligence and machine learning.

16           The industry standard hydrologic models  
17 that Manitoba Hydro uses are fund -- are fundamentals-  
18 based models that simulate the physical processes that  
19 you see on the left in this slide, you know, things  
20 like the hydrologic cycle, soil, moisture,  
21 evaporation, snow melt, for instance.

22           However, the use of machine learning is  
23 starting to take hold in some applications and flow  
24 forecasting. Manitoba Hydro is actively following  
25 this, and we've been in discussions with entities like

1 our peers in the industry essentially employing this  
2 technology in hydrology for a few years now.

3                   Unfortunately, the industry standard  
4 platform that I just spoke of, that FEWS platform, has  
5 the ability to essentially pull in forecasts produced  
6 by machine learning algorithms and vendors that are  
7 out there selling machine learning-based systems.

8                   But just -- I'll add that our -- our  
9 approach is to use and focus on fundamentals-based  
10 modelling first while following the -- the  
11 developments in -- in AI. And -- and this is in line  
12 with the recommendations of Dr. Rene Roy, our expert  
13 peer who had reviewed this at Appendix 5.4.

14                   And the last point on this slide that I  
15 would like to add, is -- it's a bit of a caveat. Here  
16 we've done all these improvements in our flow  
17 forecasting system and invested a -- a tremendous  
18 amount of effort to develop our short term flow  
19 forecasting. But these are that -- these are  
20 developments to improve our short term flow  
21 forecasting.

22                   This has helped inform year term  
23 decisions in our operations, however, it's impossible  
24 to reliably forecast precipitation and river flows  
25 over the multiple months in the future, which will

1 ultimately impact our hydro-electric generation for  
2 the next year and when we're forecasting that export  
3 revenues.

4                   Seasonal to inter-annual weather  
5 forecast products, they do exist, however their skill  
6 and reliability, and particularly for -- the watershed  
7 that supplies our system or not at -- at the level  
8 that we can rely upon them.

9                   So, put simply, we know droughts will  
10 occur, but we can't predict with any certainty when  
11 they will occur and how severe there will be.

12                   Therefore, Manitoba Hydro prudently  
13 plans for the repeat of the worst drought on record in  
14 our operations and also in our long term planning.

15                   That said, we remain actively involved  
16 in research in this area and Dr. Rene Roy has attested  
17 to that in his review at the back end of our Appendix  
18 5.4. Next slide please.

19                   Okay, water conditions and hydraulic  
20 generation. I'd like to now update the Board on  
21 current water conditions and our anticipated hydraulic  
22 generation for this current fiscal year. Next slide  
23 please.

24                   Okay, this is a pretty messy looking  
25 slide, but I wouldn't be a good engineer if I didn't

1 try and show a bunch of charts to you. So, I'll do my  
2 best to explain this. It's similar to what we've seen  
3 in the past.

4 But water conditions have -- have  
5 changed dramatically over the last few years. Last  
6 year, 2022, was a great example of how flows can  
7 change from one extreme to the -- to the next.

8 To illustrate, if you look at this  
9 chart of daily flows for the Winnipeg River, okay,  
10 Winnipeg River is being shown because it's of  
11 importance to our system.

12 Flows from this watershed contribute to  
13 just over a third (1/3) of the total hydraulic  
14 generation, as this water flows down the Winnipeg  
15 River, through the six (6) hydro stations of ours on  
16 the Winnipeg River, into Lake Winnipeg. Out of Lake  
17 Winnipeg and through another six (6) stations before  
18 it gets to the Hudson Bay.

19 So, water in the Winnipeg River if --  
20 if we're not spilling, can go through twelve (12) of  
21 sixteen (16) of our stations. So, it's very important  
22 that we look at that basin.

23 So, we call this chart here a spaghetti  
24 plot and I'll -- you can guess why. In the background  
25 there are several gray traces and that shows the daily

1 flow conditions for each of the past forty (40) years  
2 that's plotted here.

3                   So, water levels in cubic feet -- or  
4 pardon me, flows in cubic feet per second and the  
5 horizontal axis is days of the year, starting in  
6 April.

7                   There's also a thick black line shown  
8 there, and that's the average value calculated from  
9 these forty (40) traces of flows.

10                   '21/'22 and '22/'23 are highlighted in  
11 purple and blue, respectively. In our current year,  
12 '23/'24, you see the beginning of it there in red.  
13 Also plotted are '25 or pardon me, 2005/'06, which was  
14 a high water year and then 2003/'04, which was our  
15 last major drought. And those are shown there for  
16 reference.

17                   So, clearly, 2021 was a significant  
18 event, with flows being the lowest in over forty (40)  
19 years, when Manitoba Hydro filed its 2021 Interim Rate  
20 Application in November of 2021.

21                   So, if you just take your eyes to where  
22 2021/'22 is labeled there, around November, that's  
23 around when we were sub -- filing our application for  
24 the Interim Rate Application and flows were a record  
25 low.

1                   And the Winnipeg River basin was  
2 experiencing some of the areas that were monitoring  
3 precipitation, recorded the lowest precipitation since  
4 the late 1800's, I believe.

5                   And we did include, I'm going off a bit  
6 here, but we did include in our application a -- a  
7 link to the Lake of the Woods Control Board. And they  
8 have a video and if you want to spend another three  
9 (3) hours listening to an engineer talk about water  
10 levels and grass, I -- you know, it's -- it's a good  
11 one to watch. It really does share the problems of  
12 water management and dealing with uncertainty and  
13 extremes.

14                   Okay. So, back to flows from Ontario  
15 here. They increased through the winter and that was  
16 largely due to reservoir release decisions by the Lake  
17 of the Woods Control Board.

18                   However, there was a remarkable  
19 turnaround in conditions in the -- in the spring,  
20 driven primarily by a series of large rainfall events  
21 through April and May of 2022.

22                   You'll recall, I think it was in  
23 Winnipeg -- I think May of 2022 was an absolute record  
24 high month for -- for rain in -- in Winnipeg.

25                   And we -- and we had a new peak flow



1 records that were set throughout much of the  
2 watershed. Through the summer and into the fall,  
3 leading into our filing of this GRA, flows have  
4 receded back towards average conditions.

5                   Now, while this type of turn around in  
6 flow conditions is extreme, there's no doubt if you  
7 look, going from the lowest in forty (40) years to an  
8 absolute record high, it's extreme. But, it's not  
9 necessarily unexpected.

10                   We know flows can change dramatically  
11 from season to season and these changes are driven by  
12 weather events, but unfortunately, those weather  
13 events can only be forecasted a few weeks out.

14                   So, what we do when we prepare our  
15 financial forecast, is we simulate the operation of  
16 the system on -- over a whole range of water supply  
17 conditions, 'cause we can't say for sure in the next  
18 number of weeks how -- how flows will materialize.  
19 New slide please, next slide.

20                   This chart illustrates the total  
21 potential energy in reservoir storage in major  
22 reservoirs in Manitoba and upstream of our borders.  
23 It's important because it really tells us how much gas  
24 we have in the tank for hydro generation, so to speak,  
25 so one would expect to see water levels on the side or

1 cubic feet of water. But what's plotted here is a  
2 term, in terms of energy or terawatt hours or millions  
3 of megawatt hours, that's a terawatt hour.

4                   So, what we do is we convert the water  
5 levels at the various locations around the system.  
6 We're monitoring all these levels in these lakes that  
7 ultimately drain to us, the big ones anyway. And we  
8 convert that into an energy equivalent number, based  
9 on how much generation in our system is located  
10 downstream of that reservoir.

11                   For example, every drop of water in  
12 northwestern Ontario could eventually make it through  
13 those twelve (12) hydro stations downstream. So we  
14 weight that water of, if you will, higher than water  
15 that's located further down the system, say at Kettle  
16 generating station, which is our third (3rd) last  
17 station.

18                   So, it's a way to look at flows and  
19 aggregate for the entire system and it's a -- a  
20 weighting based on the production potential. And it's  
21 -- we use the term potential because in many cases, or  
22 certainly in cases where water conditions are above  
23 average, we may be forced to spill a lot of this water  
24 because we simply don't have the ability to pass this  
25 much water through our turbines.

1                   But our system modeling, fortunately,  
2 accounts for all of this. So, we understand the  
3 capability of our hydro stations and -- and the  
4 modeling that's behind the financial forecast accounts  
5 for that.

6                   And that was the case in 2022, where  
7 inflows took off and storage rose quickly and Manitoba  
8 Hydro transitioned relatively quickly from operations  
9 for drought, during the winter of '21/'22, to changing  
10 to a -- managing a major flood.

11                   As you can see the red line now, so  
12 we're in '23/'24 as tracking back close to the black  
13 line, which is the average. So, storage conditions  
14 are close to average. Next slide please.

15                   System Inflows. Yes. Thank you. So,  
16 system inflows are close to average. Previously I  
17 showed you a chart of Winnipeg River flows and this is  
18 kind of like the same view, but now weighting things  
19 by energy and looking at all the tributaries across  
20 the entire system, not just in Manitoba, but the major  
21 flow points upstream of our province.

22                   It's another spaghetti chart, but the  
23 idea is, in terms of flows into the Manitoba Hydro  
24 system, this is where we're sitting relative to  
25 averages and relative to previous years.

1                   So, similar to the Winnipeg River  
2 flows, you can see the stark contrast in conditions  
3 between 2021, in purple, towards the bottom and -- and  
4 then -- in blue, '22/'23 where we completely  
5 transitioned to a flood.

6                   And much like storage, currently flows  
7 are close to average for this time of year. That's  
8 the red line. Next slide please.

9                   There's a lot of information on this  
10 slide. I won't spend too much time on it. But, the  
11 idea here is to summarize how things look for the last  
12 sixty (60) days for precipitation across our system.  
13 And this chart, by the way, is taken from that fused  
14 system that I mentioned earlier or hydro -- hydrologic  
15 modeling system.

16                   So, last few slides illustrated that  
17 storage and flows are close to average for this time  
18 of year, however, precipitation, over the last few  
19 months, has been below average, throughout the  
20 majority of the watershed. So, that's where you see  
21 the browns and reds and the very dark red is, you  
22 know, 5th percentile precipitation conditions, for  
23 example, and we account for this. We account for this  
24 now with our hydraulic flow forecasting system. Next  
25 slide.

1                   Okay. System in-flows and this chart  
2 has been put in front of this Board in the past but  
3 it's now updated to include actuals for '22/'23 and  
4 our latest projection in green.

5                   So, the -- the last few slides  
6 illustrated the storage and -- pardon me, that was  
7 precip. It's not possible to reliably forecast flows  
8 many months into the future. Manitoba Hydro's  
9 operations and forecasts of hydro-electric generation  
10 are based on a range of potential flow conditions, as  
11 I explained earlier, and, as of a few weeks ago, our  
12 projection is relatively close to the long-term --  
13 long-term average for system in-flows.

14                   As you can see on the chart, the green  
15 bar is pretty close to the dashed red, which is 100  
16 percent of average. However, there is still -- it's  
17 still highly uncertain as to how much flows we're  
18 going to have for this entire year and Mr. -- Mr.  
19 Turner was alluding to that.

20                   Now, we're just -- we're just in  
21 spring, and May through August is when we tend to get  
22 the -- the most water into our system. That's  
23 traditionally the wettest time of the year, and  
24 rainfall through these months contributes  
25 significantly to the overall volume of water that we

1 receive in our system. Next slide, please.

2 This slide is getting pretty involved.  
3 We won't have to spend too much time on it but the --  
4 I'll just try and highlight a few points. That's  
5 Slide 16.

6 So, I would now like to provide an  
7 overview of our projected hydro generation for the  
8 year and the level of certainty of that projection.  
9 So, the figure shown on the left is a plot of the  
10 amount of energy produced by Manitoba Hydro's hydro-  
11 electric generating stations on an annual basis. So,  
12 by fiscal year.

13 So, the blue columns show the actual  
14 amount of energy produced in the last few years. So,  
15 for '21/'22, '22/'23.

16 Now, the orange boxes, those show the  
17 range of hydraulic generation that was included in the  
18 materials that we filed in 2021, when we did our  
19 interim rate application. Okay? So, that was the  
20 range of uncertainty back when we did that  
21 application, in November of '21.

22 The green boxes, they show the range in  
23 annual generation that underlies the net export  
24 revenue forecast that we filed with this application  
25 last November.

1                   We went and added the yellow box and  
2 that shows '23/'24 range of projected hydrolog --  
3 hydraulic generation, based on conditions updated just  
4 to the last few weeks that we went through just a few  
5 slides ago.

6                   So, what you can see here is because --  
7 because the future is uncertain and our ability to  
8 predict flows with certainty is limited as we move  
9 through time, there will always be a range of  
10 uncertainty in the forecast hydrolic -- hydraulic  
11 generation in each of the future years and this range  
12 of uncertainty is really shown by the length of those  
13 boxes. Where the top of the bar represents the  
14 maximum and the bottom is the minimum.

15                   But, looking at '23/'24, specifically,  
16 that grouping of orange and green and yellow boxes,  
17 what you can see is the range of uncertainty is  
18 narrowed, as we have approached this year and, now,  
19 that we're in it, but there is still a considerable  
20 amount of uncertainty is how much hydraulic generation  
21 can produce this year, however, the averages haven't  
22 changed that much. It's just more the -- the range of  
23 uncertainty.

24                   So, this concludes the update on water  
25 conditions and I will now hand over the presentation

1 to Ms. -- Ms. Sanclemente.

2 MS. CHERYL SANCLEMENTE: Thank you,  
3 Mr. Gawne. Next slide, please. Okay.

4 I would now like to provide an update  
5 on electricity prices in MISO since the application  
6 was filed last fall. The chart on the screen shows  
7 the -- the MISO market prices in Manitoba Hydro's  
8 pricing node from April 2012 up to May 1st, 2023.

9 This is an update to Figure 3 from page  
10 6 of Appendix 4.2 of the application. The chart shows  
11 average on-peak and off-peak monthly prices for  
12 electricity that Manitoba Hydro either sells at or  
13 buys for.

14 On the right-hand side of the chart,  
15 you will note the dramatic run-up in market prices  
16 that occurred in the spring of 2021 and the subsequent  
17 decline this past winter. Prices have continued to  
18 soften over the last few weeks and are now back to the  
19 price range experienced prior to the war in Ukraine.  
20 Next slide, please. Thank you.

21 Okay. So, this slide compares the MISO  
22 prices to the price of natural gas over the last three  
23 (3) years. You will note how highly correlated the  
24 two (2) prices. Although there are several factors  
25 that influence electricity prices, the primary price



1 driver in MISO is currently the cost of natural gas.  
2 When gas prices rose dramatically in 2021, electricity  
3 prices rose in tandem and, now, with gas prices back  
4 to the \$2 (US) range, electricity prices have dropped  
5 accordingly.

6                   Fortunately, for Manitoba Hydro, the  
7 high prices in 2022 corresponded to one of the highest  
8 export years on record, which helped off-set the cost  
9 of drought in the previous year. Next slide, please.  
10 Thank you. Okay.

11                   So, similar to the previous slide, this  
12 chart is an updated version of Figure 4, page 8, from  
13 Appendix 4.2 of the application. It compares long-  
14 term export contract prices to on-peak opportunity  
15 prices, from 2012 to May 1st, 2023.

16                   Opportunity prices include energy sales  
17 to MISO but, also, sales to other markets, such  
18 Ontario, Alberta, and the southwest power pool, and  
19 all short-term export contract prices are -- excuse  
20 me, export contract sales to utilities.

21                   So, the red line on the chart  
22 represents the export contract prices. Over the last  
23 few months, export contract prices have continued  
24 relatively constant -- constant in the \$140 per  
25 megawatt-hour range or .14 cents per kilowatt-hour.

1                   To the extent that there are short-term  
2 variations in contract prices, they are mainly the  
3 result of variations in the U.S. exchange rate,  
4 however, their gradual rise over time is the result of  
5 inflationary price adjustments and the commencement of  
6 several new, high-value contracts tied to Keeyask.

7                   The blue line on the chart shows the  
8 on-peak opportunity prices. You can see that on-peak  
9 oppor -- or, sorry, that opportunity prices have been  
10 significantly lower than export contract prices, on  
11 average, except for a few brief periods, such as the  
12 winter of 2021/'22.

13                   The reason for this is that export  
14 contract prices reflect the all-in cost of the buyer's  
15 alternative capacity resource, whereas opportunity  
16 prices are mainly the function of natural gas prices.  
17 For this reason, power sold under the long-term export  
18 contracts is providing significant additional value,  
19 price stability, and price certainty to Manitoba  
20 Hydro, compared to selling power in the opportunity  
21 markets.

22                   Thank you. This completes my direct  
23 testimony. I'll pass the mic over to Mr. Karanwal.

24                   MR. NIKHIL KARANWAL: Thank you, Ms.  
25 Sanclemente. Now, I would like to brief the Board

1 about the conclusions of the review Manitoba Hydro  
2 conducted in 2021 into its long-term export contracts.  
3 Next slide, please. Thank you.

4                   When I began my Director's duties about  
5 two (2) years ago, I inherited responsibility for  
6 Manitoba Hydro's portfolio of export contracts that  
7 had been negotiated over the last 14 years.

8                   As part of Manitoba Hydro's Strategy  
9 2040 initiative, our review was important to determine  
10 if these contracts were still expected to provide the  
11 best value to Manitobans, given the uncertain future  
12 the company was facing, and whether there were any  
13 opportunities to improve on them.

14                   The conclusion of the reviews were that  
15 the contracts were performing well, compared to the  
16 MISO market, provide Manitoba Hydro with revenue  
17 certainty in an uncertain market, provide value in  
18 keeping Manitobans' electricity rates lower than they  
19 otherwise would be.

20                   And, now, I would like to provide a  
21 status update on many Manitoba Hydro's marketing  
22 activities with its export customers.

23                   Manitoba Hydro's marketing team  
24 maintains frequent contact with its wholesale customer  
25 base in Canada and the U.S. Although we have limited

1 excess firm power available, there are always  
2 opportunities for entities to work together for mutual  
3 benefits, such as the sharing of surplus seasonal  
4 capacity, which could defer the needs for new capacity  
5 resources by both sides.

6                   Since the last GRA in 2017, Manitoba  
7 Hydro has negotiated four (4) new long-term contracts.  
8 As shown on the slide, various types of power was  
9 sold. The contract, with Basin Electric is for  
10 capacity. The one with Dairyland is a seasonal  
11 diversity capacity swap, while the sale to SaskPower  
12 is a system power.

13                   Each of these contracts reflects the  
14 unique needs and capabilities of the utilities. The  
15 revenues from these contracts are included in our  
16 Revenue Forecast provided in the application. Ms.  
17 Schubert, next slide, please. Thank you.

18                   This slide illustrates Manitoba Hydro's  
19 winter capacity position until the 2042 time frame.  
20 Actually shows the time frame there. It shows our  
21 existing planning capacity supply and compares it to  
22 the capacity required to serve the forecast domestic  
23 load.

24                   The required (INDISCERNIBLE) resolves  
25 and our winter export capacity obligations to various

1 wholesale customers. I'm showing this slide to  
2 highlight the impact of the expiration of our seasonal  
3 diversity contracts with Excel Energy in 2025/'26 and  
4 Grey (INDISCERNIBLE) Energy in 2030 and '31 on the  
5 need date for new capacity resources.

6           The end of this contracts potentially  
7 puts Manitoba Hydro in a capacity deficit position in  
8 2030/'31, assuming the net Manitoba load forecast  
9 remains the same as shown on the chart. And that load  
10 is growing every time.

11           For this reason, we are actively  
12 pursuing replacement seasonal diversity arrangements.  
13 Success in finding replacements would mean deferring  
14 the need for additional capacity resources by several  
15 year. However, as we've described in our filing, the  
16 opportunities for capacity swaps are diminishing,  
17 which will add to the challenge.

18           Finally, I would like to describe the  
19 status of Manitoba Hydro's activities with  
20 Midcontinent Independent System Operator, that is  
21 MISO. Thank you. The next slide.

22           MISO is a non-for-profit member-based  
23 organization that, among other things, operates one  
24 (1) of the world's largest energy markets. In  
25 comparison, MISO has thirty (30) times the installed

1 capacity as Manitoba Hydro.

2                   The MISO market is very important to  
3 Manitoba Hydro, as we are connected to it through  
4 large transmission lines, allowing us to export as  
5 much as 3,000 megawatt and compete with higher cost  
6 generation.

7                   And in the times of need, these lines  
8 allow us to import up to 1400 megawatt from surplus  
9 operation in MISO. As such, Manitoba Hydro has a  
10 strong interest in the MISO market rules and  
11 participating in the evolution.

12                   Likewise, MISO recognizing the unique  
13 base load and storage capabilities of Manitoba Hydro's  
14 renewable resource, values Manitoba Hydro's input.  
15 Significant changes are currently underway in MISO  
16 involving capacity degradation and the planning  
17 (INDISCERNIBLE).

18                   Changes in these areas are affecting  
19 Manitoba Hydro's wholesale customer base in MISO not  
20 and will impact whether our sub resources can quality  
21 in serving the needs.

22                   As a result, Manitoba Hydros staff  
23 continues to be active in all areas at MISO, ensuring  
24 our interests, capabilities, and plans are known and  
25 understood, and that barriers to trade are eliminated,

1 or at least minimized.

2 Thank you. And that completes my  
3 direct evidence. I'll hand over back to Mr. Gawne.

4 MR. KEVIN GAWNE: Thank you. Thank  
5 you, Mr. Karanwal. So, I'm going to switch gears a  
6 little bit here and talk more long term. I talked to  
7 you about short-term water forecasting previously, and  
8 now looking at the longer term outlook of supply and  
9 demand.

10 So, I had introduced the concept of  
11 using a system approach and the basic problem of  
12 balancing supply and demand. And this section of the  
13 presentation addresses supply and demand balance over  
14 the longer term and the anticipated need date for new  
15 resources.

16 So, we plan to reliably supply our firm  
17 customers in the long-term and we do that according to  
18 energy and capacity planning criteria, and those are  
19 provided in appendix 5.5 of our application.

20 Consistent with industry practice, we  
21 must plan to have sufficient capacity to supply peak  
22 total load. The chart on the left illustrates  
23 capacity, supply and demand where the blue shaded  
24 areas Manitoba customer demand at the time of winter  
25 peak, but a planning reserve margin.

1                   The green shaded areas are capacity  
2 export obligations. The solid red line is the total  
3 capacity supply of the system. As you can see, we are  
4 projecting the capacity falling below -- our capacity  
5 supply falling below demand in the '30/'31 time frame,  
6 indicating the need for capacity at that time.

7                   The chart on the right now -- so, the  
8 chart on the left is capacity. The chart on the right  
9 is dealing with energy. And given our dependency on  
10 water supply, Hydro has an energy planning criteria  
11 and that where -- we plan to have enough dependable  
12 energy to supply our firm obligations, even in the  
13 most severe drought.

14                   And so our dependable supply includes  
15 our Hydro generation, including the reservoirs --  
16 reservoir operations that we can perform in a drought.  
17 The wind generation that exists in Manitoba, the  
18 generation from our thermal plant in Brandon, and a  
19 reliable quantity of energy from the import market, or  
20 -- that we can import from neighbouring markets.

21                   As highlighted in the chart, Manitoba  
22 Hydro anticipates the need for new energy resources in  
23 the 2033/'34 time frame. Next slide, please.

24                   Okay. So, this graphic now shows the  
25 scenario that underlies our net export revenue



1 forecast for the long term. A financial scenario  
2 included with the application. So, given those  
3 anticipated need dates that I showed you on the  
4 previous slide, we have developed a resource scenario  
5 to support this application.

6 In terms of capacity, the 2022 scenario  
7 assumes that Manitoba Hydro will be maximizing the  
8 capacity of our existing system through refurbishment  
9 and what's called supply site enhancements.

10 This is the drop -- this is the drop of  
11 water shown with the plus sign in it, denoting the  
12 potential to uprate the megawatt output capability of  
13 units on the lower Nelson River.

14 This potential resource is discussed in  
15 greater detail in tab 5 and tab 7 of our application.  
16 And we will be undertaking more detailed study to  
17 confirm the economics of this resource. This scenario  
18 also assumes continued use of the Curtailable Rates  
19 Program, as well as additional demanding programming.

20 Starting in the late 2030s, the supply  
21 demand scenario assumes growing capacity needs will be  
22 met with a dispatchable capacity resource. And for  
23 the purposes of this financial scenario, this capacity  
24 resources are soon to be met with combustion turbines,  
25 where the cost of operating those turbines is assumed

1 to include the cost of greenhouse gas offsets.

2 In terms of energy, so the chart on the  
3 right you'll see a little grouping of wind turbines  
4 shown in the 2033/'34 time frame, which is the  
5 beginning of this scenarios addition of wind to this  
6 system.

7 So, our -- our GRA scenario assumes  
8 that we meet those energy needs, primarily with wind  
9 generation starting in that '33/'34 time frame. So,  
10 there's just a few key points I want to make off this  
11 slide.

12 And first, and Mr. Turner alluded to  
13 this in the -- in the opening remarks. Manitoba Hydro  
14 anticipates that supply and demand will be mostly  
15 balanced in the future, which is different than what  
16 we've experienced in the past in many settings like  
17 this, where large generation stations such as, you  
18 know, a -- a large hydro station like Limestone  
19 we're added to the system.

20 We had a relatively long period of time  
21 where we had surplus capacity and energy which we  
22 monetized, Manitoba Hydro monetized through long-term  
23 export contracts. And this is not the outlook going  
24 forward, not that you're seeing here.

25 Instead, we anticipate having smaller

1 resource additions along the way as Manitoba load  
2 grows.

3                   The second point is opportunity energy  
4 exports will continue into the future. So, a lot of  
5 this analysis of when do we new energy is based on  
6 dependable supply and demand balance, but we don't  
7 have that critical drought year every year.

8                   We often have surplus water, and that -  
9 - in -- can be monetized through opportunity energy  
10 exports. So, you'll notice that there's two (2)  
11 additional lines on the chart to the right. The  
12 average supply is in black and the maximum total  
13 supply is shown in light blue, and this depicts the  
14 potential range of supply based on different water  
15 conditions.

16                   When supply exceeds our firm load  
17 obligations, and back to that supply/demand balance I  
18 was talking about earlier, that surplus energy goes to  
19 the export market in the form of opportunity energy  
20 exports. And those will continue so long as we're a  
21 major hydro operator and we're using the export market  
22 to help balance supply and demand.

23                   Third, the supply/demand scenario shown  
24 here and anticipated in our financial scenario assumes  
25 the reliability of the Manitoba Hydro system will be

1 maintained. So the chart prior to this showed our  
2 existing system, and the underlying assumption in  
3 these long-term scenarios is that our existing system  
4 will be maintained at the level of reliability that we  
5 currently have. Next slide, please.

6                   Okay. This is the last topic that I'll  
7 be presenting on. I'd like to provide an overview of  
8 the long-term outlook for export market prices that is  
9 used in forecasting net export revenue for Manitoba  
10 Hydro's financial forecast scenario. Thank you.

11                   So the export market price is projected  
12 to be in slight decline in real terms. Notable  
13 changes here is the shape or slope of the long-term  
14 energy price forecast which drives the value of  
15 surplus opportunity energy and the costs of our energy  
16 imports.

17                   This forecast is the consensus view of  
18 five (5) external forecast providers, and while in  
19 previous years the energy price forecast had a slight  
20 upward trend in real terms -- in other words, with  
21 inflation effects removed -- now the energy price  
22 forecast is a slight downward trend in real terms.

23                   And why is that? The large amount of  
24 wind and solar generation now being built in the MISO  
25 market and in the US market in general is displacing

1 higher variable-cost thermal generation. And that's  
2 effective at reducing emissions, but it's also  
3 reducing energy prices, and we're seeing that in this  
4 long-term projection. Next slide, please.

5                   And this is my final slide. The MISO  
6 market and power markets in general are undergoing a  
7 foundational change largely driven by decarbonization  
8 as introduced by Ms. Grewal in her opening  
9 presentation yesterday.

10                   Higher-cost thermal resources are being  
11 replaced with low-cost variable renewable resources,  
12 primarily wind and solar generation. In the US, the  
13 change has been driven in part by both state energy  
14 policies and federal tax credits, the latest iteration  
15 of which is the Inflation Reduction Act which has  
16 hundred of billions in subsidies for wind, solar, and  
17 batter -- battery storage systems.

18                   Wind and solar produced about 17  
19 percent of MISO energy in 2022, and I'll -- I'll add  
20 that the proportion of wind in northern MISO, you  
21 know, south of our border, was much higher -- higher  
22 concentration of wind generation in that portion of  
23 the MISO footprint.

24                   In the recent MISO Regional Resource  
25 Adequacy -- or, pardon me, Resource Assessment

1 projected that this could approach 30 percent within  
2 five (5) years. So within five (5) years, going from  
3 17 percent energy from wind and solar to 30 percent  
4 within five (5) years, and then 60 percent by 2041.

5           New generation within MISO must request  
6 -- another indication here in the next bullet is, new  
7 generation in MISO must request transmission  
8 interconnection through a process that's called the  
9 MISO generation interconnection queue.

10           And as of April 1st, 2023, this queue  
11 is at 243,800 megawatts, the generation  
12 interconnection requests, and that includes 131,000  
13 megawatts for solar generation and 81,500 megawatts  
14 for battery storage and solar storage hybrids.

15           So much of these requests -- like we  
16 acknowledge that much of these requests will not in  
17 fact be built. There's excessive amounts of requests  
18 for what will actually be built. But even a fraction  
19 of this in terms of solar and wind coming on to the  
20 system will have dramatic change in the MISO market.

21           And the last bullet here is the load in  
22 MISO is also evolving. The highlight section of the  
23 MISO future's report provided insights into the MISO  
24 system, and I'll quote:

25           "Once it transforms to dual summer

1                   and winter peaking as renewable  
2                   energy and projected demand  
3                   increase."

4                   So this is an antici -- an expectation  
5 of a lot of the planners. April 2021 MISO Futures  
6 Report, which was intended to be used for several  
7 years with minimal updates, was updated only eight (8)  
8 months later. And then, by the end of 2022, work had  
9 already begun on providing a new update.

10                  So these outlook revisions are a sign  
11 of how rapidly the transition is occurring, and the  
12 evolution of the MISO load profile is challenging --  
13 is changing significantly. And this evolution, as Mr.  
14 Turner was alluding to, may affect our ability to  
15 exercise and leverage seasonal diversity contracts  
16 with MISO counterparts.

17                  Manitoba Hydro will continue to monitor  
18 the evolution of the resource mix and load -- and load  
19 in neighbouring markets, and the vendors who provide  
20 the forecasts that we use to prepare our net export  
21 revenue will continue to update their forecasts and  
22 reflect these anticipated changes.

23                  And lastly, Manitoba Hydro, as we've  
24 heard from Mr. Karanwal, we'll continue to engage with  
25 our counterparties in these markets to understand

1 their needs. To the extent there is surplus power  
2 that is not required for Manitobans, or there is the  
3 potential to leverage seasonal diversity with export  
4 customers in the future, Manitoba Hydro will work to  
5 secure those contracts that provide value and benefit  
6 to our domestic customers.

7 And that -- this concludes my direct  
8 evidence and our presentation of our panel. Thank  
9 you.

10 MS. ODETTE FERNANDES: Thank you, Mr.  
11 Gawne. In terms of housekeeping, I'd like to have  
12 this presentation marked as Manitoba Hydro Exhibit 30,  
13 and the panel is now open for questions.

14 THE CHAIRPERSON: Thank you.

15

16 --- EXHIBIT NO. MH-30: Manitoba Hydro  
17 Presentation

18

19 THE CHAIRPERSON: Did you want to  
20 start, Mr. Peters, or should we have the afternoon  
21 break? I don't -- I -- I don't know if you can divide  
22 your cross.

23 MR. BOB PETERS: My cross is always  
24 divisible. I'd like to start --

25 THE CHAIRPERSON: Okay.



1 MR. BOB PETERS: -- and we'll go until  
2 the Panel wants to take a break, or the witness panel  
3 wants to take a break.

4 THE CHAIRPERSON: Certainly.

5 MR. BOB PETERS: Thank you.

6

7 CROSS-EXAMINATION BY MR. BOB PETERS:

8 MR. BOB PETERS: Good afternoon,  
9 witness panel. First matter of business is to check  
10 up on my colleagues, Ms. Fernandes and Ms. Hiebert, to  
11 see if they've been doing their job.

12 So you should have received a volume 2  
13 of Board counsel's book of documents about a week ago,  
14 just a few extracts from the proceeding. And I see  
15 some of you reaching for it, so I suspect you -- you  
16 have it. You've got it, Mr. Turner? You can speak at  
17 this time?

18 MR. HAL TURNER: I have it, yes.

19 MR. BOB PETERS: And I'll also  
20 indicate -- and again, if Ms. Fernandes and Ms.  
21 Hiebert were doing their jobs -- and I'm almost sure  
22 they were -- if I have questions for one (1) witness  
23 and somebody else thinks they have something to add  
24 that would assist the Public Utilities Board, you're  
25 invited to -- to provide it.

1                   Put another way, if one (1) of your  
2 witness panel mates screws up and makes a mistake,  
3 don't hesitate to jump in and correct it right away so  
4 that we've got it on the record as to Manitoba Hydro's  
5 best answer.

6                   So with that, let's turn to Exhibit  
7 PUB-19-2, which is the book of documents, and let's  
8 start with page 5, please, the Total Precipitation  
9 Forecast Flow.

10                  Mr. Gawne, this -- for some reason, I  
11 think you and I will be talking, but your colleagues  
12 will jump in as I've invited them.

13                  You're familiar with this chart, sir?

14                  MR. KEVIN GAWNE:    Yes.

15                  MR. BOB PETERS:    And to orientate  
16 ourselves and the Board on this Figure 1, it starts in  
17 September of a particular year and then goes through  
18 for fifteen (15) months, correct?

19                  MR. KEVIN GAWNE:    Correct.

20                  MR. BOB PETERS:    And the drought year  
21 was the 2020/'21 year, which you've got with the red  
22 bars.

23                  Have I got that right?

24                  MR. KEVIN GAWNE:    Yeah.  That chart  
25 was prepared to provide information on the

1 precipitation conditions kind of leading up to that  
2 year of very low hydro generation. So we went back to  
3 start in 2020, September of 2020.

4 MR. BOB PETERS: I'm not sure what you  
5 mean by that. You're saying you could have gone back  
6 earlier, or you just --

7 MR. KEVIN GAWNE: No. The point of --  
8 of that response was to indicate that the effects of  
9 our hydro generation in '21/'22, which is what people  
10 are calling our drought year, you have to kind of look  
11 back a little further and -- and see how the  
12 conditions were leading up to that.

13 MR. BOB PETERS: And so you're telling  
14 the Panel, the -- the Board Panel, that your fiscal  
15 year 2021/'22 was the drought year?

16 MR. KEVIN GAWNE: That's where we saw  
17 the -- the majority of the effect on our finances,  
18 yes.

19 MR. BOB PETERS: Okay. And you've got  
20 three (3) different precipitation plots shown here on  
21 the -- on the graph. The grey bars represent normal  
22 or average, and the green bars are going back to  
23 2002/'03, correct?

24 MR. KEVIN GAWNE: Correct.

25 MR. BOB PETERS: And you plotted

1 2002/'03 just for relative purposes?

2 MR. KEVIN GAWNE: Yeah. That was  
3 plotted to give us reference to the last major drought  
4 Manitoba Hydro experienced prior to 2021.

5 MR. BOB PETERS: And that was the  
6 largest financial loss in Manitoba Hydro's history  
7 heretofore?

8 MR. KEVIN GAWNE: I'll say, yes,  
9 subject to check. On a relative basis, I can't speak  
10 to our total finance but we -- our -- I believe our --  
11 the impacts of that drought year were around \$600  
12 million relative to budget. And I think it was \$436  
13 million loss we reported in 2002/'03, subject to  
14 check.

15 MR. BOB PETERS: I think that's a  
16 fairly good memory, Mr. Gawne, so we'll accept that  
17 subject to your checking it.

18 If we turn back the clock to September  
19 of 2020, as you've done on this chart, Mr. Gawne,  
20 Manitoba Hydro was experiencing lower than normal  
21 precipitation at that point in time, correct?

22 MR. KEVIN GAWNE: In September of  
23 2020?

24 MR. BOB PETERS: Yes, sir.

25 MR. KEVIN GAWNE: Yeah, that's --

1 MR. BOB PETERS: That's seen by the  
2 red bar?

3 MR. KEVIN GAWNE: Yeah, the red bar is  
4 a little below the -- the grey bar, which is the  
5 average.

6 MR. BOB PETERS: And we see that on a  
7 month-by-month basis, the precipitation stayed below  
8 normal?

9 MR. KEVIN GAWNE: Stayed below normal  
10 on a cumulative basis? Yes. You can check how the  
11 bars change from month to month. You may see a month  
12 where things were covered a little bit, but it didn't  
13 climb above the average because it's a cumulative  
14 chart, but, yes, it stayed below average.

15 MR. BOB PETERS: Now that you say  
16 that, it never even got above the 2002/'03 levels, did  
17 it?

18

19 (BRIEF PAUSE)

20

21 MR. KEVIN GAWNE: You're referring the  
22 -- the -- sorry, the 2020/2021 year did not exceed the  
23 2003 -- leading into the '03/'04 drought, 2002/'03  
24 record, correct, they didn't lap. Cumulative total  
25 was -- was below.

1 MR. BOB PETERS: And I'm not going to  
2 get hung up on the word 'cumulative', Mr. Gawne, but  
3 these aren't cumulative, this is month by month,  
4 correct?

5 MR. KEVIN GAWNE: Oh, so, how you  
6 construct this chart is it's -- like, September is the  
7 absolute amount of precipitation that our system  
8 received on a -- across the whole 1.2 million square  
9 kilometres that we're looking at and all collapsed  
10 into one (1) bar.

11 So, we show in -- in, for instance,  
12 2020 of September, roughly 40 millimetres. And then  
13 in October, we didn't receive -- that bar is plotting  
14 at about 75 millimetres. We never receive 75  
15 millimetres in October. It's --

16 MR. BOB PETERS: No, I --

17 MR. KEVIN GAWNE: The difference  
18 between the two (2) is just -- is cumulative. Okay.

19 MR. BOB PETERS: Yeah, I -- I  
20 understand. And I -- I appreciate that. You've --  
21 what you're doing is you're adding the precipitation  
22 every month and the bars are getting larger based on --  
23 -- on that accumulation of precipitation?

24 MR. KEVIN GAWNE: Correct.

25 MR. BOB PETERS: And in all of those

1 instances, the accumulated actual precipitation in the  
2 2021 year were always below the actual precipitation  
3 accumulated in 2002 and 2003?

4

5

(BRIEF PAUSE)

6

7

MR. KEVIN GAWNE: That's correct.

8

MR. BOB PETERS: So, as we go down the  
9 -- the 'X' axis, as somebody referred to it this  
10 morning, and we get over to February and March, and  
11 then we look again for this red bar, we're seeing that  
12 in February and March we're still -- we're still below  
13 normal, and certainly below even the drought year of  
14 2002/'03, correct?

15

MR. KEVIN GAWNE: That's correct.

16

MR. BOB PETERS: Would it be fair, Mr.  
17 Gawne, at this time, to suggest that -- at this point  
18 in time, was Manitoba Hydro concerned that it might be  
19 entering into a drought period?

20

MR. KEVIN GAWNE: Like I said in the  
21 outset in the presentation, we're looking at this  
22 information every week. So, certainly as we see, you  
23 know, months and months of consecutive precipitation  
24 being below average, then, you know, we're -- we're  
25 alive to the water conditions all the time.

1                   So, where we'd be coming concerned, we  
2 were projecting, you know, generation at the point --  
3 once we got into March, April time frame, we were  
4 projecting a hydro generation for fiscal year '21/'22  
5 to be below average, but we were also advising  
6 executive and others that there's still a lot of --  
7 you know, there's the springtime.

8                   So, there was -- as I had said in the  
9 outset, March through August is when we typically get  
10 the most water in our system, so there was a lot of  
11 time left in the rain season to see the conditions  
12 recover.

13                   So, yes, we had -- storage conditions  
14 were about -- on April 1st, I think, overall storage  
15 conditions were about 80 percent of average and our  
16 flows I think were about 80 percent of average, and  
17 that was partially a product of -- of low snow melt  
18 runoff and the cumulation effect of a drier fall.

19                   So, we are aware of that, and we are --  
20 we are planning accordingly with the understanding of  
21 our storage and -- and flows and the -- the state of  
22 the basin.

23                   MR. BOB PETERS:    So, I take your  
24 answer to mean Manitoba Hydro was aware of the  
25 conditions, certainly but, at that point in time, it



1 was too early to be considering that there was a  
2 drought upon -- upon Manitoba?

3

4 (BRIEF PAUSE)

5

6 MR. KEVIN GAWNE: I think we've heard  
7 Mr. Cormie explain this in the past, that a flag of  
8 there's a drought or there's no drought really is --  
9 is kind of difficult thing to -- to answer to. It's  
10 not like a switch is flipped and we're now in drought.

11 So, yes, we are looking at conditions.  
12 And we were well aware that conditions were below  
13 average, and our planning accounted for that.

14 But, as Daymark has confirmed with us I  
15 think to a question -- responding to a question by the  
16 Board where they characterized the use of our  
17 operating priorities, and those priorities I walked  
18 the Board through earlier today, is those priorities  
19 apply under all water conditions. And where we are in  
20 those priorities kind of may be driven by water  
21 conditions.

22 So, we are looking at, you know, the  
23 chance of drought according to those priorities at all  
24 times.

25 MR. BOB PETERS: We'll come back to

1 those priorities, Mr. Gawne, in a bit. Turning the  
2 page to page 6 of Board counsel's book of documents,  
3 we see hydraulic energy from inflows. And I suppose,  
4 because it's a spaghetti chart, it's also drawn by an  
5 engineer. Have I got that right?

6 MR. KEVIN GAWNE: I think we use a  
7 computer for that, but, yes, an engineer designed that  
8 chart, no doubt.

9 MR. BOB PETERS: No doubt. And even  
10 with the low precipitation that you've told us about  
11 on the previous page, Hydro is seeing on the red line  
12 that the hydraulic energy from inflows is  
13 approximately average to above average through early  
14 April?

15

16 (BRIEF PAUSE)

17

18 MR. KEVIN GAWNE: Yes, that -- the  
19 aggregate level is -- is close to average there, yes.

20 MR. BOB PETERS: And the energy in  
21 storage also on page 6 of the book of documents, but  
22 at the bottom, if we follow the blue line from 2020,  
23 in September and October, all the way through and  
24 switching to the red line for the change in calendar  
25 years to March, April of 2021, the energy in storage

1 is near average.

2 Would I have that correct?

3

4 (BRIEF PAUSE)

5

6 MR. KEVIN GAWNE: Yeah, it was  
7 slightly below average, but -- terawatt hour below  
8 average. Yeah. Just one (1) sec.

9 MR. BOB PETERS: And -- and a point  
10 that I wasn't clear on in your --

11 MR. KEVIN GAWNE: One (1) sec, sorry.

12 MR. BOB PETERS: Oh, I'm sorry.

13

14 (BRIEF PAUSE)

15

16 MR. KEVIN GAWNE: Sorry, Mr. Peters.

17 MR. BOB PETERS: And, Mr. -- Mr.  
18 Gawne, I want to make sure I understood something you  
19 said in your direct evidence when you were reviewing  
20 your -- your PowerPoint.

21 On the screen in front of you, even if  
22 I could, if I counted those light grey tracings, that  
23 would represent forty (40) -- forty (40) tracings?

24 MR. KEVIN GAWNE: I believe, yeah.

25 So, the -- the -- if you look at the legend at the

1 top, it says, "1981 to 2019." And then you add on a  
2 few more years. So, that gets you -- it's roughly the  
3 forty (40) year record.

4 MR. BOB PETERS: And would the Board  
5 be correct in understanding that each of those lines  
6 has been drawn assuming the water and storage will  
7 also run through Keeyask generation -- generating  
8 station, which was not in place or in service until  
9 after 2020?

10 MR. KEVIN GAWNE: This chart is from  
11 the Interim Rate Application and -- just bear with me  
12 one sec.

13

14 (BRIEF PAUSE)

15

16 MR. KEVIN GAWNE: I don't know if it's  
17 possible to pull up the same energy and storage charts  
18 that I just showed, in parallel. Like, if you can  
19 pull the two up side by side?

20

21 (BRIEF PAUSE)

22

23 MR. BOB PETERS: Slide 12, I think,  
24 Ms. Schubert.

25

1 (BRIEF PAUSE)

2

3 MR. KEVIN GAWNE: Testing the limits  
4 of our -- all different systems here.

5 But so, yeah, the range estimates on  
6 those storage charts -- and, of course, one starts in  
7 April and the other ones starts in -- it's a calendar  
8 year, so it does make the comparison a little  
9 different -- difficult.

10 But they both bottom out at around 5  
11 terawatt hours and they peak out at around -- of  
12 course, unfortunately, back in the Interim Rate  
13 Application, which is the charts that you see on the  
14 left, that blue line didn't exist. We didn't know  
15 that was going to happen.

16 But -- so there's no peaky (sic) blue  
17 line there. But the -- that topped out at about 32  
18 terawatt hours.

19 So, you know, we -- we did our  
20 conversion. Once Keeyask units started to come  
21 online, we basically flipped over to an assumed set of  
22 production. And we're -- we're just showing this on  
23 an equal basis. Like, there's flow years here back  
24 from the '80s where we never had, you know, Wuskwatim  
25 and Limestone.

1                   So when we presented this chart to the  
2 Board at the Interim Rate Application, I'm quite  
3 certain that we had already factored in the addition  
4 on Keeyask in our charting.

5                   MR. BOB PETERS:   All right.  And, Mr.  
6 Gawne, I think it's important for the -- for the Board  
7 to understand that -- maybe try it this way.

8                   You -- you mentioned that -- one of the  
9 witnesses mentioned that the Winnipeg river system is  
10 important because a bucket of water in the Winnipeg  
11 river system is going to flow through fourteen (14) of  
12 -- of sixteen (16) Manitoba Hydro generating stations.  
13 Right?

14                   But forty (40) years ago, maybe all  
15 sixteen (16) of those generating stations hadn't yet  
16 been constructed, but you still have a spaghetti line  
17 on your chart.

18                   And what I'm wanting you to explain to  
19 this Board, or to confirm for this Board, is that  
20 you've now adjusted this chart to assume that prior  
21 years' energy and storage is flowing through all of  
22 the generating stations that it would flow through  
23 today.

24                   MR. KEVIN GAWNE:   Confirmed.

25                   MR. BOB PETERS:   Okay.  Thank you for

1 that.

2 MR. KEVIN GAWNE: If I could just add,  
3 Mr. Peters, this is a representation of our storage.  
4 The detailed modelling that I spoke of earlier, we're  
5 accounting for what generators are there or not there.  
6 And whether a unit at Keeyask has been commissioned or  
7 -- or is still -- you know, still being worked on  
8 being built or out of service.

9 So this is just an aggregate picture.  
10 Maybe not the big -- you know, the big, single  
11 dashboard metric that we might look at. But it's --  
12 it's a level deeper, but it's -- this is not used  
13 directly in our operations planning.

14 We're -- you know, we're remodelling  
15 the system in great detail.

16 MR. BOB PETERS: A minimum. You've  
17 summarized it for presentation to third parties,  
18 including this Board. Probably your own Board?

19 MR. KEVIN GAWNE: That's correct.

20 MR. BOB PETERS: All right. And Mr.  
21 Gawne, it appeared in -- I'm going to ask you to take  
22 this one away. In minimum filing requirement answer  
23 number 37, Manitoba Hydro also filed energy and  
24 storage.

25 And it appears, to -- to my eyes and

1 maybe even Mr. Hacault's fading eyes, that the  
2 information is stated the same way as it was at the  
3 Interim, which leads us to, again, ask for your  
4 confirmation that both were updated to reflect Keeyask  
5 being in service in these -- in these charts.

6 MR. KEVIN GAWNE: Yeah, I don't have  
7 that MFR in front of me. However, I'm quite certain -  
8 - you're speaking of MFR 37 with this rate  
9 application?

10 MR. BOB PETERS: Yes, sir.

11 MR. KEVIN GAWNE: Yes, it should --

12 MR. BOB PETERS: All right. We'll  
13 take that as a yes, subject to check. And I'll --  
14 I'll afford your counsel an opportunity to correct it  
15 if it's wrong. But thank you for that.

16 All right. Let's -- let's pick it up  
17 here, Mr. Gawne, and look at page 6, the hydraulic  
18 energy from inflows, again, at the top. And let's  
19 look on the red line.

20 Come May -- in May of 2021, in three  
21 (3) weeks, it appears that the hydraulic energy from  
22 inflows falls from -- I'm sorry. Yes, if we could --  
23 I think we can stop the split screen and we'll go to -  
24 - to the top of that page, please. To the graph at  
25 the top. Yes, there we go. Thank you.



1                   So on this hydraulic energy from  
2 inflows chart, and we picked the 2021 red line, and we  
3 get over to May of 2021, is it correct that in an  
4 approximate three (3) week period, it falls from above  
5 average to a low point, almost a record low for that  
6 time of year?

7                   MR. KEVIN GAWNE:    And that's correct.  
8 And I think that what we're seeing there -- subject to  
9 check -- is it was above average, but maybe because  
10 our melt was a little earlier, so we saw a little bit  
11 of a pulse of water coming in the runoff. And so,  
12 that red -- the red line and kind of early April/May  
13 time frame, crept above the average. And then, it  
14 quickly receded below, after the -- what snow was on  
15 the ground had melted.

16                   MR. BOB PETERS:    All right. And by  
17 the time we see that red line take its dip, if you can  
18 -- if I can call it that -- in -- into May, the snow  
19 melt would have already been accounted for?

20                   MR. KEVIN GAWNE:    I mean, there may  
21 have been some -- still some snow up north to -- to  
22 turn into water, but for the most part --

23                   MR. BOB PETERS:    All right. Mr.  
24 Gawne, in your offices every day, you're meeting and  
25 talking about this.

1                   Does this now -- this three (3) week  
2 trend -- suggest to you that there's a drought that's  
3 looming?

4                   MR. KEVIN GAWNE:    In the May time  
5 frame, where -- we -- we were -- like, our  
6 communications were that conditions were below normal.  
7 And we were projecting below average precipitation --  
8 pardon me -- below average hydraulic generation,  
9 assuming average precipitation for the remainder of  
10 the year.

11                   So technically, whether a drought was  
12 looming or not, we're aware of that condition. And  
13 the runoff -- the spring runoff was definitely below  
14 normal.

15                   MR. BOB PETERS:    So I'm taking, in  
16 your world, Mr. Gawne, you don't -- you don't lose  
17 sleep at night whether it's raining or not raining.  
18 Like, this is all part of -- every day you just go in  
19 and incrementally update where you are on -- on the  
20 hydrology of the Corporation.

21                   MR. KEVIN GAWNE:    We don't lose sleep  
22 over night -- we look at this and it's -- we take it  
23 very seriously.

24                   So, you know, to say I don't lose sleep  
25 overnight sometimes might be a bit of a stretch, but

1 we're updating the conditions regularly. And we have  
2 a plan to address things. We know drought will  
3 happen. Our system is planned for drought and we  
4 operate according to the procedures that we have in  
5 place. And -- and, you know --

6 MR. BOB PETERS: So --

7 MR. KEVIN GAWNE: -- the independent  
8 consultant, Daymark, had reviewed our operations and  
9 we followed those procedures accordingly.

10 So I am confident in our procedures and  
11 the team that we have providing the information to  
12 guide our operations. So that's -- that's certainly  
13 not what keeps me up at night.

14 MR. BOB PETERS: All right. So by the  
15 end of May in 2021, I think you indicated that you  
16 certainly knew your hydraulic energy from inflows was  
17 below normal. And if that -- you only had normal  
18 precipitation for the balance of the year, you were  
19 going to -- you were going to have reduced hydraulic  
20 energy, correct?

21 MR. KEVIN GAWNE: That's correct.

22 MR. BOB PETERS: And, at the end of  
23 May, did you and your team make -- make Mr. Turner and  
24 his executive team aware of where this -- the  
25 Corporation was in terms of its hydraulic energy and

1 the expected generation capabilities?

2

3

(BRIEF PAUSE)

4

5 MR. KEVIN GAWNE: If I could ask Ms.  
6 Schubert to pull up the Appendix 5.3 please.

7

8 This is our Drill Management Planning  
9 document. If you could go to page 28 please. That's  
10 not the page I was looking for. It's a -- it's a  
11 table -- the table on page -- it might be page 28 of  
12 the document -- the -- the PDF. There we are.

13 So, and we're not going to read through  
14 every line here, Mr. Peters, but the intent of this  
15 graphic is to give a little more detail as to the  
16 comment that I was providing on the outset about our  
17 continuous -- communication of -- of conditions.

18 So, every month Manitoba -- like our  
19 team and the water team that works with us, we're  
20 reporting on conditions in the system. And if we look  
21 at the second kind of chunk of data in here, starting  
22 at forecasts issued, pardon me. The first -- the --  
23 the beginning of the table.

24 Operating groups and -- operating  
25 groups and senior executive and so you can look at the  
various types of reports that are produced and the

1 frequency of those reports and where -- RX denotes  
2 reported to executive.

3 We're reporting on flows, reservoir  
4 levels, system potential energy and storage system  
5 potential energy in -- inflows and precipitation to  
6 executive on a -- a monthly basis at minimum. So,  
7 that information does get conveyed.

8 You look for the RX in the top portion  
9 of that table and then go across, that's the type of  
10 information that's going to our executive team.

11 MR. BOB PETERS: And so where it says  
12 minimum frequency, you're saying minimum on a monthly  
13 basis, Mr. Turner would have been made aware of what  
14 you're just telling us?

15 MR. KEVIN GAWNE: Well, Mr. Turner was  
16 not vice president -- my vice president at that time,  
17 but yes, it went to Lauren Midford (phonetic).

18 MR. BOB PETERS: Does this table tell  
19 us, Mr. Gawne, whether your then -- oh, I'm sorry --

20 MR. KEVIN GAWNE: Pardon me, go on,  
21 sorry.

22 MR. BOB PETERS: I was just going to  
23 say, does this table that you have -- had put up on  
24 the screen, tell us whether -- by the end of May this  
25 situation that we see developing on page 6 of Board

1 counsel's Book of Documents, had been reported through  
2 to the executive or was it reported some time later?

3 MR. KEVIN GAWNE: Those are regular  
4 reports that are produced on a monthly basis, but, you  
5 know, there was additional reporting that was being  
6 prepared, updates to our projected hydro-electric  
7 generation, in that May time frame.

8 MR. BOB PETERS: Is it month-end  
9 report, is that --

10 MR. KEVIN GAWNE: Generally, yeah,  
11 it's a monthly report so.

12 MR. BOB PETERS: All right. Well, the  
13 May 2021 precipitation and hydraulic energy from  
14 inflows was -- as -- together with the energy in  
15 storage were below normal, Mr. Gawne.

16 There were also some regulatory  
17 proceedings before the Public Utilities Board referred  
18 to as a status update process requested by some of  
19 Manitoba Hydro's ratepayers and Interveners.

20 Were you aware of that, sir?

21 MR. KEVIN GAWNE: Not in detail.

22 MR. BOB PETERS: Was anybody on the  
23 panel aware of that regulatory proceeding going on?

24 MR. HAL TURNER: We were aware that it  
25 was going on, we wouldn't have been -- would not have

1 been involved in great detail, so if the members of  
2 the Rates and Regulatory Panel would obviously have a  
3 lot more information and detail of what happened at  
4 that -- or what was happening at that time.

5 MR. BOB PETERS: All right. Then --  
6 this might go quicker. The -- on page -- excuse me,  
7 on Book of Documents, page 7, Manitoba Hydro sent a  
8 letter to the Public Utilities Board dated June 9th.

9 Did anybody on the panel contribute to  
10 the composition of that letter? Can you recall?

11 MR. KEVIN GAWNE: I believe -- I  
12 believe there was an appendix to this letter.

13 MR. BOB PETERS: At -- and -- you are  
14 correct and we'll -- we'll come to that, it's on page  
15 13 as an extract from it, Mr. Gawne, but I didn't put  
16 the whole appendix in. If you need it to --

17 MR. KEVIN GAWNE: So, for instance, on  
18 page 2 of this letter, our group would have been  
19 involved in -- in characterizing the current water  
20 conditions.

21 So, at page 8 of the PUB's Book of  
22 Documents, you see a series of summary information  
23 provided by Manitoba Hydro. Where at four (4), we  
24 explained the current water conditions storage and  
25 range of net export revenues were provided, I believe,

1 in that -- as an appendix to this letter.

2 MR. BOB PETERS: All right. And on  
3 page 10, of Board Counsel's Book of Documents, there's  
4 a heading near the bottom. It says,

5 "Too early to speculate and draw  
6 conclusions on the impact of low  
7 waters."

8 MR. KEVIN GAWNE: That's correct.

9 MR. BOB PETERS: Did you author that,  
10 Mr. Gawne?

11 MR. KEVIN GAWNE: I don't know if I  
12 authored that title specifically, but Appendix 4 which  
13 provides a discussion of the water supply conditions  
14 for '21/'22 and our energy outlook.

15 So, all of -- sensitivity analysis, our  
16 group would have been involved in preparing the  
17 technical information behind that.

18 MR. BOB PETERS: All right. On top of  
19 page 11 of this Board counsel Book of Documents, the  
20 same letter from June the 9th, by Manitoba Hydro to  
21 the PUB, there's a state -- a statement that for the  
22 2021/'22 forecast period:

23 "Overall system flows are  
24 approximately 80 percent of average  
25 for this time of year and hydraulic



1 generation is projected to be 5  
2 percent below normal, well within  
3 the typical year-to-year  
4 variability."

5 Correct? I read that correctly?

6 THE CHAIRPERSON: Actually, Mr.  
7 Peters, it says 5 percent below budget, not below  
8 normal.

9

10 CONTINUED BY MR. BOB PETERS:

11 MR. BOB PETERS: Sorry, Mr. Gawne, let  
12 me rephrase my question. On the top of page 11, in  
13 the last -- last sentence of the first full paragraph:

14 "For the 2021/'22 forecast period,  
15 overall system flows are  
16 approximately 80 percent of average  
17 for this time of year and hydraulic  
18 generation is projected to be 5  
19 percent below budget, well within  
20 the typical year-to-year  
21 variability."

22 I read that correctly this time?

23 MR. KEVIN GAWNE: You did, Mr.  
24 Peters.

25 MR. BOB PETERS: Thank you. And --

1 MR. KEVIN GAWNE: Just to add a little  
2 bit of context to that. If you recall, and I was  
3 speaking about it in our direct that, you know, we  
4 don't have the ability to forecast in -- precipitation  
5 in a -- on a long term -- long range basis, so we  
6 prepare our estimates of hydraulic generation, as well  
7 as the export revenues, based on a range of potential  
8 flow conditions.

9 So, when we state here that, based on -  
10 - on system inflows, based on overall system flows,  
11 are approximately 80 percent of average for this time  
12 of year, so that set the stage, and we were accounting  
13 for the storage that we had in reservoir storage at  
14 that time.

15 Hydraulic generation is projected to be  
16 5 percent below budget, but that five (5) -- that  
17 number is the average of the range of water conditions  
18 that we were projecting for the remainder of the year.

19 So, there would have been cases where  
20 that -- that are baked into that 5 percent below  
21 average number that they would have been lower, so  
22 just so we're clear. That's based on an average of a  
23 -- a multitude of potential flow conditions from that  
24 point forward.

25 MR. BOB PETERS: Can I summarize your

1 answer Mr. Gawne, by a -- you're telling the Board  
2 that, at that point in time that we're referring to  
3 here in this June 9th letter, Manitoba Hydro saw that  
4 they were 80 percent of average on the water and 5  
5 percent below on the generation side?

6 MR. KEVIN GAWNE: Yeah. Our storage  
7 condition was the 80 percent of average for that time  
8 of year and our projections for the year were 5  
9 percent below budget.

10 MR. BOB PETERS: I'm wondering, Mr.  
11 Gawne, when we look at that sentence again and we see  
12 that overall system flows are approximately 80 percent  
13 of average, we're not talking about storage there, are  
14 we?

15 MR. KEVIN GAWNE: That -- in that  
16 statement, we're -- we're talking flows. If -- if I  
17 said storage, I misspoke.

18 MR. BOB PETERS: Thank you.

19 MR. KEVIN GAWNE: I think an important  
20 thing to consider here, and we went through this in --  
21 in considerable detail, in the interim rate  
22 application, where, again, you can -- you can be  
23 cautious at looking at these aggregate numbers. It  
24 doesn't tell necessarily the entire story, but our  
25 modelling accounts for where the storage is and where

1 the flows are in the system, relative to our  
2 generation.

3 I think, in our -- if you were to read  
4 the appendix to this letter, Appendix 4, where we  
5 provide a discussion of our water conditions, I think  
6 we explain that there the conditions were quite varied  
7 across the entire basin. The southern portion of the  
8 basin was drier than the north. The Churchill River  
9 Basin was actually in flood.

10 MR. BOB PETERS: Okay. Thank you, Mr.  
11 Gawne. If we go back to page 6, though, and we look  
12 at this hydraulic energy and storage -- I'm sorry --  
13 sorry, let's look at the -- yes, the energy and  
14 storage chart.

15 Why is hydraulic generation only 5  
16 percent below budget in June of 2021, when energy and  
17 storage is well below normal?

18 MR. KEVIN GAWNE: I believe the --  
19 first of all, I believe the simulations that were  
20 behind these projections in -- in this letter of June  
21 9th were based on runs done, subject to check, in mid-  
22 May time-frame.

23 So, it is probably more appropriate --  
24 appropriate to go back to the mid-May, where, at that  
25 time, I think, our storage condition was -- and this

1 is the storage condition across the entire Nelson-  
2 Churchill River Basin, if you look at the numbers,  
3 let's say 12 1/2 terawatt hours, relative to, you  
4 know, now visually, just trying to estimate about 12  
5 1/2 terawatt hours and, on average, they would have  
6 been about 15 terawatt hours. Okay. So, that's,  
7 let's say, 2 terawatt hours below average, and our  
8 hydro system average is in the range of 36 terawatt  
9 hours.

10                   So, you know, storage is very  
11 important, but the bulk of our generation comes from  
12 the flows that are coming in to the system and they're  
13 used in that year. So, I think -- I think that's --  
14 if that helps with the -- with the answer, Mr. Peters.

15                   MR. BOB PETERS:    The energy and  
16 storage is about 25 percent below normal at that point  
17 in time, isn't it, using your numbers of 12 terawatts  
18 compared to 16, approximately?

19                   MR. KEVIN GAWNE:    Yeah, subject --  
20 yes, I'll go with that. Again, I'll have to look back  
21 at when the actual runs and simulations were prepared  
22 for this memo. That's 80 percent or 75 percent of  
23 total storage, just eye-balling off that chart.

24                   MR. BOB PETERS:    All right. Let's  
25 turn to page 14 of Board counsel's Book of Documents.

1 This is a July 6th letter that Manitoba Hydro wrote to  
2 the Public Utilities Board, apparently, in response to  
3 Intervener comments that had been filed, and, at the  
4 bottom of page 14, I guess the -- the last sentence,  
5 the --

6 "This information clearly  
7 establishes that there has not been  
8 a substantial change in Manitoba  
9 Hydro's financial circumstances [and  
10 it goes on to the next page] since  
11 Orders 59 of '18 and 69 of '19, when  
12 the PUB approved just and reasonable  
13 rates."

14 Do you see that sentence, Mr. Gawne?

15 MR. KEVIN GAWNE: I do.

16 MR. BOB PETERS: And you will  
17 acknowledge that, by July 6th of 2021, Manitoba  
18 Hydro's financial circumstances had turned negative,  
19 due to lower than normal precipitation?

20 MS. ODETTE FERNANDES: Mr. Peters...?

21 MR. BOB PETERS: Yes?

22 MS. ODETTE FERNANDES: In terms of the  
23 financial circumstances, I'm thinking these questions  
24 are better placed for the Revenue Requirement Panel,  
25 who can speak to those financial circumstances.

1 MR. BOB PETERS: Well, thank you, Ms.  
2 Fernandes. We'll -- we'll follow that up, then, with  
3 them.

4

5 CONTINUED BY MR. BOB PETERS:

6 MR. BOB PETERS: But let's, then,  
7 turn, Mr. Gawne, when the generation is below normal,  
8 you're expecting financial circumstances to likewise  
9 be below normal. Correct?

10 MR. KEVIN GAWNE: Well, all else being  
11 equal, yeah.

12 MR. BOB PETERS: It follows?

13 MR. KEVIN GAWNE: Yeah.

14 MR. BOB PETERS: Okay. All right.  
15 So, we won't get too engrossed in the math, but there  
16 was on page 20 of Board counsel's Book of Documents,  
17 under the "Conclusion from Manitoba Hydro," there's a  
18 sentence that, Manitoba Hydro submits, and I'm just  
19 under the word "conclusion" in that paragraph. Yes.

20 "Manitoba Hydro submits that the  
21 Coalition, as applicant, and all  
22 Interveners, have failed in their  
23 collective efforts to establish, on  
24 any factual basis, that there has  
25 been a substantial change in

1 Manitoba Hydro's circumstances."

2 At that point in time, Mr. Gawne,  
3 leaving aside what the Interveners are saying, is it  
4 your view that based on the water flow situations,  
5 there would have been a change in Manitoba Hydro's  
6 financial circumstances?

7 MS. ODETTE FERNANDES: Mr. Peters,  
8 once again, this is -- this letter was written by Mr.  
9 Czarnecki and he was basing comments around a legal  
10 test that needed to be established. So, I don't think  
11 it's a fair question for this witness.

12

13 CONTINUED BY MR. BOB PETERS:

14 MR. BOB PETERS: Would it be correct,  
15 then, Mr. Gawne, that, come July of 2021, you and your  
16 team were not aware as to what would be the effect of  
17 the lower than normal energy and storage would have on  
18 the Corporation's financial circumstances?

19

20 (BRIEF PAUSE)

21

22 MR. KEVIN GAWNE: Mr. Peters, we do  
23 our group forecasts and net export revenues and we're  
24 accounting for water supply conditions in our  
25 modelling. So, we would have had an understanding of



1 how our projections are looking, relative to budget,  
2 but that's one (1) component of our entire financial  
3 operations, so, I can't speak to all the other pieces  
4 that go into the financial operation of Manitoba  
5 Hydro. I -- I think --

6 MR. BOB PETERS: And I'm not --

7 MR. KEVIN GAWNE: -- as far as I can  
8 go is -- is to --

9 MR. BOB PETERS: I'm not asking you  
10 to, Mr. Gawne. I thank you for that, but, in terms of  
11 forecasting net export revenue, you knew that that was  
12 going to take a hit because the water flows were down?

13 MR. KEVIN GAWNE: Assuming -- assuming  
14 a range of future water supply conditions from that  
15 point forward, the projection was we were going to be  
16 below budget on hydrology -- or, pardon me, on hydro-  
17 electric generation.

18 And, as I had said earlier, all else  
19 being equal, we'll be -- that would put us in a below-  
20 budget position, but, as I said in my outsets, the  
21 majority of the water that we receive in our system  
22 comes between March -- March and August, or even early  
23 fall.

24 So, there was considerable uncertainty  
25 in the water supply conditions still, at that time,

1 despite having below-average storage, and we've seen  
2 rapid turnarounds in water conditions. So, hesitant  
3 to say I knew -- we knew that we would be below  
4 average -- or I'm not correctly repeating your words,  
5 but hesitant to -- to -- to give that level of  
6 certainty.

7 We also know that water conditions can  
8 change dramatically, and we saw that in -- in 2018 and  
9 2019 in the fall time frame when conditions changed  
10 from almost a pretty severe drought to record high for  
11 the fall period.

12 MR. BOB PETERS: You told the Board  
13 this morning -- I'm sorry, I guess it was this  
14 afternoon, Mr. Gawne, that in March there's a ten (10)  
15 week period that is important for precipitation for  
16 Manitoba Hydro, correct?

17 MR. HAL TURNER: Actually, Mr. Peters  
18 --

19 MR. BOB PETERS: That was you?

20 MR. HAL TURNER: That was me.

21 MR. BOB PETERS: Okay.

22 MR. HAL TURNER: And I -- I said that  
23 the -- typically the next two (2) weeks are important,  
24 but I also made a point --

25 MR. BOB PETERS: Ten (10) weeks?

1 MR. HAL TURNER: Ten (10) weeks,  
2 excuse me. Yes, my apologies. Typ -- typically the  
3 next ten (10) weeks are important. That's  
4 historically when we've seen the majority of our  
5 precipitation.

6 But as I mentioned, in 2019, and Kevin  
7 talked about in 2018, we saw significant precipitation  
8 in the fall. So, it's not a hard and fast rule.

9 MR. BOB PETERS: Okay. And -- and  
10 make no mistake, you're not -- things change, they  
11 change daily, and if the -- if the skies opened up and  
12 the precipitation came, a lot of these graphs and  
13 charts would look a lot different than do now.

14 I mean that's understood, correct?

15 MR. HAL TURNER: Correct.

16 MR. BOB PETERS: Now, let's just deal  
17 with what we had at the time. And, Mr. Gawne, I think  
18 you've -- you've gone as far as you can by saying that  
19 net export forecasting was going to be negative  
20 relative to budget at that point in time?

21 MR. KEVIN GAWNE: Yeah, assuming  
22 normal precipitation for the remainder of the year.

23 MR. BOB PETERS: And is it -- is it  
24 correct, and I'm not sure we've said this, that  
25 Manitoba Hydro's largest risk, biggest risk is that of

1 drought?

2 MR. KEVIN GAWNE: Drought is among the  
3 enterprise risks. I believe it's in the list of top  
4 nine (9), divided in tab 2 of our application.

5 MR. BOB PETERS: What's the top risk?

6 MR. KEVIN GAWNE: I'd have to look at  
7 that list, but I don't think I'm on it.

8

9 (BRIEF PAUSE)

10

11 MR. BOB PETERS: Mr. Turner, you  
12 weren't part of the executive, I think is what I  
13 heard, back in July of 2021?

14 MR. HAL TURNER: That is correct.

15 MR. BOB PETERS: When did you assume  
16 your Vice President's position? And I apologize, I  
17 haven't seen your CV that --

18 MR. HAL TURNER: It's fine. It was  
19 November.

20 MR. BOB PETERS: Of '21?

21 MR. HAL TURNER: November of 2021,  
22 yes.

23 MR. BOB PETERS: Thank you, sir.  
24 Well, let's turn to a new document that you may have  
25 seen, Mr. Turner and that would have been on page 29

1 of Board counsel's Book of Documents.

2 This is Manitoba Hydros publically  
3 released First Quarter Financial Report.

4 Would you have seen that, Mr. Turner?  
5 Mr. Gawne, would you have seen that?

6

7 (BRIEF PAUSE)

8

9 MR. KEVIN GAWNE: I saw that in your  
10 Book of Documents, yes. I do want to retract a  
11 comment that I made earlier about top enterprise  
12 risks. It does appear that drought is listed at the  
13 top of this list. I'm not sure if it's ranked, but --

14 MR. BOB PETERS: And you're number 2?

15 MR. KEVIN GAWNE: Interest rates. I  
16 have nothing to do with interest rates, no.

17 MR. BOB PETERS: No. Thank you, Mr.  
18 Gawne, we -- we have that. I wasn't going to -- I'm  
19 not testing your memory. I'm not holding that against  
20 you --

21 MR. KEVIN GAWNE: Thanks.

22 MR. BOB PETERS: -- but thank you.  
23 What I will hold against you is if you haven't seen,  
24 in real time, the Manitoba Hydro first quarter report  
25 found on page 29 of Board counsel's Book of Documents.

1 I appreciate you've seen it in the Book of Documents,  
2 but I take it you would have seen it, possibly, at the  
3 end of June or early July of 2021, Mr. Gawne?

4

5 (BRIEF PAUSE)

6

7 MR. BOB PETERS: Mr. Turner, feel free  
8 to jump in if -- if your memory is clear on this  
9 point.

10 MR. HAL TURNER: Mr. Turner is  
11 challenged by these mics. I apologize.

12 We see our financial rep --  
13 performances reported on a regular basis, so yes, we  
14 would have seen these reports, or I would have seen  
15 these reports. I can't speak for Kevin --

16 MR. BOB PETERS: No.

17 MR. HAL TURNER: -- whether or not he  
18 actually saw it at that time.

19 MR. BOB PETERS: And I appreciate  
20 these come out every quarter and -- and there's lots  
21 of them, but I'm going to draw your attention to the  
22 paragraph that's highlighted on the screen in front of  
23 you, that we've got a Q1 report and this is issued as  
24 of June 30th.

25 The Corporation is telling the world

1 that Manitoba Hydro is projecting a break-even net  
2 income for the 2021/'22 fiscal year. Do you see that?

3 MR. KEVIN GAWNE: Yes.

4 MR. HAL TURNER: We do.

5 MR. BOB PETERS: Yeah, and it's break  
6 even. I take that to mean zero dollars.

7 Is that what you take it to mean?

8 MR. HAL TURNER: That is how I would  
9 interpret it as well.

10 MR. BOB PETERS: And it was compared  
11 to a budgeted net income of \$190 million, correct?

12 MR. HAL TURNER: Correct.

13 MR. BOB PETERS: And the reason for  
14 that loss of projected net income of \$190 million is  
15 relative to export sales as a result of unfavourable  
16 water conditions. And so, Mr. Gawne, Ms. Sanclemente,  
17 Mr. Karanwal, you would all have been aware of that  
18 situation.

19 Would I have that correct?

20 MR. KEVIN GAWNE: Yes.

21 MR. BOB PETERS: And this page 29  
22 would have been a consolidated report.

23 Would that also be your understanding,  
24 Mr. Turner?

25 MR. HAL TURNER: It would.

1 MR. BOB PETERS: Now, Mr. Gawne, you  
2 asked about appendix to a June 9th letter, and I'll  
3 turn back, please, in my Book of Documents to page 13.  
4 And we see a part of that appendix 1, do we, Mr.  
5 Gawne? That's the one you're referring to?

6 MR. KEVIN GAWNE: I thought it was  
7 appendix 4 to the letter.

8 MR. BOB PETERS: I'm sorry, sir, I  
9 think your mic -- you were looking at appendix 4 I  
10 think you said?

11 MR. KEVIN GAWNE: I think -- I think  
12 the letter we were discussing earlier referred to  
13 appendix 4, which was an update on water conditions.

14 MR. BOB PETERS: All right. I've got  
15 your point, but looking on page 13 of Board counsel's  
16 Book of Documents, we look to the bottom chart, we  
17 have just seen in the quarter, Q1 report, there was a  
18 budgeted net income of \$190 million for the 2021/'22  
19 year, but that was on a consolidated basis.

20 So, on the electric basis, would I be  
21 correct, Mr. Turner, that the projected net income,  
22 the budget net income was \$177 million?

23

24

(BRIEF PAUSE)

25



1 MR. HAL TURNER: Correct, subject to  
2 check.

3 MR. BOB PETERS: All right. And so if  
4 I'm -- I'm trying to connect the time line dots here  
5 in that on June the 9th, on page 13, Manitoba Hydro  
6 was telling the Public Utilities Board that the  
7 forecast budget net income is 177 million on the  
8 electric side and then some three (3) weeks later, or  
9 the end of the Q1 report, that 177 million has  
10 disappeared, is lost, correct?

11

12 (BRIEF PAUSE)

13

14 MS. ODETTE FERNANDES: Mr. Peters,  
15 again, I -- I'd suggest that these questions be better  
16 posed for the Revenue Requirement Panel.

17

18 CONTINUED BY MR. BOB PETERS:

19 MR. BOB PETERS: Okay. Ms. Fernandes,  
20 let me ask your witness, if you'll allow it, the  
21 question to Mr. Gawne.

22 At the time -- did -- did you or your  
23 team, Mr. Gawne, have any input into the information  
24 that goes into Manitoba Hydro's Q1 report from  
25 2021/'22?

1 MR. KEVIN GAWNE: The Q1 report that's  
2 at page 29 of your Book of Documents?

3 MR. BOB PETERS: Yes, sir. And I  
4 think I've only -- I've only just put in a -- one (1)  
5 page of it, but yes.

6 MR. KEVIN GAWNE: Thank you. We would  
7 have had input to that in terms of projected net  
8 export revenues, the timing of which -- the timing of,  
9 I can't say for certain the timing of when we prepared  
10 our estimates versus when these reports are prepared,  
11 exactly line up.

12 I -- I would have to go back and -- and  
13 look into that, but --

14 MR. BOB PETERS: But -- but, Mr.  
15 Turner, these quarterly reports are being prepared

16 MR. HAL TURNER: I was -- I was  
17 actually going to ask you, Mr. Peters, if you know the  
18 date that this quarterly report was published. I'm  
19 not sure that's a safe assumption.

20 MR. BOB PETERS: Okay. I -- I don't  
21 have that, so why don't you take that as a takeaway,  
22 and -- and maybe you can get that back to us.

23 MR. HAL TURNER: Sure.

24 MR. BOB PETERS: All right. So, let's  
25 -- let's elevate the questions a little bit higher

1 here and keep Mr. Fernandes's hands away from the  
2 microphone, if we can, that it appears that Manitoba  
3 Hydro in its Q1 report is suggesting that -- it says  
4 190 million, but we know that it was 177 million of  
5 electricity net income is not going to materialize  
6 under the new forecast at the end of Q1 of 2021,  
7 correct?

8 MR. HAL TURNER: I -- I just have to -  
9 - I don't agree with the word 'we know'. As we've  
10 spoken to many times, we -- we can't predict the  
11 weather. Things can change rapidly.

12 So, we're forecasting that but, Mr.  
13 Peters, I -- we don't know that.

14 MR. BOB PETERS: Okay. That's a fair  
15 correction, Mr. Turner. What you're saying on page  
16 29, if we can go back to it, of Board counsel's book  
17 of documents, is that, based on what had been budgeted  
18 for the year of 2021/'22, the entire net income, or  
19 profit, has now been downgraded to zero dollars.

20 That we know, do we not?

21 MR. HAL TURNER: I think the key word  
22 there is the fifth word, which is 'projecting',  
23 current -- or and the fourth word, 'currently  
24 projecting'.

25 MR. BOB PETERS: Okay. Thank you for

1 that.

2 MR. HAL TURNER: So, as -- as we  
3 talked about in the past, in 2018/2019 we saw  
4 significant fall precipitation that had material  
5 impacts to our net export revenue forecast.

6 So, again, all -- all we can do at this  
7 time is say, based on average conditions going  
8 forward, this is what we are projecting.

9 MR. BOB PETERS: Thank you for that.  
10 As we know -- as we know, Mr. Turner, a breakeven net  
11 income for 2021/'22 would be \$260 million better than  
12 what actually happened?

13

14 (BRIEF PAUSE)

15

16 MR. HAL TURNER: Subject to check on  
17 the 260 number, I -- I believe you're correct, yes.

18 MR. BOB PETERS: I remembered that  
19 from your president, so I'll -- I'll, of course, blame  
20 her if I'm wrong, but thank you for that.

21 All we know now is that the Q1  
22 projections had been downgraded, and that's where it  
23 stood, correct?

24 MR. HAL TURNER: Correct.

25 MR. BOB PETERS: Without going too

1 many times backwards in this book of documents, back  
2 on pages 5, 6, and 7, if -- if, Mr. Gawne, you were to  
3 look at the July 2021 numbers and charts, would you  
4 agree that the precipitation is still below normal?

5                   Would you agree that the potential  
6 hydraulic energy from inflows is also well below  
7 normal?

8                   And you would -- would you agree that  
9 the potential energy and storage is likewise below  
10 normal on those pages, 5 and 6 of the book of  
11 documents?

12                   MR. KEVIN GAWNE:    Asking about July  
13 2021?  I would agree, yes.

14                   MR. BOB PETERS:    Yeah.  It's not  
15 getting better, is it?

16                   MR. KEVIN GAWNE:    No.  And the rain  
17 season was coming --

18                   MR. BOB PETERS:    To an end.

19                   MR. KEVIN GAWNE:    Well, we were  
20 getting well into the rain season.  And I would add  
21 that July was an absolute dry month.  And July 2021  
22 was an extremely dry month where we experienced record  
23 low precipitation over some of those key locations in  
24 the basin.

25                   And we were experiencing in the

1 July/August time frame extreme amounts of evaporation  
2 from our reservoirs. If you even look back to -- we  
3 may be able to pull it up from the interim rate  
4 application, but our energy from inflows for the  
5 Winnipeg River basin was actually below zero.

6                   So, what does that mean? All those  
7 tributaries that are flowing into the lakes and rivers  
8 aren't keeping up with the amount of evaporation  
9 that's going back into the atmosphere from the lake,  
10 so there's -- it was an exceptionally, exceptionally  
11 dry July. And -- and, you know, that's one (1) of our  
12 highest reset months. And we went through that month  
13 experiencing an extreme -- extremely dry month.

14                   MR. BOB PETERS: No, I appreciate the  
15 recall on that, Mr. Gawne. Thank you for that.

16                   Would you agree, Mr. Gawne, that if we  
17 repeat that same examination of the figures on pages 5  
18 and 6 of the book of documents for the months of  
19 August and September, the Board will see that lower  
20 precipitation and lower hydraulic energy from inflows  
21 and lower energy and storage persisted through those  
22 months, as well?

23                   MR. KEVIN GAWNE: We remained below  
24 average, but a little bit of caveat on that. If you  
25 look at how -- so, the red bars are the 2021 --

1 2020/'21 period. And if you look at the step between  
2 July and August, you know, you're looking at an  
3 accumulation of about 70 millimetres, let's say. It  
4 goes up to 400 millimetres from 330, roughly.

5                   So, if you look at the slope between  
6 those two (2) bars, it's actually steeper than the  
7 average. So, our August -- we got a bit of a pulse of  
8 water in August. You know, it wasn't -- it wasn't  
9 extremely low. August wasn't too bad.

10                   MR. BOB PETERS: But still lower than  
11 normal, as I suggested?

12                   MR. KEVIN GAWNE: Didn't recover. It  
13 didn't recover to average.

14                   MR. BOB PETERS: Okay. I'll accept  
15 that. Back to pages 22 to 26 of Board counsel's book  
16 of documents, we see the best photocopy I could find  
17 of a government press release.

18                   And this press release I think was  
19 dated September 22 of 2021, and I think it references  
20 a ministerial directive for Manitoba Hydro to seek an  
21 interim rate increase from the Public Utilities Board  
22 due to recent drought conditions.

23                   And do you see that?

24                   MR. KEVIN GAWNE: I do.

25                   MR. BOB PETERS: So, we go from the

1 July discussions we've had and the -- including the Q1  
2 financial report. We now see that in September of  
3 2020 -- sorry, September 22 of 2021 the government has  
4 directed Manitoba Hydro to seek an interim rate  
5 increase from the Public Utilities Board due to  
6 drought conditions.

7 So, from that, does it appear that the  
8 government believes that Manitoba Hydro's financial  
9 circumstances have changed substantially?

10

11 (BRIEF PAUSE)

12

13 MR. HAL TURNER: I wouldn't want to  
14 speak to what the government was thinking at that  
15 time, Mr. Peters.

16 MR. BOB PETERS: All right. But from  
17 Manitoba Hydro's perspective, you've got the  
18 government telling you to go see the Public Utilities  
19 Board for a rate increase.

20 Is that what you -- you make of this?

21 MR. HAL TURNER: That's what I see  
22 there, yes.

23

24 (BRIEF PAUSE)

25



1 MR. BOB PETERS: And if this  
2 directive, Mr. Turner, was issued to Manitoba Hydro on  
3 September the 17th of 2021 with a press release a few  
4 days later, can you explain why it took from the  
5 release of this press release until November 15th for  
6 Manitoba Hydro to file its interim General Rate  
7 Application?

8 MR. HAL TURNER: I think, Mr. Peters,  
9 that's a question best answered by the Rates and --  
10 Regulatory Rates Panel. Thank you.

11 MR. BOB PETERS: All right. Let me  
12 ask it this way of Mr. Gawne. Mr. Gawne, was there  
13 any hydrological reason for the delay between  
14 September 17th, 2021, and the -- the interim 2021/'22  
15 GRA being filed on November the 15th, 2021?

16

17 (BRIEF PAUSE)

18

19 MR. KEVIN GAWNE: No. We are pertain  
20 -- we're looking at water conditions every week, so I  
21 don't think there's a hydrologic reason that I could  
22 come up with for that, the timing of -- of these  
23 letters versus our rate application.

24 Certainly as we get close to winter,  
25 then there's more and more certainty in water supply

1 conditions and how things will play out for the fiscal  
2 year.

3                   Maybe Ms. Schubert could pull up our  
4 interim rate application at page 20 where we speak to  
5 how our uncertainty and projected hydraulic -- pardon  
6 me -- how our projected hydraulic generation evolved  
7 through that year.

8                   But as far as all the work that has to  
9 happen between -- in order to go and get a rate -- to  
10 appear before this Board for a rate increase and --  
11 and when that actually occurred, that involves  
12 multiple areas of the Company and I imagine approvals  
13 of the financial projections and -- and the like  
14 that's well beyond our area.

15                   Sorry, it's I believe page 20, please,  
16 Ms. Schubert. Yeah. And this is kind of an odd  
17 looking chart.

18                   MR. BOB PETERS: We're going to come  
19 to the -- we're going to get to it in my book of  
20 documents, so don't steal my thunder here, but go  
21 ahead if you have to.

22                   MR. KEVIN GAWNE: Well, no. The  
23 intent here is to explain how our projection for  
24 hydraul -- hydraulic -- hydroelectric generation in  
25 the fiscal year '21/'22 was evolving as we were

1 getting closer and closer to that fiscal year and --  
2 and closer to the end of calendar 2021.

3                   So, you know, back in January of 2020  
4 when we were running our simulations of all these  
5 ranges of hydrologic conditions, we were estimating  
6 that hydro -- hydroelectric generation could be  
7 between 22 terawatt hours and about 42 1/2 terawatt  
8 hours.

9                   MR. BOB PETERS:    Mr. Gawne, is that  
10 based on forty (40) years of flow data, approximately  
11 forty (40) years?  Is this -- is that what this is?

12                   MR. KEVIN GAWNE:    In January of 2020,  
13 that projection would have been based on...

14

15                                       (BRIEF PAUSE)

16

17                   MR. KEVIN GAWNE:    Quite certain that  
18 was when we were using forty (40) years of record, so  
19 that was the range of the most recent forty (40) years  
20 of record to establish that range of uncertainty.

21                                       So then as we approached and got into  
22 summer, you know, our -- our ranges tightened  
23 somewhat, but still quite broad.  And so -- so you can  
24 put your eyes to March of 2021.  Despite having below-  
25 average storage and kind of a dismal snow pack, we

1 were still assuming quite a broad range of potential  
2 hydro generation, you know, looking at about -- well,  
3 I'll let you read the numbers off there, fifteen (15).

4 MR. BOB PETERS: And -- and the point,  
5 Mr. Gawne --

6 MR. KEVIN GAWNE: The range was  
7 tightening, but one (1) -- one (1) thing I'd just like  
8 to close with on this -- on this chart, Mr. Peters, is  
9 -- and May conditions kind of narrowed. But then, as  
10 you can see, things actually dropped a little bit in  
11 terms of absolute value.

12 Once we got past that July -- July  
13 month, it was extremely off, kind of outside the range  
14 of -- of the historic conditions that we had used to  
15 simulate. So -- so the whole cloud kind of takes a  
16 bend there in the July time frame after July when we  
17 prepared that forecast.

18 And then of course, as we get closer  
19 and closer to that Interim Rate Application, we had  
20 greater certainty on hydroelectric generation for that  
21 '21/'22 year.

22 MR. BOB PETERS: Are you drawing a  
23 link between that July downtown or that collapse on  
24 this cone to the -- to the Q1 report, Mr. Gawne?

25 MR. KEVIN GAWNE: No. The Q1 report

1 wasn't driving any of this. It was our hydro -- our  
2 simulation of our hydroelectric operation.

3           What I was trying to explain, Mr.  
4 Peters, was, after we got -- after we experienced that  
5 June and through July extremely dry period, the range  
6 -- the -- the bottom end of hydro generation actually  
7 dropped.

8           So one might think, oh, you're going to  
9 have this cone of uncertainty and it's going to start  
10 really wide and you're going to end up somewhere in  
11 between those ranges. And it should always just get  
12 closer and closer to where you end up.

13           But my point was, as we were going  
14 through that summer of 2021 and, you know, we were  
15 seeing these precipitation accumulations lower than  
16 was experienced prior to like 1897 or something, our  
17 range kind of dropped. The whole -- the whole range  
18 shifted 'cause we were losing water through  
19 evaporation and inflows were low and stuff like this.

20           MR. BOB PETERS: All right. I -- I  
21 thank you, Mr. Gawne. I have -- I have your point.

22           I want to turn back to -- to my point  
23 and see if you still agree that -- I mean, I'd  
24 referred you back in my book of documents on page 5  
25 and 6, which I don't need to go through now in detail.

1                   But can we accept that, for -- for  
2 2021, we can generalize and say that precipitation was  
3 below average, precipitation was below the 2003  
4 drought levels, the hydraulic energy from inflows was  
5 certainly below normal, and the energy and storage was  
6 also below normal?

7                   Would you -- would you come that far  
8 with me, sir?

9                   MR. KEVIN GAWNE:    Yes, agreed.

10                  MR. BOB PETERS:   All right.  So then  
11 if we turn to page 27 in the book of documents, I want  
12 to turn to a new topic dealing with Manitoba Hydro's  
13 operations during the drought of 2021.

14                  THE CHAIRPERSON:   Sorry, Mr. Peters.  
15 If we're turning to a new topic, I -- I know how time  
16 flies when you're having fun, but it flew.  So I'm --  
17 I'm wondering if we can take a break until a little  
18 after 3:30.  Thank you.

19

20 --- Upon recessing at 3:21 p.m.

21 --- Upon resuming at 3:36 p.m.

22

23                  THE CHAIRPERSON:   Mr. Peters...?

24

25 CONTINUED BY MR. BOB PETERS:

1 MR. BOB PETERS: Thank you, Mr. Chair.  
2 Ms. Schubert was able to find a document that I'm  
3 going to get to in a minute, but I have -- I have  
4 three (3) requests I'll put to Mr. Gawne.

5 One that I'll speak to Mr. Turner about  
6 because I think he has some information. And then,  
7 I'm going to get to what's on the screen in front of  
8 us, if I could.

9 So Mr. Gawne, we talked about the May  
10 2021 situation. I showed you your spaghetti charts.  
11 And you indicated, by reference to Appendix -- I  
12 believe it was -- 5.3, the reporting time lines that  
13 you gave to the executive.

14 Do you recall those questions and those  
15 -- your answers?

16 MR. KEVIN GAWNE: I do.

17 MR. BOB PETERS: And I had suggested  
18 to you that your report to executive would have been  
19 at the month end, at the end of May.

20 And you, at least tacitly, agreed with  
21 me, correct?

22 MR. KEVIN GAWNE: Yeah. It might take  
23 a couple weeks to get those.

24 MR. BOB PETERS: Could you -- could  
25 you take that away and perhaps confirm the date that

1 you would have reported that through to your  
2 executives for the month of May?

3 MR. KEVIN GAWNE: For May of 2021?

4 MR. BOB PETERS: Yes, sir.

5 MR. KEVIN GAWNE: Yes, we can look at  
6 that.

7

8 --- UNDERTAKING NO. 1: Manitoba Hydro to confirm  
9 the date that time lines were  
10 reported to executives for May 2021

11

12 CONTINUED BY MR. BOB PETERS:

13 MR. BOB PETERS: All right. And while  
14 I've got you on that, so agreeable.

15 Mr. Gawne, we looked at the June 9th  
16 letter that your counsel had sent to the Public  
17 Utilities Board and ...

18

19 (BRIEF PAUSE)

20

21 MR. BOB PETERS: And, Ms. Schubert,  
22 sorry to do this to you, but on page 7 of Board  
23 counsel's book of documents is the front page of that  
24 June 9th letter.

25 And the June 9th letter, on page 7 of



1 Board counsel book of documents, talks about  
2 appendices.

3 And you had mentioned, Mr. Gawne, that  
4 Appendix 4 was one that certainly had your  
5 fingerprints all over it, correct?

6

7 (BRIEF PAUSE)

8

9 MR. KEVIN GAWNE: Our -- our -- sorry,  
10 Mr. Peters. Our group in energy operations planning  
11 would have been involved in the preparation of summary  
12 of water conditions and hydro generation, yes.

13 Whether my fingerprints were on it  
14 specifically, I can't say.

15 MR. BOB PETERS: So -- so Mr. Gawne,  
16 on the screen in front of you there's a listing of  
17 four (4) -- four (4) matters that the Board wanted  
18 Manitoba Hydro to report on.

19 And the fourth one dealt with the  
20 forecast of net export revenue and net income to  
21 incorporate water flow conditions updated to at least  
22 March 15th, 2021.

23 Do you see that?

24 MR. KEVIN GAWNE: Yes.

25 MR. BOB PETERS: And in a previous

1 answer you gave me before the afternoon break, there  
2 was uncertainty as to the date that the -- how current  
3 was the information that Manitoba Hydro was providing  
4 to the Board in its June 9th letter.

5                   And while the Board requested at least  
6 what they've said here, could you check again and  
7 confirm how current of information you were able to  
8 provide to support that June 9th letter?

9                   MR. KEVIN GAWNE:    Yeah.  We can  
10 undertake to determine that.

11                  MR. BOB PETERS:    Thank you, sir.

12                  MR. KEVIN GAWNE:    The undertaking is  
13 to come back to the Board with the response detailing  
14 when -- when the runs -- or sorry, when our  
15 projections of hydraulic -- hydroelectric generation  
16 were prepared that underlie the letter of June 9th,  
17 2021.  Does that sound --

18                  MR. BOB PETERS:    That's close.  I  
19 would like the -- the timing of the water flow  
20 conditions that you used to generate that.  I think  
21 maybe that was implicit in your -- your statement, but  
22 that's what I was really focusing on.

23                                So you would do that for me, sir?

24                  MR. KEVIN GAWNE:    Yes.

25

1 --- UNDERTAKING NO. 2: Manitoba Hydro to confirm  
2 timing of water flow conditions used  
3 to generate the letter dated June  
4 9th, 2021

5

6 CONTINUED BY MR. BOB PETERS:

7 MR. BOB PETERS: All right. Thank  
8 you. Mr. Turner, you too were busy over the break, I  
9 expect, checking to see when the Q1 of 2021 financial  
10 report was publicly released.

11 Were you able to -- to find out what  
12 that was?

13 MR. HAL TURNER: The date I was given  
14 was September -- late September -- around the 21st.

15 MR. BOB PETERS: So September 21st of  
16 2021 is when the first quarter financial report would  
17 have been publicized?

18 MR. HAL TURNER: That -- that is the  
19 date I was given at the break. And I think that date  
20 reflects some of the governance, right, with that --  
21 that report would have been reviewed by the executive  
22 leadership team. It would have also been reviewed by  
23 our Board.

24 And so, that would be why -- you know,  
25 the first quarter ends in end of June and it would

1 take a number of months for all that governance to  
2 happen.

3 MR. BOB PETERS: Rather than  
4 speculate, Mr. Turner, maybe we can ask Mr. Gawne to  
5 provide the Board with a further -- a third  
6 undertaking this afternoon. And that is to provide  
7 the Board with the dates of the water flow data that  
8 were used in the Q1 report.

9 Would that be possible to do?

10 MR. KEVIN GAWNE: Yes.

11 MR. BOB PETERS: All right. Thank you  
12 for that, Mr. Gawne.

13

14 --- UNDERTAKING NO. 3: Manitoba Hydro to provide the  
15 Board with the dates of the water  
16 flow data that were used in the Q1  
17 report

18

19 MR. KEVIN GAWNE: Mr. Peters, if I  
20 could, just on a separate topic. And I'd just like to  
21 wind back to a discussion before the break where we  
22 pulled up -- and I kind of beat you to the punch and  
23 pulled up that blue cloud chart. Thank you.

24 THE CHAIRPERSON: Sorry, it's just  
25 that when we have motorcycles behind, what happens is

1 the reporter says she's heard nothing but roars.

2

3 CONTINUED BY MR. BOB PETERS:

4 MR. BOB PETERS: Okay. So Mr. Gawne,  
5 Mr. Chair, I'm going to ask Ms. Schubert to pull up  
6 page 41 of Board counsel book of documents.

7 You tell me, sir, if it's the same  
8 document you were thinking of or --

9 MR. KEVIN GAWNE: Correct.

10 MR. BOB PETERS: Is it the exact same?

11 MR. KEVIN GAWNE: It is, yeah. And  
12 you had asked me before the break, Mr. Peters, if the  
13 range of uncertainty that was projected for -- for  
14 calendar -- pardon me -- for fiscal year 2021/22, when  
15 that range was prepared back in January of 2020, you  
16 had asked if that was based on the forty (40) years of  
17 record.

18 And I had agreed, but I was mistaken  
19 and corrected at the break.

20 That was based on the hundred (100)  
21 plus year record. And I'm quite certain, if we look  
22 back to the material or the text around this chart in  
23 the Interim Rate Application, we would have explained  
24 that.

25 MR. BOB PETERS: All right. And in my

1 -- my apologies, I missed that as well.

2                   But while we're looking at this same  
3 page 41 of Board counsel book of documents, this -- we  
4 call it a cone.

5                   Is there a period of time when the  
6 Corporation -- the Manitoba Hydro switched from the --  
7 from the one hundred (100) flow year records in  
8 developing their -- their forecast down to forty (40)  
9 years? Do we see that on this cone, Mr. Gawne?

10

11                   (BRIEF PAUSE)

12

13                   MR. KEVIN GAWNE: It's not shown  
14 explicitly what the crossover was. But once --  
15 essentially, at that time, if we are in -- in fiscal  
16 year '20, say we're in March of 2020 and we are  
17 projecting revenues for '21/'22, we would still have  
18 been using the hundred (100) year record, because it's  
19 more than a full fiscal year away, but once we stepped  
20 into, say, September of -- or October of 2020, then  
21 when we were projecting our hydraulic generation for  
22 fiscal year '21/'22, then we would have been the --  
23 using the forty (40) year record.

24                   MR. BOB PETERS: All right. I'm not  
25 going to hold you to it hard and fast on that, Mr.

1 Gawne, 'cause I'm not sure anything turns on it --

2 MR. KEVIN GAWNE: No.

3 MR. BOB PETERS: -- but -- I

4 appreciate your -- your -- bringing it up.

5 MR. KEVIN GAWNE: No. I -- actually  
6 on that point though, this business of the forty (40)  
7 years versus the hundred (100) years, I know has been  
8 a source of great confusion, I think, and I think it's  
9 helpful to go and take the time to look at Appendix  
10 5.4. It's quite a heavy appendix, but there is quite  
11 detailed analysis done by our hydrologic experts on  
12 analyzing the difference between those periods of  
13 record and the suitability of the use of that shorter  
14 record for our -- our operations planning and for our  
15 financial budgeting purposes.

16 And I -- if I'm not mistaken, I think  
17 there is twenty-two (22) different indices to test,  
18 you know, the difference in the hydrology and the  
19 like, but ultimately it landed on using the forty (40)  
20 year record provides a suitable range for the purposes  
21 that we were using at that time.

22 And -- and Dr. Rene Roy has --  
23 confirmed that, so we're trying to bring some closure  
24 to that issue and we're trying to improve our modeling  
25 by using more recent data and high resolution data.

1                   It's not to avoid any specific portion  
2 of the historic record, it's just trying to do things  
3 better.

4                   And, part of the source of my confusion  
5 about what's the history that was used and I'm -- I'll  
6 steal a phrase from our president and CEO to use  
7 yesterday and I'm probably mess -- mix it up, but I  
8 think she said performing while transforming or  
9 transforming while performing, one of the two (2) and  
10 -- and that's what we're trying to do here.

11                   Is we're evolving our -- our systems to  
12 better reflect the uncertainty in hydrology and our  
13 budgeting and our operations. And we're kind of in  
14 that transition state right now, where we're starting  
15 to build out these systems and -- and unfortunately,  
16 we happened to have a drought right in the middle of  
17 it and it created a lot of confusion.

18                   But, hopefully, that appendix that we  
19 included in our application helps to clear that up.

20                   MR. BOB PETERS:    And Mr. Gawne, I'm  
21 going to give you a -- I don't know if it's going to  
22 be late today, it'll probably be the first thing  
23 tomorrow morning, an opportunity to try to convince  
24 the -- this Board to bring closure to that issue. So,  
25 I've got some questions for you on that at that time,



1 so if it can wait till then, sir?

2 Mr. Gawne, there was something else you  
3 had mentioned this afternoon in your evidence and in  
4 response to the Board. I believe that you referenced  
5 from Manitoba Hydro's direct evidence, which was  
6 Exhibit Manitoba Hydro 25, back in the 2019/20 GRA,  
7 you were talking about how circumstances with  
8 precipitation changed relatively quickly.

9 Do you recall your giving answers to  
10 that effect, Mr. Gawne?

11 MR. KEVIN GAWNE: Yes, I do. Sorry,  
12 and this chart here was taken, I apologize, I missed  
13 that, this chart was provided in the 2019 GRA. Is  
14 that correct?

15 MR. BOB PETERS: Yes, it -- yes,  
16 that's where we -- we found it in -- as Exhibit  
17 Manitoba Hydro 25, of the direct evidence. It would  
18 have been a powerpoint chart that Ms. Fernandes and  
19 Ms. Hiebert would have helped orchestrate with you.

20 MR. KEVIN GAWNE: Right and -- and  
21 then I had referred to this, in my testimony, in -- in  
22 our 2021 Interim Rate Application.

23 MR. BOB PETERS: No, Mr. Gawne, I  
24 understood that you were telling this Board that  
25 Manitoba Hydro is cautious and Mr. Turner called me up

1 on it and made sure I was understanding it was  
2 projected because precipitation can change relatively  
3 quickly.

4 Do you recall discussion to that  
5 effect?

6 MR. KEVIN GAWNE: Yes.

7 MR. BOB PETERS: And, you indicated  
8 that, back in the, I think it was in the 2018/'19 time  
9 period, there was precipitation that caused Manitoba  
10 Hydro's fortunes to change relatively quickly.

11 Did I understand you correctly?

12 MR. KEVIN GAWNE: Yeah, and we were  
13 specifically referring to later in the season  
14 precipitation, or I was and --

15 MR. BOB PETERS: All right. So, we're  
16 looking at precipitation over the full year are we  
17 not?

18 MR. KEVIN GAWNE: Well, we're looking  
19 at flows over the full year. The -- the spaghetti  
20 chart you see on the top is the total system flows, in  
21 terms of energy. So, we're pro-rating things, like I  
22 spoke of earlier.

23 And then below that is the Winnipeg  
24 River, which I -- that I had mentioned earlier, was an  
25 important part of our basin, so it's just now looking

1 at the Winnipeg River and the flows that were coming  
2 into that basin in terms of energy, so weighting it by  
3 all those generators downstream.

4                   And you see that we had a -- a -- kind  
5 of bust for a snow melt run-off in the beginning of  
6 the year and not much through the summer, and then  
7 things really turned around, starting in August. And  
8 we ended up being above average towards the -- the  
9 back end of that water year.

10                   So, that was the point when -- when  
11 some of these estimates are prepared and the March  
12 time frame, or even June, that things can turn around  
13 rather quickly and -- particularly from dry to wet.

14                   You know, that transition can happen  
15 rather quickly and even more dramatic -- and I don't  
16 think we have a chart anywhere to show you, but I  
17 could probably tease out which of the gray little  
18 lines it is from an earlier chart.

19                   But in 2019, the Winnipeg River went  
20 from -- in August I think it was, you know, about  
21 let's say 40 percent below average and it transitioned  
22 to absolute record high by October, where flows  
23 increased by a factor of four (4) or times, so --

24                   MR. BOB PETERS:    But not in 2018/'19 -  
25 -

1 MR. KEVIN GAWNE: Not in '18/'19, so I  
2 didn't. I don't think we had the -- this is fiscal  
3 year 20 --

4 MR. BOB PETERS: The point --

5 MR. KEVIN GAWNE: -- nine (9) -- this  
6 is 2019/'20, so sorry, but if we would have plotted  
7 the rest of that red line, we had a dramatic flip  
8 again in conditions in the fall of 2019.

9 MR. BOB PETERS: Okay, the underlying  
10 point you're trying to make to the Board, Mr. Gawne,  
11 is that Manitoba Hydro's precipitation can change in a  
12 relatively short period of time and that will have a  
13 significant influence on Manitoba Hydro's financial  
14 performance.

15 MR. KEVIN GAWNE: Yes, thank you for  
16 summarizing. I appreciate that help.

17 MR. BOB PETERS: Okay, well I've got  
18 your point.

19 MR. HAL TURNER: And I -- I think that  
20 was my evidence and I apologize. I'm -- I'm not a  
21 hydrologist, I'm a Winnipeg River cottager, so I tend  
22 to -- I tend to anchor these things to events that  
23 happened at the cottage.

24 And at -- the point I was trying to  
25 make is that, while, you know, the next ten (10) weeks

1 is typically when we see a lot of precipitation, it's  
2 not the only time we see a lot of precipitation. I  
3 wasn't going so far as to say that will impact our  
4 financial situation. It may, but it was just more  
5 that the weather is what the weather is and we don't  
6 control it and it can happen at any time.

7 MR. BOB PETERS: Thank you for your  
8 points. I'd like to turn -- I'd like to -- oh I'll --  
9 this -- this document, just because we referred to it,  
10 we'll put it as PUB Exhibit 22, if we could, just so  
11 that it's in the record and people will wonder where  
12 it's from that -- and what we're referring to. So  
13 thank you.

14

15 --- EXHIBIT NO. PUB-22: Chart

16

17 CONTINUED BY MR. BOB PETERS:

18 Let's turn to PUB Exhibit 19-2, page  
19 27, which is the Book of Documents. And we're going  
20 to talk about Manitoba Hydro's operations during the  
21 drought of 2021, if we can. And, again, it's open to  
22 the panel to assist as I go through this topic.

23 Before the -- before the afternoon  
24 recess, Mr. Gawne, I think you had agreed with me that  
25 for 2021 precipitation was below average, the

1 hydraulic energy from inflows was below normal and  
2 energy storage was also below normal in that year.  
3 Correct?

4 MR. KEVIN GAWNE: Correct.

5 MR. BOB PETERS: And so when it came  
6 time to export energy in April and May of 2021, does  
7 Manitoba Hydro have to be cautious about how much  
8 energy it exports. Either Mr. Gawne or Ms.  
9 Sanclemente, I'm not sure where this will fall.

10

11 (BRIEF PAUSE)

12

13 MR. KEVIN GAWNE: Let me try to help  
14 with this response and we'll see where we -- we go.

15 MR. BOB PETERS: Yeah. Always and  
16 it's welcome. Anyone else can interrupt, as they --  
17 as they choose and, as we've said, but -- but, so,  
18 let's -- let's start off, then, Mr. Gawne, by -- by  
19 just taking a step back.

20 Would it be correct for the Board to  
21 understand that most of the peak exports that Manitoba  
22 Hydro would have been doing in -- in April and May of  
23 2021 would have related to, I'll call them, locked in  
24 contractual obligations, recognizing we're getting  
25 close to a -- a confidential line that we don't want

1 to cross?

2

3

(BRIEF PAUSE)

4

5

MR. KEVIN GAWNE: I believe that's

6

correct. We might have to dig out those numbers to

7

look at monthly resolution, but, yes, --

8

MR. BOB PETERS: Yeah. I think, if we

9

did that, we'd be into some confidential information,

10

and I'm not -- not intending to go there.

11

And, then, would it be correct that,

12

for off-peak exports, those would be of the

13

opportunity export sales that the -- the panel talked

14

about in their direct evidence?

15

MS. CHERYL SANCLEMENTE: Yes. That's

16

correct. Yes.

17

MR. BOB PETERS: Now, I don't know

18

what it is, when you give engineers a box of crayons,

19

they make lots of graphs with colours. But let's look

20

at this busy graph at page 27, and see if we can

21

understand -- Manitoba Hydro has overlaid their

22

reservoir outflows with their import and export

23

operations.

24

Correct, at least according to the

25

title?

1 MR. KEVIN GAWNE: Yes. Flows in this  
2 chart are shown as the lines and they -- so the solid  
3 blue line and the broken blue line, and those  
4 correspond with the axis -- the right axis -- the  
5 right vertical axis.

6 MR. BOB PETERS: And we're talking  
7 April 2021 to August of 2022. Correct?

8 MR. KEVIN GAWNE: Correct.

9 MR. BOB PETERS: And both exports,  
10 that's both the on-peak and the off-peak, are colour-  
11 coded in the bars, in the dark green and the light  
12 green, respectively. Would that be true?

13 MR. KEVIN GAWNE: Correct.

14 MR. BOB PETERS: And the imports,  
15 again, both on-peak imports and off-peak hours of  
16 imports, are mostly from the United States and are in  
17 colour-coded bars of red and yellow/orange,  
18 respectively?

19 MR. KEVIN GAWNE: Correct.

20 MR. BOB PETERS: All right. Again, I  
21 just -- be mindful that we're not asking you to  
22 disclose any information that Manitoba Hydro wants  
23 kept off the public record and, if needed, we can  
24 address it in an in-camera session.

25 When we're looking at the light green



1 bars, in April and May of 2021, it appears Manitoba  
2 Hydro is increasing its off-peak opportunity exports.

3                   Would I -- would that be a correct  
4 interpretation by this Board?

5                   MR. KEVIN GAWNE:    Yep.  That's true.  
6 The May exports in the off-peak were higher than  
7 April.

8                   MR. BOB PETERS:    And this is at a  
9 time, Mr. Gawne, when you've already told the Board  
10 that there were indications that the water was going  
11 to be -- was more limited than it had been normally  
12 and, certainly, it had been in 2002/'03 drought?

13                   MR. KEVIN GAWNE:    That's true, Mr.  
14 Peters.  We do realize -- just if I can provide a  
15 little bit of context, that our system is not  
16 necessarily so nimble as to be able to just stop the  
17 flow wherever in the system you're looking.

18                   Can I explain this?  The releases from  
19 like Winnipeg take a number of weeks to reach the  
20 lower Nelson River, which is the bulk of our system,  
21 and that can drive our net export position.  So,  
22 releases out of Lake Winnipeg that are arriving  
23 towards the Nelson River -- the majority of the Nelson  
24 River, in May, like, those are a function of release -  
25 - releases that were made in -- in the March time-

1 frame, and you also have local snow melt runoff, that  
2 you can't, you know, take back and put up in Lake  
3 Winnipeg. It's going to come to those stations,  
4 whether you want it to or not.

5                   So, again, in my out -- opening  
6 comments that the export market was the balance of  
7 supply and demand, I can't speak to Manitoba load  
8 conditions, you know, I forget, frankly, whether  
9 Manitoba load conditions were below forecast in May,  
10 and that could contribute to sur -- more surplus.

11                   So, there is a number of pieces moving  
12 here, but your observation is, yes, May net export  
13 revenues, on a physical basis, were higher in -- in  
14 the month of -- than the month of April.

15                   MR. BOB PETERS:   And, if the March  
16 releases of water from your reservoirs is what enabled  
17 Manitoba Hydro to have those off-peak exports, Mr.  
18 Gawne, those releases would have been, you've  
19 suggested, up to six (6) weeks earlier?

20                   MR. KEVIN GAWNE:   There's probably  
21 hydraulics folks in our Company, listening to me right  
22 now, and I'll estimate four (4) to six (6) weeks --  
23 four (4) weeks, I think, it would be a --

24                   MR. BOB PETERS:   All right.  So --

25                   MR. KEVIN GAWNE:   -- better estimate.

1 MR. BOB PETERS: -- but four (4) to  
2 six (6) weeks before May, Manitoba Hydro had all --  
3 sorry.

4 Mr. Gawne, four -- four (4) weeks below  
5 -- sorry -- four (4) weeks before the May off-peak  
6 exports, shown in the green bar, on the month of May  
7 of 2021, Manitoba Hydro had already seen, from your  
8 group, that water was below normal and below average.  
9 Correct?

10 MR. KEVIN GAWNE: That's correct.

11 MR. BOB PETERS: And the decision was  
12 still made to release the water, flow it down the  
13 river, knowing it would go through the turbines -- or  
14 the generators. Thank you. You educated me --

15 MR. KEVIN GAWNE: Turbines --

16 MR. BOB PETERS: 'Turbines' is a  
17 better word. And, then, it would produce electricity  
18 that would end up being exported, if not used in  
19 Manitoba?

20 MR. KEVIN GAWNE: Correct --

21 MR. BOB PETERS: All right, and -- and  
22 sorry?

23 MR. KEVIN GAWNE: -- and, again, that  
24 -- those decisions to release that water from Lake  
25 Winnipeg were made with the full understanding that

1 the outcome of that hydrologic year or the water year,  
2 starting in April, is very uncertain. There was this  
3 wide range of like --

4 MR. BOB PETERS: -- unknown, unknown.

5 MR. KEVIN GAWNE: So, the decisions to  
6 release that water are based on we were operating and  
7 that's according to our priorities, that we talked  
8 about earlier, and we were in a -- it was an economic  
9 decision to release that water, and other factors, as  
10 I mentioned earlier, snow melt, run-off, and all this  
11 stuff so.

12 MR. BOB PETERS: Okay. Well, let me  
13 just catch that last point you made, Mr. Gawne, that  
14 the economic decision was, here's an opportunity to  
15 make money, so we're going to release water because  
16 there's no reason we shouldn't, according to those who  
17 are operating.

18 MR. KEVIN GAWNE: No. It's not that  
19 there's no reason we shouldn't. Our -- our modelling  
20 accounts for the fact that we might actually get a  
21 very dry year and it would have -- had we known the  
22 drought of '21 was going to occur, then the decision  
23 would not -- have been likely to reduce flows out of  
24 Lake Winnipeg sooner.

25 But we didn't have that perfect

1 foreknowledge, and we made the best decision, with the  
2 information we had at the time, and with the like --  
3 high likelihood that, you know, there's a whole year  
4 ahead of us, in terms of precipitation, right, and we  
5 saw such a turn-around in -- occur in 2022. We had a  
6 major event in April and May. It completely flipped  
7 the water situa -- situation.

8 MR. BOB PETERS: Okay. Mr. Gawne, if  
9 we turn to the month of June of 2021 on this chart on  
10 page 27. And, again, we look at the off-peak exports,  
11 we see, in the light green vertical bar, that, while  
12 Manitoba Hydro has throttled back a bit on their off-  
13 peak exports, they're still exporting at a -- at a  
14 pretty significant rate. Correct?

15 MR. KEVIN GAWNE: I guess that depends  
16 on your definition of 'significant', Mr. Peters. Like  
17 if we look over to a year, to June 2022, where off-  
18 peak exports (sic) were about 900 gigawatt hours, that  
19 light green line, correct?

20 MR. BOB PETERS: Yeah, I'll go --

21 MR. KEVIN GAWNE: Double -- about  
22 double, right. So, significant, yeah. We were off  
23 exporting in the off-peak in the month of June.

24 MR. BOB PETERS: But we can -- we can  
25 see the scale of the gigawatt hours on the left, or

1 the Y-axis, correct?

2 MR. KEVIN GAWNE: Correct.

3 MR. BOB PETERS: All right.

4 MR. KEVIN GAWNE: Yeah.

5 MR. BOB PETERS: So, if Manitoba Hydro  
6 was still exporting off-peak over 300 gigawatt hours  
7 in the -- in that month, correct?

8 MR. KEVIN GAWNE: That's correct.

9 MR. BOB PETERS: And -- and June was  
10 the month which is the end of Manitoba Hydro's first  
11 quarter report, correct?

12 MR. KEVIN GAWNE: Yes.

13 MR. BOB PETERS: And we saw on the  
14 first quarter report that Mr. Turner reminded us was  
15 being -- didn't get publically released until some  
16 months later.

17 But the information for that first  
18 quarter report led Manitoba Hydro to believe it was  
19 going to lose \$177 million of net income due to  
20 drought, correct?

21 MR. HAL TURNER: I -- I think that's  
22 incorrect, Mr. Peters. The -- the drought situation  
23 evolved rapidly. So, to say as they were making their  
24 decisions in -- in June, that we knew -- you know,  
25 that we -- at that point we're projecting to break

1 even for the year.

2 I don't think that's an accurate  
3 statement. So I think you're -- you're inferring a  
4 little bit more foresight than we may have had at that  
5 time.

6 MR. BOB PETERS: All right. Wasn't it  
7 Manitoba Hydro's report that said they're down \$177  
8 million or \$190 million due to low water flows?

9 MR. HAL TURNER: The report that was  
10 published in September?

11 MR. BOB PETERS: Yes.

12 MR. HAL TURNER: Correct.

13 MR. BOB PETERS: And they were  
14 preparing the first quarter report contemporaneous  
15 with the end of the first quarter, I would assume?

16 MR. HAL TURNER: I -- I think that's  
17 an incorrect assumption. There's a time lag there.  
18 It takes time to collect all your actual data, compile  
19 it, you know -- it -- it -- to think that it's June  
20 30th at midnight and Kevin sends his numbers over to  
21 the finance folks and the report is done the next  
22 morning, it's not quite that simple, sir.

23 There's -- there's lots of moving  
24 parts. This is one (1) component of -- of the things  
25 that we consider in our financial outlooks. And so,

1 there is that time lag there.

2                   And so to infer that we know exactly  
3 where we're going to project to be in -- as they're  
4 making these decisions in June, that's -- that's not  
5 correct.

6                   MR. BOB PETERS:    But the Q1 report --  
7 my -- my point is that the Q1 report only reports to  
8 the end of June, correct?

9                   MR. HAL TURNER:    That is correct.

10                  MR. BOB PETERS:    And if Manitoba Hydro  
11 -- you're saying Manitoba Hydro doesn't know --  
12 doesn't have the systems in place to know by the end  
13 of June or in the next few weeks after that, where it  
14 -- where its situation is? They have to wait three  
15 (3) more months in to September?

16

17                                   (BRIEF PAUSE)

18

19                  MR. HAL TURNER:    Mr. Peters, I think  
20 there's -- as I mentioned earlier, there's a --  
21 there's a time lag.

22                   So, decisions that we're making real  
23 time in June and then all of the information that gets  
24 com -- to think that the -- the group that's making  
25 those real time decisions has the benefit of knowing



1 all of that aggreg -- aggregate information that gets  
2 compiled in that quarterly report, that's -- that's  
3 not a fair characterization.

4                   So, earlier you asked for some  
5 undertakings on the different dates that -- that --  
6 where the information made these reports, I would  
7 suggest it may be better for us to be able to give you  
8 that answer and then we can have a -- a clearer  
9 discussion on what we knew and didn't know.

10                   But -- but to say that, you know, the  
11 team, when they were making these decisions on how to  
12 operate the system and how to engage with the export  
13 market in May and June that they had all the  
14 information and knowledge that is contained in the Q1  
15 end report, that's -- that's not correct.

16                   MR. BOB PETERS: Well, let's wait  
17 until we get those dates, but are you telling me then  
18 that the June 30th, Quarter 1 end date data is not  
19 based on data that occurs in the first quarter, but  
20 it's based on data that arrives and is calculated  
21 after that?

22                   MR. HAL TURNER: We -- I think that's  
23 a question, actually, that the Revenue Requirement  
24 Panel can best answer. Mr. Tess will have a lot more  
25 knowledge in that area than I do.

1 MR. BOB PETERS: Okay. I've got your  
2 point. Let's move on. Stay with --

3 MR. KEVIN GAWNE: Mr. Peters, if I  
4 could just add one (1) -- one (1) small comment, that  
5 these projected volumes that you see in the April,  
6 May, June time frame, the preceding text before that  
7 figure in our application starting at page -- page 24  
8 that it kind of goes through the chronology of our  
9 operations.

10 We explained with -- you know, right at  
11 the beginning with the below average snow melts at  
12 page 25 of our tab 5 of our application. In spring  
13 '21, storage releases were being reduced, resulting in  
14 export volumes being below budget.

15 So, just so we're clear, yes, there was  
16 exports happening and they may have been opportunity  
17 exports, but we were acting. And -- and these  
18 operations were reviewed by the Public Utility Board's  
19 independent consultants and -- and confirmed that we -  
20 - you know, Manitoba Hydro's operations were  
21 consistent with their policies and procedures.

22 MR. BOB PETERS: It does show, Mr.  
23 Gawne, on page 27 of Board counsel's Book of  
24 Documents, if go to the summer of 2021, which for me  
25 would have been the June, July, August Manitoba Hydro

1 is reducing the amount of off-peak exports, correct?

2 MR. KEVIN GAWNE: That's correct. We  
3 also were operating -- when you look at -- I think  
4 it's quite indicative here if you look at Cedar Lake  
5 outflow, that's our Grand Rapids generating station  
6 where we can kind of respond quite rapidly to  
7 conditions.

8 We are basically operating the outflow  
9 from that reservoir. Our second largest reservoir  
10 almost at zero once we get into the August time frame.

11 MR. BOB PETERS: I'll -- I'll come  
12 back a little bit on that, but I -- I've got your  
13 point. Thank you.

14 Perhaps you can assist the Board in  
15 understanding a point that was appearing in the  
16 Daymark Public Report. It's on page 28 of Board  
17 counsels Book of Documents and you've obviously  
18 reviewed the Daymark report, Mr. Gawne.

19 There's a ranked list of priorities and  
20 constraints as to how Manitoba Hydro will operate  
21 under adverse water conditions.

22 Have I got that right?

23 MR. KEVIN GAWNE: These are -- these  
24 our -- these priorities shown here at page 77 of the  
25 Daymark Report are what we used to guide our

1 operations under all water conditions, not just under  
2 drought.

3 MR. BOB PETERS: I'm sorry, you  
4 trailed off. I lost the last --

5 MR. KEVIN GAWNE: Sorry, we -- these  
6 operating priorities apply under all water conditions,  
7 not just drought. I think you had suggested that --

8 MR. BOB PETERS: I was reading the  
9 first sentence of the paragraph under 'priority and  
10 constraints', because drought operations are, in fact,  
11 ordinary operations under adverse water conditions.

12 I'm assuming that these are the  
13 priorities and constraints that apply under adverse  
14 water conditions? We might be saying --

15 MR. KEVIN GAWNE: Yes.

16 MR. BOB PETERS: -- the same thing --

17 MR. KEVIN GAWNE: Yeah.

18 MR. BOB PETERS: -- Mr. Gawne.

19 MR. KEVIN GAWNE: The -- under adverse  
20 water and under normal.

21 MR. BOB PETERS: All right. And --  
22 and how do you define adverse water? Is that drought  
23 or is that below normal, or is it a certain percentage  
24 below normal?

25 How do you define adverse water?

1 (BRIEF PAUSE)

2

3 MR. KEVIN GAWNE: These words are from  
4 Daymark, so I'll -- you know, what they're referring  
5 to adverse water, but I would say below average, well  
6 below average would be an adverse water condition in  
7 my mind as the water manager.

8 MR. BOB PETERS: Okay, we'll go with  
9 below average or well below average, okay, and  
10 that's...

11 Is the list that's on the screen in  
12 front of you numbered 1 to 6 in rank order of the  
13 highest priority to the lowest priority?

14 MR. KEVIN GAWNE: Yes.

15 MR. BOB PETERS: Higher priorities,  
16 Mr. Gawne, take precedence always over lower ranked  
17 priorities?

18 MR. KEVIN GAWNE: Yes, I believe  
19 that's fair.

20 MR. BOB PETERS: Is there subjective  
21 judgment involved as to whether a lower priority  
22 should trump a higher priority? Poor choice of words,  
23 but...

24

25 (BRIEF PAUSE)

1 MR. KEVIN GAWNE: There's professional  
2 judgment involved in -- in operating according to  
3 these priorities, certainly.

4 MR. BOB PETERS: All right. I had  
5 used 'subjective judgment', and you're just correcting  
6 me to say 'professional judgment', which still is  
7 subjective, correct, but based on professional  
8 knowledge and experience?

9 MR. KEVIN GAWNE: I'll accept that.

10 MR. BOB PETERS: So, in times of  
11 adverse water or well below average water, is the  
12 economic health of Manitoba Hydro the last concern  
13 acted upon?

14

15 (BRIEF PAUSE)

16

17 MR. KEVIN GAWNE: We may be confusing  
18 things here between economic health of the  
19 organization and economics in terms of optimizing near  
20 term net export revenues.

21 So, the folks that are charged with  
22 operating, you know, our energy system, our reservoir  
23 operations, are -- economics here refers to maximizing  
24 net export revenues.

25 It's certainly held -- that

1 responsibility is taken very seriously. And normally,  
2 under most conditions, we're operating in that zone of  
3 economics, if that helps.

4 MR. BOB PETERS: Well, I -- let's see  
5 if it does. On page 27 on that colourful graph that  
6 we went through you had suggested to me in May of  
7 2021, in one (1) of your previous answers, that your  
8 team was maximizing the economics.

9 Did I understand your answer correctly?

10

11 (BRIEF PAUSE)

12

13 MR. KEVIN GAWNE: Yeah, based on the  
14 range of potential water supply conditions, we were --  
15 the decisions that were made with the information that  
16 we had at the time were such that releasing water, as  
17 we did, was the economic thing to do, Mr. Peters.

18 MR. BOB PETERS: So, by the time -- in  
19 -- in the month of May of 2021, your team was  
20 satisfied with respect to safety, energy supply,  
21 energy reserves, short-term reliability, citizenship  
22 and environment.

23 And the last priority on which you were  
24 acting was to maximize net export revenue?

25

1 (BRIEF PAUSE)

2

3 MR. KEVIN GAWNE: I can't speak  
4 exactly to all the considerations that were made at  
5 that time but, for instance, you know, if someone came  
6 along and said, you know what, we're going to have a  
7 drought this year, and it's going to be record low  
8 inflows, and so the pure economic thing to do at that  
9 time -- or the reliability thing to do at that time  
10 might be to put the brakes -- put the brakes on the  
11 release of water from Lake Winnipeg.

12 But we still will be tempering our  
13 outflow operations with consideration of the impacts  
14 on stakeholders. So, I can't say for certain that  
15 stakeholder issues were not a consideration at that  
16 time; quite certain they were, in fact.

17 MR. BOB PETERS: These six (6) --

18 MR. HAL TURNER: Mr. -- Mr. Peters,  
19 sorry, if I may add. I think -- I'm getting the  
20 impression, and I apologize if I'm getting the wrong  
21 impression, that you're under the impression that we  
22 sort of started the list and checked them off, and  
23 it's not quite that simple.

24 So, for example, and -- and Kevin will  
25 correct me if I get the details a little bit off,



1 there'll be times in the spring or the fall where  
2 there'll be resource users on the river, and so we may  
3 limit changes in flow to minimize the impact to the  
4 resource users.

5                   But we will still try and maximize the  
6 economic benefit, you know, by generating electricity  
7 as economically as possible. So, we are considering  
8 these things -- multiple things at the same time, and  
9 they can -- each of them can -- can have a constraint.

10                   But it's not that we just start at the  
11 top, any safety concerns, no, how is energy supply,  
12 good, no, right. Like, we think about all these  
13 things and try and balance it. I hope that's helpful.

14                   MR. BOB PETERS: Well, it -- it is.  
15 You're telling the Board that there is this subjective  
16 professional judgment involved when it comes time to  
17 act on these priorities and constraints?

18                   MR. HAL TURNER: That, and that we  
19 have to consider all of them. We think about all of  
20 them all the time. There may be times when we're less  
21 worried about some and more worried about others.  
22 There's going to be times when we're not worried about  
23 -- may -- maybe safety isn't an issue whatsoever, but  
24 the team is thinking about all of these things in  
25 totality.

1 MR. BOB PETERS: Okay.

2 MR. HAL TURNER: We try to balance  
3 them.

4 MR. BOB PETERS: Thank you, Mr.  
5 Turner. That is helpful.

6 And May of 2021 -- on the chart that's  
7 on the screen, in May of 2021, water is released down  
8 the river regardless of whether there is citizenship  
9 or environmental concerns at that point, correct, Mr.  
10 Turner?

11 MR. HAL TURNER: I wouldn't -- I'm not  
12 sure I agree with regardless of whether there's  
13 citizenship concerns. We would have considered all  
14 these things. And they would have made a decision  
15 based on their modelling that -- making those  
16 releases.

17 And then, of course, the corresponding  
18 generation and sale was the right thing to do  
19 considering all of these priorities in totality.

20 MR. BOB PETERS: All right.

21

22 (BRIEF PAUSE)

23

24 MR. BOB PETERS: Mr. Gawne and Mr.

25 Turner, was there a factual situation in the spring of

1 2021 when Manitoba Hydro would have wanted to hold  
2 back water in its reservoirs to maximize the future  
3 economic benefit but holding back the water in the  
4 spring of 2021 would have caused detrimental effects  
5 to citizens or the environment downstream of Lake  
6 Winnipeg?

7 Can you recall that happening or you  
8 can't recall that happening?

9 MR. KEVIN GAWNE: Mr. Peters, I cannot  
10 recall directly that happening in that spring of 2021,  
11 but I can speak in general terms.

12 If we're to do reductions of flows,  
13 particularly large flow reductions during the winter,  
14 you can have situations where it'd be referred to as  
15 hanging ice or pockets of ice in the shorelines along  
16 the rivers and lakes downstream of Lake Winnipeg where  
17 you have ice that's bridging to the centre of the lake  
18 and there's actually air below it and it's no longer  
19 being floated by the water because flow reductions  
20 have been made. And that can create a challenge for  
21 resource users to access the river.

22 So, those -- you know, those are the  
23 considerations. And -- and I would like to kind of  
24 maybe correct the interpretation of the use of  
25 professional judgment that we talked about earlier, is

1 it's not -- it's not that there's professional  
2 judgment as to whether we want to apply this priority  
3 now or not, it's whether we're -- are we -- are we --  
4 is it now governing because it requires analysis and  
5 understanding and experience in operating to know  
6 whether we're kind of into that level of priority, if  
7 you will.

8                   Because we don't -- you know, we don't  
9 -- our operations impact the waterway users. We  
10 understand that, and that's -- that's a fact. But  
11 when we're looking at stakeholder impacts, are we  
12 looking at is this operation our of experience for  
13 this time of year, is this an extreme type of  
14 operation.

15                   And we'll try and evaluate that and --  
16 and use our operating experience to understand though,  
17 no, this is -- this is somewhere we don't want to go  
18 because this is not a typical type of operation.

19                   And that's where this stakeholders and  
20 environment concern can start to bind our operation  
21 when we're saying, no, this is -- this is not typical.  
22 We've looked at how we operate in the spring. We  
23 don't normally do reductions of this degree. We've  
24 only done reductions this severe say 10 -- 10 percent  
25 of the time in history, so we're not going to -- you

1 know, we're not going to make reductions bigger than  
2 that.

3                   So that's the type of analysis and  
4 judgment and experience that's required to -- you  
5 know, to operate the energy system guided by these  
6 priorities.

7                   MR. BOB PETERS:     So that's more a  
8 question of what did we do before, and unless there's  
9 a reason not to do what we did before, we'll do what  
10 we did before.

11                   MR. KEVIN GAWNE:    I -- I wouldn't say  
12 it's that simple. Like when we -- I think Daymark had  
13 reviewed it quite -- quite well when they explained,  
14 when we engage with other professionals across the  
15 organization and we have these -- it's referred to  
16 production scheduling meetings, and there was this  
17 cycle that I'd showed in our initial presentation.

18                   But at those meetings, we have folks  
19 involved from, you know, the water managers, our  
20 hydrologists, our -- our training group, our control  
21 centre folks, representatives of our Indigenous and  
22 community relations staff, people that are dialled  
23 into those calls from northern Manitoba from our  
24 northern generation system.

25                   So we're taking in that feedback and

1 that input into our decision-making process, so it's  
2 not as simple as, well, we've done this before so  
3 let's just keep doing it. It's -- it's more complex  
4 than that and it's considering our -- the impacts of  
5 our operation.

6 MR. BOB PETERS: There's nothing that  
7 comes to your mind, Mr. Gawne, that would cause you in  
8 May of 2021 to do anything differently than you had  
9 done in the past that you can recall?

10 MR. KEVIN GAWNE: I cannot recall  
11 anything from that period, but I'll have our folks  
12 look at our operations log and see if there's anything  
13 noteworthy, and I'll bring that back to the Board.

14 MR. BOB PETERS: All right. On page  
15 28 -- maybe this is getting near the end of the day,  
16 and let me ask the question this way:

17 If your group, Mr. Gawne, Mr. Turner,  
18 determined that there was -- and I'll make it a  
19 hypothetical and I'll exaggerate it just for the  
20 effect.

21 If there was a one dollar (\$1)  
22 detrimental effect to citizenship or the environment  
23 downstream, would that stop Manitoba Hydro from  
24 holding back water which would have a million dollar  
25 economic benefit if you flowed it down the river?

1 MR. KEVIN GAWNE: Sorry. You're  
2 saying if there was a one dollar (\$1) impact on  
3 stakeholders?

4 MR. BOB PETERS: Yes.

5 MR. KEVIN GAWNE: This is --

6 MR. BOB PETERS: With a million dollar  
7 benefit if you did release the water or if you held  
8 back the water under whatever circumstance, would --  
9 would the dollar amounts dictate what Manitoba Hydro  
10 would do?

11 MR. KEVIN GAWNE: I -- I ...

12

13 (BRIEF PAUSE)

14

15 MR. KEVIN GAWNE: I -- I think we're  
16 trying to make a complex problem simple by putting  
17 dollar values on impacts that we simply don't have  
18 that information. But I will -- I will offer, Mr.  
19 Peters, that, in our operations -- and maybe by way of  
20 example it will help.

21 We have the licence -- our Lake  
22 Winnipeg Water Power Act licence allows us to change  
23 flows at Jenpeg -- this is the main control point out  
24 of Lake Winnipeg -- by 15,000 cubic feet per second in  
25 -- in twenty-four (24) hours. So we can shift the

1 flows by 15,000 cubic feet per second.

2                   Today, I believe, subject to check,  
3 we're releasing 47,000 cubic feet per second out of  
4 Jenpeg, so tomorrow we could go down to thirty-two  
5 (32), and the day after that we can go down -- you  
6 know.

7                   So we can do these changes by licence,  
8 but we don't do that, and we recognize that those --  
9 those types of changes can have impacts on  
10 stakeholders. So we purposefully temper our  
11 operations.

12                   And so the question is, well, you know,  
13 if you could make another million dollars and you  
14 can't say is that a dollar impact to downstream or is  
15 it ten dollars (\$10)? We don't know. We can't make  
16 that judgment. But we do take the long view in these  
17 sorts of things because, ultimately, we have a licence  
18 to operate, and those licences can be changed.

19                   So the economics of all our customers,  
20 the Manitoba customers, are being -- the right thing  
21 to do is to consider those impacts 'cause in -- in the  
22 long term, our flexibility could be restricted.  
23 Before it was just operating, you know, purely  
24 considering economics and not thinking about impacts  
25 on stakeholders.



1                   So, you know, to -- to simply say,  
2 well, we could -- we would have -- you know, we would  
3 have impacted downstream users by a dollar and we're  
4 going to spend a million dollars to avoid that is --  
5 is overly simplifying the problem.

6                   MR. BOB PETERS:   All right. I think I  
7 have your point.

8                   Mr. Chair, in light of the hour, I'll  
9 ask that maybe that's the end of my questions today.  
10 I'll pick it up tomorrow morning first thing, and I'll  
11 spend some time tonight culling through my notes so I  
12 can keep us moving tomorrow.

13                  THE CHAIRPERSON:   Thank you. I have a  
14 question, though.

15                  There were a number of undertakings  
16 given today. If we don't receive the undertakings  
17 tomorrow, they -- depending on what the undertakings  
18 are, would you bring this panel back?

19                  MR. BOB PETERS:   I don't think there's  
20 any need.

21                  THE CHAIRPERSON:   Okay.

22                  MR. BOB PETERS:   The questions are  
23 factual dates, and that'll help us complete our -- our  
24 knowledge on it, Mr. Chair.

25                  THE CHAIRPERSON:   Thank you.

1 MR. BOB PETERS: I -- I don't foresee  
2 that. If I -- if I did, I would speak probably first  
3 to Ms. Fernandes and Ms. Hiebert and we'd see if we  
4 need to do that, but --

5 THE CHAIRPERSON: Okay. Thank you.

6 MR. BOB PETERS: -- at this point, no.

7 THE CHAIRPERSON: Okay. Thank you.  
8 We'll adjourn until 9:00 tomorrow morning. Thank you.

9

10 --- Upon adjourning at 4:31 p.m.

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13 Certified Correct,

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Wendy Woodworth, Ms.

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