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A – SCHOOL ENERGY COALITION INTERROGATORY – 001

1 2 3

Reference:

4 Not provided.

5 6

Interrogatory:

a) Please update the application, as applicable, to reflect any material changes in the 2021 forecast information.

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10 Response:

a) Please see the response to Interrogatory A-SEC-002.

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A - SCHOOL ENERGY COALITION INTERROGATORY - 002

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Reference:

No reference provided

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Interrogatory:

Please provide revised version of the following tables showing 2021 year-to-date actuals, as well as year-to-date actuals, on a similar basis at the same point in time in each of 2019 and 2020. Please also provide the responses in Excel format.

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- a. B-2-1, Section 2.8, Attachment 1 (Appendix 2-AB)
- b. B-2-1, Section 2.9, Attachment 1 (Appendix 2-AA)
- c. B-3-1, Section 3.8, Attachment 1 (Appendix 2-AB)
- d. B-3-1, Section 3.9, Attachment 1 (Appendix 2-AA)
 - e. B-4-1, Section 4.8, Attachment 1 (Appendix 2-AB)
 - f. B-4-1, Section 4.9, Attachment 1 (Appendix 2-AA)
 - g. D-5-1, p.38 (Table E.3)
 - h. E-2-1, Attachment 1A, p.3 (Appendix 2-JC Transmission)
 - i. E-3-1, Attachment 1A, p.3 (Appendix 2-JC Distribution)
 - j. E-7-1, Attachment 2A (Appendix 2-K)

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Response:

Tables showing 2019, 2020 and 2021 Q3 year-to-date actuals are provided as listed below, in Attachments 1 to 6, and 9 of this interrogatory. Only 2021 Q3 year-to-date actuals have been provided in Attachments 8 and 9, owing to time constraints and data availability at this time.

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Note: Q3 actual results are not indicative of full year results, as overall expenditures are not necessarily incurred uniformly through the year.

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Sub- part	Exhibit	Title	Att. to SEC-002	Excel Attachment
а	B-2-1, Section 2.8, Attachment	Transmission Capital	1	I-22-A-SEC-002-01
	1 (Appendix 2-AB)	OEB Cost Categories		
b	B-2-1, Section 2.9, Attachment	Transmission Capital	2	I-22-A-SEC-002-02
	1 (Appendix 2-AA)	Projects Table		
С	B-3-1, Section 3.8, Attachment	Distribution Capital OEB	3	I-22-A-SEC-002-03
	1 (Appendix 2-AB)	Cost Categories		

Witness: All

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Sub- part	Exhibit	Title	Att. to SEC-002	Excel Attachment
d	B-3-1, Section 3.9, Attachment	Distribution Capital	4	I-22-A-SEC-002-04
	1 (Appendix 2-AA)	Projects Table		
е	B-4-1, Section 4.8, Attachment	General Plant allocated	5	I-22-A-SEC-002-05
	1 (Appendix 2-AB)	to Transmission and		
		Distribution		
f	B-4-1, Section 4.9, Attachment	General Plant Capital	6	I-22-A-SEC-002-06
	1 (Appendix 2-AA)	Projects Table		
g	D-5-1, p.38 (Table E.3). See D-	Distribution Number of	Se	ee D-LPMA-18
	LPMA-18	Customers		
h	E-2-1, Attachment 1A, p.3	Transmission OM&A	7	I-22-A-SEC-002-07
	(Appendix 2-JC Transmission)	Programs		
i	E-3-1, Attachment 1A, p.3	Distribution OM&A	8	I-22-A-SEC-002-08
	(Appendix 2-JC Distribution)	Programs		
j	E-6-1, Attachment 2A,	Employee Costs	9	I-22-A-SEC-002-09
	Appendix 2-K			

Transmission Capital (Attachments 1 & 2)

As of Q3 2021, a handful of capital programs are anticipated to exceed their 2021 budget by year end. These are identified below and in Attachment 2 to this interrogatory response. Hydro One will address positive variances, if any, in its capital programs by either: (i) offsetting them with reductions in 2021; or (ii) offsetting them with reductions in 2022, such that the overall capital envelope spend for the 2020-2022 rate period is consistent with the total capital values included in the filed evidence, and with no impact to the 2023-2027 rate period.

Capital programs with higher than planned values as of Q3 2021 are identified in Attachment 2 and include:

- <u>System Access</u>: In 2021, Hydro One received higher than forecast load customer connections and upgrades, and third party driven secondary land use and relocation requests. Values for these programs as of Q3 2021 have exceeded the year end 2021 forecast included in the filed materials. Any positive variances will be offset with reductions in 2021 and 2022 from other investment categories, as these investments are mandatory and Hydro One has limited discretion to manage positive variances through reductions to the System Access cost category.
- <u>System Renewal</u>: Power system coordination requirements caused Hydro One to revise the timing of its Integrated Station investments in 2021, which has driven a positive variance in this area. Specifically, the company has had to accelerate costs from 2022 for

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- critical air blast circuit breaker replacement projects including Bruce B, Middleport, and Cherrywood. Any positive variances will be offset with reductions in 2021 and 2022.
 - <u>System Service</u>: System Service capital expenditures are consistent with the 2021 forecast included in the filed materials.
 - General Plant: General Plant capital expenditures are consistent with the 2021 forecast included in the filed materials. Within this category, spending in the Information Solutions program is higher than budgeted and will be offset with reductions in 2021 and 2022. Variances are attributed to new office suite applications, investments to enhance identity and access management capabilities, and investments to improve pay processes.

Distribution Capital (Attachments 3 & 4)

 As of Q3 2021, a handful of capital programs are anticipated to exceed their 2021 budget by year end. These are identified below and in Attachment 4 to this interrogatory response.

Hydro One will address positive variances, if any, in specific capital programs by either: (i) offsetting them with reductions in 2021; or (ii) offsetting them with reductions in 2022, such that the overall capital envelope spend for the 2018-2022 rate period is consistent with the total capital values included in the filed evidence, and with no impact to the 2023-2027 rate period.

Capital programs with higher than planned values as of Q3 2021 are identified in Attachment 4 and include:

- <u>System Access</u>: Hydro One has received higher than forecast system access requests, including joint use and relocation requests, new customer load connections and upgrades, and demand meter failures. Any positive variances will be offset with reductions in 2021 and 2022 from other investment categories, as these investments are mandatory and Hydro One has limited discretion to manage within the System Access cost category.
- <u>System Renewal</u>: System Renewal capital expenditures are consistent with the 2021 forecast included in the filed materials, with some incremental investment in distribution station reinvestment, driven by demand capital and refurbishments.
- System Service: System Service capital expenditures are consistent with the 2021 forecast included in the filed materials, with some incremental investment in demand system modifications and a variance related to the cost of the Aroland Battery Energy Storage System.
- General Plant: General Plant capital expenditures are consistent with the 2021 forecast included in the filed materials, however there are select new and revised needs which are being addressed through incremental information technology expenditures, including

Witness: All

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modern functionality through new office suite applications, and investments to enhance identity and access management capabilities and enhance HR and pay processes.

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- General Plant Capital (Attachments 5 & 6)
- 2 See above.

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- 4 Distribution Number of Customers
- 5 Please see D-LPMA-018 for a discussion on load forecast and number of customer updates.

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- 7 Distribution and Transmission OM&A (Attachments 7 & 8)
- 8 OM&A expenditures are generally consistent with the 2021 forecast included in the filed
- 9 materials. However, in 2021 the Distribution business experienced a higher than planned volume
- of trouble call and storm response, customer disconnect/reconnect and cable locates.

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- **Employee Costs (Attachment 9)**
- 13 See attached.

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- 15 Updated Forecasts for 2021 and 2022
- Other interrogatories requested Hydro One to re-forecast year-end values for 2021 and 2022. This
- data is currently unavailable, as Hydro One is in the midst of a business planning cycle for 2022
- which is not complete and has not yet been approved by Hydro One's Board of Directors.

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Exhibit I-22-A-SEC-2 Attachment 1

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Revised Appendix 2-AB Table 2 - Capital Expenditure Summary from Chapter 5 Consolidated

First year of Forecast Period: 2023

							Н	istorical Pe	riod (previ	ous plan1 8	k actual)									Forecas	t Period (p	lanned)	
		2018			20	19			20	20			20	121			2022						
CATEGORY	Plan	Actual	Var	Plan	Q3 YTD Actual	Actual	Var	Plan	Q3 YTD Actual	Actual	Var	Plan	Q3 YTD Actual	As-Filed Forecast	Var (Plan to As- Filed)	Plan	As-Filed Forecast	Var (Plan to As- Filed)	2023	2024	2025	2026	2027
			%				%				%				%			%					
System Access	24.3	33.7	39%		30.7	46.2	-	24.8	11.5	19.5	-21%	11.3	45.3	40.1	256%	11.7	31.5	168%	79.4	70.9	59.8	36.5	50.1
System Renewal	780.4	776.2	-1%		590.0	792.6	-	810.1	565.3	804.0	-1%	982.8	675.6	739.6	-25%	958.2	971.5	1%	1,178.0	1,228.3	1,251.6	1,277.3	1,264.0
System Service*	75.6	73.9	-2%		66.4	85.6	-	198.4	135.6	196.1	-1%	148.2	170.2	223.9	51%	151.8	122.0	-20%	90.9	101.6	85.8	93.1	90.1
General Plant	119.7	83.6	-30%		34.2	92.1	-	111.1	73.8	124.7	12%	94.4	102.4	137.8	46%	94.7	102.8	9%	146.8	124.0	114.2	115.9	105.0
Progressive Productivity								- 17.0				- 39.0				- 61.0	- 48.1		- 61.0	- 61.0	- 61.0	- 61.0	- 61.0
Other**								- 25.5				- 28.4				- 29.1							
TOTAL EXPENDITURE	1,000.0	967.3	-3%	-	721.3	1,016.5	-	1,101.9	786.1	1,144.4	4%	1,169.2	993.5	1,141.5	-2%	1,126.4	1,179.7	5%	1,434.0	1,463.9	1,450.4	1,461.8	1,448.2
System O&M***	\$ 394.3	\$ 419.2	6%			\$ 357.9		\$ 385.0		\$ 398.5	3%			\$ 389.0	-		\$ 393.4	-	\$ 420.5				

^{*} The 2019-2022 Actuals exclude new transmission line facilities for Chatham and Lakeshore (West of Chatham), Lambton and Chatham (West of London) and Northwest Bulk Transmission Line Project (Waasigan).

Notes to the Table:

1. Historical "previous plan" data is not required unless a plan has previously been filed. However, use the last Board-approved, at least on a Total (Capital) Expenditure basis for the last cost of service rebasing year, and the applicant should include their planned budget in each subsequent historical year up to and including the Bridge Year.

2. Indicate the number of months of 'actual' data included in the last year of the Historical Period (normally a 'bridge' year):

Explanatory Notes on Variances (complete only if applicable)

Notes on shifts in forecast vs. historical budgets by category

TSP Section 2.9

Notes on year over year Plan vs. Actual variances for Total Expenditures

TSP Section 2.9

Notes on Plan vs. Actual variance trends for individual expenditure categories

TSP Section 2.9

^{**} Includes OPEB, pension and compensation directive adjustments.

^{***} System O&M reflects total Operations, Maintenance and Administration expenses. 2024 - 2027 is determined based on the escalation factor identified in Exhibit A-04-02.

Appendix 2-AA Capital Projects Table (\$M)

	2018	2019 Q3 YTD	2019	2020 Q3 YTD	2020	2021 Q3 YTD	2021	2022	2023	2024	2025	2026	2027
Projects	Actual	Actual	Actual	Actual	Actual	Actual	Forecast	Forecast	Test	Test	Test	Test	Test
Reporting Basis	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP
System Access													
Generator Customer Connection	0.3	1.5	0.5	0.9	2.2	0.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Load Customer Connection	28.5	25.7	40.1	6.9	18.4	40.4	38.3	25.9	41.6	68.1	57.0	35.6	49.3
Component Replacement Programs and	4.4	4.1	5.9	1.1	-1.7	4.2	0.5	5.5	37.8	2.8	2.8	0.8	0.8
P&C Enablement for Generation Connections	0.5	-0.6	-0.3	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-Total	33.7	30.7	46.2	11.5	19.5	45.3	40.1	31.5	79.4	70.9	59.8	36.5	50.1
System Renewal													
Ancillary Systems	0.7	0.1	0.1	-15.7	-15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Circuit Breakers	0.1	0.6	1.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Integrated Station Investment	410.7	317.2	426.8	359.0	499.7	427.1	359.8	512.5	733.3	722.5	699.6	698.3	728.8
IT Security	22.9	17.3	24.5	20.6	35.9	25.1	40.9	34.4	0.0	0.0	0.0	0.0	0.0
Other Power Equipment	0.3	0.1	0.2	0.0	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Component Replacement Programs	221.2	177.7	230.5	133.9	196.0	177.9	243.8	297.2	271.2	338.5	406.0	455.1	438.4
Power Transformers	-0.7	-2.7	-2.7	-2.6	-2.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Protection and Automation	21.6	13.2	18.6	9.6	14.4	14.0	29.6	54.5	81.6	88.4	87.5	68.9	36.1
Site Facilities and Infrastructure	0.3	0.1	0.2	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tx Transformers Demand and Spares	82.6	57.5	78.2	53.6	68.3	28.0	51.3	45.4	50.7	51.5	52.2	53.2	54.1
Underground Lines Cable Refurbishment & Replace	16.5	8.9	14.9	6.1	7.1	3.8	14.2	27.6	41.1	27.4	6.4	1.9	6.6
Sub-Total	776.1	590.0	792.6	565.3	804.0	675.6	739.6	971.5	1,178.0	1,228.3	1,251.6	1,277.3	1,264.0
System Service*													
Inter Area Network Transfer Capability	48.9	47.8	57.9	100.2	144.8	136.5	174.4	86.2	31.5	25.1	24.5	65.4	60.4
Local Area Supply Adequacy	20.7	12.8	19.7	28.3	41.6	31.6	44.9	34.1	54.9	74.0	58.8	25.8	27.7
Performance Enhancement	0.0	0.2	0.6	3.2	3.2	0.0	0.7	1.2	2.5	0.5	0.5	0.0	0.0
Power Quality	1.4	2.2	3.1	1.2	1.9	0.6	0.8	0.1	0.0	0.0	0.0	0.0	0.0
Risk Mitigation	2.6	3.4	4.2	2.6	4.6	1.5	3.2	0.5	2.0	2.0	2.0	2.0	2.0
Smart Grid	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-Total	73.9	66.4	85.6	135.6	196.1	170.2	223.9	122.0	90.9	101.6	85.8	93.1	90.1
General Plant													
Fleet	9.3	2.0	15.0	3.3	13.5	2.4	14.4	14.9	25.8	26.4	26.7	27.0	27.9
Facilities & Real Estate	23.4	8.0	16.0	5.7	19.7	9.8	15.4	15.5	26.0	24.9	17.5	18.2	14.8
Information Solutions	42.0	28.2	47.1	29.3	42.2	32.6	30.1	29.1	57.4	46.5	45.0	43.7	35.9
System Operations	3.8	1.7	6.0	23.2	38.8	49.5	59.0	21.8	12.0	3.8	4.2	4.8	4.2
Operating Infrastructure	5.8	6.6	8.7	5.5	7.5	6.0	18.9	21.5	25.5	22.4	20.9	22.2	22.3
Other	-0.7	-12.3	-0.7	6.8	3.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-Total	83.6	34.2	92.1	73.8	124.7	102.4	137.8	102.8	146.8	124.0	114.2	115.9	105.0
Progressive Productivity								-48.1	-61.0	-61.0	-61.0	-61.0	-61.0
Total	967.3	721.3	1,016.5	786.1	1,144.4	993.5	1,141.5	1,179.7	1,434.0	1,463.9	1,450.4	1,461.8	1,448.2
Less Renewable Generation Facility Assets and													
Total	967.3		1,016.5		1,144.4		1,141.5	1,179.7	1,434.0	1,463.9	1,450.4	1,461.8	1,448.2

^{*}The 2019-2022 Actuals exclude new transmission line facilities for Chatham and Lakeshore (West of Chatham), Lambton and Chatham (West of London) and Northwest Bulk Transmission Line Project (Waasigan).
Notes:

¹ Please provide a breakdown of the major components of each capital project undertaken in each year. Please ensure that all projects below the materiality threshold are included in the miscellaneous line. Add more projects as required.

² The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the capital budget in the miscellaneous category.

Appendix 2-AB

Table 2 - Capital Expenditure Summary from Chapter 5 Consolidated Distribution System Plan Filing Requirements

First year of Forecast Period: 2023

								Historical	Period (pre	evious plan	¹ & actual)									Forecas	t Period (p	lanned)	
		2018			20 ⁻	19			20	20			20	21			2022						1
CATEGORY	Plan	Actual	Var	Plan	Q3 YTD Actual	Actual	Var	Plan	Q3 YTD Actual	Actual	Var	Plan	Q3 YTD Actual	As-Filed Forecast	Var (Plan to As- Filed)	Plan	As-Filed Forecast ²	Var (Plan to As- Filed)	2023	2024	2025	2026	2027
			%				%				%				%			%					
System Access	175.1	175.1	0%	147.9	144.1	197.3	33%	153.4	141.7	193.6	26%	150.9	162.1	171.5	14%	143.0	180.8	26%	239.6	240.6	227.0	212.6	204.3
System Renewal	219.7	219.7	0%	202.3	156.3	189.0	-7%	222.2	162.5	228.6	3%	237.3	176.2	236.1	-1%	256.7	224.9	-12%	373.1	410.3	494.2	491.5	497.8
System Service	79.1	79.1	0%	124.0	59.4	112.8	-9%	129.4	84.2	98.1	-24%	144.1	83.7	132.6	-8%	103.0	153.2	49%	196.5	169.7	229.6	192.0	205.9
General Plant	90.7	90.7	0%	142.8	9.9	114.3	-20%	150.3	104.0	178.2	19%	95.3	127.3	173.8	82%	100.4	105.7	5%	195.9	207.4	170.1	175.5	162.9
TOTAL EXPENDITURE	564.5	564.5	0%	617.1	369.6	613.4	-1%	655.3	492.4	698.6	7%	627.6	549.3	714.0	14%	603.2	664.6	10%	1,005.1	1,028.0	1,120.8	1,071.7	1,070.9
System OM&A	\$ 544.4	\$ 558.8	3%			\$ 559.6				\$ 560.2			\$ 438.0	\$ 531.4			\$ 535.8		\$ 597.5	*	*	*	*

^{*} System OM&A includes Operations, Maintenance and Administration expenses. System OM&A for 2024 - 2027 is determined based on the escalation factor identified in Exhibit A-04-3.

Notes to the Table:

1. Historical "previous plan" data is not required unless a plan has previously been filed. However, use the last Board-approved, at least on a Total (Capital) Expenditure basis for the last cost of service rebasing year, and the applicant should include their planned budget in each subsequent historical year up to and including the Bridge Year.

2. Indicate the number of months of 'actual' data included in the last year of the Historical Period (normally a 'bridge' year):

Explanatory Notes on Variances (complete only if applicable)

Notes on shifts in forecast vs. historical budgets by category

For a more detailed explanation of shifts in forecast vs historical expenditures, please see DSP Section 3.9

Notes on year over year Plan vs. Actual variances for Total Expenditures

See DSP Section 3.9 Appendix B "Capital Program Performance Report 2019, 2020"

Notes on Plan vs. Actual variance trends for individual expenditure categories

See DSP Section 3.9 Appendix B "Capital Program Performance Report 2019, 2020"

^{** 2022} is Bridge Year Forecast

Appendix 2-AA Capital Projects Table (\$M)

Drainata	2018	2019 Q3	2019	2020 Q3	2020	2021 Q3	2021	2022	2023	2024	2025	2026	2027
Projects Penerting Resignation	LISCAAD	YTD	LISCAAD	YTD	LISCAAD	YTD USGAAP	Bridge	Bridge	Test	Test	Test	Test	Test
Reporting Basis	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP
System Access D. C.A. O.L. Leight Lieu and Delegations	20.4	22.0	20.0	10.2	20.2	24.6	21.4	10.1	24.0	20.0	27.0	20.5	27.2
D-SA-01 Joint Use and Relocations	20.4	23.0				24.6	21.4	19.1	24.8	29.0	27.0	26.5	27.2
D-SA-02 New Load Connections, Upgrades, Cancellations	121.2	101.6	141.7	107.5	146.4	124.5	130.6	141.7	150.7	154.6	158.5	162.5	166.7
D-SA-03 Customer Demand Distributed Energy Resources	6.7	5.3	6.6	2.4	2.2	-2.1	1.9	1.4	1.4	1.4	1.4	1.4	1.4
D-SA-04 Metering Sustainment	26.8	14.2	20.1	13.5		16.8	17.6	18.5	62.6	55.6	40.1	22.2	
D-SA-Other	0.0	0.0		0.0		-1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-Total	175.1	144.1	197.3	141.7	193.6	162.1	171.5	180.8	239.6	240.6	227.0	212.6	204.3
System Renewal					2.0								
D-SR-01 Distribution Stations Demand Capital Program	6.6	3.3		6.2		7.6	4.9	5.0	6.2	6.3	6.4	6.5	
D-SR-02 Mobile Unit Substation Program	1.3	5.9				0.9	4.2	4.3	3.5	4.2	2.9	3.3	
D-SR-03 Distribution Station Planned Component Replacement Program	5.0	6.2		7.0		6.9	6.9	7.1	4.6	3.3	1.1	1.2	
D-SR-04 Distribution Station Refurbishment	11.7	12.1	16.5	5.9		8.1	6.9	3.2	44.8	41.5	28.5	32.3	32.1
D-SR-05 Distribution Lines Trouble Call and Storm Damage Response	112.7	64.8	74.6	75.7		70.0	92.3	93.8	106.0	108.1	110.3	112.5	114.7
D-SR-06 Distribution Lines PCB Equipment Replacement Program	6.3	6.6	8.1	3.5		4.8	9.5	9.5	9.4	9.5	9.5	0.0	0.0
D-SR-07 Pole Sustainment Program	52.0	37.7	44.3	36.8	43.6	52.4	73.4	60.1	107.9	110.6	112.4	114.9	116.8
D-SR-08 Distribution Lines Minor Component Replacement Program	1.4					7.0	12.4	12.3	12.4	14.5	13.5	8.6	7.1
D-SR-09 Submarine Cable Replacement Program	3.2			5.6		5.1	10.9	11.1	12.2	12.5	12.7	13.0	13.2
D-SR-10 Distribution Lines Sustainment Initiatives	7.8	7.4	8.1	9.7	11.7	8.7	10.7	13.7	31.5	30.3	35.3	43.2	42.7
D-SR-11 Life Cycle Optimization & Operational Efficiency Projects	9.1	2.4				3.6	2.5	0.2	2.8	6.5	7.1	0.8	0.4
D-SR-12 Advanced Meter Infrastructure 2.0 (AMI 2.0)	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.9	30.9	62.0	153.7	154.4	157.3
D-SR-Other	2.6	1.2	2.0	0.9	0.9	1.3	0.8	0.9	0.9	0.9	0.9	0.9	0.9
Sub-Total	219.7	156.3	189.0	162.5	228.6	176.2	236.1	224.9	373.1	410.3	494.2	491.5	497.8
System Service													
D-SS-01 System Upgrades Driven by Load Growth	26.5	25.6	45.2	42.6	50.7	42.7	97.1	108.5	98.2	76.3	127.5	76.1	100.2
D-SS-02 Reliability Improvements	1.7	2.2	4.1	3.7	4.6	2.5	3.8	3.7	7.3	0.1	6.5	18.6	7.5
D-SS-03 Demand System Modifications	7.9	8.8	11.8	10.2	14.0	11.1	7.5	10.9	13.2	13.4	13.7	13.9	14.2
D-SS-04 Energy Storage Solutions	0.1	0.8	1.6	5.6	5.0	4.0	3.7	4.2	34.3	35.0	35.6	36.3	36.0
D-SS-05 Worst Performing Feeders	8.3	14.7	21.9	17.6	20.7	13.8	17.0	22.0	39.6	40.9	42.2	43.0	43.8
D-SS-06 Power Quality and Stray Voltage	1.0	1.2	1.3	1.0	1.2	2.6	3.3	3.4	3.8	3.9	4.0	4.0	4.1
D-SS-Other	33.6	6.1	26.9	3.4	2.0	6.9	0.1	0.4	0.1	0.1	0.1	0.1	0.1
Sub-Total	79.1	59.4	112.8	84.2	98.1	83.7	132.6	153.2	196.5	169.7	229.6	192.0	205.9
General Plant Allocated to Distribution													
Fleet	18.1	3.6	29.0	6.1	25.7	4.3	28.3	28.5	50.6	51.7	52.2	53.0	54.7
Facilities & Real Estate	13.7	6.4				17.0	23.7	26.5	65.4	67.2	44.2	39.9	35.7
Information Solutions	52.3			52.7		57.9	66.1	44.0	62.5	71.6	68.5	78.5	
System Operations	5.3	1.3	4.7	21.3		47.9	55.7	5.7	15.4	14.7	4.0	3.2	
System Capability Reinforcement	2.9					0.8	0.0	1.0	2.0		1.1	1.0	
Other	-1.7	-43.6				-0.6	0.0	0.0	0.0		0.0	0.0	
Sub-Total	90.7	9.9				127.3	173.8	105.7	195.9	207.4	170.1	175.5	
Total	564.5			492.4	698.6	549.3	714.0	664.6		1,028.0		1,071.7	
Less Renewable Generation Facility Assets and Other Non-Rate-Regulated Utility Assets (input as negative)	20.110	300.0	3.5.1	.02.1	300.0	3.5.5		200	-,500.1	-,520.0	.,	-,	1,31 0.0
Total	564.5	369.6	613.4	492.4	698.6	549.3	714.0	664.6	1,005.1	1 020 0	1,120.8	1,071.7	1,070.9

Notes:

- 1 Please provide a breakdown of the major components of each capital project undertaken in each year. Please ensure that all projects below the materiality threshold are included in the miscellaneous line. Add more projects as required.
- 2 The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the capital budget in the miscellaneous category.

Appendix 2-AB Capital Expenditure Summary from Chapter 5 Consolidated Distribution System Plan Filing Requirements Distribution System Plan Filing Requirements (\$M)

First year of Forecast Period: 2023

	-irst year of Forecast Period:	2023																						
	CATEGORY					I	Historical	Period (p	revious p	olan and a	actual/for	ecast)						Bridge			Forecast	Period (p	lanned)	
			2018			20	19			20	20				2021			2022		2023	2024	2025	2026	2027
		Plan	Actual	Var	Plan	Q3 YTD Actual	Actual	Var	Plan	Q3 YTD Actual	Actual	Var	Plan	Q3 YTD Actual	As-Filed Forecast ¹	Var (Plan to As-	Plan	As-Filed Forecast ²	Var (Plan to As-					
l				%				%				%				%			%					
	General Plant Allocated to Transmission	119.7	83.6	-30%	NA	34.2	92.1	NA	111.1	73.8	124.7	12%	94.4	102.4	137.8	46%	94.7	102.8	9%	146.8	124.0	114.2	115.9	105.0
	General Plant Allocated to Distribution	90.7	90.7	0%	142.8	9.9	114.3	-20%	150.3	104.0	178.2	19%	95.3	127.3	173.8	82%	100.4	105.7	5%	195.9	207.4	170.1	175.5	162.9
	Total General Plant	NA	174.3		NA	44.1	206.4		NA	177.8	302.9		NA	229.7	311.7		NA	208.5		342.7	331.4	284.3	291.4	268.0

Notes to the Table:

- 1. 2021 data is based on a 12-month forecast
- 2. 2022 data is based on a 12-month forecast

Explanatory Notes on Variances (complete only if applicable)

Notes on shifts in forecast vs. historical budgets by category

For a more detailed explanation of shifts in forecast vs historical expenditures, please see GSP Section 4.9 Capital Expenditures - Trends and Variances

Notes on year over year Plan vs. Actual variances for Total Expenditures

For a more detailed explanation of shifts in forecast vs historical expenditures, please see GSP Section 4.9 Capital Expenditures - Trends and Variances, and GSP Section 4.9 Attachment 2 General Plant Capital Performance Report

Notes on Plan vs. Actual variance trends for individual expenditure categories

For a more detailed explanation of shifts in forecast vs historical expenditures, please see GSP Section 4.9 Capital Expenditures - Trends and Variances, and GSP Section 4.9 Attachment 2 General Plant Capital Performance Report

Appendix 2-AA
Capital Projects and Programs Table for General Plant (\$M)

General Plant Capital Projects and Programs	2018	2019 Q3 YTD	2019	2020 Q3 YTD	2020	2021 Q3 YTD	2021 Forecast	2022 Bridge	2023 Test	2024 Test	2025 Test	2026 Test	2027 Test
Reporting Basis	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP
General Plant Allocated to Hydro One Transn	nission												
Fleet	9.3	2.0	15.0	3.3	13.5	2.4	14.4	14.9	25.8	26.4	26.7	27.0	27.9
Facilities & Real Estate	23.4	8.0	16.0	5.7	19.7	9.8	15.4	15.5	26.0	24.9	17.5	18.2	14.8
Information Solutions	42.0	28.2	47.1	29.3	42.2	32.6	30.1	29.1	57.4	46.5	45.0	43.7	35.9
System Operations	3.8	1.7	6.0	23.2	38.8	49.5	59.0	21.8	12.0	3.8	4.2	4.8	4.2
Operating Infrastructure	5.8	6.6	8.7	5.5	7.5	6.0	18.9	21.5	25.5	22.4	20.9	22.2	22.3
System Capability Reinforcement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	-0.7	-12.3	-0.7	6.8	3.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total GP Allocated to Transmission	83.6	34.2	92.1	73.8	124.7	102.4	137.8	102.8	146.8	124.0	114.2	115.9	105.0
General Plant Allocated to Hydro One Distrib	oution												
Fleet	18.1	3.6	29.0	6.1	25.7	4.3	28.3	28.5	50.6	51.7	52.2	53.0	54.7
Facilities & Real Estate	13.7	6.4	15.6	25.2	45.0	17.0	23.7	26.5	65.4	67.2	44.2	39.9	35.7
Information Solutions	52.3	42.8	67.4	52.7	76.2	57.9	66.1	44.0	62.5	71.6	68.5	78.5	70.2
System Operations	5.3	1.3	4.7	21.3	32.8	47.9	55.7	5.7	15.4	14.7	4.0	3.2	2.3
Operating Infrastructure	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
System Capability Reinforcement	2.9	-0.7	-1.0	0.1	-0.7	0.8	0.0	1.0	2.0	2.2	1.1	1.0	
Other	-1.7	-43.6	-1.5	-1.4	-0.9	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total GP Allocated to Distribution	90.7	9.9	114.3	104.0	178.2	127.3	173.8	105.7	195.9	207.4	170.1	175.5	162.9
Total General Plant	174.3	44.1	206.4	177.8	302.9	229.7	311.7	208.5	342.7	331.4	284.3	291.4	268.0

Notes:

- 1 Please provide a breakdown of the major components of each capital project undertaken in each year. Please ensure that all projects below the materiality threshold are included in the miscellaneous line. Add more projects as required.
- 2 The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the capital budget in the miscellaneous category.

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Appendix 2-JC Transmission OM&A Programs Table

										(\$M)
Programs	2018 Actuals	2019 Actuals	2020 Board Approved	2020 Actuals	2021 Q3 YTD Actuals	2021 Forecast	2022 Bridge Year	2023 Test Year	Variance (Test Year vs. 2020 Actuals)	Variance (Test Year vs. 2020 Approved)
Reporting Basis	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP
Sustainment										
Land Assessment and Remediation	1.3	1.0		0.7	0.4	0.9	0.9	0.9	0.3	
Environment Management	13.9	12.5		15.9	17.1	22.1	23.0	15.1	-0.8	
Power Equipment	60.1	50.8		43.1	31.6	45.0		52.6	9.5	
Ancillary System Maintenance	8.3	9.1		8.0	6.6	7.5		9.3	1.3	
Protection, Control, Monitoring, Metering and										
Telecommunications (including cybersecurity)	55.1	51.2		52.9	42.9	52.2	54.5	58.7	5.7	
Site Infrastructure Maintenance	22.7	19.5		20.7	15.0	20.9	21.3	22.8	2.1	
Rights of Way	37.3	31.9		32.6	26.2	32.4	32.3	33.0	0.4	
Overhead Lines	18.9	18.3		17.2	10.8	15.6	15.8	18.2	0.9	
Underground Cables	7.6	5.6		4.3	3.5	4.0		4.0	-0.3	
Engineering & Environmental Support	4.1	7.9		5.4	4.7	4.7	4.7	5.0	-0.4	
Sub-Total	229.4	207.8		200.9	158.7	205.2	208.3	219.6	18.7	
Development										
Transmission Standards Program	2.8	2.5		4.1	3.1	4.0	4.0	4.3	0.1	
Research Development and Demonstration	2.2	1.8		2.3	2.1	3.4	3.9	3.3	1.0	
Customer Power Quality Program	0.2	0.1		0.2	0.2	0.9		1.0	0.8	
Sub-Total	5.2	4.4		6.7	5.4	8.3	8.9	8.6	1.9	
Operating										
Operations Contracts	19.5	20.2		19.5	15.3	22.3	20.8	22.6	3.1	
Environmental, Health and Safety	1.4	2.0		1.1	0.6	1.5		1.4	0.4	
Operators	32.5	28.8		27.3	19.4	25.0		25.0	-2.3	
Sub-Total	53.4	51.0		47.9	35.3	48.8	48.6	49.0	1.1	
Customer										
Customer Service OM&A	11.0	7.2		7.0	4.3	6.0		6.9	-0.2	
Sub-Total	11.0	7.2		7.0	4.3	6.0	6.7	6.9	-0.2	
Common Functions and Services										
Corporate Management	3.9	2.4		2.7	2.2	1.9		2.1	-0.7	
Finance	20.8	17.5		15.8	10.5	14.5	14.8	14.4	-1.5	
Human Resources Indigenous Relations, Communications and	10.4	10.9		12.4	7.6	10.2	11.0	12.4	0.0	
Stakeholder Relations, and Outsourcing Services	4.6	4.5		4.4	4.6	7.0	7.0	7.0	2.4	
General Counsel	4.6 5.0	4.5 4.3		4.4 5.2	4.6 4.5	7.2 4.5		7.6 4.8	3.1 -0.4	
	9.2	9.0		9.6	4.5 8.5	10.6			-0.4 1.0	
Regulatory Affairs	9.2 2.9	9.0 2.1		9.6	8.5 1.2	10.6 2.6		10.6	1.0	
Security Management Internal Audit	3.0	2.1		2.4	1.2	3.0		3.1	0.9	
Facilities and Real Estate	32.7	34.7		34.3	26.2	36.2	37.3	38.7	4.3	
Sub-Total	92.5	88.2		88.6	67.1	90.7	94.9	96.9	8.3	
Asset Management (Planning) costs	92.5	00.2		00.0	37.1	90.7	94.9	90.9	6.3	
Sub-Total	31.0	26.7		25.3	20.1	25.2	26.6	27.4	2.1	
Information Technology	31.0	20.7		23.3	20.1	25.2	20.0	27.4	2.1	
Information Technology	50.4	53.7		51.2	40.3	51.4	51.2	53.7	2.5	
Sub-Total	50.4	53.7		51.2	40.3	51.4		53.7	2.5	
Miscellaneous				,						
Cost of Sales	8.4	3.7		7.7	4.6	6.4	4.9	5.7	-2.0	
Other Recovery	-127.4	-145.6		-102.3	-85.2	-122.1	-126.8	-118.7	-16.4	
Property Taxes & Rights Payments	65.3	60.8		65.4	47.1	69.1	70.2	71.4	5.9	
									0.0	
									0.0	
									0.0	
Sub-Total	-53.7	-81.1		-29.2	-33.5	-46.6	-51.8	-41.6	-12.4	
Total	419.2	357.9	385.0		297.6	389.0		420.5	22.0	35.5
	-13.E	557.5	303.0	550.5	237.0	303.0	555.4	-20.0	22.0	

Please provide a breakdown of the major components of each OM&A Program undertaken in each year. Please ensure that all Programs below the materiality threshold are included in the miscellaneous line. Add more Programs as required.
 The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the OM&A budget in the miscellaneous category

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Appendix 2-JC Distribution OM&A Programs Table

										(\$M)
Programs	2018 Board Approved	2018 Actuals	2019 Actuals	2020 Actuals	2021 Q3 YTD Actuals	2021 Forecast	2022 Bridge Year	2023 Test Year	Variance (Test Year vs. 2020 Actuals)	Variance (Test Year vs. 2018 Board-Approved)
Reporting Basis	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP	USGAAP
Sustainment										
Stations		21.8	20.1	22.2	17.0	21.2	20.5	20.2	-2.0	
Lines		133.3	149.0	149.9	127.5	121.2	125.3	132.0	-17.9	
Meters, Telecom & Control		17.7	15.5	14.9	11.0	17.5	17.5	19.8	4.9	
Vegetation Management		139.5	162.4	137.9	104.9	139.6	140.3	139.4	1.5	
Sub-Total		312.3	347.1	324.9	260.4	299.6	303.6	311.4	-13.5	
Development										
Engineering & Technical Studies		1.9	1.8	1.5	1.6	2.1	2.2	2.0	0.5	
Distribution Generation Connections		1.7	2.4	1.5	1.9	1.5	1.5	1.5	-0.1	
Distribution Standards Program		0.6	0.2	0.5	0.6	1.2	1.4	1.5	0.9	
Research Development & Demonstration		3.2	2.6	2.3	1.9	5.0	5.0	5.9	3.6	
Customer Power Quality Program		0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	
Sub-Total		7.5	7.1	6.0	6.0	10.0	10.2	11.0	5.1	
Operating										
Operations Support		3.6	13.0	12.1	8.8	13.2	13.8	12.0	-0.1	
Operations		20.7	18.4	18.4	18.4	23.8	25.9	27.0	8.6	
Health, Safety & Environment		1.8	1.9	1.0	0.6	1.3	1.3	1.3	0.3	
Smart Grid		11.2	3.4	1.5	0.4	1.3	0.4	0.5	-1.1	
Sub-Total		37.3	36.6	33.0	28.2	39.7	41.3	40.8	7.8	
Customer										
Customer Service OM&A		111.7	97.8	111.2	80.2	108.6	107.9	118.3	7.1	
Sub-Total		111.7	97.8	111.2	80.2	108.6	107.9	118.3	7.1	
Common Functions and Services										
Corporate Management		4.0	2.9	2.5	1.9	2.7	2.7	2.8	0.3	
Finance		15.0	13.0	12.9	11.8	15.8	16.2	15.7	2.8	
Human Resources		9.7	9.0	9.7	8.0	10.0	10.8	12.1	2.4	
Indigenous Relations, Communications and Stakeholder		7.5	7.5	7.2	6.9	6.9	7.1	7.3	0.1	
Relations, and Outsourcing Services General Counsel		3.2	3.4	4.2	4.1	3.9	4.0	4.1	-0.1	
Regulatory Affairs		10.8	10.7	11.2	8.2	10.3	11.0	10.3	-0.1	
Security Management		2.3	10.7	1.4	1.3	2.2	2.6	2.6	1.3	
Internal Audit		2.3	2.6	2.1	1.9	3.0	3.2	3.4	1.3	
Real Estate and Facilities		25.2	26.1	25.2	20.1	29.0	29.7	30.8	5.6	
Sub-Total		80.1	76.9	76.4	64.2	83.8	87.2	89.1	12.7	
Asset Management (Planning) costs		30.1	70.5	70.4	04.2	65.6	87.2	85.1	12.7	
Sub-Total		15.7	13.5	14.2	10.9	13.6	14.4	14.9	0.7	
Information Technology		15.7	15.5	14.2	10.5	15.0	14.4	14.5	0.7	
Information Technology		73.8	81.1	78.4	65.7	83.8	81.5	85.9	7.5	
Sub-Total		73.8	81.1	78.4	65.7	83.8	81.5	85.9	7.5	
Miscellaneous										
Cost of Sales		10.4	5.3	4.1	3.1	4.0	4.4	4.4	0.3	
Other Recovery		-95.1	-110.5	-93.4	-84.7	-117.3	-120.6	-84.3	9.1	
Property Taxes & Rights Payments		5.1	4.6	5.4	4.0	5.6	5.8	6.0		
, , , , , , , , , , , , , , , , , , ,										
Sub-Total		-79.6	-100.6	-83.8	-77.7	-107.7	-110.3	-73.9	9.9	
Total	544.4	558.8	559.6		438.0	531.4	535.8	597.5	37.3	53.1

¹ Please provide a breakdown of the major components of each OM&A Program undertaken in each year. Please ensure that all Programs below the materiality threshold are included in the miscellaneous line. Add more Programs as required.

² The applicant should group projects appropriately and avoid presentations that result in classification of significant components of the OM&A budget in the miscellaneous category

Appendix 2-K Employee Costs

FTE Levels		Transm	ission			Distrik	oution	
	2019 Q3	2020 Q3	2021 Q3		2019 Q3	2020 Q3	2021 Q3	
	YTD	YTD	YTD	2021 Plan	YTD	YTD	YTD	2021 Plan
Staff	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs
Headcount Q3								
Regular - MGT/non-represented	300	320	342		301	316	356	
Regular - Society	824	832	939		584	610	697	
Regular - PWU	1,049	1,079	1,074		2,428	2,474	2,583	
Temporary - MGT/non-represented	8	11	14		8	15	16	
Temporary - Society	20	15	22		19	13	17	
Temporary - PWU	61	47	57		59	34	41	
Casual Trades	1,904	1,911	1,937		1,142	1,199	1,174	
Total	4,165	4,214	4,385		4,541	4,662	4,885	
FTE (Average month-end Jan-Sept)	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs
Regular - MGT/non-represented	220	233	252	347	220	231	256	348
Regular - Society	615	620	679	963	437	451	511	694
Regular - PWU	801	820	811	1,090	1,858	1,892	1,948	2,608
Temporary - MGT/non-represented	7	7	10	8	7	10	12	4
Temporary - Society	14	12	13	20	12	13	12	14
Temporary - PWU	53	40	43	65	57	31	29	61
Casual Trades	1,331	1,225	1,419	1,656	820	757	823	1,056
Total	3,042	2,958	3,226	4,149	 3,412	3,385	3,591	4,787

Total FTE Levels	S	hareholder	Allocated (S	SA)		Total T	x+Dx+SA	
	2019 Q3	2020 Q3	2021 Q3		2019 Q3	2020 Q3	2021 Q3	
	YTD	YTD	YTD	2021 Plan	YTD	YTD	YTD	2021 Plan
Staff	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs
FTE (Average month-end Jan-Sept)	39	33	37	54	6,494	6,375	6,855	8,990

Breakdown of Compensation by Type of Pay		Transm	ission			Distri	bution	
	2019 Q3	2020 Q3	2021 Q3		2019 Q3	2020 Q3	2021 Q3	
	YTD	YTD	YTD	2021 Plan	YTD	YTD	YTD	2021 Plan
Salary & Incentive Pay	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Base Pay								
Regular - MGT/non-represented	27,064	29,179	32,820	44,609	26,875	28,177	32,838	44,280
Regular - Society	66,476	69,704	81,813	110,132	46,804	48,726	59,505	78,91
Regular - PWU	77,514	79,796	87,165	105,151	167,033	172,381	197,099	236,85
Temporary - MGT/non-represented	563	561	776	735	577	596	1,015	33
Temporary - Society	1,168	1,090	1,208	1,790	974	1,109	1,032	1,240
Temporary - PWU	3,631	2,507	2,990	4,236	3,599	1,948	2,091	3,95
Casual Trades	88,268	81,433	101,352	133,067	48,093	42,220	51,251	73,17
Total	264,684	264,270	308,125	399,719	293,955	295,157	344,831	438,75
Overtime	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Regular - Society	3,335	2,833	4,087	5,644	2,784	2,970	4,351	5,48
Regular - PWU	11,249	11,327	14,939	17,123	32,250	36,955	42,765	55,65
Temporary - Society	11	17	24	31	8	11	31	14
Temporary - PWU	64	33	29	77	74	32	42	84
Casual Trades	10,006	9,811	12,016	19,360	4,844	5,039	5,617	11,74
Total	24,665	24,021	31,096	42,234	39,960	45,007	52,806	72,98
Performance Dollars	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Regular - MGT/non-represented	7,741	5,928	6,664	9,048	7,537	5,720	6,318	8,83
Total	7,741	5,928	6,664	9,048	7,537	5,720	6,318	8,83
Share Grants	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Regular - Society	1,756	1,773	1,772	1,382	980	894	912	99
Regular - PWU	2,287	2,347	2,118	1,771	4,166	3,752	3,474	4,23
Total	4,043	4,120	3,890	3,152	5,146	4,646	4,386	5,23
ESOP	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Regular - MGT/non-represented	594	629	614	797	501	507	599	79:
Regular - Society	29	121	89	129	25	108	89	14:
Total	623	750	703	926	527	614	688	937
Burdens	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Regular - MGT/non-represented	12,741	13,737	15,451	21,001	12,643	13,255	15,448	20,83
Regular - Society	28,666	30,058	35,280	47,492	20,183	21,012	25,660	34,03
Regular - PWU	33,426	34,410	37,588	45,344	72,029	74,335	84,994	102,139
Temporary - MGT/non-represented	38	38	52	49	39	40	68	2
Temporary - Society	79	73	81	120	66	75	69	83
Temporary - PWU	244	169	201	285	242	131	141	260
Casual Trades	40,504	39,837	48,792	54,524	26,024	24,265	29,738	45,62
	-							•

Total Compensation	Transmission				Distril	bution			
	2019 Q3	2020 Q3	2021 Q3		2019 Q3	2020 Q3	2021 Q3		
	YTD	YTD	YTD	2021 Plan	YTD	YTD	YTD	2021 Plan	
	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M	
Regular - MGT/non-represented	48,140	49,472	55,549	75,455	47,556	47,658	55,203	74,733	
Regular - Society	100,262	104,489	123,042	164,779	70,776	73,709	90,517	119,573	
Regular - PWU	124,477	127,880	141,809	169,388	275,478	287,424	328,333	398,884	
Temporary - MGT/non-represented	600	598	828	784	616	636	1,083	358	
Temporary - Society	1,258	1,180	1,313	1,941	1,048	1,195	1,132	1,337	
Temporary - PWU	3,939	2,710	3,221	4,598	3,914	2,111	2,273	4,305	
Casual Trades	138,778	131,081	162,159	206,951	78,961	71,524	86,606	130,543	
Total	417,454	417,409	487,921	623,895	478,349	484,257	565,147	729,733	

Compensation & FTE by Capital and OM&A Program		Transm	nission			Distril	oution	
	2019 Q3	2020 Q3	2021 Q3		2019 Q3	2020 Q3	2021 Q3	
	YTD	YTD	YTD	2021 Plan	YTD	YTD	YTD	2021 Plan
	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M
Total Capital Compensation	299,653	300,627	358,545	448,949	241,884	246,569	288,650	372,338
Total OM&A Compensation	117,801	116,782	129,377	174,946	236,465	237,688	276,497	357,394
Total	417,454	417,409	487,921	623,895	478,349	484,257	565,147	729,733
	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs	FTEs
Total Capital FTE	2,239	2,189	2,451	3,096	1,644	1,643	1,741	2,338
Total OM&A FTE	803	769	775	1,052	1,768	1,742	1,851	2,449
Total	3.042	2.958	3.226	4.149	3.412	3.385	3.592	4.787

Total Compensation: Transmission + Distribution +									
Shareholder Allocated	Sł	Shareholder Allocated (SA)			Total Tx+Dx+SA				
	2019 Q3	2020 Q3	2021 Q3		2019 Q3	2020 Q3	2021 Q3		
	YTD	YTD	YTD	2021 Plan	YTD	YTD	YTD	2021 Plan	
Salary & Incentive Pay	\$M	\$M	\$M	\$M	\$M	\$M	\$M	\$M	
Base Pay	4,962	4,062	4,962	6,858	563,600	563,488	657,918	845,333	
Overtime	44	68	121	43	64,669	69,096	84,022	115,260	
Performance Dollars	1,618	678	882	2,131	16,895	12,326	13,863	20,010	
Share Grants	49	34	32	35	9,238	8,799	8,307	8,418	
ESOP	70	70	70	75	1,220	1,434	1,461	1,934	
Burdens	2,282	1,868	2,282	3,180	249,206	253,304	295,846	374,995	
Total Compensation	9,025	6,780	8,349	12,322	904,828	908,447	1,061,417	1,365,949	

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-003 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 003

1 2 3

Reference:

4 No reference provided

5

6 **Interrogatory:**

- 7 SEC seeks to understand the impact of COVID-19 on the information included in the application.
- 8 Please confirm that all COVID-19 related costs are included or expected to be included in
- 9 Account 1509. If not confirmed, please identify <u>all</u> COVID-19 related costs contained within the
- actual and/or forecast cost information included in the application.

11 12

Response:

- As stated in Exhibit G-01-01 (Sections 4.7 and 6.13), Hydro One has tracked COVID-19 costs in
- Account 1509. 2020 audited balances are presented in this Application.

15

- Hydro One does not expect to seek recovery of Account 1509 tracked balances at this point.
- 17 Please refer to the Interrogatory Response to **G-Staff-309**.

Witness: CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-003 Page 2 of 2

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Witness: CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-004 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 004

1 2 3

Reference:

4 No reference provided

5

6 **Interrogatory:**

- Please provide a copy of each of Hydro One's 'Team Scorecards' from 2018 to 2021, and provide
- 8 the year-end result for each measure.

9

10 Response:

11 The 2021 Team Scorecard was filed in Exhibit E-06-01 Attachment 3.

12

The remaining 2018 to 2020 Team Scorecards are attached to this response.

Witness: LILA Sabrin

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-004 Page 2 of 2

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Witness: LILA Sabrin

Filed: 2021-11-29 EB-2021-0110 Exhibit I-22-A-SEC-4 Attachment 1 Page 1 of 1

2018 Team Scorecard

Corporate	Component	Definition	Measure	Sub Component	Per	formance Le	vels
Goal	Weight	Definition	rviedsure	Weight	Threshold	Budget	Maximum
Health and Safety *	10%	Recordable Incidents	Incidents per 200,000 hours	100%	1.3	1.1	1.0
Work Program	25%	Transmissions (Tx) Reliability – average length of unplanned interruptions to multi-circuit supplied delivery points (SAIDI)	Minutes per Delivery Point	25%	9.2	7.6	5.4
		Distribution (Dx) Reliability – average length of outages in hours that a customer experiences (SAIDI)	Hours per Customer	25%	7.5	7.0	6.8
		Tx In Service Additions - Delivery Accuracy	Variance (%) to approved budget of \$1,174M (Tx following OEB decision)	25%	+/- 6%	+/- 4%	+/-1%
		Dx In Service Additions - Delivery Accuracy	Variance (%) to approved budget of \$641M (Dx Application)	25%	+/- 5%	+/- 3%	+/-1%
Net Income	30%	Net Income to Common Shareholders	\$M	100%	redacted	redacted	redacted
Productivity	10%	Savings in \$M	\$M	100%	\$103.1	\$114.5	\$140.0
Customer	25%	Residential and Small Business customer satisfaction	Customer Satisfaction	50%	71%	73%	76%
Customer	25%	Tx (including Dx connected LDCs) customer satisfaction	Customer Satisfaction	50%	84%	86%	90%

^{*} If the company has a fatality, the attained Safety measure will be reduced by 50% based on the findings of the System Investigation

2019 Team Scorecard

Page 1 of 1

2019 Team Scorecard									
Corporate	Component	Definition	Definition Measure Sub Co		Definition Magazza Sub Component		Peri	formance Le	vels
Goal	Weight	Definition	Wiedsure	Weight	Threshold	Target	Exceeds		
Health and Safety *	10%	Recordable Incidents	Incidents per 200,000 hours	100%	1.11	1.05	0.99		
	average length of unplanned interruptions to multi-circuit supplied		System Average Interruption Duration Index – mc (minutes)	25%	8.4	8.1	6.3		
Work Program	25%	Distribution (Dx) Reliability – average length of outages in hours that a customer experiences (SAIDI)	System Average Interruption Duration Index (hours)	25%	7.00	6.30	6.00		
rrogram		Tx In Service Additions - Delivery Accuracy	Variance (%) to approved budget of \$951M	25%	+/-6%	+/-4%	+/-1%		
		Dx In Service Additions - Delivery Accuracy	Variance (%) to approved budget of \$668M	25%	-5%/+4%	-3%/+2%	+/-1%		
Net Income	30%	Net Income to Common Shareholders	\$M	100%		Redacted			
Productivity	10%	Productivity Savings in \$M	\$M	100%	164.10	193.00	222.00		
		Residential and Small Business customer satisfaction	Customer Satisfaction	40%	71%	77%	80%		
Customer	25%	Transmission Connected & Local Distribution Companies (LDCs)	Customer Satisfaction	40%	85%	90%	92%		
		Commercial and Industrial	Customer Satisfaction	20%	73%	77%	80%		

Filed: 2021-11-29 EB-2021-0110 Exhibit I-22-A-SEC-4 Attachment 3 Page 1 of 1

			2020 Tear	n Scorecard					
Strategic Priority	Corporate	Component	Definition	Measure	Sub Component	Performance Levels			
Siralegic Friority	Measure	Weight	Delililloli	Medsure	Weight	Threshold	Target	Exceeds	
Be the Safest & Most Efficient Utility —	Health and	20%	Serious Injuries and Fatalities	Incidents per 200,000 hours	50%	0.143	0.136	0.129	
	Safety *	2076	Recordable Incidents	Incidents per 200,000 hours	50%	1.023	0.972	0.920	
C.I.I.I.y	Productivity	10%	Productivity Savings in \$M	\$M	100%	\$221.4	\$260.5	\$286.5	
Build a Grid for the Future	Reliability	Polishiling		Transmissions (Tx) Reliability – average length of unplanned interruptions to multi-circuit supplied delivery points (SAIDI)	Minutes per Delivery Point	25%	8.1	7.9	6.3
		Work Program	Distribution (Dx) Reliability – average length of outages in hours that a customer experiences (SAIDI)	Hours per Customer	25%	7.0	6.1	5.9	
			Tx In Service Additions - Delivery Accuracy	Variance (%) to approved budget of \$931M	25%	+ /-5%	+/-2%	+/- 1%	
			Dx In Service Additions - Delivery Accuracy	Variance (%) to approved budget of \$664M	25%	+/- 3%	+/- 2%	+/- 1%	
Innovate & Grow the Business	Net Income	30%	Net Income to Common Shareholders	\$M	100%		Redacted		
		ner 20%	Residential and Small Business customer satisfaction	Customer Satisfaction	33.34%	81%	86%	89%	
Advocate for Our Customer	Customer		Tx (including Dx connected LDCs) customer satisfaction	Customer Satisfaction	33.33%	82%	87%	90%	
			Commercial and Industrial	Customer Satisfaction	33.33%	74%	79%	82%	



Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-005 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 005

1 2 3

Reference:

4 No reference provided

5 6

Interrogatory:

Please provide a copy of all third-party benchmarking analyses, studies, reports, and/or similar documents, undertaken for, or that include Hydro One, since 2017, that are not already included in this application or on the record in EB-2019-0082, regarding any aspect that directly or indirectly relates to a material aspect of Hydro One's business.

11 12

Response:

The BGIS Facilities Management Benchmarking Study performed by Information Services Group Inc. (ISG) in October 2020 is provided in Attachment 1.

15

Please see Interrogatory E-Staff-206, part c) for the Hydro One JSOC Financial Analysis prepared by ADGA Group Consultants Inc.

18

Please see Interrogatory E-Staff-248, part b) for Hydro One's response regarding the benchmarking review of Inergi fees for the supply chain services scope of work by ISG.

Witness: BERARDI Rob, MARCOTTE Kevin

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-005 Page 2 of 2

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Witness: BERARDI Rob, MARCOTTE Kevin

Filed: 2021-11-29 EB-2021-0110 Exhibit I-22-A-SEC-5 Attachment 1 Page 1 of 30







Hydro One – BGIS Facilities Management Benchmarking Study

Prepared for Hydro One and BGIS By ISG 26 October 2020

About ISG

ISG is the Only Independent, Publicly Traded Advisory Firm in the Industry.

World's Most Extensive Database of price, cost, and operational metrics

ISG consultants are experienced in IT, application development and support, and BPO in benchmarking outsourced agreements. We have studied some of the world's largest and most complex outsourcing agreements. ISG advises on over 25% of the Sourcing Markets Annual Total Contract Value Awarded.

Two-Thirds of Advised Transactions

ISG is responsible for 70% of all advisory led transactions:

- ✓ This means that service providers and systems integrators sit across the table from ISG twice as often as they do from everyone else combined
- ✓ Far deeper knowledge of service providers' capabilities and contracting practices
- ✓ Better able to facilitate deep buyer-seller connections that lead to successful relationships.



Table of Contents

Table of Contents

- Report Overview
- Objectives and Scope
- Summary of Findings
- Management Fee
- ☐ Rate Card for Self-performed Work
- Pass Through Expenses
- Service Levels
- ISG Approach and Method



Benchmark Report



Benchmark Report

- About this Report
 - The primary objective of this benchmarking report is to communicate the results of ISG's analysis and findings that are based on the information and data reported over the course of this engagement.



Report Overview

Project Timeline

The study took place over an eight-week period in September and October 2020. Both Hydro One and BGIS personnel participated.

Project Milestone	Completion Date
Kick-off meeting held	Sept 9
Data collection completed	Sept 25
Data analysis and benchmark complete	Oct 16
Draft findings shared	Oct 19
Final report	Oct 30

Objectives and Scope



Project Objectives

Hydro One requested ISG to perform a benchmark of the current BGIS Facilities Management contract, as provided for in the agreement.

- Hydro One is exercising its option to conduct a benchmarking effort associated with the Facilities Management scope being delivered by BGIS.
- Hydro One has retained ISG as an independent third party to undertake a review BGIS' Fees for Facilities Management Services in the fourth calendar quarter of 2020. The "Contract Year" commencing January 1, 2019, through to December 31, 2019, will be used for the review of BGIS' Fees and Pass-Through Expenses.
- Pursuant to the Article 16, Section 16.1 of the Master Services Agreement between Hydro One and BGIS, Hydro One has the right to have BGIS' Charges for the Services under the Facilities Management Statement of Work reviewed by an independent third party. ISG was selected to conduct this review.

Overall Project Scope

The Scope of the Services includes the following BGIS charges for services performed during the calendar year 2019:

- Management Fee and Facilities Management Employee Cost
- Rate cards for services
- Pass through expenses

Excluded from this benchmark were new construction projects and major capital projects



Summary of Findings



Summary of Benchmark Findings

In general, the BGIS contract continues to provide good value to Hydro One. The following observations were made during the study.

- The Management Fee expressed as a percentage of spend under management is at the midpoint of the market range for similar agreements.
- ☐ The rate card for project management is similar to the rate cards for other providers.
- ☐ A study of the expenses in running the Markham office compared to the published IFMA benchmark show that the facility is being run efficiently at expenses slightly lower than for other Utilities industry sites.
- ☐ The procurement processes at BGIS are well documented and transparent. The process uses MERX a publicly available tool for bid management. The BGIS process is designed to ensure that best value providers are selected.
- ☐ The service levels are comparable to the service levels in other FM contracts.

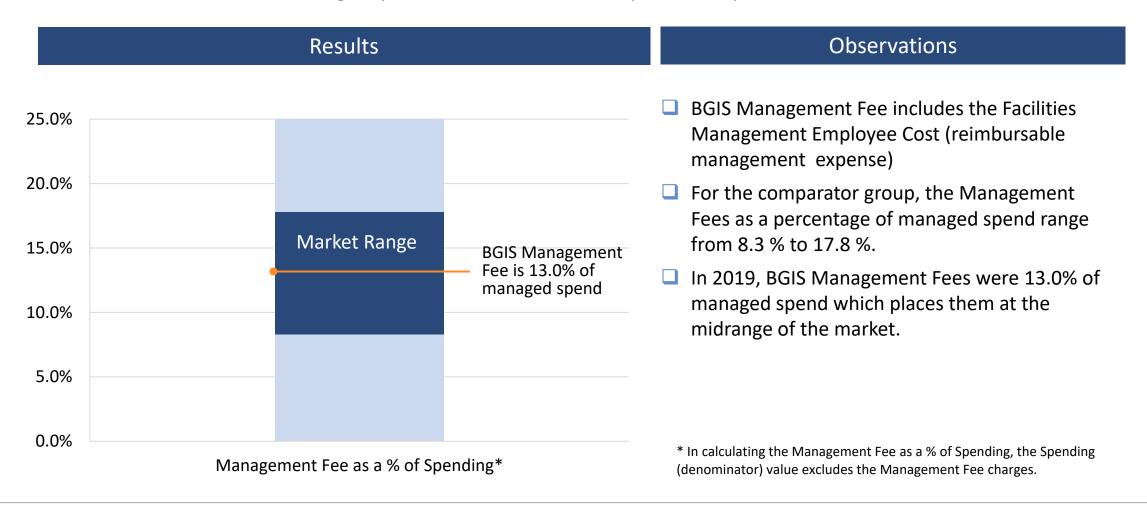


Management Fee



Management Fee Comparison

ISG performed a comparison of the Management Fee as a percentage of the annual managed spend. The results of this comparison are provided below:





Rate Card for Self-performed Work



Rate Card Comparison

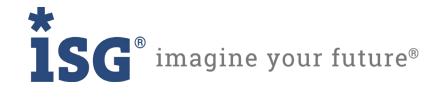
ISG performed a comparison of BGIS's Rate Card and compared it to the Market. The results of this comparison are provided below:

Results							
Mark-to-Market® Ranges							
Rate Card BGIS Market Range							
Senior Project Manager							
Project Manager							
Project Coordinator/Superintendent							

Observations

- Many BGIS roles on the rate card did not have directly comparable roles in other contracts.
 The area of commonality was restricted to Project Management.
- BGIS Rate Card rates for comparable roles were similar to those of the comparators.

Pass through Expenses



The Markham Office on Clegg Road

The Markham office was chosen for the benchmark review as it is the largest office managed by BGIS for Hydro One and is most directly comparable to the IFMA benchmark.



The Markham office has an area of 105,565 square feet and is used for mixed office and call centre space.

For the purposes of the benchmark, the RSF was assumed at 95% of the gross building area or 100,567 rsf.



The International Facility Management Association (IFMA) publishes a benchmark study of practices and costs for the US and Canada which has become the most widely accepted benchmark for Facilities Management.

Respondents were asked to provide information on the facilities they manage for a 12-month time period. Approximately 2,193 surveys were returned during a four-month time period representing more than 98,000 buildings.

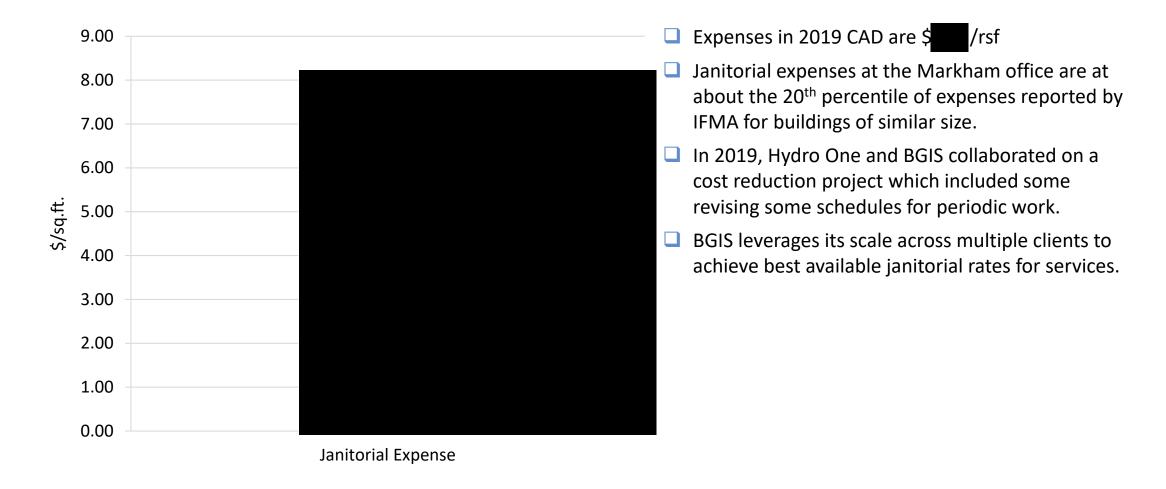
The IFMA Benchmark contains values reported by various industries. For this study, the values reported by Utility companies were used.

This benchmark was used to evaluate current spending at the Markham office.



Pass through Expense Findings – Janitorial

Janitorial Expenses at the Markham office on Clegg road were compared to expenses for similar buildings reported by IFMA.



Pass through Expense Findings – Maintenance Expense

Maintenance Expenses at the Markham office on Clegg road were compared to expenses for similar buildings reported by IFMA.

	External Building	Internal Systems	Roads and Grounds	Utility/Central Services	Health, Safety and Environment
2019 Actual spend					
\$/RSF					
IFMA benchmark (adjusted)					
Utilities industry	0.35	2.00	0.57	1.00	0.07

- In all categories, the current expenses at the Markham office are consistent with building maintenance expenses reported by other Utility companies.
- □ IFMA offers benchmark data arranged by industry. For this study, the data for the Utilities industry and for the Mixed Use Office facility type were used.
- BGIS expenses for internal and external maintenance are lower than the IFMA benchmark for both the Utilities industry and for Mixed Use buildings across all industries. This lower cost is driven in part by BGIS' use of multi-skilled technicians enabling the bundling of work orders, and also by BGIS' ability to leverage the scale of their entire client base in negotiating key supplier contracts.
- Roads and ground costs are similar to other sites in the Utilities industry.
- The very low value for Utility/Central services is due to the low complexity of the building and the absence of substantial utility equipment on site.
- The low spending for Health, Safety and the Environment (HSE) is due to the cost of the cost of HSE facilities work orders being attributed to general building maintenance (i.e repair of stair railings is attributed to building repairs rather than to HSE).



Procurement of Pass through Expense Items

The procurement process of BGIS was reviewed, and a 2019 procurement for Janitorial Services was examined in detail.

Hydro One provided examples of areas of concern and these were also discussed.

- The process for tendering ongoing supply was reviewed. BGIS has a robust and well documented procurement process which uses MERX, a public tendering software.
- ☐ Hydro One business volume is aggregated with other BGIS clients through a process of simultaneous release of multiple RFP's each specific to a client and notice to vendors that the bid responses will be evaluated in the aggregate. This results in lower unit costs for each of the participating clients.
- For minor facilities maintenance capital projects, BGIS relies on a few general contractors. Although these general contractors do obtain multiple bids for larger projects and can demonstrate fiscal responsibility, the process for selecting the general contractors is not clear.



Service Levels



Service Level Findings

Current Service Levels and Reporting of Service Levels were reviewed.

- The current service levels are consistent with service levels used in other contracts for the management of corporate real estate assets.
- ISG noted that the Service Levels have not been reviewed since the Effective Date, and there would be benefit to both parties to engage in a review and revision to correct or remove current issues.
- ☐ The customer satisfaction questionnaire was revised at some point without making corresponding changes to the service level thresholds. This measure would benefit from being re-baselined during a period that both parties agree represents an acceptable level of service.



ISG Approach and Method



ISG Approach

ISG analyzed the performance of the current BGIS contract for the management of existing performance relative to market standards by:

- Evaluating the Management Fee appropriateness by comparing to market benchmarks against contracts for which ISG was the advisor.
- Evaluating Pass-through Expenses using two approaches;
 - A review of recent tendering activities of BGIS to determine whether BGIS is performing the contracted services are at current market rates;
 - A review of the Operating Expenses at the Markham office on Clegg Road against the published North American IFMA benchmark.
- Evaluating the BGIS Rate Card for self-performed services by comparing to the rates to market rates on contracts for which ISG was the advisor.



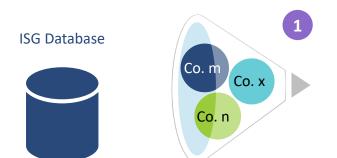
ISG's Benchmarking Peer Groups

ISG's approach for selecting appropriate comparators withstands regulatory scrutiny.

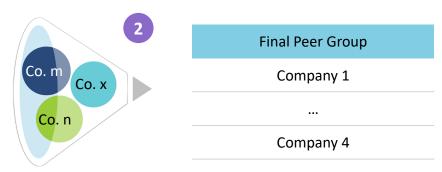
Key selection criteria will be agreed with all parties at the start of the process.

ISG then selects those reference group members that **best fit** to the services.

- ISG provides and aligns with client on a Peer Group.
- Peer Group members consist of with similar services performed.
- Each group consists of at least 5 comparable businesses with similar services.
 performed in Canada.
- Data shown represents the mean performance of the group.



Peer Group Candidates				
Company 1	Company 4			
Company 10	Company 15			



1. Pre-selection

ISG identified possible candidates from the ISG contractual and cost databases based upon the agreed key selection criteria, e.g.,

- General service scope
- Geographic markets
- Currencies
- Data validity

2. Service Alignment

ISG selected the data appropriate for the in-scope benchmarked services according to the agreed ISG Service and Product Catalogue:

- Industry and Service spread/scope
- Service quality
- Service volumes
- Service complexity and technology



Facilities Management Services Comparators

The companies and contracts that were used as comparators for the Hydro One/BGIS price benchmark are outlined below.

The comparators used to perform the benchmark were comprised of:

- Canadian public companies, some of whom also had US operations.
- One of the contracts was a Canadian energy company. The balance were other industries.
- ☐ The smallest comparator had 127 sites, the largest had 891 sites
- The services provided were similar (janitorial, maintenance, minor maintenance capital, receptionist / admin)
- ☐ All contracts used a similar structure with management fee and pass-though of expenses.



Adjustments Applied

Listed below are adjustments that ISG applied/considered to the comparator/market costs to normalize pricing.

- ☐ For the benchmark study of the Management Fee and Rate Cards, the following adjustments were used:
 - The comparator contracts were all expressed in CAD. Therefore, no currency conversions were required.
 - Inflation adjustments based on the CPI index for Canada; all items excluding energy were applied to those comparator costs prior to 2019.
 - The impact of unionization requirements is immaterial and not applicable for this benchmark comparison.
- For the Markham Office study, the following adjustments were used:
 - Values used in adjusting amounts for inflation were taken from <u>Stats Canada</u> Consumer Price index, annual average, not seasonally adjusted using the line for "All-items excluding energy".
 - Conversion from CAD to USD was done using the IFMA regional adjustments table at the rate of \$3.81 USD ~ \$4.75 CAD.
 - Conversion of gross building area to RSF (rentable square feet) assumed a load factor of 5% for utility space.



Report Sign-Off

Report Sign Off Agreement:

Signed in Toronto, Ontario, Canada on October 13, 2020.

Agreement: Hydro One

Agreed by:

BGIS

Agreed by:

ISG

Agreed by:

John Boldt

Richard MacIntosh

Joh Boldt

Kevin Coleman





ISG (Information Services Group) (Nasdaq: III) is a leading global technology research and advisory firm. A trusted business partner to more than 700 clients, including more than 75 of the top 100 enterprises in the world, ISG is committed to helping corporations, public sector organizations, and service and technology providers achieve operational excellence and faster growth. The firm specializes in digital transformation services, including automation, cloud and data analytics; sourcing advisory; managed governance and risk services; network carrier services; strategy and operations design; change management; market intelligence and technology research and analysis. Founded in 2006, and based in Stamford, Conn., ISG employs more than 1,300 digital-ready professionals operating in more than 20 countries—a global team known for its innovative thinking, market influence, deep industry and technology expertise, and world-class research and analytical capabilities based on the industry's most comprehensive marketplace data.

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A - SCHOOL ENERGY COALITION INTERROGATORY - 006

1 2 3

Reference:

4 No reference provided

5 6

Interrogatory:

- 7 Please provide summaries of all internal audit reports conducted since 2017, related to any aspect
- 8 that directly or indirectly relates to Hydro One's business, their findings, recommendations, and
- 9 the status of any actions that have or are to be taken.

10 11

Response:

- The summaries provided herein are from the internal audit reports provided to the Audit
- 13 Committee of the Board of Directors.

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Please see Attachment 1 for the summary of audit reports provided in Hydro One's previous transmission application (EB-2019-0082) for the 2017 to 2019 period.

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- The summary of audit reports applicable to Hydro One Distribution not included in Attachment 1
- for the period 2017 to 2019, and audit reports for Hydro One Distribution and Transmission for
- the period 2019 to 2021 have been included herein.

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Audits - Hydro One Distribution for the period 2017 to 2019.

Report	Audit Name	Conclusion	Summary of Observations and	Management Action Plans	Status	Witness
Code			Recommendations			
2017-08	SF6 Gas	The processes and controls to	- Re-assess the feasibility of using one of	Management initiated	COMPLETE	JABLONSKY
	Management	satisfy regulatory requirements	the two mandated formats and	immediate corrective action.		Donna
		for accurate reporting of the	methodologies specified by O. Reg.			
		SF6 emissions need significant	143/16 to report SF6 emissions.			
		improvement. The processes	- Develop a plan to mitigate the			
		and controls to minimize SF6	reporting risks or implement actions to			
		emissions need improvement.	address the control gaps to satisfy			
			reporting requirements.			
			- Clarify the management framework			
			relating to the strategy, processes and			
			documentation to manage and report			
			SF6 emissions.			
2017-11	Distribution	Some control improvements	Update accountabilities for distribution	Management will action the	COMPLETE	JESUS Bruno
	System Force	are needed for reporting of	system reliability measures (incl. Force	recommendations		
	Majeure Event	distribution system reliability	Majeure major events) in the			
	Assessment	results and Force Majeure	documents.			
		events.	Update the Force Majeure Days			
			Determination Guideline with more			
			prescriptive assessment criteria that is			
			aligned with OEB and CEA terminology.			
			Implement controls to ensure that the			
			outcome of the event assessment is			
			documented and matches the reported			
			outcome in the scorecard.			
			Establish a process owner to lead the			
			development of a process for the			

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2047.42	Prove Outline		reporting Major Event information to the Ontario Energy Board as per its Electricity Reporting & Record Keeping Requirements instruction issued on May 3, 2016.		COMPLETE	
2017-13	Power Quality Management	Improvements are needed to ensure adequate controls are in place for effective power quality management.	- Clarify accountabilities and document a response process with timelines on power quality investigations for large distribution customers - Align the Distribution Power Quality and Reliability Policy with the process documented in NOD's Customer & Operating Support Process Document and Provincial Lines' Power Quality Work Instructions - Establish a centralized tracking and reporting mechanism for power quality related incidents reported by large distribution customers	Management will action the recommendations	COMPLETE	GILL Spencer
2017-16	Meter-to-Bill: Estimating and Billing	Shared accountabilities with other support groups require clarity.	 Work with Enterprise IT and Security to ensure the sensitive transactions and data within the billing process are made available to only those who require the functionality. Develop a formalized operating level agreement with Advanced Metering Infrastructure Network Services, Provincial Lines and Customer Service Operations that defines purpose, scope, roles and responsibilities, performance 	Management will action the recommendations	COMPLETE	GILL Spencer, MARCOTTE Kevin

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			management and cost management			
			procedures			
					001101555	
2017-27	Move to Mobile	Project management controls	- Augment the benefits realization	Management will action the	COMPLETE	NG CK
	Post	were generally effective to	calculation to include a number of	recommendations		
	Implementation	mitigate the risks associated	contributing factors which affect the			
	Review	with the integration of the	integrity of the benefits calculation being			
		M2M solution. Controls over	reported to Senior Management.			
		the benefit realization	- Implement process adoption metrics			
		reporting process, process	and management reporting to ensure			
		adoption and management	business processes are being followed			
		reporting need improvement.				
2017-31	Polychlorinated	Review of the asset records	Distribution Stations, Transmission	Remedial actions have been	COMPLETE	NG CK,
	Biphenyls	and PCB test results indicates	Stations, and Distribution Lines have	implemented to ensure the		JESUS Bruno
	Management	that the Company is making	formal and effective processes to	2025 compliance obligation is		
	(PCB	progress across various LoBs in	monitor accomplishment of PCB	achieved.		
	Management)	obtaining PCB sample test data	inspections, testing, retrofills and			
		from our in-service assets as	equipment replacement at the individual			
		summarized in Table 1.	work program accomplishment level. In			
			general, the Station Service and			
			Distribution Lines field staff are able to			
			achieve the PCB inspection, testing and			
			retrofill work targets as set out by the			
			Planning Division.			
			Some challenges include:			
			Identifying pre-1985 equipment;			
			Scarcity of funds for the PCB sampling			
			and replacement programs; and			
			 Resource and outage constraints for 			

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			effective implementation of the work programs.			
2017-40	Remote Disconnect Reconnect - Post Implementation Review	The RDR project is in a pilot project state. Although the technology is reliable, the supporting RDR process controls need improvement.	 The RDR meter installation process has gaps with respect to monitoring and oversight controls. The smart meter network is waiting for software vulnerability patches from the vendor. 	Management is actioning the recommendations including by redesigning the Credit and Collections' policies to reduce overdue receivables and simultaneously reduce disconnections for non-payment. Remote disconnection/reconnection improves safety for our field crews, reduces cost by eliminating truck rolls and allows us to quickly reconnect customers who have paid their bills.	COMPLETE	HOLDER Godfrey
2018-05	Distribution Station Design Standards	Controls need improvement	- Establish a consistent mechanism to evaluate design alternatives against key design criteria and stakeholder needs Establish a mechanism to track, monitor and communicate the needs of design standards based on new functional requirements from Asset Management	Management will establish and enforce a consistent approach and criteria to document, evaluate and communicate design alternatives to determine the best design option aligned with corporate values and priorities. - We will develop a mechanism to track new functional requirements to facilitate design standards development, and to ensure that Engineering	COMPLETE	SPENCER Andrew

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				is involved in the development process.		
2018-15	Review of Sustainment of Underground- Submarine System	The processes and controls related to the sustainment of the submarine system need improvement.	- The replacement program does not take into account all known damaged submarine cable assets. - The inspection maintenance cycle does not take into account the full population of submarine cable assets.	Management has established plans to review all decommissioned functional locations to ensure replacement of all damaged submarine cables.	COMPLETE	FALTAOUS Peter
2019-04	Customer Call Centre - Timesheet Process Review	The CCC Timesheet Process needs improvement	Recommendations, both short term and longer term, have been developed in conjunction with the Customer Service Operations (CSO) and Human Resources (HR) to align CCC payroll with Hydro One's centralized process, correct payroll errors (which are immaterial in nature), and address identified issues.	Management is addressing the identified issues, and action plans are currently underway to strengthen and improve the CCC Timesheet processes.	COMPLETE	GILL Spencer
2019-07	Outage Communication to Customers	The design and synchronization of customer communications systems, controls over the validity of ETR information inputs, and the timeliness of information updates to the customer need improvement.	ETR information may be communicated inaccurately during storms Outage information is not consistent across customer communication channels ETR information lacks data change management controls The methodology for calculating Reported ETR accuracy requires enhancement	Management has committed to clarify and communicate the ETR storm accountabilities and mutually agreed upon ETR performance targets to improve the ETR accuracy Management has committed to reinforce existing guidelines, utilize automation and establish the appropriate system logic controls for ETR changes to improve the accuracy of ETR communications and reporting	COMPLETE	HOLDER Godfrey

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Hydro One Distribution and Transmission for the period 2019 to 2021

Report	Audit Name	Conclusion	Summary of Observations and	Management Action Plans	Status	Witness
Code			Recommendations			
2019-12	MTO Driver	Compliance observed with 44 of	The audit identified instances of	Management has taken	COMPLETE	BERARDI Rob
	Certification	45 MTO DCP audit protocol	inaccurate marking of written tests for	corrective actions to		
	Program	requirements.	driver license upgrades and renewals.	immediately review and amend		
	Compliance		None these marking variances impacted	written test marking quality		
	Review (2019)		overall test results.	assurance and pursue a long-		
				term solution to leverage		
				electronic testing and marking		
				to address this repeat infraction.		
2019-13	Distribution	While key processes and	Inconsistent approaches were applied	Management has developed	COMPLETE	CK NG
	Lines Work	controls are generally effective.	for monthly cost and unit	action plans to enhance work		
	Program	Minor improvements are	accomplishment forecasts.	program forecasts and establish		
	Management	needed to ensure consistent		a variance approval process.		
		cost and unit accomplishment				
		forecasting.				
2019-14	Casual Trades	The B&T allowance process is	- Lack of management verification	The successful and effective	IN PROGRESS	CHHELAVDA
	Board and	highly manual and cumbersome	procedures – Periodic audits will be	implementation of some		Samir,
	Travel	and needs improvement to	introduced to validate eligibility and	management actions will need		LILA Sabrin
	Allowances	ensure appropriate governance,	policy compliance, and the enhanced	the support of Labour Relations		
		efficient administration and	functionality provided by the HR-Pay	and supporting labour groups		
		effective oversight. In the	Transformation Project and Concur will	and are dependent upon the		
		absence of effective controls,	improve controls.	enhanced tools to be delivered		
		enhanced processes and greater		by the HR-Pay Transformation		
		use of technology, analytics		Project and Concur. Internal		
		and automation, there is an		Audit will support management		
		increased risk of inaccurate B&T		on these initiatives and track the		
				action plans until completion.		

Witness: As Specified Herein

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		allowance payments and process inefficiencies.				
2019-16	Temporary Employee and Contractor Management	Inconsistent approach to the contractor management lifecycle, inclusive of workforce management strategy, background security screening aligned with the corporate standard, and contractor training and oversight.	Lack of directives to determine the optimal use of contractor and temporary employees Background checks and security screening is not performed for contractors Lack of clear direction on mandatory training requirements for contractors	 A workforce strategy will be developed to provide clear guidance on the suggested use of contingent workforce to meet business objectives. Supply Chain has committed to enabling Security with the tools to improve background security screening for contractors. 	IN PROGRESS	BERARDI Robert, LILA Sabrin
2019-18	PCB Management Follow-up Review	The Company has made substantial progress since the 2017 PCB Management Audit	 The back-loaded plan for retrofilling of Transmission Stations PCB assets (i.e., bushings) requires accelerated efforts Sampling and Chain of Custody issues have been identified through Line of Business reviews and third-party laboratory quality assurance reports. Executive-level oversight, monitoring and reporting over the remaining PCB phase-out program could be enhanced 	 Management will monitor the overall plan execution on a quarterly basis and adjust the Business Plan annually to ensure achievement of the end-of-use compliance deadline. Management has initiated action plans to understand and improve these issues through continuous improvements to the PCB sampling program and enhanced training. 	COMPLETE	JABLONSKY Donna
2019-20	Corporate Scorecard Process Review 2019	Processes and controls over the approval of corporate goals are satisfactory.	No observations raised, however, timely completion of action plans from the National Instrument (NI) 52-109 internal control certification program will further strengthen controls for:	Management is enhancing prescriptive guidance and documentation requirements for ISAs and clarifying accountabilities for review and	COMPLETE	LILA Sabrin

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2019-22	Non-Financial	A non-financial reporting	In-Service Additions (ISAs) Critical Spreadsheets - standardization of processes related	oversight. 2. Finance has an initiative underway to enhance controls over critical financial reporting spreadsheets as part of the Financial Control Assurance program. The Disclosure Committee will	COMPLETE	CHHELAVDA
	Disclosure Review	strategy has not been formalized.	to the identification of non-financial disclosures is required	oversee the development of a non-financial disclosure strategy		Samir
2019-24	Vendor Master Data Change Control	Key controls over ensuring the accuracy and authorization of vendor master data changes are generally effective. Minor improvements are needed to increase security and ensure requests for vendor data changes are validated	Enhancing the verification process to confirm banking vendor master data change requests Improving the frequency and fulsomeness of the review of vendor master data access entitlements	Management to implement a confirmation process to independently validate vendor master data change requests	COMPLETE	BERARDI Robert
2019-25	Helicopter Operations - Remediation Activity Review	The following formal internal and external reviews have since been completed: Internal Reviews 1) Helicopter Services Program Review Final Report (July 13, 2018) - Synergy Aviation Services (external aviation consultant) 2) HMRPH Investigation-Transmission Lines Construction, Helicopter	No non-compliance and/or actions to comply were issued against the Company by the Transportation Safety Board or Ministry of Labour. The Company voluntarily initiated remedial actions to improve its helicopter operations.	Determination of the operational strategy and business service model for the Helicopter Services operation Prioritization of remedial actions Continual reinforcement of key safety messages within Helicopter Services and the Lines of Business using their services.	N/A	BERARDI Rob

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		Incident Fatalities (EHSM #10003150, August 30, 2018) – Hydro One External Review 3) Aviation Investigation Report) - Transportation Safety Board of Canada.					
2019-26	CEA Sustainable Electricity Company TM Brand - Verification Audit	The Company generally satisfies the CEA's Sustainable Electricity Company™ brand verification audit requirements. The Company is encouraged to formalize its sustainability strategy and tactical program, enhance internal awareness, further integrate sustainability into its operations.	The Company satisfied 67 out of the 73 criteria (92%) established by the CEA for verifying adherence to the Sustainable Electricity Company TM brand designation requirements.	No	Management Action Plans	No Management Action Plans	JESUS Bruno
2019-28	Capital Project Review	Documentation must be updated to ensure it is aligned with current practices. The processes to ensure clear ownership and updates of the PDM processes, integrate continuous improvements, provide ongoing training, and improve specific aspects of Risk Management, Cost Management, and Schedule Management processes need minor improvement.	The Project Delivery Model (PDM) is not regularly updated; and Key processes, namely Risk, Schedule, and Cost Management as defined in PDM are not consistently adhered to	2.	Management has committed to regularly update the PDM, and establish clear process ownership, stakeholder training, and effective communication across multiple Lines of Business; and For each process, Management has committed to improve monitoring to ensure that	COMPLETE	SPENCER Andrew

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				controls are followed, revise the process considering project categorization (based on Project Tier) and project phase, or remove non- essential process steps and controls while assessing the risk of these changes.		
2019-31	Preventive Maintenance Optimization Review for Transmission Stations	Hydro One is transitioning to a Condition Based Maintenance (CBM) strategy. Existing maintenance strategy documentation needs to be updated to reflect the transition to CBM.	Existing maintenance strategy documentation needs to be updated to reflect the transition to CBM and the related processes and controls need improvement	Management is developing: decision guidelines and instructions to document CBM decisions; and reporting to monitor completeness of asset condition information, completion of Preventive Maintenance Work Orders and Defect Reports and follow-up on status with the Service Provider.	COMPLETE	JABLONSKY Donna
2019-32	Regulatory Account Reconciliation Review	Controls to support the presentation of regulatory assets and liabilities within the consolidated financial statements of Hydro One Limited are generally effective. Minor improvements to formalize the key handoffs of information needed.	Enhance the formalization of the processes for communicating key information that supports regulatory accounting	Management will: Formalize the review and analysis of all OEB notifications that impact financial reporting Define critical information resulting from the rate application process to be	COMPLETE	CHHELAVDA Samir

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2020-02	SF6 Gas Management - Remedial Activities Review	As at January 10th, 2020, based on the evidence provided, all 15 remedial actions have been completed by Management. A consolidated summary of the findings, recommendations, Management's remedial actions, and our assessment of completion is provided in Table 1	All 15 remedial actions have been completed by Management.	formally provided or confirmed by Regulatory Identify key information provided by other lines of business that is utilized to support regulatory accounting and define a requirement for appropriate review and approval prior to a timely handoffs of this information to the Financial Reporting group No Management Action Plans	No Management Action Plans	JABLONSKY Donna
2020-05	2017 Long-Term Incentive Plan – Performance Share Unit Performance Multiplier	For both versions of the 2017 PSU Performance Multiplier (including/excluding the OEB Pension Decision) the reported Average EPS over the three-year PSU Grant period and the	No recommendations arising from this review	No Management Action Plans	No Management Action Plans	LILA Sabrin

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		resulting final 2017 PSU				
		Performance Multiplier are				
		appropriately supported and				
		consistent with plan				
		documentation and subsequent				
		Board approved amendments.				
2020-06	2019 Corporate	For both versions of the 2019	No recommendations arising from this	No Management Action Plans	No	LILA Sabrin
	Scorecard	Corporate Scorecard	review		Management	
	Assurance	(including/excluding the OEB			Action Plans	
	Review	Pension Decision):				
		• the reported 2019 corporate				
		goals and associated				
		performance levels				
		("Threshold", "Target", and				
		"Exceeds") and relative				
		"Scorecard Weighting" agree to				
		those approved by the Board;				
		the reported achievement				
		results ("actuals") for each				
		corporate goal agree to				
		supporting documentation and				
		are rounded in accordance with				
		the same level of precision as				
		the 2019 performance level				
		targets ("Threshold", "Target",				
		and "Exceeds") approved by the				
		Board; and				
		the mathematical accuracy is				
		correct throughout, including				
		the calculation of each 2019				

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2020-08	2019 In-Service Additions Assurance Review	Corporate Scorecard goal's "achievement calculation", "STIP %" and overall "Consolidated STIP Achievement". Sampled ISAs met Management's determination of "used and useful" criteria as of the declared in service date, with some exceptions.	Minor improvement suggested to ensure a consistent and documented approach to support ISA declaration, particularly with respect to partial assets	No Management Action Plans	No Management Action Plans	CHHELAVDA Samir
2020-09	2019 Year-End Unrecorded Liabilities	No issues noted	No recommendations arising from this review	No Management Action Plans	No Management Action Plans	CHHELAVDA Samir
2020-12	Distribution - Field Design Estimating Process Review	The currently established field design and estimating process for customer connections needs improvement	Greater consistency and transparency of designs and cost estimates for customer connections is needed through improvements to controls, guidelines and program structure. Increased monitoring and oversight of estimates is required.	 Management has committed to establish the appropriate governance for the design and estimating process to drive consistency of customer deliverables. Management has committed to establish an oversight accountability to implement metrics/targets and periodic reviews to drive continuous improvements in estimate accuracy and customer deliverable timelines. 	IN PROGRESS	CK NG

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2020-13	MTO Driver	Management implemented	All remedial actions stemming from the	No Management Action Plans	No	BERARDI
	Certification	effective corrective actions to	2019 review have been satisfactorily		Management	Robert
	Program	address written test marking	addressed and Management has		Action Plans	
	Compliance	accuracy issues identified in the	confirmed that there have been no			
	Review (2020)	2019 audit	errors in the marking of written tests			
			since June 1, 2019.			
2020-14	2019	Satisfactory evidential support,	In addition to providing the	No Management Action Plans	No	CHHELAVDA
	Sustainability	data validation, and quality	Sustainability Report to the Disclosure		Management	Samir
	Report -	assurance checks to ensure the	Committee for review and approval,		Action Plans	
	Assurance	integrity of the data being	the Sustainability team has			
	Review	reported in the 2019	implemented a number of internal			
		Sustainability Report and to	controls and quality assurance checks			
		mitigate potential disclosure	to increase confidence in the 2019			
		risks.	Sustainability Report disclosure.			
2020-15	Load	The Load Forecasting group has	Comprehensive documentation is	Management has agreed to	COMPLETE	BIJAN
	Forecasting	consistently produced	needed to ensure that the process is	identify and codify key		ALAGHEBAND
	Review	transmission and distribution	consistent, repeatable and not fully	knowledge, skills and		and STEPHEN
		system load forecasts and has	reliant on individual staff.	experience needed and develop		VETSIS
		defended the forecasts in		a detailed succession plan that		
		support of rate applications for		will ensure continuity of the		
		many years. The process		load forecasting function and		
		depends on long-serving		reduce reliance on key		
		individuals with specialized		individuals.		
		subject matter knowledge and				
		experience. Minor				
		improvements are needed to				
		the documentation of process				
		governance, management of				
		internal records and succession				
		planning.				

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2020-18	A/R Provisioning	Process and controls in place are satisfactory to support the calculation of the allowance for doubtful accounts reported in Hydro One's consolidated Financial Statements as at Sept 30, 2020.	No recommendations arising from this review	No Management Action Plans	No Management Action Plans	CHHELAVDA Samir
2020-21	Metering Service Provider Follow-up	Hydro One Networks is currently providing wholesale metering services through collaborative and coordinated multi-LoB efforts. Processes and controls within each LoB need minor improvements to ensure quality deliverables as per the MSP Agreement.	Process for the assessment and confirmation of sufficient and qualified personnel for anticipated MSP related workload within each LoB needs to be formalized. Consistency in the Quality Assurance (QA) process is needed to mitigate the risk of non-compliance with the Market Rules and the MSP Agreement.	Management has agreed to periodically assess and confirm the adequacy of qualified staff to perform MSP tasks within each supporting LoB based on anticipated workload. Management has agreed to review the quality assurance processes to ensure appropriate records of quality control activities performed for each deliverable are being maintained and segregation of duties among roles (i.e., separating performance and review) is established where appropriate.	COMPLETE	PAISH David
2020-24	Review of Anti- Fraud Controls at Recently Acquired Local	The review concluded that key anti-fraud controls are designed and in place at the recently acquired LDCs and are satisfactory to	Hydro One management should consider fraud risk for any future LDC acquisitions. Going forward, management should: - review fraud risk during the pre-close	Management is in agreement with this recommendation and has developed appropriate action plans.	COMPLETE	CHHELAVDA Samir

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	Distribution	ensure fraud risk is adequately	process and validate that anti-fraud			
	Companies	mitigated to an acceptable level.	controls are in place; and			
			-the business readiness checklist be			
			updated to ensure this assessment has			
			been completed.			
2021-01	2020 Corporate	We have reviewed the 2020	No recommendations arising from this	No Management Action Plans	No	LILA Sabrin
	Scorecard	Corporate Scorecard provided	review.		Management	
	Review	to us on February 9, 2021 and			Action Plans	
		confirm that:				
		· the reported achievement of				
		each 2020 corporate goals, the				
		associated performance levels				
		("Threshold", "Target", and				
		"Exceeds") and relative				
		"Component Weight" agree to				
		those approved by the Board;				
		· the reported achievement				
		results ("actuals") for each				
		corporate goal agree to				
		supporting documentation and				
		are rounded in accordance with				
		the same level of precision as				
		the 2020 performance level				
		targets ("Threshold", "Target",				
		and "Exceeds") approved by the				
		Board; and				
		· the mathematical accuracy is				
		correct throughout, including				
		the calculation of each 2020				
		Corporate Scorecard goal's				

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		"achievement calculation", "STIP %" and overall "Consolidated STIP Achievement". Based on the procedures performed, we agree with the 2020 Corporate Scorecard as presented in Appendix A with a Consolidated STIP Achievement of 115.08%.				
2021-02	2018 LTIP Grant Review	The 2018 PSU Performance Multiplier, the reported Average EPS over the three-year PSU grant period and the resulting final 2018 PSU Performance Multiplier are appropriately supported and consistent with plan documentation and subsequent Board approved amendments.	No recommendations arising from this review	No Management Action Plans	No Management Action Plans	LILA Sabrin
2021-03	COVID-19 Mid- Action Review - Follow-up Review	Management is diligently executing upon the action plans and at this time: • 8 of the 9 short-term recommendations were satisfactorily addressed; and • the EM&RC team is making steady progress on the longer-term recommendations, with	Key observations and management actions arising from this review are summarized as follows: In the short-term, periodic updates of the Corporate Pandemic Playbook are needed to assist the Emergency Operations Centre (EOC) Team and Lines of Business (LOBs) to effectively activate and appropriately respond to similar events in the future.	 Management has committed to updating the Corporate Pandemic Playbook on a periodic basis. Changes will be communicated to relevant stakeholders and participants will be on-boarded accordingly. Management has committed to establishing an Emergency 	IN PROGRESS	HOLDER Godfrey

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		estimated completion dates	In the longer-term, Management	Management & Business		
		for all recommendations by	oversight and monitoring of	Continuity Steering		
		2024.	recommendations is needed to assist	Committee (EMBCSC) where		
		Minor improvements are	EM&RC and receive appropriate	progress on the longer-term		
		needed to address the final	executive support and resourcing to	recommendations will be		
		short-term recommendations	complete longer-term	presented and communicated		
		(refer to Appendix A for details)	recommendations.	on a periodic basis.		
		and to provide appropriate	recommendations.	In addition, opportunities for		
		oversight and support for the		improvement, which would		
		completion of longer-term		bolster the overall effectiveness		
		actions.		of the Company's response to		
		detions.		the pandemic and similar future		
				events, were also identified and		
				communicated to EM&RC		
				Management.		
2021-04	2020 In-Service	While there was satisfactory	Standardizing processes would improve	Management developed	IN PROGRESS	CHHELAVDA
2021 04	Additions	evidence to support the	evidence of compliance with the in-	appropriate action plans.	IIV I NOONESS	Samir
	Assurance	balances for ISAs reviewed	service criteria; demonstrate	appropriate action plans.		Saiiii
	Review	during this engagement;	operational confirmation for the assets			
	Neview	controls over the process	and reasonability of associated costs.			
		need minor improvement.	and reasonability of associated costs.			
2021-05	Executive	There was satisfactory	No recommendations arising from this	No Management Action Plans	No	LILA Sabrin
2021-05	Compensation	evidential support to validate	review.	No ivialiagement Action Plans	Management	LILA Sabilii
	Disclosures	key in-scope executive	review.		Action Plans	
	Review - 2021	compensation disclosures within			ACTION Plans	
	Management	the 2021 MIC. Disclosures				
	Information					
	Circular	reviewed were appropriately				
	Circulai	supported; consistently cross- referenced and in agreement				
		_				
		with the prior year. Further, a				

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		robust management process for the preparation and review of the 2021 MIC was observed.				
2021-06	COVID-19 Workplace Health and Safety Management Review	The Company quickly utilized its mature emergency management experience, systems and personnel to implement processes and controls to support the occupational health and safety of its employees and workplaces during COVID-19.	Key success factors for the Company's pandemic response include: • Early initiation (i.e., mid-January 2020) of the Pandemic Planning Committee, with in-house occupational health and safety subject matter expertise, began monitoring the situation and initiated advanced planning prior to the World Health Organization (WHO) declaring a global pandemic on March 11th, 2020 • Implementation of the Incident Management System (IMS) structure for activating the Emergency Operations Centre (EOC) which allowed for enhanced, centralized, informed, and timely decision-making, and facilitated cross-collaboration across Lines of Business and functional groups. "Protect employees" is a foundational principle used to guide all actions and decisions by the EOC.	No Management Action Plans	No Management Action Plans	BERARDI Rob
2021-07	Distribution Vegetation Management - Optimal Cycle	The established Optimal Cycle Protocol (OCP) approach to the Distribution Vegetation	There are opportunities to enhance roles and reporting processes regarding the OCP strategy including key program metrics, and improve oversight of the	Management will continue working to define and formalize roles between Planning and Forestry Services	IN PROGRESS	FRENCH Teri

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	Protocol (OCP) Effectiveness	Management program needs minor improvement	Tree-Caused Outage investigation process to analyze and validate outage data to drive continuous improvement of the program	Management has committed to document and validate calculations/assumptions on the reported reliability metrics for the OCP program and to share any reported discrepancies from the Tree-Caused Outage investigation process to drive continuous improvements to the corporate reliability metrics.		
2021-08	Acquired LDCs - Data Integration (2021)	As at April 26, 2021, Management has established satisfactory processes and controls related to customer data conversion for the Peterborough and Orillia LDCs.	No recommendations arising from this review.	No Management Action Plans	No Management Action Plans	FALTAOUS Peter
2021-11	Pandemic Relief Fund	This review concluded that process and controls in place are satisfactory to support valid, accurate and complete application of credits to customer accounts that meet the criteria for relief through the Government of Ontario CEAP and/or Hydro One Pandemic Relief Program.	The review identified a number of positive practices, which enhanced the consistency and transparency of credits applied	No Management Action Plans	No Management Action Plans	#N/A

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2021-12	Physical Security	In compliance with NERC CIP-	The key observations and management	Security Operations will be	IN PROGRESS	MARCOTTE
	at Transmission	0141 requirements, Security	actions arising from this review are	working closely with Enterprise		Kevin
	Sites	Operations adheres to an	summarized as follows:	Risk Management to ensure a		
		established physical security	Better alignment on the Physical	consistent alignment of risk		
		threat risk assessment process	Security Maturity Assessment with the	tolerances to physical security		
		for all critical transmission	Corporate Risk Profile/Tolerances and	and align the risk treatment		
		stations identified by System	the Threat Risk Assessments is needed	plans identified from the risk		
		Planning and the Independent	to ensure Management is able to	assessment process within the		
		Electricity System Operator	perform a more accurate assessment of	physical security assessment		
		(IESO) to support grid reliability	the maturity level of physical security	model.		
		on the Bulk Electric System.	and to prioritize and substantiate	Security Operations are in the		
		Management continues to	security investment needs to further	process of engaging with the		
		maintain and develop a robust	mitigate residual risks.	key Lines of Business		
		physical security	Lines of Business input and	stakeholders on a periodic basis		
		program and are in the process	stakeholdering into the Physical	to ensure continued alignment		
		of developing a multi-year	Security Program requires more formal	of the physical security program		
		investment plan to drive	and periodic review to ensure that the	with emerging risks and		
		necessary improvements. While	physical security strategy and business	business needs, and promote		
		there is a mature program in	initiatives continue to align and support	physical security awareness.		
		place, especially focused on	emerging physical security risks and	Security Operations has		
		critical transmission assets and	needs for the Company.	committed to work closely with		
		facilities, some specific	Increased oversight on the progress of	Project Delivery to ensure the		
		processes need minor	physical security upgrade projects at	physical security upgrades		
		improvement to further	critical transmission sites should be	identified at 29 critical		
		strengthen the overall	improved to ensure physical security	transmission sites are in-		
		effectiveness of the physical	upgrade projects are in-serviced in a	serviced in a timely manner to		
		security program.	timely manner to minimize NERC	minimize the risk of being non-		
			compliance risk.	compliant with NERC		
				requirements.		

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2021-16	MTO Driver	Previously implemented test	Several deficiencies were observed in	Management concurred with	COMPLETE	BERARDI Rob
	Certification	marking quality assurance	the maintenance of the Master File,	audit observations and took		
	Program	controls are not fully effective.	driver files, timely updates to the	immediate action to withdraw		
	Compliance	Although no specific infractions	MTO's online DCP System, and	from the MTO DCP.		
	Review (2021)	were identified against the MTO	administration of written test were			
		DCP audit protocols, several	observed. All identified deficiencies	Management outsourced all		
		issues related to program	were corrected prior to audit	DCP training, testing and		
		oversight, administration, and	completion.	licensing requirements to a MTO		
		testing were observed.		approved 3 rd party service		
				provider.		
2021-17	Corporate	There was satisfactory evidence	The Company has adequate governance	Recognizing the importance of	IN PROGRESS	JESUS Bruno,
	Sustainability	to support the reporting	and oversight to coordinate, compile	enhancing the confidence of		CHHELAVDA
	Report -	integrity of the 12 key ESG	and report on ESG indicators in a timely	future ESG disclosures and		Samir
	Assurance	indicators reviewed. Further,	fashion for inclusion in the	Sustainability reporting, the		
	Review	the maturity of processes and	Sustainability Report. However, some	Sustainability Team is actively		
		controls related to the	non-material errors/omissions arising	engaged with the non-financial		
		preparation of the Sustainability	from weaknesses of the reviewed ESG	disclosure data governance		
		Report continue to improve year	disclosure controls were identified and	project (being undertaken by		
		over year. However,	appropriately remedied by	the office of the Corporate		
		recommendations for minor	Management in preparation of the	Controller and the Disclosure		
		improvements related to data	2020 Sustainability Report. Further	Committee) and is committed to		
		collection, compilation and	strengthening of various elements of	working with reporting LOBs to		
		quality assurance review within	non-financial disclosure processes and	strengthen and document		
		reporting Lines of Business	internal controls is recommended to	controls related to ESG indicator		
		(LOBs) were identified which	improve the accuracy, completeness	governance and LOB		
		would promote the on-going	and reporting of key ESG disclosures.	coordination; consistent		
		quality, consistency and		calculation and compilation		
		enhance the level of confidence		processes; formalized quality		
		for future reporting of key ESG		assurance and approvals; and		

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		(and other similar non-financial) disclosures.		overall reporting alignment with other corporate disclosures.		
2021-18 Prod Savir	ductivity	The governance, process and control design of the Productivity Savings program are generally effective and continue to improve since the program's inception in 2016. However, the design of the existing controls over the monthly and semi-annual reviews of actual and forecast savings reported by the Lines of Business (LoBs) need minor improvement to strengthen the validation process and record keeping.	The Productivity Savings program is an integral part of Hydro One's corporate strategy, to identify sustainable internal efficiencies with the goal of offsetting inflation. Recommendations include, - enhanced governance of the Productivity Savings program, including the review and approval of productivity initiatives identified by Lines of Business; - strengthening controls related to semi-annual reviews of reported savings; - consistent maintenance of records of independent review of Productivity Savings program reported results.	Management has developed and implemented this program with effectively designed governance, processes and controls consisting of: - an experienced and crosstrained team within the Strategic Finance group to: - oversee the governance of the Productivity Savings program; and - review and approve productivity initiatives that have been identified by Lines of Business (LoBs) using an approved methodology along with appropriate baselines and assumptions detailed actual and forecast savings being reported by LoBs against established targets that are reviewed by the Strategic Finance team prior to results being communicated to the executive on a monthly basis.	IN PROGRESS	JODOIN Joel

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		Recognizing the importance of	
		productivity savings being	
		reported, Management has	
		developed action plans to:	
		- further strengthen controls	
		related to the monthly and	
		semi-annual detailed reviews of	
		LoB reported savings; and	
		- ensure that records of	
		independent review for all	
		Productivity Savings program	
		reported results are being	
		consistently maintained.	

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SEC INTERROGATORY #6

1 2 3

Reference:

4 5

6 **Interrogatory:**

- Please provide summaries of all internal audit reports conducted since 2017, related to any aspect that directly or indirectly relates to Hydro One's transmission business, their
- 9 findings, recommendations, and the status of any actions that are to be taken.

10 11

Response:

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
SF6 Gas Management (Bruno Jesus) Review and assess the processes and controls related to SF6 gas inventory and emissions management to minimize greenhouse gas impacts, and to assist in closing any gaps to ensure accurate regulatory reporting.	2017-08	Some key aspects of the SAP Asset registry related to SF6 filled equipment are incomplete and/or inaccurate.	Review and update the SAP Asset Registry to ensure all SF6 equipment in the transmission and distribution system, including MVGIS, gas carts, puffer packs and storage tanks (pigs), are accurately captured.	Station Services and Engineering to create a plan to update and cleanse SAP Asset Registry data relating to all SF6 equipment in the transmission and distribution system.	COMPLETE
	2017-08	Some key aspects of the SAP Asset registry related to SF6 filled equipment are incomplete and/or inaccurate.	Review and update the nameplate capacities for SF6 equipment in SAP and ensure that the values are populated accurately in the "Weight of SF6 (kg)" data field.	Engineering (accountability now transferred to Planning) and Station Services to update and reconcile the nameplate capacities for SF6 equipment in SAP.	COMPLETE
	2017-08	Some key aspects of the SAP Asset registry related to SF6 filled equipment are incomplete and/or inaccurate.	Develop Gas Compartment Diagrams in NODS for MVGIS switchgear currently installed in the field.	Engineering will develop detailed compartment drawings for MVGIS switchgear and publish in NODS. Grid operations will also be involved in this process.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-08	Some issues related to accurately tracking, estimating and reporting SF6 gas emissions at the equipment and corporate level to satisfy Ontario Regulation 143/16 – Quantification, Reporting and Verification of Greenhouse Gas Emission regulatory reporting requirements.	Re-assess the feasibility to accurately report the 2016 SF6 GHG emissions using the mandated format and methodologies to satisfy the O. Reg. 143/16 regulatory requirements.	Direct Method vs. Mass Balance will be evaluated in calculating SF6 emissions and the most appropriate method will be identified, by stakeholdering with all applicable LoB Directors to satisfy the O. Reg. 143/16 regulatory requirements for accurate and timely reporting of SF6 GHG emissions. A process map will be developed documenting the reporting steps and LoB accountabilities for reporting SF6 GHG emissions.	COMPLETE
	2017-08	Some issues related to accurately tracking, estimating and reporting SF6 gas emissions at the equipment and corporate level to satisfy Ontario Regulation 143/16 – Quantification, Reporting and Verification of Greenhouse Gas Emission regulatory reporting requirements.	Develop an action plan to mitigate reporting risks and/or implement actions to address control gaps to satisfy the regulatory reporting requirements.	For current year and going forward, reports to external stakeholders and SF6/GHG related non-financial reporting (i.e., Corporate Social Responsibility and Carbon Disclosure Project) appropriate disclosure statements will be incorporated to address any estimation uncertainties or potential misrepresentations. For chosen SF6 GHG reporting methodology, Directors will	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
				identify required improvements to accurately estimate and report SF6 emissions in 2018 and assign accountability to the appropriate LoB Director. Environmental Services will assess the current process for identifying and tracking emerging environmental legislation and enhance the process to ensure	
				comprehensive business impact analysis is conducted and appropriate compliance plans are developed and deployed.	
	2017-08	Some key aspects of the SAP Asset registry related to SF6 filled equipment are incomplete and/or inaccurate.	Review and update the SAP Asset Registry to ensure all SF6 equipment in the transmission and distribution system, including MVGIS, gas carts, puffer packs and storage tanks (pigs), are accurately captured.	Environmental Services to co- ordinate sample data review to determine general data quality.	COMPLETE
	2017-08	Some key aspects of the SAP Asset registry related to SF6 filled equipment are incomplete and/or inaccurate.	Standardize the SF6 equipment templates to ensure the class characteristic to capture the nameplate capacity of the equipment is described as "Weight of SF6 (kg)" and Measuring Point - "Weight of SF6 Added" is included.	Transmission and Distribution Asset Management to ensure SAP equipment templates are updated to facilitate the upload equipment nameplate capacities and gas top-ups records. Enterprise Information Technology will be engaged in	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
				template creation.	
	2017-08	Some key aspects of the SAP Asset registry related to SF6 filled equipment are incomplete and/or inaccurate.	Enhance the change management process to ensure systematic and timely updating of the SAP Asset Registry when physical changes to location and equipment status are made.	Transmission and Distribution Asset Management, Engineering Services and Station Services to communicate to their respective teams the importance of and the expectation for timely and accurate updates provided to responsible parties to maintain the SAP Asset Registry.	COMPLETE
	2017-08	The direction provided in the SF6 governance framework requires clarification in order to effectively manage and report SF6 emissions.	Clarify the overall framework across the organization relating to the overall strategy, processes and related procedural documentation to effectively manage of SF6 emissions and accurately report SF6 emissions, giving consideration for the following: • Review, rationalize and streamline the overall governance framework and work procedures (i.e., ordering, handling, testing, storage, tracking and reporting) to enhance	Environmental Services, working with LoB stakeholders, to: a) Review the existing SF6 related HODS documentation (including GHG and overall Climate Change governance), b) Develop overall document framework and hierarchy, and c) Streamline /update/revise related policies and work procedures. Note: Interim measures will be implemented to ensure	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
			understanding of the expectations;	accountabilities and expectations	
	'		Reduce the redundancies and	are managed during this	
			remove overlapping of content	transition.	
			between Greenhouse Gas		
	'		Management policy and SF6	Put in place a working group to	
			Management Plan.	facilitate and monitor the	
			Ensure coordinated effort and	implementation of the action	
			adequate stakeholdering across all	plans.	
			affected business units.		
			 Establish a working group and/or 		
	'		subject expertise to ensure all		
			elements of the overall		
	'		management of SF6 gas are aligned		
			and moving forward that technical		
			knowledge and/or expertise is		
	'		maintained to ensure effective		
			execution of the overall strategy to		
			minimize SF6 emissions.		
	2017-08	The operational	Enhance work management and	Transmission Asset Management	COMPLETE
	'	effectiveness and work	maintenance practices to identify,	to:	
		management required to	repair and/or replace leaking SF6	a) Review and update SF6 leak	
		meet the SF6 emission	equipment to reduce the amount of	reduction strategy to ensure the	
		reduction and major leak	SF6 emissions to satisfy the SF6 leak	accountabilities are current and	
		repair objectives and	reduction strategy and to meet the	the defined objectives and targets	
		targets, established by the	stated major leak repair objectives	are executable.	
		Planning Division, needs	and targets. Suggested areas of	b) Update Key Performance	
		improvement.	focus should include:	Indicators for evaluating	
			Enhancing the BI report to provide	effectiveness of the SF6 gas	
			a 52 week or yearly rolling view	management program and leak	

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Audit Name R	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
			rather than a segmented quarterly view. Incorporating a metric to capture number of times SF6 equipment has repeatedly leaked. Clarifying the Key Performance Indicators used to evaluate the effectiveness of the SF6 gas management program and ensure it aligns with the overall leak reduction strategy. Establishing mechanisms by which planners and operation staff can leverage Business Intelligence reports to enhance their ability to make informed decisions relating to the repair and/or replacement of repeat leaking equipment.	reduction strategy. c) Enhance the reporting process and BI report to gain better visibility to SAP data to identify repeat equipment leaks and for establishing SF6 equipment performance trends. This report will be made available to all planners involved in managing and maintaining SF6 assets. d) Update the SAP asset registry with SF6 gas handling equipment to enable and schedule preventive maintenance, track potential defects and maximize return on these assets. Reinforce to Stations staff the importance of accurately reporting SF6 top-ups for equipment in SAP and the need to identify and advise Asset Management of repeat/chronic	

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
Power Quality Management (Bruno Jesus) Provide assurance that the key controls related to the management of power quality are effective. Our review focused on the control environment necessary to manage power quality related issues which affect the quality of power delivered to our customers.	2017-13	It was identified that some key stakeholders were unaware of the power quality strategy and implementation plan.	Review and update the power quality strategy and implementation plan documents, review with senior management and key line of business stakeholders involved in the process to ensure a common understanding of the strategy to efficiently and effectively address power quality issues raised by our customers.	Review the existing power quality strategy and implementation plan documents; determine existing and new initiatives that should be part of these plans going forward with input from key stakeholders. (incl.: Customer Service, Provincial Lines, NOD)	COMPLETE
Investment Plan - Governance - Delivery - Follow-up (Bruno Jesus) Provide assurance that Hydro One has completed the committed actions and addressed all the audit recommendations and mitigated the associated risks.	2017-14	Roles and accountabilities need to be better defined to identify emerging risks.	Develop and implement a process with accountabilities to identify emerging risks and periodically incorporate the results of risk workshops into an overall Planning business risk register for appropriate tracking by specifying business objectives, risks, risk owners, mitigating actions, and target completion dates.	The requirement to conduct risk assessments on the annual Investment Plan will be added to the overall Investment Planning deliverables each year. Any recommendations/action items resulting from the risk assessment will be added to the Planning Division's tracker for action items (Internal Audit, AEI, etc.)	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
	2017-14	It was identified that some policies and directives were outdated.	Review and formalize existing management direction, presently being delivered as part of Investment Planning training, into governance documents (policies, processes, procedures, standards, guidelines, etc.) and decommission outdated governance documents (including draft policies and process	Appropriate governance documents (policy, process, procedure, standard or guideline) will be established taking the existing Investment Planning training material into account. All other existing draft documentation that no longer applies will be removed (e.g.	COMPLETE
	2017 14	Outcomes and matrice for	documentation within ARIS).	ARIS).	COMPLETE
	2017-14	Outcomes and metrics for the end-to-end investment planning process must be better defined.	Establish and implement appropriate measures and targets for the Investment Planning Scorecard (specifically for non-accomplishment related measures such as estimate quality, Potential Need (PN) notifications that are actioned/accepted, etc.). Track "go to green" action plans for management to achieve the targets either for the current or future Investment Planning cycles. Document the results of quality assurance reviews performed by management and feedback given to planners.	Key performance indicators (KPI) for the investment planning process will be developed and incorporated into 2018 scorecards for impacted directors as per the recommendation.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-14	Requirements identified in the Asset Analytics workshops have not been fully implemented.	Continue to identify and correct issues with Asset Analytics input data and risk factor algorithms that will affect the degree to which the output results can be used to influence investment decisions.	Plans related to data required for Asset Analytics will be developed and key steps and milestones to address the recommendation will be tracked in the Divisional Scorecard.	COMPLETE
	2017-14	Data needed for Asset Analytics & Asset Investment Planning tools are not consistently gathered.	Review and establish appropriate funding and actual implementation plans for the enhancements identified in the Asset Management Tool Integration Roadmap.	Management will review the tool enhancement roadmap, to determine necessary enhancements taking into account cost/benefit with decisions to keep, defer or discard items.	COMPLETE
Investment Planning Support Tools (Donna Jablonsky) Provide assurance that key controls are in place for the effective use of the Asset Analytics and Asset Investment Planning tools to support the investment planning process.	2017-17	Currently, there are no measures in place to periodically monitor consistent and effective use of Asset Analytics (AA).	Develop and implement suitable measures to periodically monitor consistent and effective use of AA within Planning.	We will review the existing use of AA tool capabilities and develop measures for its effective use that can be tracked as part of the Planning Scorecard.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-17	Asset Analytics Algorithms require improvement to be effective.	Ensure that the identified needs for changes to data and algorithms for asset risk index calculation are prioritized and implemented on a timely basis.	As per our current plan, we will monitor the implementation of a) enhancements related to existing ARI algorithms and existing data and b) enhancements related to existing ARI algorithms requiring new data enhancements by end of 2018. We will look for opportunities to expedite this work along with c) Enhancements related to new ARI algorithms and new data.	COMPLETE
	2017-17	There are some data from source systems that are used as inputs to the Asset Analytics (AA) tool with some quality issues which resulted in unreliable Asset Risk Index calculations/outputs from the tool.	Ensure that appropriate mechanisms are in place for periodic monitoring, escalation for follow-up and correction of known data quality issues with the owners of the supporting data systems.	We will discuss source system data quality issues with the system owners and then implement periodic monitoring and correction of identified issues by the system owners.	COMPLETE
	2017-17	There is a lack of specific documented expectations or guidelines on how the Asset Analytics data and tool analytical capabilities and features are to be used for the Investment Planning process.	Develop and communicate appropriate guidelines to ensure consistent and effective use of available AA data and tool capabilities for investment planning assessment needs.	We will review and formalize the current Asset Risk Assessment process in our policy documents along with revision and/or development of suitable processes, procedures, guidelines and training on consistent use of AA data and tool capabilities.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-17	Currently AA is primarily used for sustainment capital projects and not for development projects or maintenance programs.	Review the current use of the AA tool capabilities and determine which are required for on-going use. Perform a cost/benefit review of features to determine their continued use. Provide the required training and support for capabilities that are available (such as ad-hoc BOBJ Reports).	We will initiate a review of the AA tool features and capabilities with the intent to specify and reinforce which features and capabilities are to be used for what purpose. We will perform a cost/benefit review of features prior to determining if any should be decommissioned.	COMPLETE
Work Scheduling - Stations (Andrew Spencer) Provide assurance that the key controls related to the management of station work scheduling function are effective.	sch ma pri est	Currently there is no clear schedule change management process or prioritization criteria established for station work.	Document, stakeholder, and implement a schedule change management process with defined prioritization criteria to manage schedule changes for efficient work execution.	Work Program Management will facilitate the stakeholdering and implementation of a work prioritization process and establish prioritization criteria, with inputs from Asset Management, Station Services, and Project Delivery, to facilitate the change management of station work schedules.	COMPLETE
	2017-20	There are no specific measures currently in place for periodic monitoring of scheduling efficiencies.	Develop and implement suitable measures to periodically monitor work scheduling efficiency trends to drive continuous improvements of the scheduling function.	Work Program Management will develop and implement appropriate measures, with input and support from Station Services, to periodically monitor the effectiveness of station work scheduling to improve efficiency of the scheduling function.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-20	A training program was developed in 2015; however it has not been implemented. Currently, newly hired scheduling staff is expected to job shadow an experienced scheduler for an unspecified period of time for required knowledge transfer.	Formalize and implement a training program for station schedulers (Planning & Scheduling Technicians and Maintenance Schedulers) to further develop and retain staff capabilities, and to drive consistent work practices for the work planning and scheduling functions.	Station Services will develop and stakeholder an implementation plan on a formalized training program for all station schedulers (Maintenance Schedulers and Planning & Scheduling Technicians) to improve staff's knowledge of the station work planning and scheduling functions and to drive consistency of work practices across all zones.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-23	System Control had recently participated in the North-American Transmission Forum (NATF) Survey on the subject of "Black Sky" events where several mitigating actions were under consideration. Federal Energy Regulatory Commission (FERC) had issued a report related to the subject of "Black Sky" events in June 2017 with several recommendations to utilities, which were reviewed by System Control management with recommended further actions but no clear progress has been made.	Assess Black Sky event risks and make progress in identifying and implementing of mitigating action(s) recommended by the NATF and FERC reports on transmission resiliency.	Participation in the NATF forum will continue to develop and implement mitigating actions that are suitable for the Hydro One transmission and distribution systems. A risk registry has been developed which is reviewed annually for new threats. Provisions are in place to update the registry prior to annual review should new risks to operations are identified.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
Transmission Reliability	2017-24	There is no strategic plan	Develop and implement an	Work to create a transmission	COMPLETE
Strategic Plan (Bruno		document that describes	overarching transmission system	reliability strategy is already	
Jesus)		how the company will	reliability strategy to align with	underway and aligns with the	
Provide assurance that		achieve its operational	corporate strategic objectives and	corporate operational roadmap.	
controls and processes		targets for transmission	achieve operational reliability	This work will be continued along	
were in place to support a		reliability, however	targets. The implementation should	with the implementation of the	
transmission reliability		management shared with	include formally defined roles and	strategy as recommended.	
strategy that provides		us their Journey to	responsibilities, including lead		
governance, clear		Operational Excellence,	accountability for the overall plan,		
accountability and		COO Roadmap and	communication of the plan to the		
direction to support a		Operating Mode which	Operations organization along with		
reliable transmission		identifies the vision, goals	change management.		
system.		and initiatives within			

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
		Operations including the initiative to develop an Asset Management Strategy.			
	2017-24	There is a no clear association between the key transmission reliability metric identified in the Journey to Operational Excellence Scorecard and the corporate risk tolerance, risk profile and corporate priorities.	Establish reliability metrics that address all of the key functions of the transmission system in alignment with corporate risk tolerances, risk profile and corporate priorities (i.e. bulk transmission capabilities, load serving to all customers, customer needs, Hydro One's presence in the North American marketplace).	Additional reliability metrics will be established to address the recommendation including the following: a) Targets will be established for TxSAIDI and TxSAIFI to include both Single and Multi-circuit supplied delivery points. b) Existing reporting of events resulting in reliability and power quality disruptions at specific delivery points will be enhanced. c) Reliability assessments will be enhanced to enable benchmarking throughout North America.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-24	Although a Maintenance Plan and Work Standard Document Review process document is in place, it does not prescribe a maintenance strategy or approach to be applied when determining maintenance plans for equipment.	Establish a standard asset maintenance methodology to efficiently and effectively support the achievement of reliability targets.	A standard asset maintenance methodology in alignment with ISO 55000 will be established.	BEHIND SCHEDULE
	2017-24	Leading metrics linked to potential impact to reliability have not been established which may create the risk of the accumulation of deficiencies over time that would result in system reliability deterioration.	Identify leading asset performance-based metrics that would serve as early indicators before changes to transmission reliability would be detected by the selected TxSAIDI metric.	Trending of equipment based trouble calls and deficiency reports for tracking of degradation of assets over time will be established. This will highlight, at an early stage, any broad based deterioration of equipment performance that might affect transmission reliability over the long term.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2047.25			A BASIL I WILL I	
Warranty Claims	2017-25	There are varying degrees	Update the existing warranty	A RACI chart will be documented	COMPLETE
Procedure (Rob Berardi)		of knowledge and	procedure and associated	to add additional clarity and	
Assess the effectiveness		familiarity with respect to	flowcharts to more clearly articulate	consistency. An enhanced	
of controls over the new		the new warranty	the roles and accountabilities that	communication plan will be	
warranty claims process,		procedure. The Supply	are assigned to the stakeholders	developed and executed which	
including the warranty		Chain role is clear in the	other than Supply Chain throughout	will continue to reinforce the	
clause inclusion in the		process, but the roles and	the process.	Warranty and Claims	
purchasing agreements		accountabilities pertaining		Management Procedure in 2018.	
with vendors; warranty		to the other stakeholders			
and claim identification,		have not been clearly			
assessment and		articulated and			
communication to the		communicated.			
stakeholders as well as					
tracking and monitoring of					
the warranty claim to its					
collection (or resolution).					
Utility Work Protection	2017-29	The existing Utility Work	1. Document and analyze the	1.1 Operating Planning and	COMPLETE
Code - Controlling		Protection Code process	current state of the UWPC processes	Networks' work flow will be	
Authority - Ontario Grid		documentation pertaining	at the OGCC to identify the process	reviewed and clarified. Directly	
Control Centre (Godfrey		to the preparation and	breakdowns/gaps, handoffs, key	impacted documents will be	
Holder)		execution of work	deliverables, critical	updated accordingly and pending	
Review the processes and		protection packages at the	timelines/deadlines, roles,	documents will be removed from	
controls in place to ensure		Ontario Grid Control	accountabilities, interdependencies	System Operations' active	
effective preparation and		Centre (OGCC) are out of	with other processes, tasks and	document repository.	
execution of the UWPC		date and do not reflect the	tools and identify process	1.2 PC1 Standards document will	
permits issued by System		current state.	improvements.	be reviewed and revised as	
Control as the Controlling			2. Revise and update the PC1	required to reflect any changes	
Authority at the OGCC to			Standards document so that it	associated with the	
Hydro One permit			reflects critical timelines within the	recommendation.	

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
holders.			UWPC application process to enable effective study and review of the work protection and outage packages.		
	2017-29	Inadequate tracking of outage packages (containing UWPC forms) to assess completeness and accuracy.	Establish a formal tracking and monitoring mechanism to record defects, re-work, short notice or missing information to identify deficiencies in the planning and/or executing processes so that corrective actions can be taken internally within System Control and where required, communicate externally to other Lines of Business.	2.1 The team will develop and review a single mechanism to monitor churn of Work Protection Documents, identify and resolve deficiencies internal to System Control and work with the field management staff to resolve any issues concerning incoming applications.	COMPLETE
	2017-29	System Control is relying on compensating controls to manage uneven UWPC work volumes.	1. Establish a review process to determine acceptable volumes and thresholds for reviewing UWPC packages in a safe and effective manner, based on available resource levels.	3.1 The team will review the volumes of work protection processed in the control room and work to align expectations with other LoBs. We will work with field management staff to	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
				develop a balanced work week for processing work.	
	2017-29	System Control is relying on compensating controls to manage uneven UWPC work volumes.	2. Communicate to Lines of Business (such as Stations, Construction, Lines, etc.) required timelines for UWPC applications according to PC1 Standards document along with the need for a balance of UWPC work applications throughout the work week.	3.2 Upon completed review of the PC1 Standards document and any required changes, communicate the changes and expectations to impacted LoBs.	COMPLETE
	2017-29	Inadequate Change Management Process for updating and maintaining UWPC Forms and Application database content (i.e., isolation points) using TIPs (Template Isolation Points).	Determine reasonable timelines for Lines of Business to provide information to the UWPC Transmission Change Control department.	4.1 Operating Planning will review the overall In-Service Package timelines required for information and will work with the other LoBs to develop acceptable and documented timelines.	COMPLETE
	2017-29	Inadequate Change Management Process for updating and maintaining UWPC Forms and Application database content (i.e., isolation	2. Communicate timeline expectations to Lines of Business requesting changes and/or updates to isolation templates.	4.2 Coordinated timelines will be communicated across all affected LoBs as agreed during establishment of overall expectations.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
		points) using TIPs (Template Isolation			
		Points).			
	2017-29	Inadequate Change Management Process for	3. Establish a succession plan to ensure adequate resourcing to	4.3 Operating Planning will review the staffing plan for In-Service	COMPLETE
		updating and maintaining UWPC Forms and	implement changes to the isolation templates.	Package group to ensure proper staffing resources to implement	
		Application database content (i.e., isolation		changes to isolation templates and develop a succession plan.	
		points) using TIPs (Template Isolation			
		Points).			
	2017-29	Nightly self-assessment	1. Formalize and establish	5.1 Operating Networks will	COMPLETE
		mechanism performed by on-shift Controllers for	prescribed criteria for assessment of the completed/executed UWPC	review the overall expectations of the nightly work protection audit	
		review of deficiencies is	outage packages.	(local review). We will document	
		informal.		and formalize this process.	
	2017-29	Nightly self-assessment	2. Conduct a quality assurance	5.2 We will review the UWPC	COMPLETE
		mechanism performed by	review of the UWPC packages	packages to examine the quality	
		on-shift Controllers for	reviewed by the Controllers on the	of the night shift Controller's	
		review of deficiencies is	night shift to determine the	review to determine effectiveness	
		informal.	effectiveness of the process.	of the program.	

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-29	OGCC's Single Point of Contact program for assisting in better planning and execution of the staged outages and related work protection for capital brown-field and green-field projects needs improvement.	Working with the Project Implementation team, formalize Operating Planning and Networks SPOC program for capital projects by establishing clear guidelines and assessment criteria requiring assignment of OGCC Controllers. In addition, the SPOC roles, accountabilities and expectations for their involvement should be documented and participation of individuals in the program should be tracked systematically.	6.1 Operating Networks and Operating Planning will formalize the role of the Single Point of Contact for complex projects, outlining when required, expectations and accountabilities including a formal tracking mechanism.	COMPLETE
Polychlorinated Biphenyls Management (PCB Management) (Donna Jablonsky) Review and assess the adequacy and alignment of corporate strategy, business plans, and work programs within Distribution Lines, Distribution Stations, Transmission Stations, and Facilities for ensuring compliance with the Canadian Environmental Protection Act - PCB	2017-31	There is a lack of communication strategy to effectively manage Environment Canada relations and internal / external inquires related to potential PCB regulatory noncompliance.	Develop and implement a communication strategy to effectively manage Environment Canada relations and internal / external inquires related to potential PCB regulatory noncompliance.	Environmental Services working with other Lines of Business will prepare a communications strategy to manage Hydro One's relationship with the regulator.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
Regulations 2009 and 2025 End-of-Use deadlines, and the Company's PCB Management Plan.					
	2017-31	There are SAP Geographic Information System (GIS) Integration interface (commonly referred to as SGI) issues related to the design and implementation that are creating a backlog of required changes in SAP and the GIS software application.	Enhance the overall performance of the SGI Interface by giving consideration for: • Identifying the root cause(s) with the SGI Interface that are causing data errors in the two system of records (i.e., SAP and GIS); • Developing a remediation plan to resolve the defects; and • Outlining a timeline for implementing the necessary upgrades and/or fixes.	ISD will initiate a discovery into the SGI interface issues to identify root causes. The deliverable for this will be a remediation plan with milestones. The remediation plan may require a combination of new requirements as well optimizing existing SGI requirements.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-31	There were inconsistencies on information related to PCB Measuring Points in the SAP registry.	Conduct a review to verify, validate and eliminate duplicate and/or incorrect PCB Measuring Points in the SAP registry to ensure PCB analysis test results are stored in a correct manner to address the audit observation.	Distribution and Transmission Planning will work with ISD to address the issue of duplicate measuring points.	COMPLETE
	2017-31	It was identified that there is an insufficient oversight, monitoring and tracking of Hydro One's PCB phaseout progress against PCB regulatory compliance requirements.	Establish an appropriate framework to ensure the tracking, monitoring and reporting of the overall progress of the PCB Management Plan moving forward and maintain appropriate level of knowledge continuity and expertise. Consider leveraging a key LoB stakeholder group, similar to the Environmental / Operational working group, to accomplish this oversight framework.	Environmental Services will establish monthly and/or quarterly meetings by Q1 2018 and in collaboration with the Lines of Business we will develop and document a framework for tracking overall progress and identify key teams and/or individuals involved in the PCB phase-out program.	COMPLETE
	2017-31	Hydro One's PCB governance document needs to be revised to clarify the Company's internal PCB phase-out criteria, LoB accountabilities and End- of-Use Deadlines.	Clarify the limits for classifying acceptable level of PCB concentration as well as the pre-1985 criterion for Hydro One's assets in the various Lines of Business.	Environmental Services will work with the Lines of Business to clearly establish Hydro One's internal limits for acceptable levels of PCB concentration and pre-1985 criterion.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-31	Hydro One's PCB governance document needs to be revised to clarify the Company's internal PCB phase-out criteria, LoB accountabilities and End- of-Use Deadlines	Update the PCB Management Plan, to reflect the clarified internal criteria, revised LoB accountabilities, and corrections to Table 3 End-of-Use deadlines.	We will review and revise the document and address the observations highlighted in this observation.	COMPLETE
	2017-31	Hydro One's PCB governance document needs to be revised to clarify the Company's internal PCB phase-out criteria, LoB accountabilities and End- of-Use Deadlines.	Communicate revisions to affected Lines of Business to ensure they are incorporated into the relevant strategies, business plans, progress reports and dashboards.	Upon review and/or revision of PCB Management Plan, we will communicate the changes to ensure staff are provided with clear direction.	COMPLETE
	2017-31	The Company may be at risk of being found non-compliant with Environment Canada's PCB Regulation - 2009 End-of-Use deadline due to the potential existence of Distribution system padmount transformers and Transmission system capacitors that may contain PCBs ≥ 500 ppm.	Based on the results of the capacitor bank survey, develop and implement a program to establish an appropriate timeline to achieve regulatory compliance, and decommission and/or discard noncompliant units to achieve the PCB Regulation's End-of-Use deadline for equipment with PCBs ≥ 500 ppm.	The survey pertaining to the capacitor banks has been completed in 2017. The results will be analyzed and a remediation plan will be developed for any suspect equipment.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
ISOC Requirements Traceability (Godfrey Holder) Provide assurance that the processes and methodology being followed to capture the various LOB requirements into the Project's scope and detailed designs were effective, properly reviewed, approved and monitored and that adequate recordkeeping was in place.	2017-43	Controls over document storage and distribution, which are especially relevant in relation to project designs, have not been established.	We recommend adopting information classification and handling standards for major documents related to ISOC, particularly the compiled drawings. As the project approaches the RFP phase, the project leadership team need to ensure that adequate document control requirements are followed by the vendors during the tendering process.	Provisions in the Non-Disclosure Agreement for the RFP will be provided to all proponents, and additional security features will be applied to project documents.	COMPLETE
	2017-43	The contingencies for both the overall Class A Estimate and the construction budget by NOD were not the result of a detailed risk assessment based on the project's requirements.	A risk-based approach should be adopted to calculate project contingencies. The contingencies should be linked to defined project risks, as identified by all key stakeholders.	The contingencies were calculated based on industry experience by RLB LLP. The contingency will be revisited after the RFP phase and if necessary reestimate them based on a risk assessment conducted with the stakeholders.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-43	Project costs may exceed the initial budget defined in the Project Charter which is dated June 2016. The initial budget was based on a Class C estimate; whereas a "Class A" estimate was recently concluded.	We recommend revising the current estimate and ensuring a Project budget to be based on the Class A Estimate following its revision if required.	The most accurate budget will be prepared as a result of the offers received from the contractors. Once the offers are received and as necessary, we will revise the project budget, which will be presented to the Board of Directors and be used as the official budget for future assessment, monitoring, and control.	COMPLETE
Construction - Site Inspections (Andrew Spencer) Provide reasonable assurance that controls related to Site Inspection in relation to the creation of the Plans, monitoring performed by Burns & McDonnell, and completion of corrective actions are effective.	2017-44	We noted inconsistencies in the review and approval of the project-specific Plans.	Portfolio Management, in coordination with Project Delivery, needs to ensure that all project-specific plans are developed and properly reviewed by the specialized area at Hydro One. Furthermore, contractors need to reflect Hydro One's requirements in all the project-specific plans.	Portfolio Management will work with Project Delivery to ensure that the plans are submitted by contractors for all contracted projects with proper reviews by Hydro One specialized areas. Contractors will update the plans based on Hydro One's feedback and Site Inspectors will review the plans in accordance with the Field Operations Manual.	COMPLETE
	2017-44	The Site Inspectors do not verify if the commitments assumed by the contractors in the project specific health and safety plan are being properly	Portfolio Management, in coordination with H&S, needs to ensure that Site Inspectors monitor contractors' compliance with the PSHSP and the Occupational Health and Safety Act (OHSA) regulations.	Quality Assurance group will conduct regular oversight of Site Inspectors to ensure that they are monitoring the contractors' compliance with the PSHSP and OSHA regulations which will be	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
		performed.		documented in the daily inspection reports.	
	2017-44	We noted a lack of evidence that Site Inspectors were monitoring the contractors' compliance with the Environmental Management Plan (EMP) which is approved by the Environmental Group as required by the Field Operations Manual.	Portfolio Management, in coordination with the Environmental Group, needs to ensure that Site Inspectors review and comply with the EMPs during the project lifecycle.	QA Group and Project Delivery will work with the Environmental Group and Burns & McDonnell to ensure that Site Inspectors will review, monitor, and document contractor compliance with the EMPs during the project lifecycle and that any environmental issues will be highlighted in the daily inspection reports.	ON SCHEDULE
	2017-44	Not all Project Managers support the site inspection process, demonstrate knowledge of the requirements as detailed in the Field Operations Manual (FOM), or monitor the Site Inspectors to ensure compliance with the FOM.	Management needs to ensure that Project Managers support the site inspection process, understand the requirements of the Field Operations Manual, and monitor the Site Inspectors' compliance with the requirements of the Filed Operations Manual.	QA Group will work with Project Delivery to update Project Manager's roles and responsibilities within the FOM to be consistent with the Contract Management Process and RACI, providing training to Project Managers focused on understanding the requirements of the Field Operations Manual, and reinforce the importance of the site inspection process.	IN PROGRESS

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-44	Although the Project- Specific Quality Plan (PSQP) includes detailed methods for the quality inspection and tests to be performed by the contractors via Inspection Testing Plans (ITPs), there is no formal way to ensure that the Site Inspectors are checking the accuracy and completeness of the ITPs prepared by the contractors, nor are they gathering any evidence that the PSQP is being properly followed.	We recommend that the QA Group in coordination with the Project Managers monitor and ensure there is sufficient evidence of the completion of all required tests and inspections, as per the relevant PSQP and ITPs, in an effective and timely manner.	Management advised that the ITPs were implemented during 2017 and accordingly it was expected that some projects would not provide ITPs according to HONI's current requirements. Kick off meetings between Project Manager and QA Group including Site Inspector are currently in effect and have a formalized agenda. The daily inspection reports will include references to specific PSQP and ITPs' tasks that were observed by the Site Inspectors on the same day; and site inspectors will acknowledge completion of key documentation (testing and inspections).	COMPLETE
	2017-44	The Task Safety Observation form was developed and implemented by Burns and McDonnell to list safety aspects required to be verified by the Site Inspectors on a daily basis. During our review, we observed that the TSOs were not developed by	The QA Group needs to work with Burns and McDonnell to ensure that TSOs and daily inspection reports are developed on a daily basis for all projects (unless agreed otherwise with the Project Manager) and distributed to the intended audience (QA Group, Project Manager, H&S) and stored in the corresponding SharePoint folder.	QA Group will determine with input from H&S how the Health and Safety observations should be tracked (whether through TSOs or otherwise) and modify the FOM accordingly.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
		Site Inspectors on a daily basis. We also noted that the TSOs are only distributed to the Project Managers and QA Group on a monthly basis, in a consolidated document.			
	2017-44	During the project construction phase, the issues identified by the Site Inspectors are reported through the daily inspection reports and TSOs, but there is no consistent tracking process for their resolution.	Portfolio Management, in coordination with Project Delivery and Burns & McDonnell, needs to define how the issues identified by the Site Inspectors and their resolutions will be tracked including corrective actions, responsibility, original and any revised completion dates, current status, etc.	Portfolio Management will work with Project Delivery and QA Group to define and implement an effective way to track resolutions for issues identified in the daily inspection reports. The tracking will be focused on use of the ongoing project Deficiency List as a means to record issues, action issues, and identify disposition. The Deficiency List may include areas for documenting Quality, Safety and Environment issues. Project Manager will ensure that Deficiency List be reviewed at project meetings with the contractor.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
	2017-44	The Field Operations	The QA Group in coordination with	QA Group will ensure that: 1.	COMPLETE
		Manual (FOM) lists the	Engineering needs to ensure that	Training will be provided to the	
		required training for the	Site Inspectors receive the required	Site Inspectors in relation to the	
		Site Inspectors, which	trainings, understand the	Generic Minimum ITPs and	
		should be taken prior to	applications of the ITPs, and realize	relevant Hydro One policies as	
		performing any job on	the ultimate benefits for their use.	part of their orientation; 2. The	
		site. However, the QA	Evidence of provided trainings	Field Operations Manual will be	
		Group and Burns and	needs to be documented. We also	updated to reflect the most	
		McDonnell were unable to	recommend updating the CN Form	current training requirements;	
		provide evidence that Site	in order to include all trainings	and 3. Evidence of training will be	
		Inspectors were trained	mentioned in Field Operations	documented by storing records	
		accordingly.	Manual.	on the QA SharePoint site.	
Construction - Site	2017-44	It were identified	Portfolio Management, in	QA Group will work with H&S and	ON SCHEDULE
Inspections (Andrew		inconsistencies related to	coordination with H&S, needs to	Burns & McDonnell to ensure the	
Spencer)		Specific Health and Safety	ensure that Site Inspectors monitor	following:	
Provide reasonable		Plans related to the	contractors' compliance with the	2. Review and validation of the	
assurance that controls		development and	PSHSP and the Occupational Health	Field Operations Manual by H&S	
related to Site Inspection		following through of	and Safety Act (OHSA) regulations.	3. Gather recommendations on	
in relation to the creation		specific plans by	Safety and other issues noted in the	appropriate oversight;	
of the Plans, monitoring		contractors and	Task Safety Observations need to be	4. Define criteria where a Health	
performed by Burns &		opportunities for	reflected in the daily inspection	and Safety Professional is	
McDonnell, and		improvements related to	reports. Furthermore, the Field	required on projects.	
completion of corrective		the Hydro One's internal	Operations Manual needs to be		
actions are effective.		templates.	validated by H&S, and define when a		
			Health & Safety professional is		
			required to be present on site by the		
			contractors. We also recommend		
			that H&S provides oversight of the		
			work performed by the Site		

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
			Inspectors in relation to safety.		
	2017-44	We noted a lack of evidence that Site Inspectors were monitoring the contractors' compliance with the Environmental Management Plan (EMP).	Portfolio Management, in coordination with the Environmental Group, needs to ensure that Site Inspectors review and comply with the EMPs during the project lifecycle. We also recommend that the Environmental Group improves the coordination with the Site Inspectors, provide guidance as needed, and rely more on their services as they are available daily on site. In coordination with the Environmental Group, all	QA Group and Project Delivery will work with the Environmental Group and Burns & McDonnell to ensure the following: Based on the project execution plan, and the review of contractors' EMP, the Project Manager will have the responsibility to coordinate accountabilities between Environmental Group and Site Inspector to define when Subject Matter Expert (from Environmental Group) involvement is necessary and	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
			observations during the environmental checkpoints by Site Inspectors need to be noted in the daily inspection reports.	what reporting is required.	Action Figure
Construction Contract Monitoring - Major Contracts 2017 (Andrew Spencer) Provide reasonable assurance that the key controls related to contract monitoring are effective in relation to the compliance to key contract terms as they relate to Environmental, financial, legal, and regulatory aspects of the Contractors' work.	2017-46	The Contract Management Guidelines and their respective Forms are outdated and do not include guidance on major contract monitoring functions including compliance with legal requirements, schedule monitoring, milestone approvals, etc.	Update the Contract Management Guidelines, ensure consistency with the Site Inspection process, and improve Project Managers' compliance with the Guidelines.	Portfolio Management will work with Project Delivery and Transmission Lines to ensure updating and formally adopting the Contract Management Guidelines, Contract Management Forms Guide, and respective forms. Positions, roles and responsibilities will be updated.	ONGOING

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-46	The Guidelines do not define the criteria to be followed by Project Managers in order to verify that a milestone was achieved, which is currently based on the Project Manager's discretion. Project Managers do not consistently issue the Certificates of Payment and Change Orders that should be used to approve contract changes.	Milestone payment acceptance criteria need to be created by Portfolio Management and included in the Contract Management Guidelines for every milestone type in order to be used by the Project Managers.	Portfolio Management will work with Project Delivery and Subject Matter Experts to define the appropriate milestone payment acceptance criteria, define project specific milestones and the respective acceptance criteria at the beginning of every project, ensure the compliance of Project Managers with specific guidelines including the consistent issuance of the Certificate of Payment and Change Orders when needed, and identify a specific milestone for clearing the Category B deficiencies following the achievement of the Substantial Completion, which will be shown in the contract's milestones schedule.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-46	Project Managers do not consistently monitor the completion of "Form 13 - Contract Partial or Final Inspection" by Site Inspectors, which are required to ensure the Substantial Performance or Total Completion of a contract.	The updated Contract Management Guidelines need to be disseminated to all those involved in the contract monitoring process, including but not limited to: Project Managers, Site Inspectors, HONI Environmental Team, Contract Managers/Specialists, etc. Additionally, Project Delivery needs to reinforce that the Project Managers comply with the Contract Management process, including the use of the Contract Management forms.	Following the update and final adoption of the Contract Management Guidelines, Portfolio Management, in coordination with Project Delivery, will ensure Project Managers comply with the Guidelines including the required site inspection forms that ensure the Substantial Performance and Total Completion of a contract.	COMPLETE
	2017-46	When there are offsite disposals of hazardous material, Project Managers do not consistently obtain evidence from the contractor that confirms the disposal was appropriately managed as mandated in the contract or required by the Environmental group.	Project Managers need to consistently obtain evidence from the contractor ensuring that offsite disposals were appropriately managed when required. Identify who is responsible to request and review these documents. The responsibilities of the Site Inspector and Hydro One's Environmental Team to support Project Managers in offsite disposals need to be clearly identified in the Contract Management Guidelines and reinforced at the beginning of every project.	Portfolio Management will coordinate with Project Delivery and the Environmental team to ensure the consistent monitoring of offsite disposals when required for all projects. Project Managers will be clearly identified as the accountable party to monitor offsite disposals with the support of Site Inspectors and the Environmental team at Hydro One, and the Contract Management Guidelines will be updated accordingly.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2017-46	The current Contract Management Forms Guide instructs the user to only release holdbacks after all deficiencies (Category A and B) have been cleared, which seems not to be aligned to the Construction Lien Act.	The guidance on Holdback Policy in the Contract Management Guidelines and the Forms need to be updated considering the Construction Lien Act's requirements. Portfolio Management needs to seek legal advice to ensure that the policies in the Forms are consistent with the Construction Lien Act.	Portfolio Management, in consultation with the Legal department at Hydro One, will update the guidance on the Holdback policy in the Contract Management Guidelines and Forms to ensure consistency with the Ontario's Construction Lien Act.	COMPLETE
In-service addition Process Review (Andrew Spencer) Provide assurance that appropriate oversight and controls are in place to ensure that the in-service additions are budgeted, forecasted and added to the rate base in a timely manner such that capital assets meet regulatory conditions for being included in the rate base.	2018-06	Deviations from budgeted in-service additions and associated approvals are not documented. Deviations between budget and actual transmission in-service additions were observed for which rationale at the project and program level was neither documented nor approved.	Reinforce the month-end reporting process to keep track, document and approve deviations from budgeted in-service additions at project and program level.	Management has established plans to track, document and approve rationale for deviation from budget to actual in-service additions at the specific project and program level as part of the now-established redirection process. These will assist management in explaining any significant deviation from the annual level committed to the customers and the regulator.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2018-06	Decision criteria to determine costs and assets being declared inservice are not clearly documented. Rules for allowing "partial inservicing" of project work and journal transfer of related costs are unclear as per the existing Report of Equipment In-Service (REIS) process. Untimely or incorrect capitalization of assets in the current year could lead to a cascading effect on future in-service additions.	Review the existing documentation to ensure that controls relating to "partial in-service" are clear so that only appropriate costs are capitalized after confirming that assets are actually being used for "intended purpose" from field operation.	Management will clarify and monitor consistent application of rules for declaring assets inservice then capitalize relevant costs as per the existing Report of Equipment In-Service (REIS) process. Portfolio Management will continue to seek clarification from Finance to ensure that inservicing of assets or costs are completed as per the documented capitalization policy. Extraordinary items will be appropriately discussed with clear documentation of decisions with rationale.	COMPLETE
	2018-06	Heightened efforts in Q4 are expended to achieve the transmission in-service additions corporate yearend target. Heightened efforts near year-end to meet in-service addition targets may lead to increased operational inefficiencies and/or operational risks.	In addition to the in-service additions corporate scorecard dollar value measure, ensure that tracking of other performance factors are taken into account, including completion of budgeted work, adherence to plan (actual cost less than planned cost) and management of operational risks.	Management will initiate a review of the portfolio level metrics (such as cost and schedule adherence and milestone achievements) to complement the existing portfolio metrics around adherence to capital expenditure and in-service additions budget, to further drive best-in-class project and program-level reporting and demonstrate value to	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
				stakeholders.	

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
Fleet Services -	2018-09	On a monthly basis, ARI	Fleet Services should collaborate	We will perform the following:	COMPLETE
Management,		will invoice Hydro One the	with stakeholders to define a	Collaborate as a team to	
Maintenance and		total cost of fleet	repeatable review process that may	determine areas of focus within	
Administration (Rob		transactions within a	include the following:	the ARI invoice details to review	
Berardi)		number of invoices broken	Cross checks that tie invoice data	each month and determine the	
Provide assurance that		out by fuel, maintenance,	to work orders.	level of granularity required.	
appropriate oversight and		administration and fleet	Key assumptions/understanding of	Cross checks to front end data	
controls are effective to		type. Management will	underlying business activity be	extracts.	
support business		perform a high level	documented to support	Document key	
objectives of Fleet		reasonability review of	reasonability assessments.	assumptions/summarize review.	
Services. The scope of this		these costs that is based	Define key areas of focus within	Engage ARI to determine if	
review included the		on the their understanding	underlying data that supports	further customized analytical	
oversight processes		of overall fleet activity,	invoices (e.g. fuel cost/litre,	reports can be provided.	
regarding third party		seasonality and specific	litres/odometer readings, life to	 Engage Internal Audit to 	
management, fleet costs,		program activity. The	date repair costs by make, model, or	perform a data analytics review of	
inspections and repair		design of this review	driver).	historical fleet costs to assist us in	
work completion, asset		may not be granular	 Use of data analytics tools 	understanding anomalies, trends,	
safeguarding and disposal		enough to identify	available within Hydro One to	etc.	
during 2017.		unauthorized expenses or	develop customized visualizations of		
		potential areas of savings.	fleet data from various sources (e.g.		
		As a compensating	ARI, Telematics) to highlight		
		control, authority limits	anomalies within fleet data for		
		have been established for	further review.		
		individual transaction			
		approval of fuel costs and			
		maintenance, and			
		exception reports are			
		monitored to identify			
		instances of non-			

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
		compliance to these thresholds. Management places reliance on the effective operation of these controls to gain comfort that transactions are appropriately approved.			

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
Capital Project Stage Gate Review (Andrew Spencer) Provide assurance that the key process and controls related to the Transmission Capital Project Stage Gate (Stage Gate) review are effective, and validate that the defined stage gates are consistently being utilized and monitored.	2018-16	Quality of deliverables is subjective with no proper sign-off from functional Lines of Business.	Ensure that a consistent mechanism for quality assessment of deliverables is implemented and sign-off for each deliverable under the entry criteria is consistently obtained.	A quality metric for the assessment of all deliverables will be defined and implemented. This would include sign-off on deliverable quality from functional Line of Business.	COMPLETE
	2018-16	"Go/No Go" criteria are undefined for 2 of the 6 Stage Gates ("In-service" and "Project Closure") which are not yet fully matured; and Stage Gate presentations are not consistently provided to the Stage Gate Panel 3 days in advance of the meeting, as required by the process.	Ensure that the "Go/No Go" Criteria are defined for "In-Service" and "Project Closure" Stage Gates with clear rationale for Project Manager's assessment of each criterion. Ensure that Stage Gate presentation of acceptable quality is consistently made available to Panel Members at least three days prior to Stage Gate meeting as required by the process.	Process requirement will be reviewed with Chair and Panel as to strictness compliance of the 3 days pre-send out and how to address exceptions. The "In-Service" and "Project Closure" Stage Gate templates will be reviewed to reflect that there is no "Go/No Go" criteria. The Stage Gate presentations will be issued to the Panel Members at least 3 days prior to the Stage Gate meeting.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
	2018-16	There is inconsistent tracking of Actions and Conditions in the Tracker and there was no escalation of items with expired due dates. There was no independent confirmation of completed actions and conditions as reported by Project Managers. The Stage Gate Minutes of Meeting contained no reporting/discussion on previously identified actions and conditions.	Ensure that: 1. Actions and Conditions are accurately entered in the Tracker for timely follow- through 2. Expired actions and conditions are escalated with appropriate update of forecast dates 3. Completed actions and conditions are independently reviewed and confirmed as complete with appropriate documentation of their completion.	Actions and conditions will be consistently entered in the tracker with updated forecast dates and proper supporting documentation once an action or condition is marked complete. Expired actions and conditions will be escalated through regular management review.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
	2242.47		T		Action Plan
Employee and Contractor	2018-17	Overtime hours are	Transmission & Stations needs to	Transmission and Stations will	COMPLETE
Time Review (Sabrin		sometimes incorrectly	work with Enterprise IT in order to	work with Enterprise IT and HR to	
Lila/Andrew Spencer)		allocated in system which	develop automated checks in SAP	update the functional	
Evaluate the design and		may result in payroll	where the major union rules are	requirements of the "Employee	
effectiveness of processes		errors.	applied for every employee based	Central Pay Project" which will be	
and controls related to			on his/her union affiliation, which	kicked off in Q4 2018. T&S will	
employee and contractor			help in reducing the possibility of	also engage with Corporate	
timekeeping within			errors before the timesheet	Projects to ensure that our	
Transmission and			approval is requested. Data analytics	management needs and	
Stations. Audit focus was			can be utilized and training needs to	requirements are communicated	
placed specifically on			be provided for approving Managers	in the scope definition of the	
employees who submit			where errors frequently occur.	project since T&S is an existing	
weekly timesheets for				stakeholder of this project. Data	
approval and contractors				analytics will be included as a	
who are compensated on				requirement by T&S.	
a time and materials					
basis.					
	2018-17	Maximum allowed hours	T&S needs to determine and	T&S will work with Health &	COMPLETE
		of work on a daily and	monitor the limit on the total daily	Safety to define the maximum	
		weekly basis in case of	and weekly hours an employee can	number of hours an employee	
		emergency are not	work during an emergency situation.	can work in a day or week	
		defined.	The audience for the monitoring is	(cumulatively) in case of an	
			the Director/VP levels which will be	emergency situation.	
			distinguished from any existing	We will also work with Enterprise	
			monitoring that may be in place for	IT to produce monthly reports	
			supervisors and other approvers.	flagging outliers.	
				A framework for tiered	
				management approval for hours	
				worked (including overtime) will	

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
				be established which will cover	
				alternative shifts.	
	2018-17	There is a lack of defined	Define the guidelines that should be	We will work with Human	COMPLETE
		guidelines for the review	followed by Mangers while	Resources, Labor Relations,	
		and approval of hours in	approving employee timesheets	Enterprise IT, and other areas	
		timesheets in addition to	including: Compliance with ESA,	under T&S in order to:	
		few automated controls,	accuracy of reported hours, correct	Define what needs to be	
		high volume of	allocation of hours to Network	monitored in relation to	
		timesheets, and existence	Numbers or Work Orders, and the	compliance with ESA, accuracy of	
		of multiple sets of	correct use and allocation of other	reported time, correct allocation	
		overtime rules.	job codes (Sick days, Jury duty,	of hours, and correct use of job	
			travel time, etc.);	codes;	
			Ensure that all approving Managers	Standardize and implement	
			are trained and consistently aware	training related to the above;	
			of the rules;	Define the sampling methodology	
			For managers with high number of	and criteria to be followed by	
			timesheets (ex: more than 20),	approving Managers who have a	
			define the sampling methodology	high number of timesheets to	
			and criteria that need be followed to	approve per week.	
	1		approve timesheets.		

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2018-17	Time & Material invoices approval process is not defined.	Transmission & Stations needs to define the requirements to validate the accuracy of Time & Material invoices including: The hours billed in the invoice related to professional services or equipment to have proper supporting documentation (i.e. timesheets) with matching values; All subcontractor amounts to have proper supporting documentation; The tracking of equipment usage and charged rental hours. Clients / end users to approve equipment rental invoices.	We will work with Supply Chain and other areas under T&S to define the requirements for validating the accuracy of contractor Time & Material invoices including: The hours billed to consistently have supporting documentation (timesheets) which equal the respective invoices; Subcontractor amounts to have proper supporting documentation; The tracking of equipment usage and charged rental hours. Documented approval by clients / end users for equipment rentals.	COMPLETE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
Work Program - Cost	2018-19	Accurate planning and	Establish a more consistent	Unit prices will be confirmed and	NOT STARTED
Management and		costing requires an	approach to confirm unit prices and	rational for changes will be	
Reporting (Andrew		understanding of the body	executability of planned and	documented by accountable	
Spencer)		of work that can be	budgeted work.	Program Managers or change	
To review program work		reasonably accomplished	1)Program Managers should Review	programs that cannot be unit	
cost management		with available resources.	and confirm unit prices and scope	priced to projects. At the	
processes and controls to		Whilst Planning has	for the program they manage	beginning of each year, we will	
ensure timely, complete		established a process to	including documentation of	review and confirm that the	
and accurate forecasting,		request unit price updates	rationale for any changes.	funding and accomplishment	
cost reporting and work		and confirm executability	2) Work Program Portfolio	levels for each program is	
accomplishment tracking		of planned work program,	Management should formalize the	consistent with what was agreed	
against the approved		a more consistent	work acceptance process for	to with Planning during the	
annual Transmission and		approach is needed in the	program work (similar to capital	Enterprise Engagement and gain	
Stations business plan.		execution of this process.	projects) following adjustments to	approvals for any changes using	
		And, although variances	planned funding and	Program Variance Approval	
		net out to zero for the	accomplishments through the	process.	
		overall approved	investment planning lifecycle.		
		programs budget,	, ,		
		Management has			
		committed to improving			
		processes to support the			
		accuracy of unit prices and			
		the executability of the			
I		proposed work plan.			

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2018-19	Management conducts	Enhance the quality of program cost	The tools and process followed by	NOT STARTED
		monthly meetings to	and accomplishment monitoring	WPM and PD will be reviewed to	
		review program cost and	and forecasting commentary.	ensure continuous improvement.	
		accomplishment variance	To enhance the effectiveness of the	Roles and responsibilities for	
		root causes and related	monthly cost monitoring and	Program Managers and support	
		commentary that are	forecasting process, it is	personnel will be in executing	
		captured in the	recommended that Management: 1)	program work. We provide	
		centralized "PP-191"	Define a consistent process and	guidance and direction and	
		report. However, the	tools (e.g. PP-191 reports) to be	continue to monitor the quality of	
		quality of variance	used by Program Managers in both	program variance explanations	
		commentary to explain	WPM and PD. 2) Clarify roles and	with targeted training to enhance	
		the reasons for the	responsibilities for Program	quality as required.	
		variance and remedial	Managers along with required	4,	
		actions that were taken is	support from Finance and executing		
		inconsistent. Management	LOBs (such as Construction, Station		
		has committed to	Services, Distribution Lines, etc.). 3)		
		improving variance	Provide guidance and direction to		
		commentary in order to	Program Managers for documenting		
		provide a more effective	clear and consistent variance		
		decision trail and to	explanation with required details of		
		provide enhanced	further action/follow-up.		
		feedback.	Turther action/follow-up.		

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2018-19	Decisions endorsed by the	Establish a more formal approach to	Redirection process overview	NOT STARTED
		Redirection Committee	communicate program redirection	training will be provided to	
		are not consistently	decisions.	Program Managers. We will	
		approved at an individual	To support the formalization of the	continue to develop a month end	
		program level nor	Redirection communication and	reporting package that will	
		consistently	approval process, the following is	require formal signoffs at various	
		communicated to the	recommended: 1) Review the new	levels of review and engage	
		accountable Program	redirection process with Program	Finance to provide feedback on	
		Managers. Actions have	Managers to clarify any expectations	the current Project/Program	
		been established to	related to Program Manager's role	Variance Approval process to	
		improve communications	in providing forecast and rationale	highlight issues encountered and	
		and enhance the ability of	for the redirection	discuss approaches to allow for	
		the Program Managers to	recommendations being made by	timely approvals. We will define	
		effectively manage their	Management to the redirection	communication protocol for	
		program(s).	committee. 2) Work with Finance to	Program Mangers to be informed	
			ensure consistent documentation	of redirection decisions in a	
			and approval of forecast changes	timely manner.	
			which are below redirection		
			thresholds. 3) Communicate		
			redirection decisions to the		
			impacted Program Managers		
			following the redirection review.		

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
Post Event Investigation Process Review (Bruno Jesus) Provide assurance on the control design effectiveness of the post event investigation (PEI) process in reducing the risk of future occurrence on failures to our network and key assets.	2019-03	Criteria to determine the criticality level of events have been substantially established but have not been consistently utilized to define the appropriate level of investigation.	Management should review the criteria (per SP1938) to ensure that the appropriate triggers are established and adequately populated to help define the criticality of the investigations and to facilitate trending analysis on key assets with repeated failures.	The PEI Standing Committee will review and establish the appropriate triggers necessary to define the criticality level of investigations. The Reliability and Analytics team will ensure the data fields are populated in the spreadsheet in order to facilitate trending analysis of repeated failures on key assets.	COMPLETE
	2019-03	Rationales to substantiate the PEI Standing Committee's decision on the criticality level of an investigation are not being consistently documented.	Management should document the rationale to support PEI Committee decisions on the criticality level of investigation in cases where it differs from the criteria ratings.	The rationale on the criticality level of investigations will be captured during the triage meeting with the PEI Standing Committee.	COMPLETE
	2019-03	There is no formal mechanism in place to preserve evidence and gather data for investigations.	Management should finalize and stakeholder the PEI policy and procedure with field personnel to establish a consistent level of awareness on the need to preserve evidence. Furthermore, establish a mechanism to define, communicate and follow-up on the evidence and data required for each criticality levels of investigations.	The Reliability & Analytics team will finalize, issue and stakeholder the policy and procedure and use it to educate personnel to make them aware about the importance of evidence and data. The procedure will define evidence and data required for high and medium level investigation to be captured by field crews	ON SCHEDULE

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of
					Action Plan
Meter Service Provider	2019-09	Unclear centralized	1. Establish a centralized oversight	1. The Director, AMIO will be the	NOT STARTED
Functional Review (Bruno		authority to oversee	authority to ensure consistent	governance oversight authority	
Jesus)		successful execution of	understanding of MSP	including documentation of the	
Provide assurance that		MSP function by LoB	requirements, accountabilities and	responsibilities of stakeholder	
key controls are in place		stakeholders.	expectations among stakeholder	LoBs to ensure compliance with	
for Hydro One to meet its			LoBs and to manage known issues,	Market Rules and the MSP	
obligations as a registered		A review of overall MSP	risks and performance.	Agreement obligations.	
Metering Service Provider		function governance	2. Establish a mechanism to track,	2. We will establish a Statement	
as per the Ontario Market		identified the following	review, create/update, stakeholder,	of Work with input from each of	
Rules and its Metering		issues:	approve, communicate and	the stakeholder LoBs defining the	
Service Provider (MSP)		 governance documents 	decommission MSP governance	activities and a mechanism for	
Agreement with the		(policies, processes,	documents on a timely basis to	MSP Governance document	
Independent Electricity		procedures, job aids, etc.)	ensure compliance with market	management.	
System Operator (IESO).		are currently in place to	rules.		
		communicate MSP			
		expectations and timelines			
		to stakeholders but many			
		are outdated in the			
		evolving organization or			
		remain in draft form			
		(unapproved).			
		Key stakeholder LoB			
		accountabilities are			
		generally understood but			
		not formally documented			
		and communicated.			
		A centralized authority			
		to provide updated			
		directions, clarify			

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
		accountabilities, and manage known risks, issues and performance is			
		not in place. No clear accountability matrix or			
		inter-LOB Service Level Agreements are in place to ensure clarity of			
		expectations, service quality, performance measures, etc.			
		A centralized and active tracking of action to close			
		communication gaps is not in place.			

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Audit Name Report #	Observation	Recommendation	Action Plan	Status of Action Plan
2019-09	Lack of mechanism to ensure staff sufficiency and capability (training matrix and records) A review of controls related to MSP qualifications identified the following issues: • Informal, on-the-job training is currently in place within each stakeholder LoB for staff performing MSP function. • AMIO Roles and Responsibilities for MSP function are well-defined along with a skills matrix for AMIO staff (Success factor) but there is no MSP function related training matrix or tracking in place for some LoBs • Assessment of having sufficient staff to meet MSP workload is performed by each LoB as part of their annual business plan but this is not formally declared or	1. Assess and document staff capacity needed for each LoB to meet the anticipated MSP workload with corrective actions to address any identified capacity issues. 2. Establish staff competency requirements (skills, knowledge and experience) as well as training requirement. Create and maintain appropriate records to demonstrate compliance with the MSP Qualifications listed in Market Rules Chapter 6, Appendix 6.4 as well as MSP agreement, articles 3.5 to 3.8.	1. We will work with the stakeholder LoBs to establish and ensure that their resource capacity is sufficient to perform the required MSP work. 2. We will work with the stakeholder LoBs to establish and ensure that their training requirements are in place along with a mechanism to periodically verify that each stakeholder LoB has qualified and trained staff with documented training records.	NOT STARTED

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Audit Name Rep	Observation	Recommendation	Action Plan	Status of Action Plan
	confirmed.			

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
	2019-09	Ineffective Quality Assurance review for deliverables being submitted to IESO Market rules require a number of deliverables to be submitted to the IESO on a timely basis for meter point registration, commissioning, maintenance and trouble calls. These deliverables have been rejected by the IESO on multiple occasions due to completeness and quality issues, requiring rework and resubmission.	1. Establish a quality assurance process to ensure that all deliverables being submitted to the IESO are of required quality and meet the submission timelines. This will minimize the number of errors and/or rejections and required rework. 2. Establish accountabilities and mechanism to identify, track and action any deteriorating quality performance as reported monthly by the IESO (e.g. timely submission of Site Registration Reports, Engineering Unit Reports, commissioning reports, etc.)	1. We will work with the stakeholder LoBs to establish and ensure that Quality Assurance requirements and performance measures are in place. 2. We will review deficiencies identified during past IESO meter point audits to identify root causes and identify and monitor to resolution the corrective actions to address similar deficiencies for all other meter points.	NOT STARTED
Health and Safety - Apprenticeship Training (Sabrin Lila, Andrew Spencer) Review the adequacy of mechanisms in place for embedding and integrating safety into Hydro One's Apprenticeship Training program to enable the development of safety	2019-11	Despite having a mature and highly structured program, the apprentice workforce has a higher rate of Recordable Injuries compared to the nonapprentice workforce. There has been limited, ad hoc trending and analysis of apprentice incidents in the past. Currently, apprentice incidents are	1. Conduct a detailed analysis of apprenticeship safety incident data to gain greater insights into potential root cause and/or causal factors contributing to apprentice incidents and the higher Recordable Injury rate.	Health, Safety & Environment (HSE) will conduct a detailed analytical review of apprenticeship safety incident data.	NOT STARTED

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Audit Name	Report #	Observation	Recommendation	Action Plan	Status of Action Plan
competencies and behaviours within its apprentice workforce.		not being analyzed and reported on separately from other employees.			

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A - SCHOOL ENERGY COALITION INTERROGATORY - 007 1 Reference: 3 No reference provided 4 5 **Interrogatory:** 6

- Please provide a copy of all budget guidance documents that were issued regarding the budgets 7
- that underlie the application. 8

Response: 10

9

12

- Attached please find: 11
 - Attachment 1 Presentation: Investment Planning Kickoff
- 13 • Attachment 2 – Presentation: Phase 1 Customer Engagement Results
- Attachment 3 Presentation: Phase 2 Customer Engagement Results 14

Witness: JODOIN Joel, JESUS Bruno

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Witness: JODOIN Joel, JESUS Bruno



Agenda and objectives for today's discussion

Agenda

- Safety Moment
- Planning Framework and Strategic Considerations
- Process Overview
- Strategic Finance Update

Objectives for today

Review the approach for the 2021-27 Investment Planning Process:

- Review the **guiding principles** of the investment planning process
- Understand the purpose of, and your role in, each process stage
- Discuss **expectations** and next steps for the planning process

Contents

Safety Moment

Planning Framework and Strategic Considerations

Process Overview

Allocations and Outcomes

Strategic Finance Update

Workforce Planning Update

Safety Moment: There's no such thing as being too prepared

What were you doing at 7:20 am on January 12th, 2020?

- •The Canadian Nuclear Safety Commission (CNSC) the federal agency that monitors the safe operation of nuclear stations now requires that all homes and businesses within 10 km of a nuclear power station receive a supply of potassium iodide (KI) pills. The pills have been available free of charge at select pharmacies, but will now be sent by mail due to increased safety standards.
- •In the highly unlikely event of a nuclear accident, a potassium iodide (KI) pill is a key component to keeping you and your family safe. All homes and businesses within 10 km of nuclear facilities are encouraged to have on hand potassium iodide (KI) pills. Anyone within 50 km of nuclear facilities is welcome to order KI for delivery.
- •KI pills can be ordered through:
- https://preparetobesafe.ca/order

Contents

Safety Moment

Planning Framework and Strategic Considerations

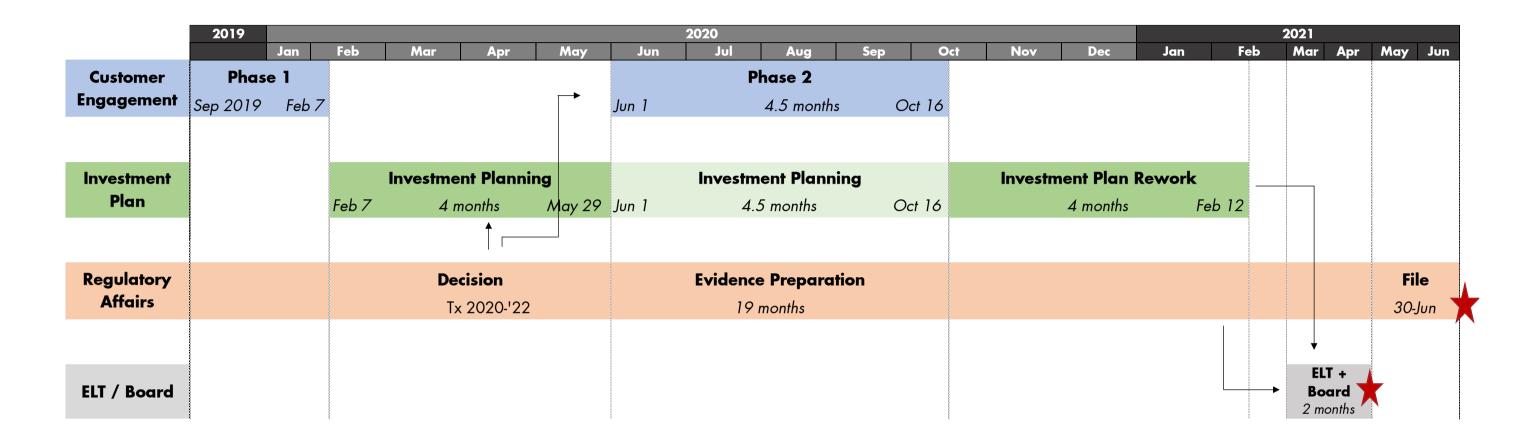
Process Overview

Allocations and Outcomes

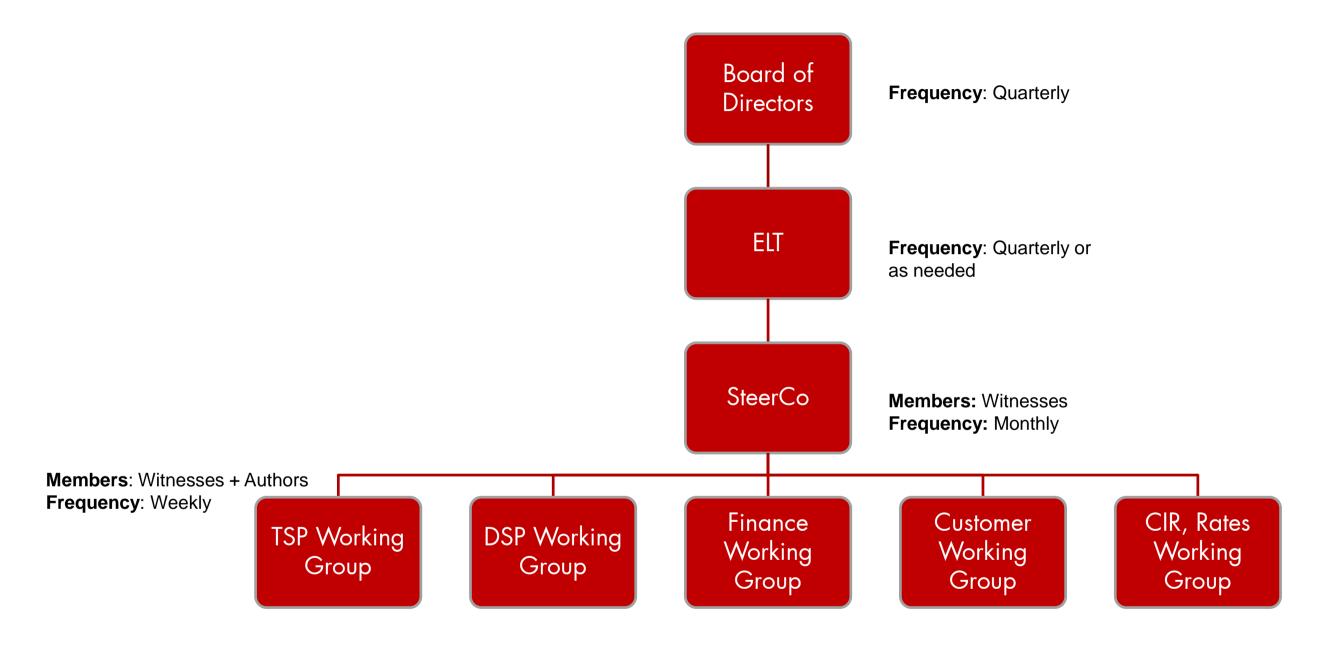
Strategic Finance Update

Workforce Planning Update

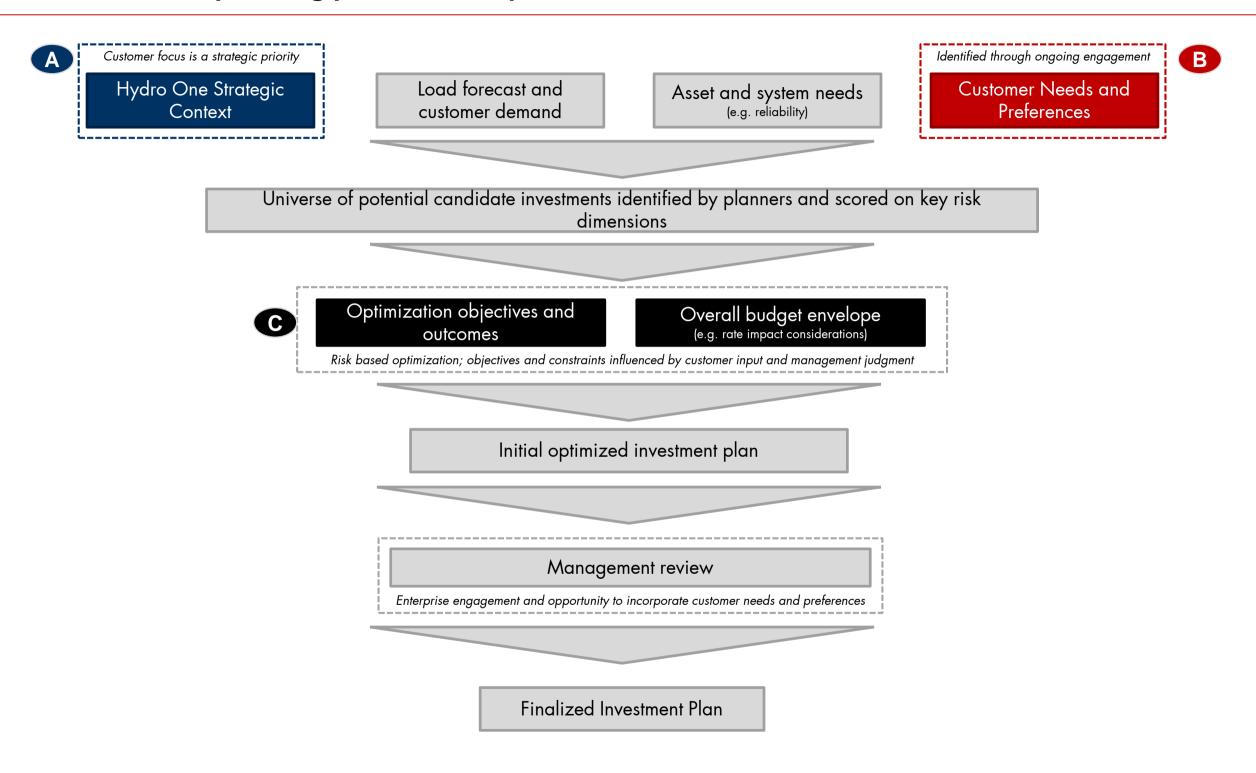
Joint Rate Application - Timelines to Filing



Joint Rate Application - Governance Structure



Hydro One's investment planning process incorporates customer and stakeholder feedback





Consistent with the corporate strategy, the investment plan funds the expenditures required to deliver on business objectives

Strategic Priorities:



 We will plan, design, and build a grid for the future that is reliable, resilient, and flexible; doing it in a way that delivers value for customers; and balances our environmental responsibility.



 We will be the safest and most efficient utility through transformation and improvements to our culture; enabling field operations to drive productivity and reliability; optimizing corporate support; and driving efficient capital delivery.



· We will advocate for our customers and help them make informed decisions based on their unique needs, improving customer experience, providing customers with actionable insights, and access to third-party products and services.



 We will be a trusted partner, building and strengthening trust-based partnerships with government and industry stakeholders, Indigenous peoples, and other customers to continue to provide essential services to Ontarians.



 We will innovate and grow the business to provide value for our customers, shareholders, and other stakeholders through responsible and prudent investment and pursuit of innovative opportunities that present value.



A Hydro One's Strategic Priorities are supported by a focused approach and key initiatives to assist in driving meaningful progress

Plan, design and build a grid Be the safest and most Be a trusted partner Advocate for our customers for the future efficient utility and help them make informed Strategic decisions priorities A Plan, design and build a A Transform and improve our A Make it easier to do business reliable grid for the future to A Responsibly invest in rate A Grow relationships with safety culture with Hydro One prevent outages government and industry base assets Focus partners areas B Increase grid resiliency, both B Enable field operations physical and cyber, to B Help customers make to drive productivity and quickly restore from events informed decisions by reliability leveraging our position as B Pursue new regulated B Build strong partnerships with energy experts business opportunities C Improve arid flexibility to Indiaenous peoples integrate and operate DERs enabling customer choice C Optimize corporate support D Lower our environmental C Expand access to energy C Build trust with our customers. footprint C Pursue innovative offerings to become provider communities and all unregulated business D Drive efficient capital of choice to customers Ontarians opportunities E Deliver value through great delivery planning (capital & O&M) A people strategy that inspires employees and prepares the right workforce for evolving needs **Enablers** A regulatory strategy and a regulatory environment to support our strategic vision The use of digital tools, technology, and process improvement to enable our workforce and customers



A Regulatory Focus – the plan is aligned with the objectives of the OEB's regulatory framework

OEB Objectives	Business Values	Priorities and Outcomes
	Customer Satisfaction	 Improve and maintain current levels of customer satisfaction Build trust with our customers, communities and all Ontarians
Customer Focus	Customer Focus	 Deliver industry-leading customer service, in response to identified customer preferences Make it easier to do business with Hydro One
	Cost Control	 Focus on continuous improvement to enhance efficiency, productivity, and reliability Deliver value through great planning Enable field operations to drive productivity and reliability
Operational	Safety	 Maintain top-tier safety performance and eliminate serious injuries Transform and improve our safety culture
Effectiveness	System Reliability	 Maintain top tier Tx reliability performance and improve long-term Tx and Dx reliability Plan, design and build a reliable grid for the future to prevent outages Increase grid resiliency, both physical and cyber, to quickly restore from events Improve grid flexibility to integrate and operate DERs enabling customer choice
Public Policy	Public Policy Responsiveness	 Deliver on obligations mandated by government through legislation and regulatory requirements Grow relationships with government and industry partners
Responsiveness	Environment	 Lower our environmental footprint through greenhouse gas (GHG) reduction
Financial Performance	Financial Performance	 Responsible investment in rate base assets to ensure the safety and reliability of the grid Manageable and stable rate impacts over the course of the planning period Drive efficient capital delivery

Consistent key themes should inform the identification of outcomes that are meaningful to our customers

- •Much of Hydro One's system was built in the 1950s and we need to replace, repair or upgrade equipment in almost every community across the province.
- Hydro One's infrastructure helps to build strong and prosperous communities. Investing in safe, reliable power is essential to boosting the economy.
- We know every dollar we spend comes at a cost to our customers and the people of Ontario, which is why we are focusing on essential investments to keep the system safe, the power on and costs as low as possible. We will invest each dollar in a way that will have the greatest benefit to customers and communities.
- Investments in the system today will help offset far more costly repair, maintenance and emergency work in the future.

Expressed customer preferences will continue to guide the development of the investment plan

Customer Engagement

- In preparation for the upcoming Joint Rate Application, residential, small business, commercial and industrial, large Dx accounts, Tx accounts, First Nations and general population customers were engaged on a preliminary basis and will be re-engaged to provide feedback on our plan
- Minimal variation across geographic centres
- Through ongoing customer contact, new individual customer needs and preferences may be identified, which should inform the identification and development of candidate investments
- In general, customers supported certain investments but also prioritized reasonable rates. Our investments must balance the service our customers prefer with rates they support

Transmission

- Price, reliability and safety are top priorities
- Reducing the number and length of outages during extreme weather events and reducing the number of day-to-day outages are top reliability outcomes
- Maintaining or increasing the current level of investment in asset renewal is preferred
- Proactive reliability investment is supported
- Power quality improvements are valued

Distribution

- Price, reliability, safety and customer service are top priorities
- Reducing the number and length of outages during extreme weather events and reducing the number of day-to-day outage are top reliability outcomes
- Technologies to reduce costs, improve reliability and help customers manage their usage are priorities
- A proactive approach to asset renewal is preferred
- Proactive system hardening is supported
- Reliability improvements are valued

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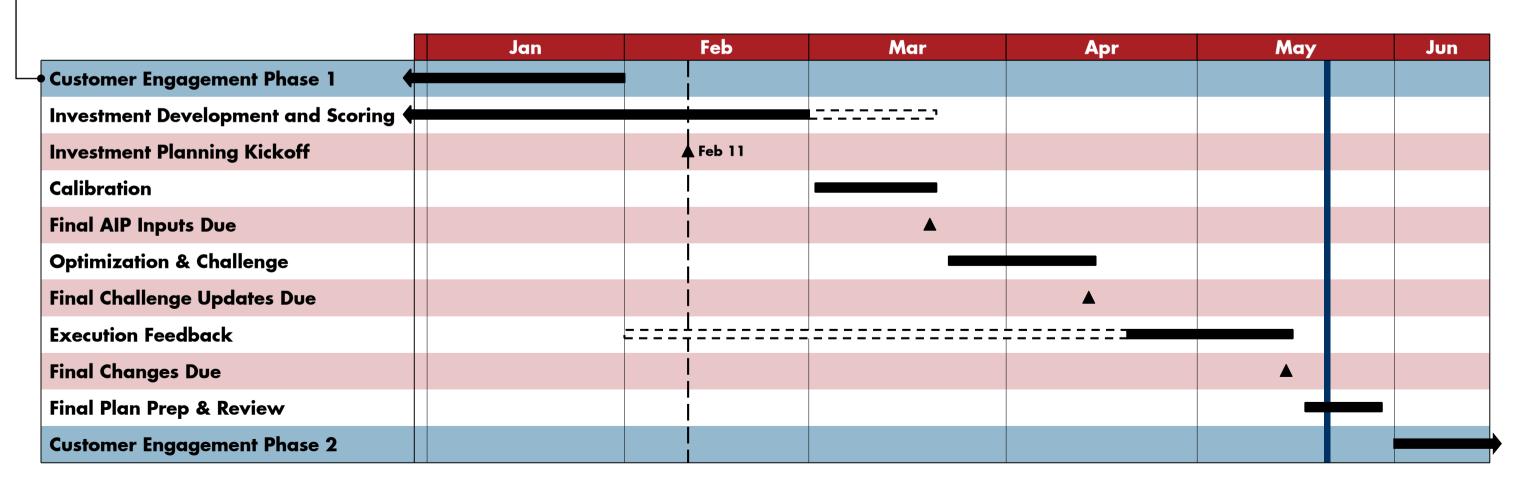
Workforce Planning Update

The investment planning process is a multi-step, enterprise wide process culminating in a seven-year investment plan

	Stage	Description				
0	Investment Planning Context	Translation of high-level strategic objectives into initial financial requirements and strategic outcomes/metrics.				
(1	Candidate Investment Development and Scoring	Develop investments to address strategic, customer or asset needs. Evaluating risk and flag considerations.				
2	Calibration	Comprehensive alignment on risk, investment efficiency, critical investment plan considerations and process to address corporate priorities.				
3	Optimization/ Challenge	Detailed review of the initial scenario results to prioritize investments in the investme plan based on risk scores and other considerations noting efficiencies, risks, asset n and customer impacts. Align investment portfolio to multi-year envelope based on riprioritization.				
4	Enterprise Engagement	ise Engagement Ensure alignment between Planning and Execution on investment needs, resource capabilities, and identified opportunities for trade-off discussions.				
5	Develop Final Plan	Final review and approval of the Investment Plan proposal to ensure alignment of plan with corporate priorities, including clarity on outcomes, risk, customer feedback and strategic direction.				

The Investment Planning Process will be informed by Phase 1 Customer Engagement and resulting outcome will be presented to customers in Phase 2

!	2020										2021					
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Customer Engagement Phase 1																
Investment Planning Process							I									
Customer Engagement Phase 2																
Board of Directors Approval - Budget																
Investment Plan Rework & Finalization																
Board of Directors Approval – 2023-2027																



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Workforce Planning Update

Planning in parallel with active/recently approved OEB applications requires a consistent approach to maintain regulatory consistency and credibility

Transmission

- Investment costs, schedule and risk assessments to be materially consistent with the Filed application
- Total plan will be held consistent with annual capital/OM&A/in-service addition envelopes included in the Filed application for the 2021-2022 period
- Reprioritization and redirection of plans to incorporate updated assumptions and rebalance the plan within the OEB proposed envelope
- Opportunity to identify, assess and optimize investment candidates beyond 2022, consistent with strategic priorities, customer needs and preferences and asset need
- Plans and pacing will be adjusted, as required, to reflect the OEB decision when received

Distribution

- Investment costs, schedule and risk assessments to be materially consistent with the Draft Rate Order plan
- Total plan will be held consistent with annual capital/OM&A/in-service envelopes included in the Draft Rate Order plan for the 2021-22 period
- Reprioritization and redirection of plans to incorporate updated assumptions and rebalance the plan within the OEB approved envelope
- Opportunity to identify, assess and optimize investment candidates beyond 2022, consistent with strategic priorities, customer needs and preferences and asset need

OEB Status

• Evidence Submitted: March 2019

OEB Decision: TBDRate period: 2020-22

Tx System Plan: 2020 - 2024

OEB Status

OEB Decision: March 2019

Approval of DRO: June 2019

Rate period: 2018-22

Dx System Plan: 2018 - 2022

With active proceedings, we will take the opportunity to reinforce the planning process in support of the combined Tx/Dx filing. We will address OEB Findings from the Distribution Decision regarding our planning process

OEB Findings

- Establish and communicate a clear relationship between proposed capital
 plans and system reliability using measurable outcomes; the OEB believes this
 is a prerequisite for customers to understand the magnitude of the impact and
 to provide meaningful, informed input.
- Focus on performance measures, establishing targets for each measure and each year which demonstrate continuous improvement.
- Consider OM&A options when developing candidate capital investments, as applicable.
- Articulate how the OEB-imposed reductions were accommodated in line with the OEB findings and explain any subsequent variances regarding scope, cost or schedule
- Identify major cost drivers of investments, including labor, materials, contracts and interest/overheads



DECISION AND ORDER

EB-2017-0049

HYDRO ONE NETWORKS INC.

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

BEFORE: Ken Quesnelle Presiding Member

> Emad Elsayed Member

Lynne Anderson Member

March 7, 2019

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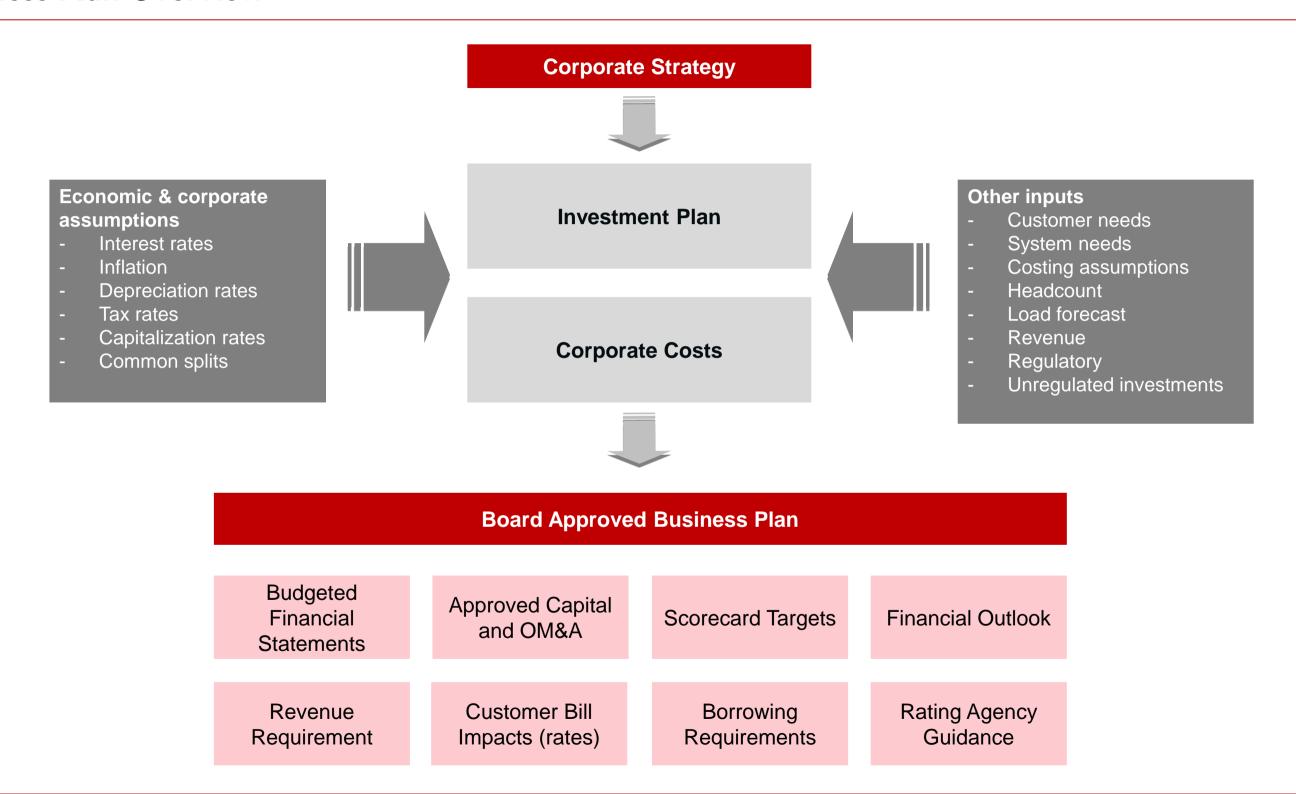
Strategic Finance Update

Workforce Planning Update

Business Plan - Key Messages

- Investment levels should be consistent with OEB filings, with consideration to incremental productivity savings
- 2023-27 investment levels will be informed by outcomes of the Customer Engagement process, among other things
- Material changes should be explained
- Build on the improvements made last year and leverage the established process to enhance the information for program planning, trending and workforce/resource planning
- Strategic Finance communicate any changes to the guidance provided today
- Lessons learned will help us optimize the business planning process this year

Business Plan Overview



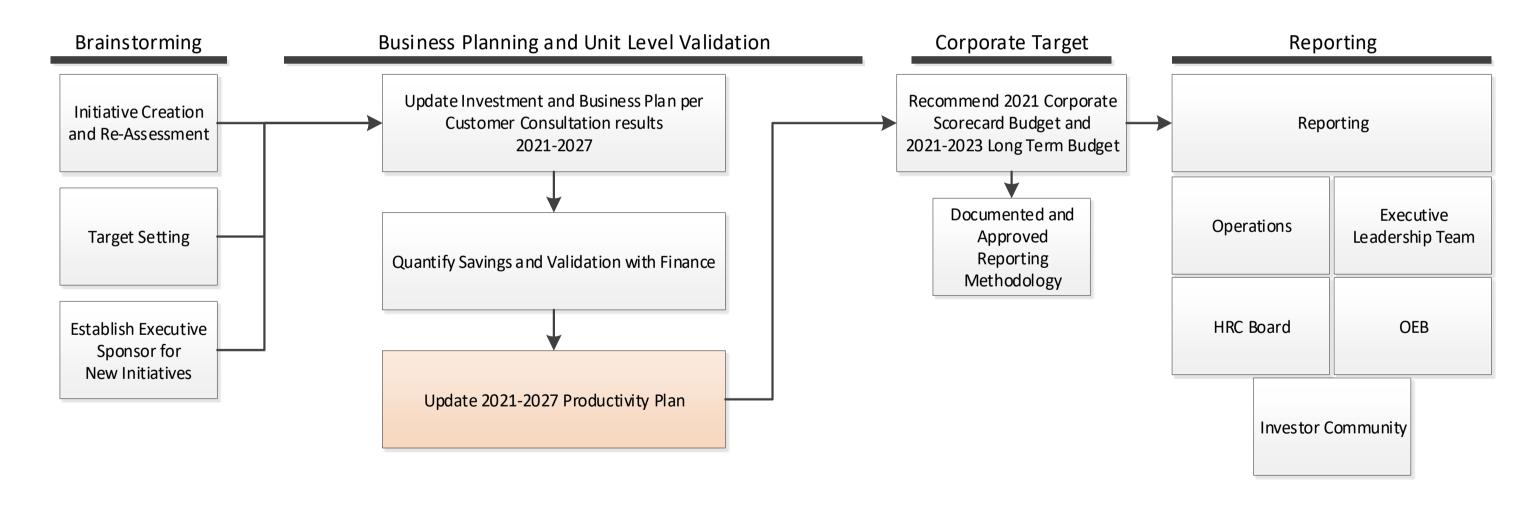
Inputs Driven by the Investment Plan

Outputs of the Investment Plan drive numerous inputs Capital In-service into the Business Plan additions expenditures Cash flows Rate base Borrowing requirement Return on capital Debt rating Depreciation Interest capitalization Overhead capitalization **Investment** Plan Productivity Earnings before tax (EBT) Capital contributions Taxes Internal revenue Net Income Cost of sales Revenue requirement Workforce planning OM&A and Other Removal costs

Productivity Planning

Productivity and continuous improvement will form a key message in Hydro One's Business Plan. Productivity is communicated regularly to the board of directors, OEB and investor community.

Productivity savings are expected to be auditable and embedded into the underlying costing and plan assumptions.



Productivity Stakeholder Engagement

- •All Employees: Identify new cost saving initiatives and opportunities during plan creation. Present opportunities to Finance (For new initiatives, please contact Mike Malinowski and Michael Constantinescu).
- Initiative Owners: Ensure stakeholders are aware of your initiative and the associated planning assumptions required for embedding savings in the Investment Plan. Update your unit costs to reflect savings relative to baseline.
- **Planners:** Engage with the Initiative Owners and Service Providers to clarify new unit costs and expected savings to be built into the plan (units and rates).
- •Service Providers: Engage with initiative owners and planners to ensure alignment in costing and execution.
- Estimating: Utilize updated material costing data.

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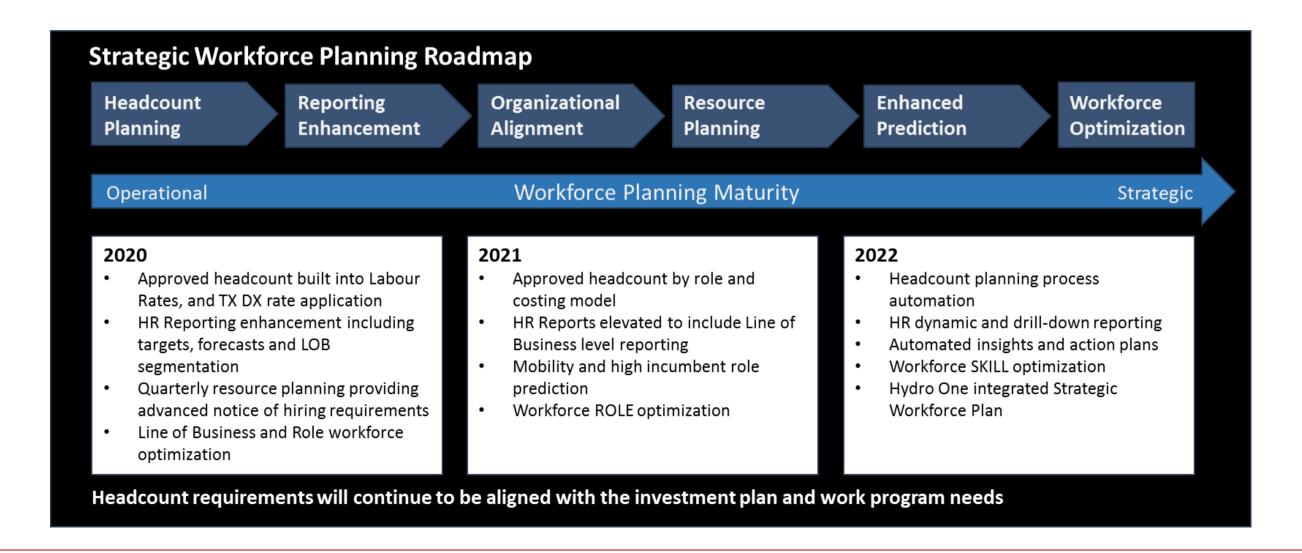
Allocations and Outcomes

Strategic Finance Update

Workforce Planning Update

Workforce Roadmap & Vision

- 3-Year plan to build towards Strategic Workforce Planning
- Planning not just headcount but for skills of the future
- 2020-2021 will be critical to form the foundation



2020 Next Steps



Tracking and governance of 2020 FTE budget, forecast and actuals

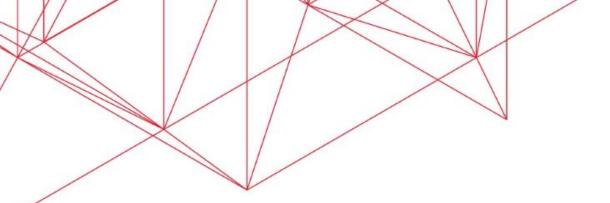


Earlier timing in gathering FTE feedback from LOBs towards 2021 plan



Stronger alignment of FTE plans to work program requirements leveraging learning/data from previous 2 cycles







SAFETY MOMENT | CUSTOMER MOMENT



JOINT RATE FILING APPLICATION



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JOINT RATE FILING APPLICATION

Components of an Application

Business Plan

Customer Engagement

System Plans

Outcomes

Performance
Metrics /
Scorecards

Scorecards

Performance Benchmarking

Rate Design

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CUSTOMER ENGAGEMENT

Engaging customers in a meaningful dialogue on electricity is a challenge.

There is a challenge in ensuring the customer feedback collected is informed feedback that reflects customer judgement rather than simply their first impressions. Thus **customer education** is a key component of every consultation.

There is a challenge in ensuring that **everyone who wants to have a say can participate**, while also making sure that we hear from all types of customers.

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CUSTOMER ENGAGEMENT

PHASE I: Customer Needs and Preferences (September 2019 – January 2020)

Objective: Provide planners and application architects with a summary of customer needs, preferences, and high level priorities between utility investment and cost.

Activities: Hydro One reached out to a subset of its Dx and Tx customers through a wide range of activities, including: Focus groups, One-on-one interviews, Telephone surveys, Online workbooks

PHASE II: Trade-offs and Refinement (June – September 2020)

Objective: Collect customer input on trade-offs to refine draft investment plans before submitting rate application to OEB.

Activities: Hydro One is going to reach out to all of its Dx and Tx customers, using an online workbook as the core tool for collecting customers feedback on its draft plan



CUSTOMER FEEDBACK (PHASE I)

The online workbook is the core tool of the engagement, and the results presented here reflect the feedback gathered through different versions of the online workbook, which was tailored for different customer types.

Dx Customers	Sample size
Residential	N=1,338
Small business	N=200
C&I	N=225
LDA	N=8
First Nations residential customers	N=300

Tx Customers	Sample size
Residential	N=1,800
Small business	N=690
C&I	N=225
LDA	N=8
LTX	N=16
First Nations residential customers	N=300

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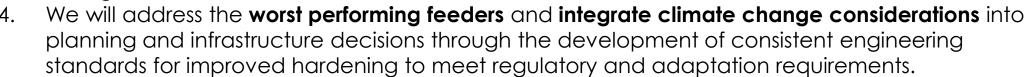
INVESTMENT PLANNING

How to incorporate customer feedback?

- 1. We have an opportunity to continue to improve our core transmission and distribution business.
- We have made significant improvements in safety, reliability, productivity and customer satisfaction, but our focus should remain on operational excellence to optimize the customer experience.



 We will analyze and address outliers for both planned and unplanned interruptions, including through traditional solutions and non-wires alternatives.





- 5. We will work with local leaders and customers to highlight our commitment to supporting economic development in Ontario.
- 6. We will continue to make **prudent and reasonable investments in the system**.

The results of Phase 1 are directional in nature, reflecting general customer needs and preferences. As part of Phase 2, we will be returning to customers with 3 scenarios for both Tx and Dx, with discrete program level trade-offs based on developed plans.











CUSTOMER ENGAGEMENT

Customer Needs and Outcome Preferences



RESULTS: CUSTOMER NEEDS

Is there anything in particular you would like Hydro One to do to improve its services to you? [OPEN]

Most customers don't list any unfulfilled needs.

Among those who do, the top two are:

- Improve reliability and power quality
- Lower rates, no increases

How to implement what customers want:

- Prevent, minimize and restore power outages to continue to provide safe and reliable power to customers.
- Manage costs including through technology, process improvements, and embedding productivity and efficiencies into the business

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RESULTS: OUTCOME PREFERENCES

Thinking about the things Hydro One should be focusing on, please rank your top priorities:

- Delivering electricity at reasonable rates
- Ensuring reliable electrical service
- Ensuring the safety of electricity infrastructure
- Providing quality customer service

How to implement what customers want:

- Manage costs including through technology, process improvements, and embedding productivity and efficiencies into the business
- Prevent, minimize and restore power outages to continue to provide safe and reliable power to customers.
- Optimize the customer experience using digital capabilities, and deploying advanced analytics for customer care.

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RESULTS: RELIABILITY OUTCOMES

Among the following reliability outcomes, please rank your top three priorities:

- Reducing the **length** of time to restore power during **extreme weather events**
- Reducing the **number** of outages during extreme weather events
- Reducing overall number of day-to-day outages

How to implement what customers want:

- Improve the grid's ability to withstand and recover from extreme weather events.
- Improve restoration times through increased coordination, enhanced response, and reduced human error.
- Prevent, minimize and restore power outages to continue to provide safe and reliable power to customers.

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RESULTS: TECHNOLOGY INVESTMENTS

What technology investments do customers prioritize?

- New technology that can help Hydro One find efficiencies and reduce customer costs
- New technology that would reduce the number and length of outages
- New technology that can help customers better manage their electricity usage

How to implement what customers want:

- Manage costs including through technology, process improvements, and embedding productivity and efficiencies into the business
- Leverage technology and use advanced tools to ensure efficient and prudent investment to address critical needs.
- Optimize the customer experience using digital capabilities, technology and advanced tools in operations for customer care.

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DX INVESTMENT TRADE-OFFS



KEEPING PACE WITH DETERIORATING DX INFRASTRUCTURE

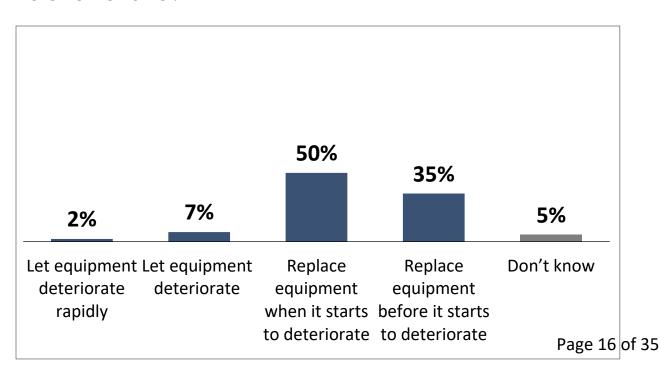
Which of the following statements best represents your point of view regarding Hydro One's approach to dealing with aging infrastructure?

- Let Equipment Deteriorate Rapidly: Hydro One should decrease its current level of investment in aging equipment to keep annual rate increases for new equipment [under a dollar] on my monthly bill, even if it means the share of aging equipment will grow rapidly and future rate increases will be very steep.
- Let Equipment Deteriorate: Hydro One should maintain its current level of investment in aging infrastructure to keep annual rate increases for new equipment [under \$1.50] on my monthly bill, even if it means equipment will age faster than it is replaced (but less quickly than in the scenario above) and future rate increases will be steep.
- Replace Equipment When It Starts to Deteriorate: Hydro One should increase its current level of investment in aging infrastructure to keep annual rate increases for new equipment [under \$2] on my monthly bill, to keep pace with aging equipment and enable smoother rate increases in the future.
- Replace Equipment Before It Starts to Deteriorate: Hydro One should increase its current level of investment in aging equipment to keep annual rate increases for new equipment [under \$2.50] on my monthly bill, which will improve the average age of equipment and enable stable rate increases in the future.



KEEPING PACE WITH DETERIORATING DX INFRASTRUCTURE

A clear majority of customers prefers a more proactive approach to replacing aging infrastructure, when or before it starts to deteriorate.



How to implement what customers want:

 As the grid ages and condition deteriorates, it is critical that we ensure renewal spending is prudent and efficient for customers and communities, and that we <u>increase our focus on</u> deteriorated and at risk assets.

- Condition based re-investment / renewal
- Data and analytics to provide insights and improve decision making



ENSURING DAY-TO-DAY RELIABILITY

Which of the following statements best represents your point of view regarding Hydro One's approach to ensuring day-to-day reliability?

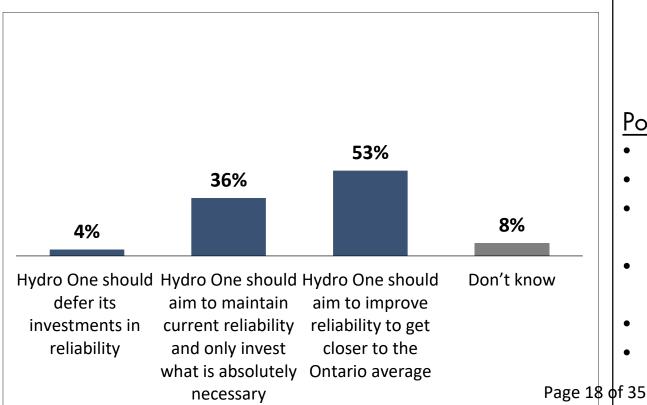
- Hydro One should defer its investments in reliability to keep costs down, even if this could lead to more or longer power outages in the future.
- Hydro One should aim to maintain current reliability and only invest what is absolutely necessary to maintain the current level of reliability, even if that increases my monthly bill by less than a dollar each year.
- Hydro One should aim to improve reliability to get closer to the Ontario average, even if that
 increases my monthly bill by more than a dollar each year.
- Don't know

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ENSURING DAY-TO-DAY RELIABILITY

Most customers want Hydro One to invest in reliability but are divided over the level of investment—between maintaining and improving.



How to implement what customers want:

Providing safe and reliable power is a top priority; we must **prevent service** interruptions during 'blue sky' weather, and when such interruptions must occur, they should be brief.

- OCP
- System renewal
- Non-Wires Alternatives (Backup generation, DERs, Batteries)
- Reconfigurations (Ties and loops, Undergrounding, Hendrix Cables, Relocations)
- Data and analytics / data collection
- Bundling to reduce planned outages



RESPONDING TO SEVERE WEATHER

Which of the following statements best represents your point of view?

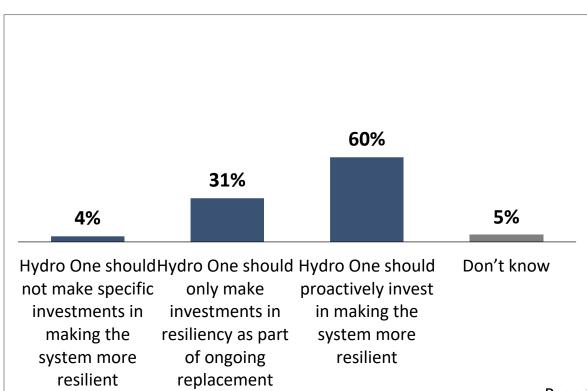
- In order to keep rates down, Hydro One should <u>not</u> make specific investments in making the system more resilient to severe weather, even if that means no improvements or potential increases in the length and number of outages caused by severe weather.
- Hydro One should only invest in projects to make the system more resilient to severe weather as part of the ongoing replacement of old or failing equipment, but not more, even if that increases my monthly bill by less than 25 cents each year.
- Hydro One should proactively invest in making the system more resilient in order to reduce the length and number of outages caused by severe weather, even if that increases my monthly bill by less than 50 cents each year.
- Don't know

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RESPONDING TO SEVERE WEATHER

The majority of customers supports investments in hardening the system, either as part of ongoing system renewal or as proactive investments.



How to implement what customers want:

 Beyond reliability, we must prepare for future grid resiliency by designing and implementing solutions and functionality to <u>improve "withstand-</u> <u>capability" and restoration times following</u> extreme natural events.

Potential examples:

- Non-wires alternatives (centralized / grid-edge batteries, DER for islanded (microgrid) operations, backup generation)
- Standards (Hardening, mechanically fused cross-arms)
- Reconfigurations (Ties and loops, Undergrounding, Hendrix Cables, Relocations)
- Telecom upgrades (AMI 2.0)
- Modernization (Automation, sectionalization and sensors)
- Staging and facility/crew optimization
- Data and analytics
- Customer Communication / Technology

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HELPING CUSTOMERS WITH POOR RELIABILITY

Which of the following statements best represents your point of view?

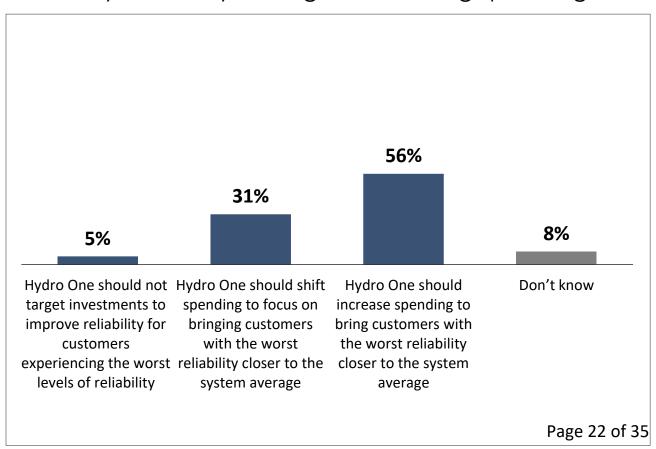
- Hydro One should <u>not</u> target investments to improve reliability for customers experiencing the worst levels of reliability in order to keep costs down, even if that leaves some with worse reliability than others.
- Hydro One should **shift spending** to focus on bringing customers with the worst reliability closer to the system average without raising prices, even if that means that reliability may go down for customers whose reliability is currently average or above.
- Hydro One should increase spending to bring customers with the worst reliability closer to the system average, even if that increases my monthly bill by less than 25 cents each year.
- Don't know

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HELPING CUSTOMERS WITH POOR RELIABILITY

Almost all customers want to help those with poor reliability, either by shifting or increasing spending.



How to implement what customers want:

 A small number of facilities drive a significant proportion of poor reliability performance or are significant outliers; addressing these facilities should have a substantial impact on service reliability for customers

- Worst Performing Feeder Modernization
- Non-wires alternatives (centralized / gridedge batteries, DER for islanded (microgrid) operations, backup generation)



ENABLING ECONOMIC GROWTH

Which of the following statements best represents your point of view?

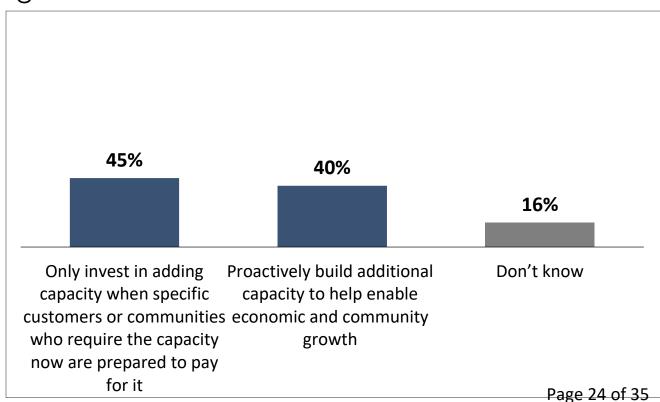
- Hydro One should only invest in adding capacity when specific customers or communities who
 require the capacity now are prepared to pay for it.
- Where a local community asks for it, Hydro One should proactively build additional capacity to help enable economic and community growth based on a forecast of the area's future requirements, even if these investments increase my monthly electricity bill by about 50 cents each year.
- Don't know

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ENABLING ECONOMIC GROWTH

Customers are divided over additional spending on building capacity to enable economic growth.



How to implement what customers want:

 We will continue to engage with communities to identify <u>investment</u> <u>opportunities to support economic</u> <u>development in Ontario</u> and will use a rigorous process to consider whether and when to proactively invest in this area

- Capacity upgrades
- System Enhancements
- New Facilities



KEEPING HYDRO ONE'S BUSINESS RUNNING

Which of the following statements best represents your point of view?

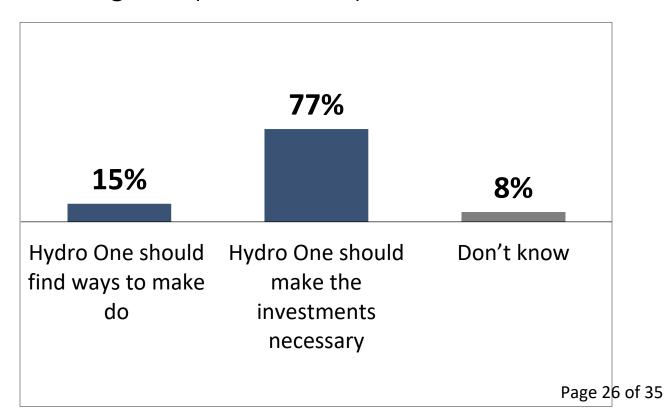
- Hydro One should find ways to make do with the facilities, equipment, vehicles and IT and computer systems it already has and only replace the equipment with the most urgent needs, even if that means increasing risk to safety, reliability, and security.
- Hydro One should make the investments necessary to ensure its staff will have access to equipment of the same standard as similar sized businesses.
- Don't know

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KEEPING HYDRO ONE'S BUSINESS RUNNING

Most customers want Hydro One to make investments necessary to keep the business running safely and reliably.



How to implement what customers want:

 We will improve operations, enhance efficiency, and reduce administrative efforts through <u>cost-effective and</u> <u>necessary investments in facilities</u>, digital tools and technology.

- Facilities
- Technology
- Fleet
- Security





TX INVESTMENT TRADE-OFFS



KEEPING PACE WITH DETERIORATING TX INFRASTRUCTURE

Which of the following statements best represents your point of view regarding Hydro One's approach to dealing with aging infrastructure?

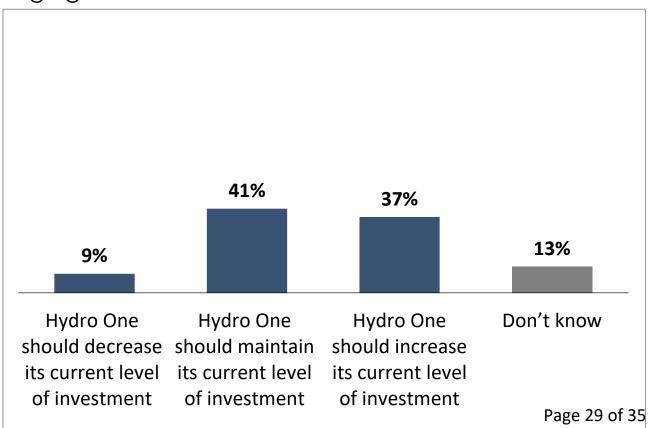
- Hydro One should decrease its current level of investment and slow down the pace at which it replaces aging equipment to keep annual rate increases for new equipment at less than 50 cents on my monthly bill, even if that means steeper rate increases in the future.
- Hydro One should maintain its current level of investment and replace equipment at the same pace to keep annual rate increases for new equipment at slightly more than 50 cents on my monthly bill, even if that means rates will continue to increase at that level in the future.
- Hydro One should increase its current level of investment in the transmission system to keep pace with aging infrastructure, even if that means annual rate increases for new equipment under a dollar on my monthly bill and lower rate increases in the future.
- Don't know

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KEEPING PACE WITH DETERIORATING TX INFRASTRUCTURE

A clear majority of customers want to either maintain or increase the current level of investment to replace aging transmission infrastructure.



How to implement what customers want:

 As the grid ages and condition deteriorates, it is critical that we ensure renewal spending is prudent and efficient for customers and communities, we will maintain and enhance our focus on deteriorated and at risk assets.

Customers expect us to be prudent with our investments, and we will cautiously assess renewal and reinvestment opportunities.

- Condition based re-investment / renewal
- Data and analytics



INVESTING IN A MORE RELIABLE TRANSMISSION SYSTEM

Which of the following statements best represents your point of view?

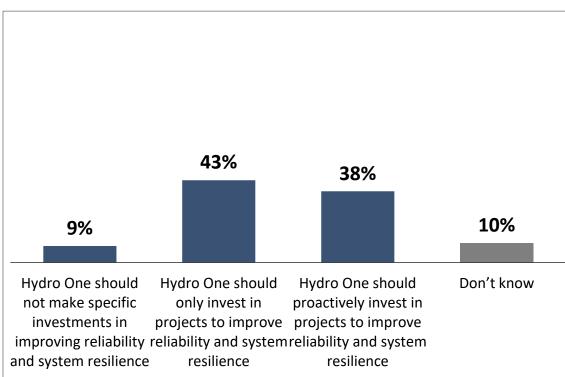
- In order to keep rates down, Hydro One should not make specific investments in improving reliability and system resilience, even if that could leave some customers worse off than others, and result in more and longer outages during severe weather.
- Hydro One should only invest in projects to improve reliability and system resilience as part of the ongoing replacement of old or failing equipment, even if that increases my monthly electricity bill by less than 25 cents each year.
- Hydro One should proactively invest in projects to improve reliability and system resilience, even if that increases my monthly electricity bill by a little more than 25 cents each year.
- Don't know

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INVESTING IN A MORE RELIABLE TRANSMISSION SYSTEM

Most customers want investments in a more reliable transmission system, either as part of ongoing renewal or as proactive investments.



How to implement what customers want:

 We must prepare for the reliable grid of the future by designing and implementing solutions and functionality to <u>prevent</u>, <u>minimize and restore service</u> <u>following outages</u>. Customers expect us to be prudent with our investments, and we will cautiously assess renewal and reinvestment opportunities.

Potential examples:

- Accelerated 115kV Vegetation Control
- Outliers
- Non-wires alternatives (local generation)
- Standards (Hardening)
- Reconfiguration (Twinning /second supply, undergrounding, in-line switches, mobile transformer connections)
- Spares
- Distance to fault
- Data and analytics

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REDUCING THE NUMBER OF MOMENTARY OUTAGES

Which of the following statements best represents your point of view?

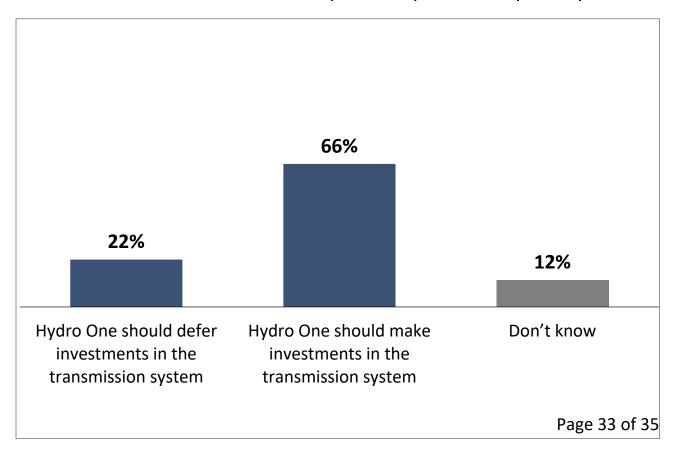
- Hydro One should defer investments in the transmission system aimed at improving power quality to keep costs down, even if that creates problems for manufacturers.
- Hydro One should make investments in the transmission system aimed at improving power quality, even if that increases my monthly electricity bill by a few cents each year.
- Don't know

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REDUCING THE NUMBER OF MOMENTARY OUTAGES

The majority of customers want Hydro One to make investments to improve power quality.



How to implement what customers want:

 We will monitor, mitigate and respond to PQ concerns

- Installation of capacitor switchers
- Installation of PQ monitors
- PQ monitoring and reporting

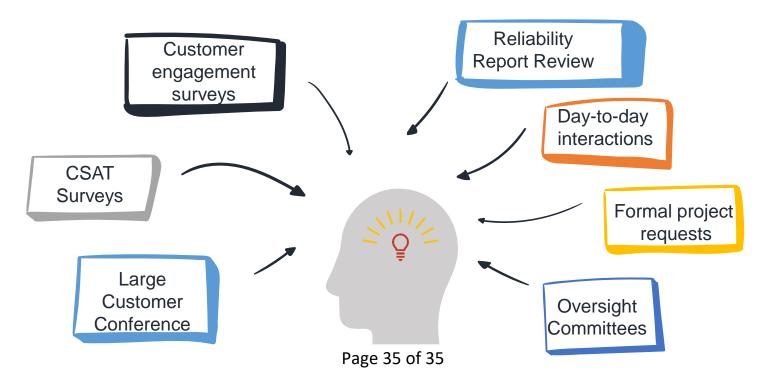




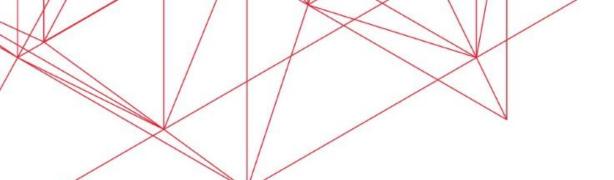
TX - LARGE CUSTOMER INSIGHTS

ONGOING CUSTOMER ENGAGEMENT

Dedicated Account Executives for Large Transmission and Distribution end-users, Local Distribution Companies and Large Generators gather ongoing feedback.





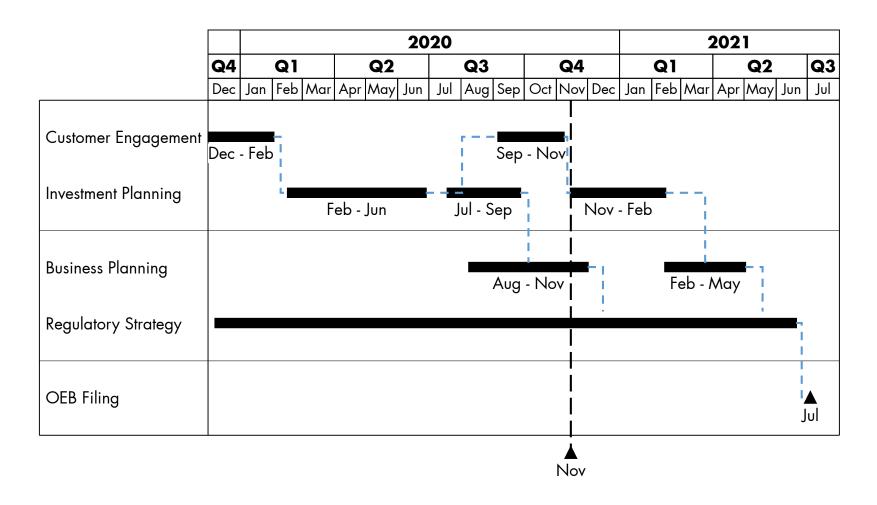




SAFETY MOMENT | CUSTOMER MOMENT



JOINT RATE FILING APPLICATION



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JOINT RATE FILING APPLICATION

Components of an Application

Business Plan

Customer Engagement

Planning (T/D/C System Plan)

Outcomes

Performance
Metrics /
Scorecards

Electricity
Distributor
Scorecard

Performance Benchmarking

Rate Design

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CUSTOMER ENGAGEMENT

PHASE I: Customer Needs and Preferences (September 2019 – January 2020)

Objective: Provide planners and application architects with a summary of customer needs, preferences, and high-level priorities between utility investment and cost.

Activities: Hydro One reached out to a subset of its Dx and Tx customers through a wide range of activities, including: Focus groups, One-on-one interviews, Telephone surveys, Online workbooks

PHASE II: Trade-offs and Refinement (August – November 2020)

Objective: Collect customer input on trade-offs to refine draft investment plans before submitting rate application to OEB.

Activities: Hydro One reached out to all of its Dx and direct Tx customers, using an online workbook as the core tool for collecting customer feedback on its draft plan



CUSTOMER FEEDBACK (PHASE II)

In total, **more than 43,000 customers** completed an online workbook—the core tool to gather customer feedback on Hydro One's draft investment plan. The workbook was tailored for different customer types.

Dx Customers	Sample size
Residential	N=40,283
Small business	N=1,121
C&I / LDA	N=218

Tx Customers	Sample size
Residential	N=41,543
Small business	N=1,533
C&I / LDA	N=218
LTX	N=51

Page 6 of 27



INVESTMENT PLANNING

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- Identify customer priorities
- Late 2019/early 2020 (Complete)

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- Use customer feedback to guide development of the plan/scenarios
- Early/mid 2020 (Complete)

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- Collect customer feedback on draft plan/scenarios
- September / October 2020 (Complete)

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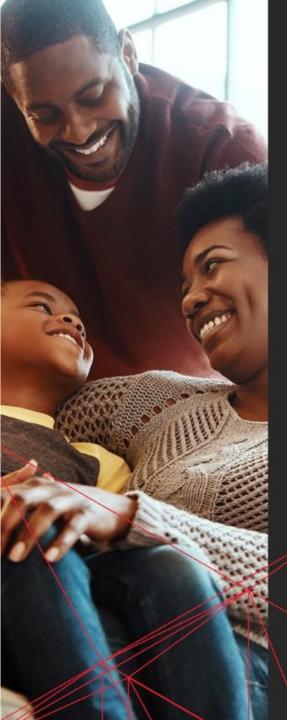
- Revise investment plan based on customer feedback
- Late 2020/early 2021 (Pending)

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- Submit the plan to the OEB
- Mid 2021 (Pending)

Customer Needs and Preferences validated during Phase 2 should inform the refinement of the Final Investment Plan, with a clear line of sight from customer preference to planning outcomes, based on specific trade-offs.

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CUSTOMER ENGAGEMENT

Support for Hydro One's Draft Investment Plan



SUPPORT FOR HYDRO ONE'S DRAFT PLAN

The majority of customers prefer a spending level at the draft plan (Scenario 2) or above.

- Residential customers are most willing to opt for an accelerated pace (49%) over the draft plan (29%).
- A plurality of small business customers also prefers and accelerated pace (43%) over the draft plan (28%).
- C&I and LDA customers are split between the draft plan (30%) and an accelerated pace (33%).
- LTX customers mainly prefer the draft plan (59%) over an accelerated pace (18%).

	Supported Bill Increases		
Customer Type	Above draft plan	Included in draft plan	Below draft plan
Residential	49%	29%	12%
Small business (GS<50kW)	43%	28%	17%
C&I / LDA	33%	30%	18%
LTX	18% e 9 of 27	59%	8%





DX INVESTMENT TRADE-OFFS



REPLACING POLES IN POOR CONDITION

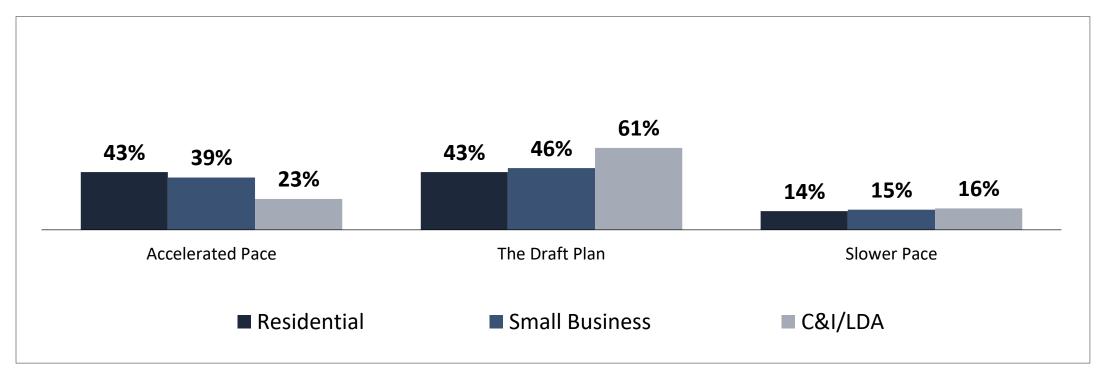
Option	Poles Replaced	Expected Outcome
Accelerated Pace	100,000 total over 5 years	Replace all poles in poor condition that serve more than 30 customers . This plan would not address smaller poles in poor condition but improve the overall health of poles and lead to steadier rate increases in the future.
The Draft Plan	65,000 total over 5 years	Replace all poles in poor condition that serve at least 100 customers . This plan would not address smaller poles in poor condition but maintain the overall health of poles and lead to steadier rate increases in the future.
Slower Pace	32,500 total over 5 years	Slow down the proposed pole replacement program and focus on larger poles that serve more than 400 customers . This plan would not address smaller poles in poor condition and lead to major deterioration of the overall health of poles, and steeper rate increases in the future.

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REPLACING POLES IN POOR CONDITION

Across all customer types, the draft plan is the preferred option. The share of customers preferring an accelerated pace over a slower pace is substantially larger.



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REPLACING POWER TRANSFORMERS IN POOR CONDITION

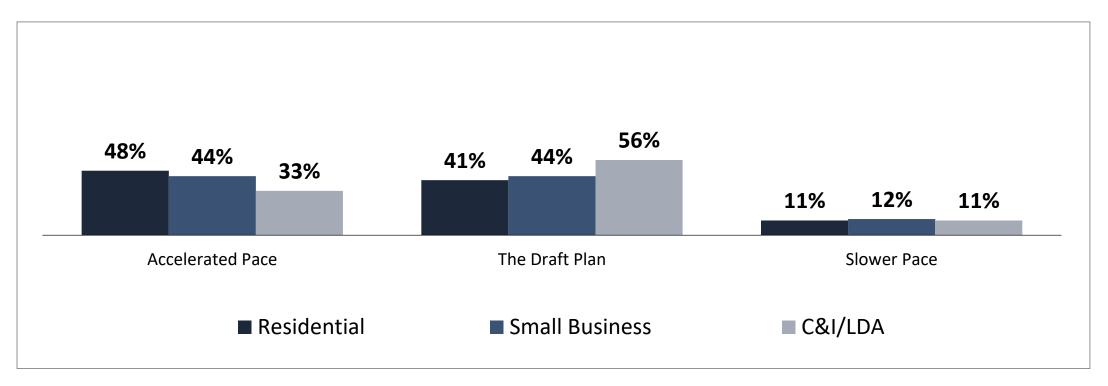
Option	Transformers Replaced	Expected Outcome
Accelerated Pace	130 total over 5 years	Increase the number of planned replacements to 26 per year. This will maintain the overall health of the transformers and lead to steadier rate increases in the future.
The Draft Plan	110 total over 5 years	Continue the current approach and proactively replace 22 transformers per year. This will lead to slight deterioration of the overall health of the transformers.
Slower Pace	50 total over 5 years	Slow down the proposed replacement program to 10 planned replacements per year. This will lead to a higher risk of outages due to transformer failures, major deterioration of the overall health of the transformers, and steeper rate increases in the future.

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REPLACING POWER TRANSFORMERS IN POOR CONDITION

Residential customers tend to favour an accelerated pace, while business customers lean towards the draft plan.





IMPROVING RELIABILITY THROUGH GRID MODERNIZATION

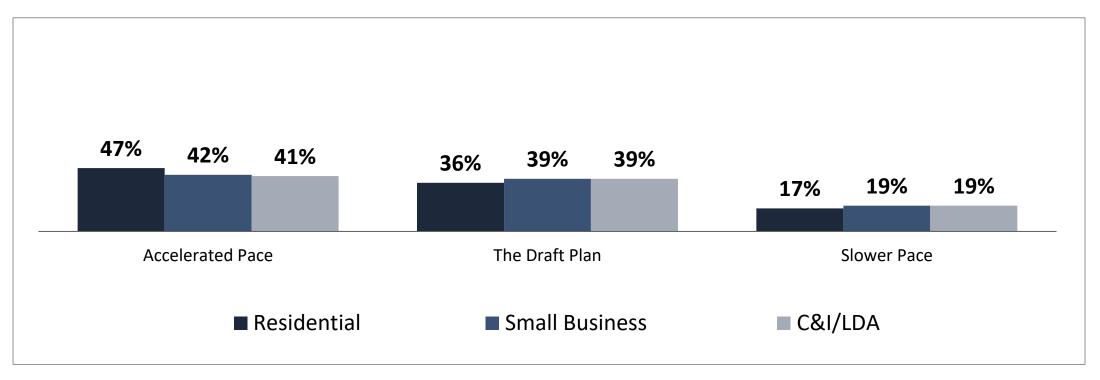
Option	Devices	Expected Outcome
Accelerated Pace	5,000 smart devices over 5 years	Over 600,000 customers would see a 40% average reduction in the duration of power outages per year.
The Draft Plan	4,300 smart devices over 5 years	Over 400,000 customers would see a 40% average reduction in the duration of power outages per year.
Slower Pace	3,900 smart devices over 5 years	Over 200,000 customers would see a 40% average reduction in the duration of power outages per year.

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IMPROVING RELIABILITY THROUGH GRID MODERNIZATION

Across all customer types, the accelerated pace is the preferred option.





BATTERY ENERGY STORAGE SOLUTIONS

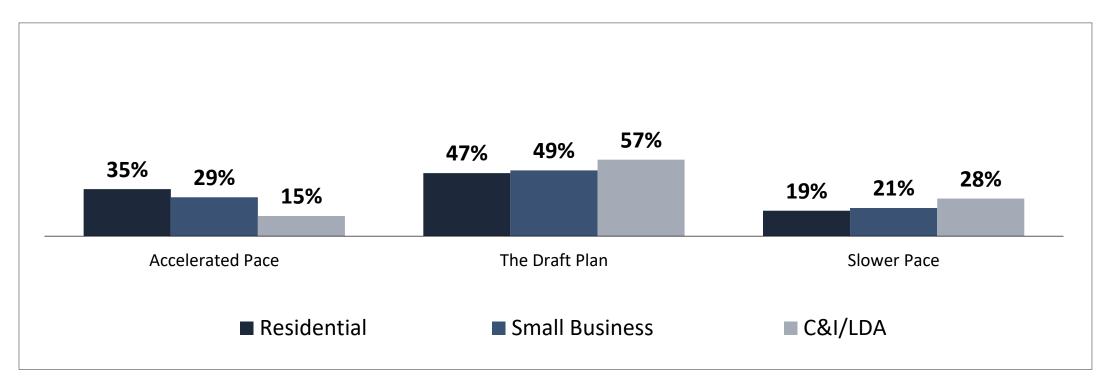
Option	Expected Outcome	
Accelerated Pace	Significant reliability improvements for 8,500 customers currently experiencing extremely poor reliability.	
The Draft Plan	Significant reliability improvements for 4,100 customers currently experiencing extremely poor reliability.	
Slower Pace	Significant reliability improvements for 500 customers currently experiencing extremely poor reliability.	

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BATTERY ENERGY STORAGE SOLUTIONS

There is a clear preference for the draft plan, with less appetite for an accelerated pace than in previous investment choices—especially among larger business customers.



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FACILITATING GROWTH

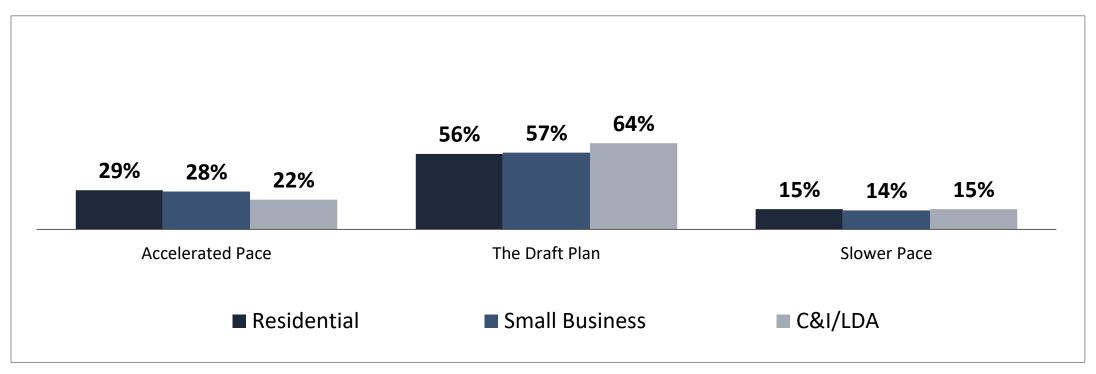
Option	Expected Outcome
Accelerated Pace	Enable regional and economic development in communities looking to grow, including in rural areas, and maintaining reliability and power quality for existing customers. Attracting new business will increase demand and that will spread the costs out in the long term, but in the short term some costs will be shared across all Hydro One customers.
The Draft Plan	Allow new economic development to proceed as planned, including in rural areas, and maintain reliability and power quality for existing customers.
Slower Pace	Keep the costs for customers down, but potentially delay community growth and economic development, especially in rural areas, and negatively affect reliability and power quality for existing customers in the long run.

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FACILITATING GROWTH

A majority of customers across all segments prefers the draft plan over an accelerated or slower pace.



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REPLACING SMART METERS

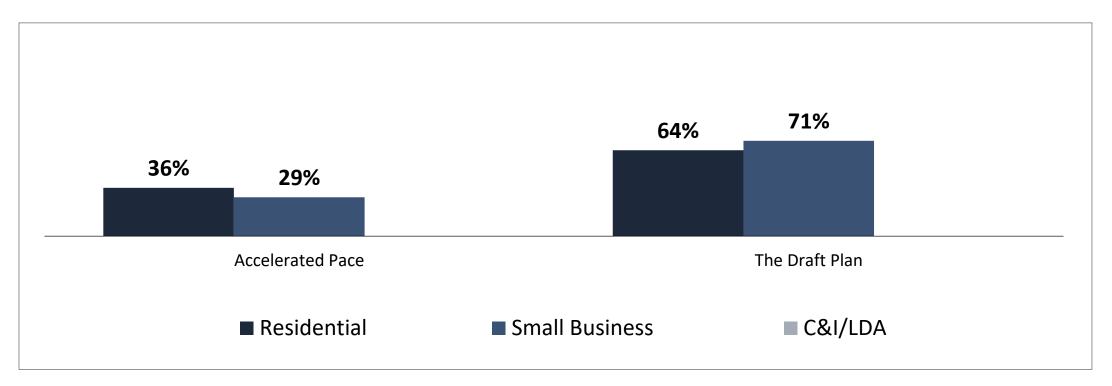
Option	Expected Outcome	
Accelerated Pace	Replace all meters over a 5-year period , meaning the entire system will be updated to the new standard sooner and the rate of failing meters will go down faster, compared to the draft plan. The costs for customers will be higher in the short term, but will be lower overall, as fewer replacements and maintenance costs will be required to keep up the old system.	
The Draft Plan	Replace all meters over a 7-year period , meaning it will take longer to update the entire system to the new standard, while Hydro One spends money maintaining the old system. The costs for customers would be spread over a longer period, leading to lower costs in the short term, as more of this investment will be pushed into the future, but higher costs overall due to the need to maintain the current system while transitioning to the new one.	

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REPLACING SMART METERS

Both residential and small business customers have a clear preference for the draft plan.



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TX INVESTMENT TRADE-OFFS



REPLACING TRANSMISSION LINES IN POOR CONDITION

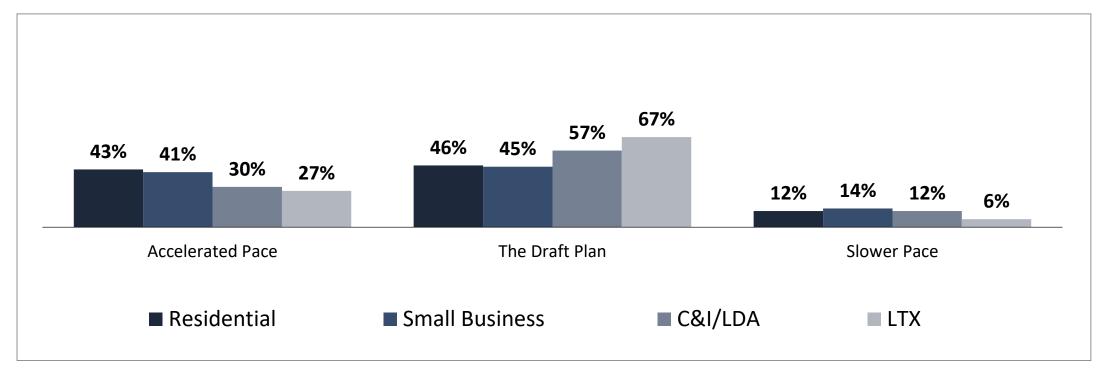
Option	Lines Replaced	Expected Outcome
Accelerated Pace	1,790 km over 5 years, including 460 km of single supply lines	Replace 51% of lines (conductors) in poor condition to moderately improve current level of safety and overall health of transmission lines, and keep rate increases steadier in the future.
The Draft Plan	1,470 km over 5 years, including 455 km of single supply lines	Replace 42% of lines (conductors) in poor condition to maintain current level of safety and overall health of transmission lines, and keep rate increases steadier in the future.
Slower Pace	1,375 km over 5 years, including 375 km of single supply lines	Replace 39% of lines (conductors) in poor condition and slightly lower current level of safety and reliability performance. Need for additional investment later on will likely lead to steeper rate increases in the future.

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REPLACING TRANSMISSION LINES IN POOR CONDITION

Across all customer types, the draft plan is the preferred option. Residential and small business customers show a greater interest in the accelerated pace than larger business customers.



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REPLACING AGING TRANSMISSION STATIONS

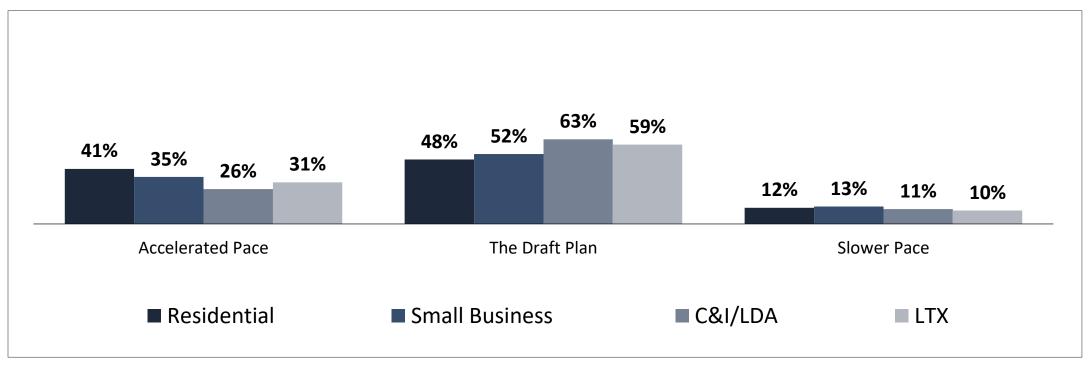
Option	Equipment Replaced	Expected Outcome
Accelerated Pace	30 transformers and related equipment per year; 150 in total	Improve the overall health of the transmission stations infrastructure and reduce the risk of equipment failure, keeping future rate increases at a steadier rate.
The Draft Plan	25 transformers and related equipment per year; 125 in total	Maintain the overall health of the transmission stations infrastructure and sustain current performance and environmental risk, keeping future rate increases at a steadier rate.
Slower Pace	20 transformers and related equipment per year; 100 in total	Focus on replacing only the most critical infrastructure now. This increases performance and environmental risks and creates the need for additional investment later on, leading to steeper rate increases in the future.

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REPLACING AGING TRANSMISSION STATIONS

Across all customer types, the draft plan is the preferred option.



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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-008 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 008

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Reference:

4 No reference provided

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Interrogatory:

After the Board made certain disallowances to the proposed 2020-2022 transmission capital and OM&A budgets in its Decision and Order in EB-2019-0082, please explain how Hydro One modified its capital and OM&A plans to account for the revised amounts approved by the Board. In your response, please not only explain the specific modifications made, but a detailed explanation of the process taken to come to its revised plans. Please also provide a copy of contemporaneous documents outlining the modification to its plans.

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Response:

<u>Capital</u>

Hydro One incorporated the capital spending reductions resulting from the OEB's Decision in EB-2019-0082 by using its risk-based investment prioritization and optimization process to identify work that could be deferred within the 2020-2022 period. The OEB disallowed \$400M of capital expenditures, excluding adjustments and reclassification of OPEB costs.

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24 25 The following documents describe how Hydro One incorporated the capital reductions directed in the OEB's Decision and Order in EB-2019-0082:

- Hydro One's Draft Rate Order dated May 28, 2020 (EB-2019-0082)
 - Section 3: Capital Reductions
- Hydro One's Draft Rate Order Reply Submission dated June 25, 2020 (EB-2019-0082)
 - Section 2: Capital Reductions

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<u>OM&</u>A

Hydro One considered the structure of, and feedback within the OEB's decision, explored opportunities for enhanced efficiencies across field operations and corporate groups, as well as modifications to maintenance cycles to align overall OM&A with OEB's approved levels, as required. Please refer to Interrogatory Response E-CCC-023 for further details on the measures Hydro One took to manage the OEB reduction, including an analysis against actual results.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-008 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-009 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 009

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Reference:

4 No reference provided

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Interrogatory:

After the Board made certain disallowances to the proposed 2018-2022 distribution capital and OM&A budgets in its Decision and Order in EB-2017-0049, please explain how Hydro One modified its capital and OM&A plans to account for the revised amounts approved by the Board. In your response, please not only explain the specific modifications made, but a detailed explanation of the process taken to come to its revised plans. Please also provide a copy of contemporaneous documents outlining the modification to its plans.

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Response:

The following documents describe how Hydro One incorporated the capital and OM&A reductions directed in the OEB's Decision and Order in EB-2017-0049:

- Hydro One's Draft Rate Order dated April 5, 2019 (EB-2017-0049)¹
 - Section 3: Capital Reductions
 - Section 4: OM&A
- Hydro One's Draft Rate Order Reply Submission dated May 9, 2019 (EB-2017-0049)²
 - Section 2: Capital Reductions
- Hydro One's Revised Capital Investment Plan (2018-2022), filed as part of Hydro One's 2020 Annual Update (EB-2019-0043)³
- See E-CCC-028 for information on Hydro One's OM&A reductions. In general, in implementing OM&A reductions, Hydro One considered the OEB's findings and accordingly identified efficiencies in field operations and corporate groups, and modified maintenance cycles to align its OM&A budget to OEB-approved levels.

¹ https://www.rds.oeb.ca/CMWebDrawer/Record/638926/File/document

² https://www.rds.oeb.ca/CMWebDrawer/Record/641430/File/document

³ https://www.rds.oeb.ca/CMWebDrawer/Record/651252/File/document

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-009 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-010 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 010

123

Reference:

4 Exhibit A-4-1, Page 6

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6 **Interrogatory:**

- 7 In which application does Hydro One expect each of the Distribution CISVA and Transmission
- 8 CISVA account balances to be examined and cleared?

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10 Response:

- In the current Application, 2020 audited balances are presented for disposition. In the event
- that the OEB allows a blue-page update, Hydro One will reflect the 2021 audited balances once
- they become available.

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- 15 Hydro One will present any accumulated CISVA balances since those that are approved for
- disposition in the current Application at the next rebasing at which point they will be reviewed
- for prudence, as applicable.

Witness: VETSIS Stephen, CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-010 Page 2 of 2

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Witness: VETSIS Stephen, CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-011 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 011

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Reference:

4 Exhibit A-4-1, Page 2

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Interrogatory:

Please confirm that the Hydro One proposes to use the Inflation Factor determined by the Board in EB-2021-0212 if it is different from the inflation factor proposed in the Application.

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10 **Response:**

- 11 Hydro One notes that the EB-2021-0212 proceeding determined the inflation factor for the
- purposes of setting 2022 rates only. At the time of the draft rate order in this proceeding, Hydro
- One will update the Inflation Factor assumptions to reflect the most recently issued factors issued
- by the OEB. In subsequent years, the Inflation Factor will be updated annually to reflect the latest
- values issued by the OEB as described in Exhibit A-4-1.

Witness: VETSIS Stephen

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-011 Page 2 of 2

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Witness: VETSIS Stephen

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-012 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 012

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Reference:

4 Exhibit A-4-1, Page 4

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Interrogatory:

Please explain why Hydro One proposes to clear the ESM deferral account only once, at the time of rebasing, rather than annually, or simply in accordance with the Board's standard rules for deferral account dispositions.

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Response:

- The current proposal as outlined in Exhibit A-04-01 to dispose of the ESM deferral account balances at the next rebasing application (which will accumulate over the 2023-2027 period) is
- consistent with the OEB's guidance in respect of the disposition of Group 2 Accounts.¹

Witness: VETSIS Stephen, CHHELAVDA Samir

¹ Section 3.4 of the OEB's Chapter 3 Filing Requirements dated June 24, 2021

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-012 Page 2 of 2

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Witness: VETSIS Stephen, CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-013 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 013

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Reference:

4 Exhibit A-4-1, Page 6

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Interrogatory:

Please describe the methods the Hydro One proposes to use to measure and verify the amount of productivity gains related to in-service additions.

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Response:

Hydro One will use the existing Productivity Framework to validate productivity achievements. Specifically, and as outlined on Page 2 of SPF Section 1.4, the Productivity Framework is the process for:

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i. identifying and developing productivity initiatives (which are internally approved as the initiatives qualify for the program);

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ii. approving the initiative-level methodologies by which savings are to be measured;

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iii. the on-going tracking, reporting and auditing of performance; and

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iv. integrating savings into the business plan.

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Within part (iii) above of the process, Hydro One would verify the impact to in-service additions from capital based productivity. This exercise will occur if Hydro One under in-services relative to OEB approved levels, triggering a potential entry to the CISVA. Hydro One would then assess the cost underage relative to capital based productivity. This would be executed by initiative, with a view of how much in-service was reduced due to the capital-based productivity. Any capital productivity that does not translate to an in-service reduction would be excluded from the analysis. For example, if the capital savings related to a long-term project with a future period of in-service, it would be excluded.

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Hydro One further notes that if an entry is required to the CISVA, any future balance requested for disposition would be an audited balance.

Witness: VETSIS Stephen, CHHELAVDA Samir, JODOIN Joel

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-013 Page 2 of 2

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Witness: VETSIS Stephen, CHHELAVDA Samir, JODOIN Joel

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-014 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 014

Reference:

4 Exhibit A-4-1, Attachment 1, Page 5

Interrogatory:

Please explain why Clearspring was engaged "through counsel", rather than directly by Hydro One. Please provide a detailed description of the differences, if any, in those two approaches relative to:

a) The obligations of the expert firm and the individual witnesses to Hydro One, to the Board, and to counsel.

b) The ability of the parties to the proceeding to ask questions of the expert witness, and receive full and complete answers.

c) The documents or categories of documents that would be subject to any kind of confidentiality or privilege, including but not limited to proposals, communications, edits, presentations, and all other documents or tangible work product.

d) Communications between the expert and Hydro One personnel.

e) Instructions and direction by the Applicant to the expert, including determination of the scope of the engagement, and any changes to that scope, editorial advice and commentary relating to the written report, and any other instructions or direction.

Response:

Clearspring was engaged as an expert consultant by counsel in connection with providing legal advice regarding the preparation of Hydro One's pre-filed evidence and supporting expert report filed by Hydro One as part of discharging its legal burden of proof that the rates sought in the Application are just and reasonable. Clearspring is an independent expert. Its report has been filed in evidence and is subject to the requirements of rule 13A.03, including the provision of the acknowledgment of expert duty. Intervenors are entitled to ask interrogatories, conduct examination on the expert's report and make submissions to the extent relevant. That is the case regardless of whether counsel or the applicant directly retained the expert. Other questions in respect of the process of engaging the expert are not relevant to the setting of rates or the matters at issue in this proceeding.

Witness: VETSIS Stephen

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-014 Page 2 of 2

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Witness: VETSIS Stephen

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-015 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 015

Reference:

4 Exhibit A-4-1, Attachment 1, Page 6 and 29

Interrogatory:

Please confirm that Hydro One's transmission TFP is moving in an unfavourable direction relative to the benchmark used by the expert. Please quantify in dollars the increase in Hydro One's costs from 2003 to 2027 (-64.8% to -30.9%) relative to the benchmark.

Response:

Response from Clearspring

We do not agree with the characterization "unfavourable". The movement from -64.8% to -30.9% has offered Ontario ratepayers a very substantial amount of cost savings both in the past and throughout the CIR period. Hydro One remains ranked #2 in the entire transmission sample of 50 utilities, even throughout the CIR period.

There are two points that may be useful when considering this characterization.

• It would be unrealistic to expect a utility to be able to continually have costs at such a low level relative to its peers, and it does not mean it is performing relatively "unfavourably" when it cannot sustain in the long-run this unrealistic level of beating its competition. Keep in mind that maintaining the score of -64.8% would require Hydro One to continually beat its peers by an average of 64.8% every year. If it only beat its peers by 20% in one year, its average costs would decline but that would still be a favourable result relative to the benchmark.

An analogy may be helpful here. In 1993, John Olerud played first base for the Toronto Blue Jays and had a league-leading .363 batting average. The next year, he hit .297 for the Blue Jays. Over these two seasons his batting average was a robust .336. During this time the league batting average mean was .267 for all players. In 1993, John Olerud beat that league average benchmark by .096 (9.6%) but if you combine 1993 and 1994 he only beat the benchmark by a combined 6.9%. As his performance reverted more towards the mean, his overall amount above the benchmark diminished even while continuing to beat the benchmark in any given year, just not as much as he did in that league-leading 1993 year. Did John Olerud really have an unfavourable performance for the Blue Jays in 1994?

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-015 Page 2 of 2

No. The only reason someone might come to that conclusion is if the benchmark was his 1993 stellar performance rather than a benchmark of his peers.

• A large portion of total costs are capital costs. Capital costs and the rate base are built up over several years through plant additions. We would expect that a utility who has total costs at the very low levels that Hydro One had at the start of the period could not continue to keep plant additions and overall costs 60% below its peers. At some point, increased capital expenditures would be expected to bring the utility towards the benchmark value. We see this occurring with Hydro One, although even at the end of the CIR period, its total costs are still well below the benchmark values, and it is still maintaining its #2 ranking in the entire sample. We also see that the Company's older-than-average transmission capital age is being maintained at its current older-than-average levels throughout the CIR plan.

We would, therefore, characterize all of this as quite favourable to Ontario ratepayers. We are not able to provide a quantification of dollars resulting from the benchmark exercise. There are several normalizations and calculations that enable a fair and accurate comparative study, but do not directly translate to revenue requirement dollars.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-016 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 016

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Reference:

4 Exhibit A-4-1, Attachment 1, Page 7

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Interrogatory:

Please explain why the transmission industry TFP trend in the U.S. is declining since 2000. Please provide evidence that the TFP trend for transmission in Canada is also declining, and if so a) at what rate, and b) for what reasons.

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Response:

Response from Clearspring

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Please see p. 54 and 55 of the Clearspring Report regarding possible explanations for the negative TFP trend in the U.S. These possible explanations include: 1) the increasing of unmeasured outputs (reliability, cybersecurity, safety, regulatory requirements, generation interconnections from solar/wind, environmental stewardship, geomagnetic disturbances, and other aspects of power quality and security); 2) Slowing growth in electricity demand; 3) Changes in the age of infrastructure.

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Canadian transmission utilities provide services that are largely similar to their U.S. peers. Many Canadian utilities trade power in the U.S. and abide by an array of regulations that originated in the U.S. The increasing challenges faced by U.S. utilities (listed above) are for the most part also faced by Canadian utilities. Most Canadian utilities are members of regional reliability councils and interconnections. The most likely scenario is that the Canadian transmission TFP is following the clearly negative trend found in the U.S. sector for the reasons cited above.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-016 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-017 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 017

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Reference:

4 Exhibit A-4-1, Attachment 1, Page 8

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6 **Interrogatory:**

Please confirm that Hydro One's distribution TFP is moving in an unfavourable direction relative to the benchmark used by the expert. Please quantify in dollars the increase in Hydro One's costs from 2003 to 2027 (-24.4% to +10.3%) relative to the benchmark.

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Response:

Response from Clearspring

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Please see our response to A-SEC-15. Hydro One's distribution total cost score in 2003 is at -24.4%, which is a strong score relative to the total cost score benchmark, although not quite as good as the transmission score. However, this may be due to the reasons and differences between benchmarking Hydro One's transmission and distribution operations cited in the Clearspring Report on p. 38 and 39.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-017 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-018 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 018

Reference:

Exhibit A-4-1, Attachment 1, Page 14

Interrogatory:

Please provide details of all modelling done to assess the impact of the selection of sample period on the benchmark TFP trend. Please confirm that, for transmission, the effect of starting in 2000 rather than 1995 or 1990 is expected to be that the period of increasing productivity in the period prior to 2000 is left out of the model. Please provide graphs, in the same format as Figures 1 and 4, using 1995 as the base year rather than 2000.

Response:

Response from Clearspring

Modeling was not conducted, nor was it needed, to determine that the sample period should begin after the 1990s. The sample period was dictated by the industry restructuring that occurred, and the clearly different cost challenges that existed then compared to now. Beginning the TFP sample period in 2000 and going through 2019 offers a long period to measure the industry productivity trend. This is a more than sufficient period on which to base the productivity factor. Please see pp. 9 and 10 in the Clearspring Report for a detailed discussion on why we began the TFP and benchmarking sample period in 2000, and how we made it consistent across both the transmission and distribution studies.

In the prior transmission application of Hydro One, PEG did begin its transmission benchmarking study in 1995. In our Reply Report in that application, we illustrated the skewed results towards a higher cost performance evaluation this created for all utilities in the sample (when benchmarking recent or projected observations). In our Reply Report, we did offer a relatively simple fix if PEG wanted to begin the sample period in 1995 (even though we would still recommend against this route because of the industry restructuring issue). This fix consists of including one extra variable; PEG itself appeared open to including this extra variable in prior testimony (this testimony was cited in the Reply Report).

Below is a revised Figure 1 that has a sample period beginning in 1995 and includes a quadratic trend variable to avoid skewed and unfair scores. We do note that even without this quadratic trend variable, but beginning the sample in 1995, Hydro One would still have a ranking of #2 in the entire sample for its most recent historical time period.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-018 Page 2 of 2

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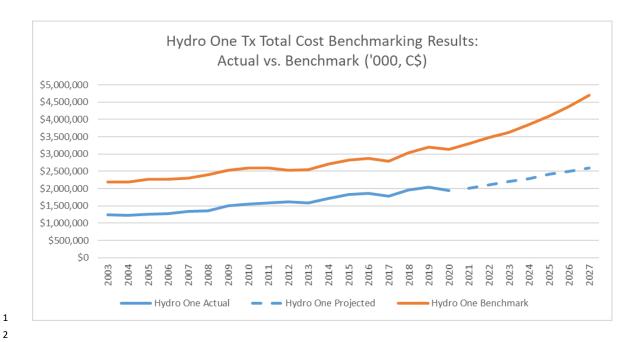
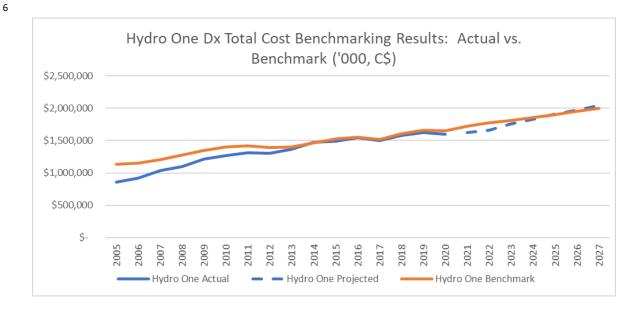


Figure 4 uses a sample period beginning in 1995, and for the sake of consistency and due to the longer time period, we also included the same quadratic trend variable as we did for the revised Figure 1 above.



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A - SCHOOL ENERGY COALITION INTERROGATORY - 019

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 16

5 6

Interrogatory:

7 Please quantify the impact of adding the new voltage variable.

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Response:

10 Response from Clearspring

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Excluding the voltage variable (the "distribution work variable"), which corrects for accounting classification differences between transmission and distribution, would result in an inferior model and less accurate result. Without this correction, differences in classifications and the amount of work that a distribution utility does on high voltages is not accounted for. Eliminating this variable in the model would create a mis-specified model with omitted variable bias and would weaken the explanatory power of the model. The adjusted R-squared value of the model is reduced by eliminating this explanatory variable from the model. Reducing the accuracy of the model in this way would raise Hydro One's distribution benchmarking score during the CIR period by 4.9%.

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-020 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 020

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Reference:

Exhibit A-4-1, Attachment 1, Page 24

5

Interrogatory:

With respect to the exclusion of pensions and benefits.

7 8 9

a) Please quantify the impact of excluding pension and benefit expenses.

10 11

b) Please provide the percentages of Hydro One's transmission operating costs and capital costs that are represented by pension and benefit expenses.

12 13 14

c) Please provide an estimate, with citations, of the percentage of operating costs and capital costs of U.S. transmission companies that are represented by pension and benefit expenses.

15 16 17

Response:

Response from Clearspring

18 19 20

a) If pensions and benefits are included in the transmission total cost definition, Hydro One's transmission benchmarking scores moves from -34.5% to -34.0% during the CIR period.

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b) In 2019, Hydro One's pension and benefit expenses are approximately 1.4% of its total costs, which include both operating and capital costs. Pension and benefit costs are approximately 9.1% of transmission OM&A costs and 1.6% of the transmission capital costs in the study.

25 26

c) From our dataset in 2019, the U.S. sample average pension and benefit expenses are approximately 1.1% of the total costs. Pension and benefit costs are approximately 5.2% of transmission OM&A expenses and 1.3% of transmission capital costs.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-020 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-021 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 021

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 24

5 6

Interrogatory:

- 7 Please describe what tests were carried out by the expert to ensure that the output data from
- 8 Hydro One was calculated on a comparable basis to FERC Form 1 data.

9

10 **Response:**

11 Response from Clearspring

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No tests were carried out. The study used the reported kilometers of transmission lines (converted from line miles in the FERC Form 1 data) and the reported system peaks. These are the same variables used by PEG in the last transmission application. We discuss the merits of the two possible peak demand data sources on p. 13 of the Clearspring Report. Transmission line lengths and peak demand values are relatively straightforward to report and it's not clear to us what tests could be undertaken or why they would be necessary.

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-022 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 022

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 27

5 6

Interrogatory:

Canadian transmission utilities regularly file public information with their regulators. Please explain why this information could not be used to include Canadian electricity transmitters in the benchmarking sample. Please explain why the expert made no direct efforts (other than through Hydro One) to obtain reliable Canadian information.

11

Response:

13 Response from Clearspring

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To our knowledge, there are no Canadian transmission utilities that publicly file data that would enable us to consistently calculate cost levels, including capital costs which require a long time series on plant additions, and all variables within the model.

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In the last transmission application for Hydro One, we directly contacted Canadian transmitters. No utilities agreed to provide the necessary data and be included in the sample. Given this, we believed that Hydro One might have a better chance of obtaining their participation and so the Company contacted the utilities.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-022 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-023 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 023

123

Reference:

4 Exhibit A-4-1, Attachment 1, Page 32

5

Interrogatory:

Please explain why the output variable of distribution service territory was used, rather than kilometers of lines, as with transmission. Please explain how the expert adjusted for relative density of service territory between Hydro One and the comparators.

10 11

Response:

Response from Clearspring

12 13 14

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The U.S. does not have a reliable source of data on kilometers of lines for distribution utilities. Kilometers (miles) of lines are reported for U.S. transmission companies on the FERC Form 1s, but unfortunately distribution kilometers of line are not reported. Distribution kilometers of line would be a helpful variable. To compensate and to adjust for the relative density of service territory, we include the square kilometers of service territory for each observation in the distribution model. We treated the variable as an output variable and included second order terms. As PEG itself noted in its most recent Hydro Ottawa report in EB-2019-0261 on p. 40: "The area of the service territory is a legitimate candidate for treatment as an output variable with a full complement of second order terms (e.g., area x area and area x customers). This can capture the cost impact of high and low customer density." We agree with PEG's statement and continued its approach in this application.

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-024 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 024

123

Reference:

4 Exhibit A-4-1, Attachment 1, Page 34

5 6

Interrogatory:

With respect to the decision to exclude of pensions and benefits expenses:

7 8 9

a) Please quantify the impact of excluding pension and benefit expenses.

10 11

b) Please provide the percentages of Hydro One's distribution operating costs and capital costs that are represented by pension and benefit expenses.

12 13 14

c) Please provide an estimate, with citations, of the percentage of operating costs and capital costs of U.S. distribution companies that are represented by pension and benefit expenses.

151617

Response:

Response from Clearspring

18 19 20

a) Hydro One's performance score slightly improves from 7.0% to 6.2% in the CIR period when pensions and benefit expenses are included in the total cost definition for distribution.

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b) In 2019, Hydro One's pension and benefit expenses are approximately 2.7% of its total costs, which include both operating and capital costs. Pension and benefit costs are approximately 9.0% of distribution OM&A costs and 3.9% of the distribution capital costs in the study.

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c) From our dataset in 2019, the U.S. sample average pension and benefit expenses are approximately 1.7% of the total costs. Pension and benefit costs are approximately 6.1% of distribution OM&A costs and 2.5% of capital costs.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-024 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-025 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 025

123

Reference:

4 Exhibit A-4-1, Attachment 1, Page 34

5 6

Interrogatory:

With respect to the decision to exclude CSI expenses:

7 8 9

a) Please quantify the impact of excluding CSI expenses.

10 11

b) Please provide the percentages of Hydro One's distribution operating costs and capital costs that are represented by CSI expenses.

12 13 14

c) Please provide an estimate, with citations, of the percentage of operating costs and capital costs of U.S. distribution companies that are represented by CSI expenses.

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Response:

Response from Clearspring

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a) If CSI expenses were added back in for all the sampled utilities including HONI, the benchmark results for the Company would improve to -9.7% during the CIR period. This would continue to indicate a 0.3% stretch factor for distribution, although the result would be near the threshold for a 0.15% stretch factor. The approach we took resulted in the Company's benchmark score being considerably worse than it otherwise would have been if we had left CSI expenses in the cost definition. We took this approach because CSI expenses may not be consistently reported in the U.S., and some utilities may include in CSI expenses some or all of their CDM expenses, which can be sizeable. For this reason, we exclude those expenses from the cost definition in our study to assure consistency with the costs of HONI and the entire sample.

293031

b) In 2019, Hydro One's CSI expenses are approximately 0.1% of total costs. They are 0.2% of OM&A expenses and 0.1% of capital costs.

323334

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c) In 2019, the U.S. sample average has CSI expenses that are 6.4% of total costs. CSI expenses are 18.4% of the sample's OM&A expenses and 9.9% of capital costs.

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-026 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 026

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Reference:

4 Exhibit A-4-1, Attachment 1, Page 35

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Interrogatory:

Please confirm that the capital costs of overhead lines are typically lower than underground lines, but that the operating costs associated with overhead lines are typically higher. Please describe the overlap, if any, between the overheadxforestation variable and the congested urban variable, and what steps the expert took to ensure that they did not double count the effects they were expressing.

101112

13 Response:

14 Response from Clearspring

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We can confirm that generally capital costs of overhead lines are typically lower than underground lines, but that the operating costs associated with overhead lines are typically higher. There is likely a correlation between the forested overhead variable and the congested urban variable. This is perfectly acceptable when estimating an econometric model; correlations between variables occur all the time (for example, number of customers and peak demands are certainly correlated). When correlation exists, it does require a larger sample for the model to estimate the appropriate parameter values for each variable at the designated confidence intervals; however, there are no "double counting" concerns if variables are correlated.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-026 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-027 Page 1 of 2

1	A - SCHOOL ENERGY COALITION INTERROGATORY - 027
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3	Reference:
4	Exhibit A-4-1, Attachment 1, Page 36
5	
6	Interrogatory:
7	Please explain why no Ontario distributors were included in the sample.
8	
9	Response:
10	Response from Clearspring
11	

Please see our response to A-Staff-009 (d).

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-027 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-028 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 028

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 38

5 6

Interrogatory:

For each of the companies in the same, please provide the compound annual growth rate of their rates for the period of the benchmarking.

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10 Response:

Response from Clearspring

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We do not have the historical rates for the distribution benchmarking sample required to do this calculation. In Clearspring's view examining the rates of companies is far less informative than examining the econometric total cost benchmark scores due to the ability of the econometric method to adjust for several variables and the standardization of costs across the total cost benchmarking sample.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-028 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-029 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 029

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 43

5 6

Interrogatory:

Please provide details of the explanatory value the expert is claiming for the combined "cost performance result" of -18.2%. Please specify what conclusions the expert believes the Board can reach based on this piece of data.

10 11

Response:

Response from Clearspring

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This value was calculated by summing the transmission and distribution benchmark costs for Hydro One from the two benchmark studies and comparing that benchmark to the actual/projected costs for Hydro One from the two studies. The result reveals that the combined total costs for the distribution and transmission operations of Hydro One are 18.2% below benchmark expectations. This result would support a conclusion that, on an overall basis, Hydro One's total cost levels are considerably lower than benchmark expectations.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-029 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-030 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 030

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 11, Page 46

5 6

Interrogatory:

7 Please provide the Hydro One data for the period 2003-2017.

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Response:

10 Response from Clearspring

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The Hydro One capital age results become more accurate and reliable the further from 2003 the observation is, as indicated in our report. Since plant addition and retirement data was not available for Hydro One prior to 2003, we used Hydro One's plant vintage schedule in 2003 as a starting point and mimicked the sample calculation from that 2003 starting point. As we stated in the report on p. 72, "The discrepancy between Hydro One and the sample benchmark caused by this assumption will diminish as the examined year gets further from 2003 and the calculation is able to mimic the U.S. calculation and reduce the impacts of the 2003 assumption. By a year such as 2019, the calculation has had 16 years to reduce this discrepancy. However, we do caution comparing Hydro One's capital age to the industry capital age in the earlier years of the sample."

202122

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For this reason, we are of the opinion that only the most recent and projected results should be relied upon. However, the results can be found in the working papers in the modeling dataset with the variable name "age_tx".

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-030 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-031 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 031

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 47

5 6

Interrogatory:

Please provide details on what tests or other methods were used to validate and/or quantify the statement: "The Company's older transmission capital age is likely one of the main contributors to the Company's strong transmission total cost benchmarking result".

10 11

Response:

Response from Clearspring

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While we did not conduct tests to quantify the statement, it is based on the mechanics of the capital age calculation and the total cost benchmarking research. Hydro One has maintained a higher capital age than the sample, and therefore its levels of capital additions and retirements would need to be lower than what the industry is undertaking. Lower levels of plant additions will also have the impact of lowering the calculated capital costs in the benchmark study, thus improving the benchmark score.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-031 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-032 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 032

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 48

5

6 **Interrogatory:**

Please provide the Hydro one data for the period 2003-2017.

8

Response:

10 Response from Clearspring

11

Please see our response to A-SEC-030. The capital age variable can be found in the working papers

in the modeling dataset. The variable name is "age_dx".

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-032 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-033 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 033

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 49

5 6

Interrogatory:

Please confirm that the estimate 17.3 vs. 16.2 is a calculation done by the expert. Please provide

8 that calculation.

9 10

Response:

Response from Clearspring

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Confirmed. The calculation was provided in the working papers in the "Capital Age" directory. The result can be replicated by subtracting the following from Hydro One's distribution additions and retirements: AMI 2.0 additions (the variable named "ami2_a"); and the AMI 2.0 retirements (the variable named "ami2_r"). The numbers 17.3 and 16.2 are results of the capital age calculations that Clearspring undertook to enable a comparative study between Hydro One and the industry, and not the actual capital age of the distribution assets. Given this, it may be more helpful to view AMI 2.0 as increasing the Company's age of assets by around 6.5% rather than by 1.1 years.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-033 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-034 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 034

1 2 3

Reference:

4 Exhibit A-4-1, Attachment 1, Page 58

5 6

Interrogatory:

Please provide details of which, if any, of the additional listed outputs have been measured or otherwise tested by the expert.

9

10 Response:

Response from Clearspring

111213

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The additional outputs listed, such as reliability, cybersecurity, safety, regulatory requirements, generation interconnections from solar or wind, environmental stewardship, protections from geomagnetic disturbances, and aspects of power quality and security, have not been measured or tested by Clearspring. As we stated on this same page in the report as is referenced, these outputs are difficult or impossible to incorporate and consistently measure across the sample of utilities. For the most part, data is unavailable for these outputs.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-034 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-035 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 035

123

Reference:

4 Exhibit A-4-1, Attachment 1, Page 60-61

5

6 **Interrogatory:**

Please confirm that the expert's analysis generally shows that OM&A increases as capital age declines. Please explain why this result has occurred.

9

10 Response:

11 Response from Clearspring

12

- The analysis generally shows that the null hypothesis (that a change in capital age has no impact on OM&A changes) cannot be rejected. In other words, the analysis is unable to show a
- statistically significant relationship between changes in the capital age and OM&A.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-035 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-036 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 036

1 2

3 **Reference:**

4 Exhibit A-4-2, Page 5

5

6 **Interrogatory:**

7 Please provide Table 1 in Excel format with all formulas enact.

8

9 **Response:**

Table 1 has been provided in Excel format as Attachment 1 in Hydro One's response to A-Staff-7.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-036 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-037 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 037

1 2 3

Reference:

4 Exhibit A-4-2, Page 5

5

6 **Interrogatory:**

- 7 Please provide a calculation of the forecast capital-related revenue requirement collected in
- 8 current rates in 2022, on a comparable basis to the calculations in Table 1.

9

10 Response:

- A calculation of the forecast 2022 capital-related revenue requirement was provided in Table 3 of
- Hydro One's Draft Rate Order, filed on May 28, 2020, in the EB-2019-0082 proceeding.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-037 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-038 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 038

123

Reference:

4 Exhibit A-4-2, Page 7

5 6

Interrogatory:

Please add a row to Table 3 showing the forecast transmission revenue in 2022.

8

Response:

- Hydro One's 2022 transmission revenue requirement is currently before the OEB for approval in
- the EB-2021-0186 proceeding. The proposed 2022 revenue requirement is \$1,807.6M and is
- based on an Inflation Factor of 2.00%.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-038 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-039 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 039

1 2 3

Reference:

4 Exhibit A-4-3, Page 2

5 6

Interrogatory:

- 7 Please calculate the stretch factor that would be necessary for Hydro One's costs over the Custom
- 8 IR term to equal the benchmark, rather than average 7.0% higher.

9

10 **Response:**

Response from Clearspring

111213

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This is not the purpose of the stretch factor, and, to our knowledge, a stretch factor has never been employed in regulation in any jurisdiction based on the value necessary to bring the costs to the benchmark value (in either direction). When inserting the Company's projected plant additions, we do not reduce those investment values by the proposed stretch factor (or the proposed supplemental stretch factor). This is a conservative path in that it shows the benchmark score for Hydro One prior to any stretch factor reductions in capital, thus, making the scores higher than they would be with these reductions.

Witness: FENRICK Steve

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-039 Page 2 of 2

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Witness: FENRICK Steve

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-040 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 040

1 2

3 **Reference:**

4 Exhibit A-4-3, Page 5

5

6 **Interrogatory:**

7 Please provide Table 1 in Excel format with all formulas enact.

8

9 Response:

Table 1 is provided in Excel format as Attachment 1 to Hydro One's response to A-Staff-7.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-040 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-041 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 041

1 2 3

Reference:

4 Exhibit A-4-3, Page 8

5

6 **Interrogatory:**

Please add a row to Table 3 showing the forecast distribution revenue in 2022.

7 8

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9 Response:

Hydro One's 2022 distribution revenue requirement is currently before the OEB for approval in the EB-2021-0032 proceeding. The proposed 2022 distribution revenue requirement is \$1,674.6M and is based on an Inflation Factor of 2.20% and is further detailed in footnote 5 of Exhibit D-1-1.

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Hydro One also notes that the 2022 distribution revenue requirement does not include the Acquired Utilities. As noted on page 11 of Exhibit D-1-1, an incremental revenue requirement of roughly \$30M in included in 2023 for the Acquired Utilities. This incremental amount is reflected in values shown in Table 3 of Exhibit A-4-3.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-041 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-042 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 042

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Reference:

4 Exhibit A-4-1, Page 3

5 6

Interrogatory:

Please explain why Hydro One did not undertake an updated distribution TFP study for this application and why it believes the results of the study filed in EB-2017-0049 remain valid.

9

10 Response:

11 Response from Clearspring

12

- 13 Mr. Fenrick's results in EB-2017-0049, PEG's research in that same application, and the 4^{th}
- Generation IRM research all showed negative TFP trends for the Ontario distribution industry.
- 15 This is the best available information, and the three sources all reveal a negative productivity
- 16 trend.

Witness: VETSIS Stephen; FENRICK Steve

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-042 Page 2 of 2

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Witness: VETSIS Stephen; FENRICK Steve

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-043 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 043

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Reference:

4 Exhibit A-4-3, Page 7

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Interrogatory:

- 7 Please explain why Hydro One chose revenue and not a price cap approach for its distribution rate
- 8 framework.

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Response:

A revenue cap approach was approved by the OEB in Hydro One Distribution's prior Custom IR proceeding, EB-2017-0049. The proposed custom Revenue Cap Index approach for distribution is appropriate and better suited for Hydro One's circumstances including because it:

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 is more consistent with Hydro One's business planning process and can be easily reconciled to the Rates Revenue Requirement estimated for the test period by Business Planning;

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2. allows the company to update its billing determinants to reflect estimated changes in the load forecast on a class-specific basis over the IR term; and

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3. aligns with the methodology used for Hydro One's transmission business.

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27 28 Hydro One is unique in that it is both a transmitter and distributor. Having consistent approaches across both of its businesses yields efficiencies by simplifying Hydro One's internal processes and is more easily communicable to both internal and external stakeholders. The proposals in this application ensure that the rate-setting frameworks for Hydro One's Distribution and Transmission businesses continue to be largely aligned.

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-043 Page 2 of 2

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Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-044 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 044

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Reference:

4 Exhibit A-6-1, Page 10

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Interrogatory:

7 If the OEB ordered Hydro One to change its accounting standards to IFRS, how long would Hydro

8 One need to implement the change?

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Response:

While PwC estimates in its report that a transition could take 12-24 months (without accounting for a number of potential issues that could arise), in Hydro One's view a more realistic estimate of the time needed to implement a change in its accounting standards to IFRS, if Hydro One were ordered by the OEB to do so for regulatory purposes, is at least 3-4 years. The time needed to implement such a change would depend on a number of factors, including but not limited to the specifics of any such OEB order and the need for the Company to manage competing priorities and any additional challenges that may emerge.

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The key factors driving this estimated timeline include:

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Uncertainty due to the possibility that IASB guidance changes during the course of the
implementation period. As described in Section 3 of the PwC Report, the Exposure Draft
remains subject to change and is expected to become effective 18-24 months after
being finalized and published. This could give rise to a need for Hydro One to modify its
implementation of IFRS. To start a transition now to the interim standard could result in
incremental costs, duplicative work and delay as the requirements change.

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 Hydro One is planning an update from SAP to S4/HANA, which is critical foundation for any successful implementation of IFRS that may be required (but which is required regardless of whether Hydro One transitions to IFRS). A summary of technology risks based on PwC discussions with Hydro One management is provided on pp. 17-18 of the PwC Report.

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 As noted in Interrogatory Response A-Staff-14, a change to IFRS will require changes in the way Hydro One plans and executes work, so the timeline for implementation would need to provide sufficient opportunity to consider those additional impacts to ensure they can be managed effectively. In this respect, Hydro One expects that it would need

Witness: CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-044 Page 2 of 2

to perform a detailed assessment of its impacted processes and systems. The findings of that analysis would inform the timing needed to operationalize the transition to IFRS.

The various workstreams expected to be needed to implement such a change are summarized on pp. 14-15 of the PwC Report at Exhibit A-06-01 Attachment 1.

Witness: CHHELAVDA Samir

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule A-SEC-045 Page 1 of 2

A - SCHOOL ENERGY COALITION INTERROGATORY - 045

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Reference:

4 Exhibit A-6-1, Page 11

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Interrogatory:

Hydro One notes that it has implemented ASU 2018-15 related to capitalization of hosting costs that are in a service contract:

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a) Please provide the value per year of the contract.

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b) If the OEB were to determine that the amounts should not be capitalized, please provide the revenue requirement difference per year.

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Response:

a) Hydro One clarifies that the context for the reference to Hydro One's adoption of ASU 2018-15 is not to a single contract, but rather to a change in capitalization policy as a result of a change in US GAAP standards with respect to the capitalization of implementation costs associated with hosting arrangements that are service contracts. Capitalized implementation costs from IT projects due to the adoption of ASU 2018-15 vary by year, depending on the specific projects being completed. For further details around capitalization due to ASU 2018-15 please refer to Interrogatory Response A-Staff-018.

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b) As noted in response to part a) above, the reference is not to a single contract or particular amounts thereunder. Under accounting standard ASU 2018-15, the requirements for capitalizing costs incurred in relation to a hosting arrangement are limited to only the implementation costs associated with the cloud solution, including only the first-year service and licensing costs. Ongoing service contract costs related to any cloud hosting or licensing are expensed (treated as OM&A). Hydro One is following these standard practices under US GAAP.

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If the OEB determined that these costs should not be capitalized and ordered Hydro One to deviate from US GAAP standards, the result would be that these costs would be treated as OM&A and increase revenue requirement. Expensing of these costs would also introduce intergeneration inequity as cost recovery would not match the period over which customers would be benefiting from these investments.

Witness: CHHELAVDA Samir, MARCOTTE Kevin

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Witness: CHHELAVDA Samir, MARCOTTE Kevin

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule B1-SEC-046 Page 1 of 2

B1 - SCHOOL ENERGY COALITION INTERROGATORY - 046

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Reference:

4 Exhibit B-1-1, SPF Section 1.2, Page 15

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Interrogatory:

Please provide a table that includes for each year between 2018 and 2027, the total amount of Hydro One's actual and forecast transmission capital expenditures for projects that are included in a Regional Infrastructure Plan (RIP), broken down by category (i.e. system access, renewal, service, etc.). Please provide a similar table on an in-service addition basis.

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Response:

Please see below tables for Hydro One's actual and forecast totals for transmission projects included in a Regional Infrastructure Plan (RIP) by OEB Category.

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Table 1 - Transmission Capital Expenditures for projects included in a RIP by OEB category

(\$ Millions)		Actual		Forecast						
OEB Category	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
System Access	25.6	42.0	17.4	32.9	6.8	8.7	33.4	16.2	7.7	4.9
System Renewal	201.0	236.6	269.8	268.8	430.0	530.8	480.4	463.9	411.8	380.1
System Service	14.9	17.9	75.3	166.0	70.8	43.1	37.5	25.0	0.0	0.0

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Table 2 - Transmission In-Service Additions for projects included in a RIP by OEB category

(\$ Millions)		Actual		Forecast						
OEB Category	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
System Access	7.8	62.9	4.9	11.3	43.2	2.6	0.0	44.2	0.0	25.0
System Renewal	197.9	199.0	257.1	222.0	320.0	539.2	458.7	584.7	390.8	457.6
System Service	2.6	22.2	6.8	34.0	286.6	11.6	0.0	103.1	0.0	0.0

Witness: REINMULLER Robert, SPENCER Andrew

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Witness: REINMULLER Robert, SPENCER Andrew

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B1 - SCHOOL ENERGY COALITION INTERROGATORY - 047

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Reference:

4 Exhibit B-1-1, SPF Section 1.2, Attachment 1, Page 2

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Interrogatory:

Please identify all individual investments included in the application that <u>may</u> be impacted by the IRRP addendum that has yet to be completed.

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Response:

The following three regions were identified in the referenced exhibit as expecting to have an IRRP addendum:

- Burlington to Nanticoke;
- 2. Metro Toronto; and
 - Greater Ottawa

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In addition to those 3 identified, the Windsor-Essex region is also expecting an IRRP addendum as noted in ISD T-SA-10 in Exhibit B-2-1, TSP Section 2.11.

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For the Burlington to Nanticoke region, the IRRP addendum has been delayed. However, it is not anticipated to impact any investments identified for the Burlington to Nanticoke region within the 2023 to 2027 period.

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- For the Metro Toronto region, the anticipated IESO IRRP addendum may impact the following investment:
 - Southwest GTA Transmission Reinforcement (T-SS-06).

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- For the Greater Ottawa region, the anticipated IESO IRRP addendum may impact the following investment:
 - Merivale TS: Add 230/115kV Autotransformers (T-SS-05).

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- For the Windsor-Essex region, the anticipated IESO IRRP addendum may impact the following investments:
 - Lauzon TS: Transformer (T5, T6, T7 and T8) and Component Replacement (T-SR-03);
 - Build Leamington Area Transformer Station #5 (T-SA-10);
 - Build Leamington Area Transformer Station #6 (T-SA-10).

Witness: REINMULLER Robert

Filed: 2021-11-29 EB-2021-0110 Exhibit I Tab 22 Schedule B1-SEC-047 Page 2 of 2

- However, it should be noted that Hydro One plans closely reflect the ongoing discussions with the
- 2 IESO and technical working group. Given the specific details of these investments, it is expected
- that the addendum updates will have minimal effect and therefore, no material impact on these
- 4 individual investments for the 2023 to 2027 period.

Witness: REINMULLER Robert