

REGULATED HYDROELECTRIC AND NUCLEAR PAYMENT RIDERS

1.0 PURPOSE

This evidence presents OPG's requested payment riders for the regulated hydroelectric and nuclear facilities.

2.0 PAYMENT RIDERS

OPG is seeking approval of a payment rider for the purposes of clearing regulated hydroelectric deferral and variance account balances approved in this application, effective July 1, 2024. The requested regulated hydroelectric payment rider is \$2.75/MWh for the period July 1, 2024 to December 31, 2026, as calculated in Ex. H1-2-1, Table 1.

OPG is seeking approval of a payment rider for the purposes of clearing nuclear deferral and variance account balances approved in this application, effective July 1, 2024. The requested nuclear payment rider is \$3.25/MWh for the period July 1, 2024 to December 31, 2024, \$3.55/MWh for the period January 1, 2025 to December 31, 2025, and \$5.04/MWh for the period January 1, 2026 to December 31, 2026, as calculated in Ex. H1-2-1, Table 2.

Numbers may not add due to rounding.

Filed: 2023-12-13
EB-2023-0336
Exhibit I1
Tab 1
Schedule 1
Table 1

Table 1
Annualized Residential Consumer Impact
EB-2020-0290 to EB-2023-0336

Line No.	Description	Note	July - Dec 2024 Amount	2025 Amount	2026 Amount
			(a)	(b)	(c)
1	Typical Consumption (kWh/Month)	1	737	737	737
2	Typical Usage of OPG Generation (kWh/Month) (line 1 x line 10)		354	339	291
3	Typical Bill (\$/Month)	1	126.65	126.65	126.65
4	Typical Bill Impact (\$/Month) (line 2 x line 7 / 1000)		1.06	0.05	0.15
5	Typical Bill Impact (%) (line 4 / line 3)		0.8%	0.0%	0.1%
6	Incremental Weighted Average Payment Amount	2	3.00	3.14	3.66
7	Year-over-year Change in Incremental Weighted Average Payment Amount		3.00	0.14	0.52
8	Total OPG Regulated Production (TWh)	3	67.0	64.1	54.9
9	Forecast of 2024 Provincial Demand (TWh)	4	139.2	139.2	139.2
10	OPG Proportion of Consumer Usage (line 8 / line 9)		48.1%	46.0%	39.4%

- Notes:
- 1 Typical monthly consumption (700 kWh) and typical monthly bill are based on the OEB "Bill Calculator" for estimating monthly residential electricity bills (using Time of Use pricing), available at: https://www.oeb.ca/_html/calculator/en/electricity/res/, accessed November 2, 2023
Typical Consumption includes line losses (Assumed loss factor of 1.0525)
 - 2 From Ex. I1-1-1 Table 2, line 13.
 - 3 From Ex. I1-1-1 Table 2: line 4 + line 8.
 - 4 Based on forecast demand for 2024 (139.2 TWh) from Table 3-1 of IESO Reliability Outlook Update from October 2023 to March 2025, released September 2023.

Numbers may not add due to rounding.

Filed: 2023-12-13

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Exhibit I1

Tab 1

Schedule 1

Table 1A

Table 1A

Annualized Bill Impact for Typical Alectra (PowerStream) Business & Industrial Consumers 2024-2026

Line No.	Description	Note	July - Dec 2024		2025		2026	
			Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial
			(a)	(b)	(c)	(d)	(e)	(f)
1	Typical Consumer Usage (kWh/Month)	1	82,952	2,840,600	82,952	2,840,600	82,952	2,840,600
2	Total OPG Regulated Production (TWh)	2	67.0	67.0	64.1	64.1	54.9	54.9
3	OPG Portion of Consumer Usage	3	48.1%	48.1%	46.0%	46.0%	39.4%	39.4%
4	Consumer Usage of OPG Generation (kWh/Month)		39,912	1,366,758	38,178	1,307,356	32,709	1,120,067
	(line 1 x line 3)							
5	Typical Monthly Consumer Bill (\$)	1	12,666	423,047	12,666	423,047	12,666	423,047
	<u>EB-2020-0290 to EB-2023-0336:</u>							
6	Incremental Weighted Average Payment Amount (\$/MWh)	4	3.00	3.00	0.14	0.14	0.52	0.52
7	Percentage Increase in Consumer Bills		0.95%	0.97%	0.04%	0.04%	0.13%	0.14%
	(line 6 x (line 4/1000) / line 5)							
8	Dollar Increase in Consumer Bills (\$) (line 5 x line 7)		119.74	4,100.28	5.34	183.03	17.01	582.43

Notes:

- Current Approved Rates and Usage (adjusted for line losses) are taken from the Alectra EB-2022-0185 proceeding, Excel File: Alectra_RGM PRZ_20221122_20221208
GS > 50 customer, consumption 80,000 kWh, loss factor 3.69%
Large User customer, consumption 2,800,000 kWh, loss factor 1.45%
- From Ex. I1-1-1 Table 2: line 4 + line 8.
- From Ex. I1-1-1 Table 1, line 10.
- From Ex. I1-1-1 Table 1, line 7.

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Filed: 2023-12-13

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Exhibit I1

Tab 1

Schedule 1

Table 1B

Table 1B

Annualized Bill Impact for Typical Hydro One Networks Business & Industrial Consumers 2024-2026

Line No.	Description	Note	July - Dec 2024		2025		2026	
			Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial
			(a)	(b)	(c)	(d)	(e)	(f)
1	Typical Consumer Usage (kWh/Month)	1	36,428	1,420,140	36,428	1,420,140	36,428	1,420,140
2	Total OPG Regulated Production (TWh)	2	67.0	67.0	64.1	64.1	54.9	54.9
3	OPG Portion of Consumer Usage	3	48.1%	48.1%	46.0%	46.0%	39.4%	39.4%
4	Consumer Usage of OPG Generation (kWh/Month)		17,528	683,302	16,766	653,604	14,364	559,971
	(line 1 x line 3)							
5	Typical Monthly Consumer Bill (\$)	1	8,245	227,999	8,245	227,999	8,245	227,999
	<u>EB-2020-0290 to EB-2023-0336:</u>							
6	Incremental Weighted Average Payment Amount (\$/MWh)	4	3.00	3.00	0.14	0.14	0.52	0.52
7	Percentage Increase in Consumer Bills		0.64%	0.90%	0.03%	0.04%	0.09%	0.13%
	(line 6 x (line 4/1000) / line 5)							
8	Dollar Increase in Consumer Bills (\$) (line 5 x line 7)		52.58	2,049.91	2.35	91.50	7.47	291.18

Notes:

- 1 Current Approved Rates and Usage (adjusted for line losses) are taken from EB-2021-0110, Excel file: HONI_JRAP_Settlement Proposal_Attachment Update_Attachment 2_Schedule 7.1_20221116
Medium/Large Business: GSd_Avg customer, consumption 34,334 kWh, loss factor 6.1%
Large Industrial: ST_Avg customer, consumption 1,373,443 kWh, loss factor 3.4%
- 2 From Ex. I1-1-1 Table 2: line 4 + line 8.
- 3 From Ex. I1-1-1 Table 1, line 10.
- 4 From Ex. I1-1-1 Table 1, line 7.

Numbers may not add due to rounding.

Table 1C
Annualized Bill Impact for Typical Toronto Hydro Business & Industrial Consumers 2024-2026

Line No.	Description	Note	July - Dec 2024		2025		2026	
			Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial	Medium/Large Business	Large Industrial
			(a)	(b)	(c)	(d)	(e)	(f)
1	Typical Consumer Usage (kWh/Month)	1	81,331	4,170,520	81,331	4,170,520	81,331	4,170,520
2	Total OPG Regulated Production (TWh)	2	67.0	67.0	64.1	64.1	54.9	54.9
3	OPG Portion of Consumer Usage	3	48.1%	48.1%	46.0%	46.0%	39.4%	39.4%
4	Consumer Usage of OPG Generation (kWh/Month)		39,132	2,006,651	37,432	1,919,438	32,069	1,644,463
	(line 1 x line 3)							
5	Typical Monthly Consumer Bill (\$)	1	12,500	643,955	12,500	643,955	12,500	643,955
	EB-2020-0290 to EB-2023-0336:							
6	Incremental Weighted Average Payment Amount (\$/MWh)	4	3.00	3.00	0.14	0.14	0.52	0.52
7	Percentage Increase in Consumer Bills		0.94%	0.93%	0.04%	0.04%	0.13%	0.13%
	(line 6 x (line 4/1000) / line 5)							
8	Dollar Increase in Consumer Bills (\$) (line 5 x line 7)		117.40	6,019.95	5.24	268.72	16.68	855.12

Notes:

1 Current Approved Rates and Usage (adjusted for line losses) are taken from EB-2022-0065, excel file THESL_2023 Bill Impacts_20221208
Medium/Large Business: GS 50-999 customer, consumption 79,000 kWh, loss factor 2.95%
Large Industrial: Large Use customer, consumption 4,100,000 kWh, loss factor 1.72%

2 From Ex. I1-1-1 Table 2: line 4 + line 8.

3 From Ex. I1-1-1 Table 1, line 10.

4 From Ex. I1-1-1 Table 1, line 7.

Numbers may not add due to rounding.

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Tab 1
Schedule 1
Table 2

Table 2
Calculation of Change in Weighted Average Payment Amount
EB-2020-0290 to EB-2023-0336

Line No.	Description	Note	2023	July - Dec 2024	2025	2026
			(a)	(b)	(c)	(d)
1	Hydroelectric Payment Amount (HPA) (\$/MWh)	1	43.88	43.88	43.88	43.88
2	Hydroelectric Payment Rider EB-2020-0290 (HPRA) (\$/MWh)	2	1.03	1.03	0.69	0.69
3	Hydroelectric Payment Rider EB-2023-0336 (HPRB) (\$/MWh)	3		2.75	2.75	2.75
4	Hydroelectric Production Forecast (HPF) TWh	4	33.0	33.0	33.0	33.0
5	Nuclear Payment Amount (NPA) (\$/MWh)	5	107.79	103.48	102.85	111.33
6	Nuclear Payment Rider EB-2020-0290 (NPRA) (\$/MWh)	6	1.25	1.15	5.34	7.58
7	Nuclear Payment Rider EB-2023-0336 (NPRB) (\$/MWh)	7		3.25	3.55	5.04
8	Nuclear Production Forecast (NPF) TWh	8	31.2	34.0	31.1	21.9
9	Weighted Average Payment Amount (\$/MWh) ((NPA + NPRA + NPRB) x NPF + (HPA + HPRA + HPRB) x HPF) / (NPF + HPF)		76.10	78.23	78.58	77.91
10	EB-2020-0290 Weighted Average Payment Amount (\$/MWh)	9	76.10	75.23	75.44	74.25
11	Incremental Weighted Average Payment Amount (\$/MWh) (line 10 - line 9)		0.00	3.00	3.14	3.66
12	Percentage Change in Weighted Average Payment Amount (Year over Year)			2.8%	0.4%	-0.9%

- Notes:
- 1 From EB-2020-0290 Payment Amounts Order, p. 4.
 - 2 From EB-2020-0290 Payment Amounts Order, p. 7.
 - 3 From Ex. H1-2-1, Table 1, line 20.
 - 4 From EB-2020-0290 Payment Amounts Order, App. B, Table 3, line 3.
 - 5 From EB-2020-0290 Payment Amounts Order, p. 5.
 - 6 From EB-2020-0290 Payment Amounts Order, p. 8.
 - 7 From Ex. H1-2-1, Table 2, line 30.
 - 8 From EB-2020-0290 Payment Amounts Order, p. 4.
 - 9 From EB-2020-0290 Payment Amounts Order, App. B, Table 3, line 9.