Greater Sudbury Hydro Inc

Interrogatory Response #2

February 4, 2025

School Energy Coalition

EB-2024-0026

Building Connections for Life
Établir des liens pour la vie

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2-SEC-9 Updated Tables & Figures - Appendix 2-AA, 2-AB, 2-BA

Question:

[Ex.2-9] Please provide updated versions of the following tables, figures and appendices, to include 2024 actuals:

a. Tables 17, 18
b. Figures 18 and 19
c. Appendix 2-AA, 2-AB, 2-BA

Response:

a) Please see below for an updated version of both Table 17 and 18 to include 2024 actuals:

Year	SAIDI	SAIFI
Including Loss of Supply, Major Events		
2019	2.40	1.14
2020	1.72	1.05
2021	1.88	1.76
2022	1.34	1.82
2023	1.64	1.73
2024	1.40	1.31
5 Year Rolling Average	**1.60**	**1.53**
Excluding Loss of Supply, Including Major Events		
2019	1.89	1.03
2020	1.48	0.99
2021	1.11	1.16
2022	1.15	1.62
2023	1.49	1.49
2024	0.94	1.04
5 Year Rolling Average	**1.23**	**1.26**
Excluding Loss of Supply, Excluding Major Events		
2019	1.89	1.03
2020	1.48	0.99
2021	1.11	1.16
2022	1.15	1.62
2023	1.49	1.49
2024	0.94	1.04
5 Year Rolling Average	**1.23**	**1.26**

Table 17 Service Reliability Statistics

OEB CODE	Description	2019		2020		2021		2022		2023		2024	
		SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI	SAIDI	SAIFI
0	Unknown/Other	0.01	0.01	0.08	0.04	0.05	0.14	0.05	0.08	0.07	0.14	0.03	0.06
1	Scheduled Outage	0.45	0.12	0.24	0.09	0.50	0.14	0.16	0.06	0.29	0.13	0.41	0.18
2	Loss of Supply	0.51	0.11	0.23	0.06	0.78	0.60	0.19	0.20	0.15	0.24	0.47	0.27
3	Tree Contacts	0.03	0.01	0.01	0.01	0.03	0.04	0.02	0.08	0.04	0.08	0.01	0.11
4	Lightning	0.00	0.01	0.02	0.12	0.00	0.00	0.10	0.03	0.00	0.00	0.02	0.03
5	Defective Equipment	0.96	0.50	1.00	0.59	0.23	0.48	0.36	0.67	0.76	0.83	0.07	0.21
6	Adverse Weather	0.09	0.14	0.00	0.02	0.11	0.12	0.23	0.20	0.01	0.01	0.12	0.17
7	Adverse Environment	0.00	0.00	0.01	0.00	0.01	0.06	0.01	0.02	0.02	0.01	0.00	0.00
8	Human Element	0.11	0.04	0.02	0.05	0.01	0.08	0.13	0.35	0.00	0.00	0.01	0.02
9	Foreign Interference	0.25	0.21	0.10	0.07	0.15	0.12	0.10	0.13	0.29	0.29	0.25	0.27
10	Major Event	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table 18 Historical (2019-2024) Outage Cause Data

b) Please see below for an updated version of both Figure 18 and 19 to include 2024 actuals:

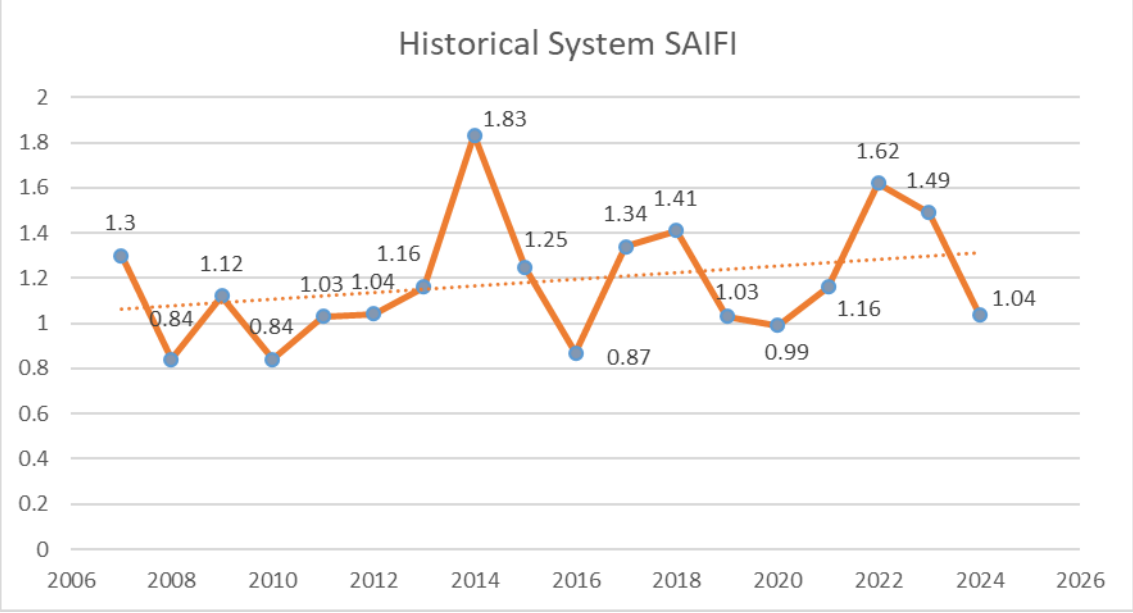

Figure 18 GSHI 2007-2024 SAIFI Reliability Indices (Excluding Loss of Supply & Major Events)

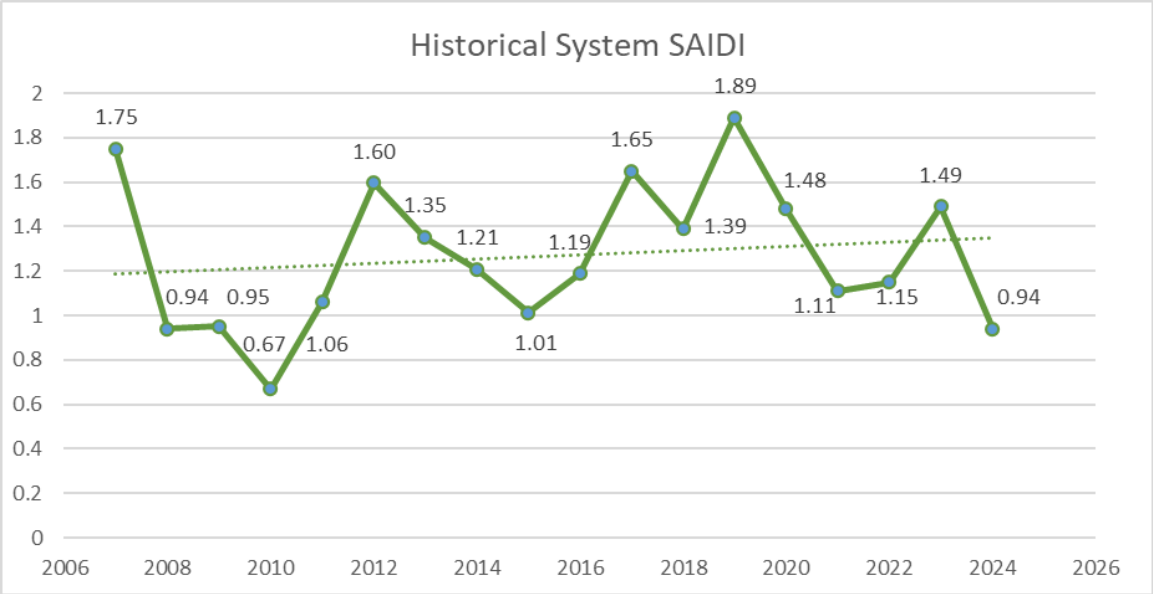

Figure 19 GSHI 2007-2024 SAIDI Reliability Indices (Excluding Loss of Supply & Major Events)

c) Appendices 2-AA, 2-AB, and 2-BA have been updated and are included in the Chapter 2 Appendices filed with this submission.

GSHi notes that, in response to 2-AMPCO-8, Appendix 2-AA is now provided in two different variations:

- **App.2-AA_Capital Projects CAPEX**, which presents data on a capital expenditure basis.
- **App.2-AA_Capital Projects CAPAD**, which presents data on a capital additions basis.

Additionally, GSHi has updated the 2025 figures in these appendices to reflect expenditures originally expected to occur in 2024 but now anticipated in 2025. These changes relate to expenditures for items that were either ordered for delivery in 2024 or expected to require payment in 2024 but have been delayed to 2025.

2-SEC-12 Table for Each Asset Type Included in Table 37

Question:

[Ex.2-9, DSP, p.142] Please provide a table that shows, for each asset type included in Table 37, the actual/forecast number of assets replaced and their costs, for each year between 2020 and 2029.

Response:

For a table showing, for each asset type included in Table 37, the actual number of assets replaced and their estimated costs, for each year between 2020 and 2024, please see Tab 4, Interrogatory 12, **Attachment 1**.

For a table showing, for each asset type included in Table 37, the forecast number of assets replaced and their costs for each year between 2025 and 2029, note that the below table represents data associated with prospective investments that have been tabled as part of GSHi's DSP wherein planned asset removal/refurbishment is part of the project scope.

Asset Category	2025	2026	2027	2028	2029	TOTAL
	Units Replaced	Units Replaced	Units Replaced	Units Replaced	Units Replaced	Units Replaced
Pad Mounted Transformers	18	5	0	4	4	31
Pole Mounted Transformers	48	54	37	56	48	243
Submersible Transformers	0	2	5	3	0	10
Vault Transformers	0	4	0	0	3	7
Overhead Line Switches 44kV	1	0	0	0	0	1
Overhead Line Switches 12kV	1	0	0	0	2	3
Overhead Line Switches 4kV	0	0	0	0	0	0
Pad Mounted Switchgear	0	1	1	0	0	2
Pad Mounted Junction Enclosures	0	0	4	0	0	4
GSU Wood Poles	124	116	77	143	98	558
GSU Concrete Poles	9	0	0	0	0	9
Bell Wood Poles	1	55	18	16	17	107
Hydro One Wood Poles	0	19	0	0	0	19
Underground Cables 44kV	0.3	0.2	0.3	3.5	0	4.3
Underground Cables 12kV	6.2	2.8	3.1	1.6	5.1	18.8
Underground Cables 4kV	0	0	0	2.0	0	2.0

GSHi will be unable to provide a 'per-unit' cost for a prospective investment until such time as the project is completed and the unitization process has been applied.

However, GSHi can supply the total estimated capital cost for the replacement of the units shown in the prior Table for a given year. These estimated costs are as follows:

2025: $5,217,413
2026: $5,217,627
2027: $3,006,486
2028: $5,152,639
2029: $3,949,089

Attachment 1 (of 1):

2-SEC-12 Attachment 1: Assets Replaced 2020-2024

Assets Replaced and Estimated Costs 2020 - 2024

Asset Category	2020		2021		2022		2023		2024	
	Units Replaced	Cost ($)	Units Replaced	Cost ($)	Units Replaced	Cost ($)	Units Replaced	Cost ($)	Units Replaced	Cost ($)
Pad Mounted Tranformers	17	258,166	22	391,586	21	421,611	28	554,397	9	186,753
Pole Mounted Transformers	98	793,899	90	803,976	99	849,693	104	934,467	74	696,825
Submersible Transformers	0	-	0		0		0		0	
Vault Transformers	0	-	3	27,852	3	41,708	3	43,075	0	
Overhead Line Switches 44kV	0	-	0		0		0		3	143,511
Overhead Line Switches 12kV	2	62,106	0		0		0		0	
Overhead Line Switches 4kV	0		0		1	21,325	0		0	
Pad Mounted Switchgear	0		0		0		0		2	48,136
Pad Mounted Junction Enclosure	0		0		0		0		1	11,273
GSU Wood Poles	219	2,427,335	259	2,010,204	214	2,109,002	293	2,585,323	89	980,237
GSU Conc. Poles	0		0		0		0		23	253,320
Bell Wood Poles	42	465,516	12	95,724	13	128,117	17	178,661	70	770,973
Hydro One Wood Poles	0		0		0		0		0	
Underground Cables 44kV	0		0		0		0		0.08	14,506
Underground Cables 12kV	2.23	121,882	1.94	145,247	2.54	224,976	1.49	98,998	0.52	36,208
Underground Cables 4kV	0.57	31,154	0		1.25	110,717	0		1.48	103,054

2-SEC-13 Revised Appendix 2-AB on an In-Service Additions Basis

Question:

[Ex.2-9, DSP, p.174] Please provide a revised version of Appendix 2-AB that is on an in-service additions basis.

Response:

GSHi has prepared the revised Appendix 2-AB on an in-service additions basis as requested. The updated version can be found in the Chapter 2 Appendices filed with this submission, under the tab 'App.2-AB_Capital Additions.'

4-SEC-17 Updated Appendices

Question:

[Ex.4] Please provide updated versions of the following appendices, to include 2024 actuals: Appendices 2-D, 2-H, 2-JA, 2-JB, 2-JC, 2-K, 2-M and 2-N.

Response:

Please see the updated Chapter 2 appendices filed with this submission.

4-SEC-19 Increase in Stations Operations

Question:

[Ex. 4-3-1, p.4 and Appendix 2-JC]

a. The increase between 2024 and 2025 for Station Operations is $407k. Please provide a breakdown of this increase by each of the cost drivers mentioned, e.g., reallocation from capital to operating, general wage increases, etc.
b. The Applicant attributes an increase between 2023 and 2025 Stations Operations as being driven by 'a shift between OM&A and capital allocation as there are no significant station projects budgeted in 2025, the focus will be on decommissioning sites that have been replaced by recently upgraded substations.' Please explain why decommission of a site is considered an OM&A cost, as normally decommissioning a site is attributed to the capital cost of the site.
c. Please provide the total capital expenditures on Stations for 2020 to 2024 and the forecast for 2025.

Response:

a) GSHi has done the variance analysis on the basis of 2024 projected actuals vs 2025 budget to provide the most up to date relevant information.

2025 Budget	1,375,196
2024 Projected Actuals	903,336
Variance	471,860

This variance of $471,860 is caused predominantly by labour and the associated payroll burden and the drivers are detailed below.

Shift from capital (less labour in capital budget)	127,342.05
Impact of partial vacancies filled in 2024	126,216.82
Impact of vacant Substation Electrician	204,794.27
	458,353.14

The shift from capital is due to a reduced number of capital projects in 2025 that utilize employees from this program. Regarding the partial vacancies filled in 2024, this includes the Technical Services Supervisor and P&C Technologist positions, both of which were vacant for part of the year, subsequently filled, and budgeted for a full year in 2025. Additionally, the Substation Electrician position, which remained vacant throughout 2024, is budgeted for a full year in 2025.

b) In 2025, GSHi will be decommissioning MS14 Centennial Station, which is located on leased land. GSHi will not be rebuilding this station, as MS3 was constructed with increased capacity to accommodate the load previously supplied by MS14. Under IFRS, decommissioning costs can only be capitalized if they qualify as site preparation costs for a future or immediate rebuild or to prepare the site for eventual sale. Since GSHi does not own the land, the latter does not apply. As neither condition is met in this case, the decommissioning costs must be treated as OM&A rather than being capitalized.

c) GSHi presents the following information as requested.

	Station Capex
2020 Actuals	3,615,430
2021 Actuals	4,534,477
2022 Actuals	697,916
2023 Actuals	753,853
2024 Projected	3,257,979
2025 Budget	2,703,869