



<b>Utility Name</b>	Greater Sudbury Hydro Inc.	
Assigned EB Number	EB-2021-026	
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Last COS Re-based Year	2020	

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While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results.



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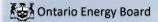


The purpose of this sheet is to set up the rate classes, enter the re-based billing determinants from your last cost of service application and enter the current service charge and volumetric distribution rates as found on your most current Tariff of Rates and Charges.

Rate	lacc

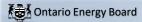
Fixed Metric	Vol Metric	Re- B Custo Conr
Customers	kWh	
Customers	kWh	
Customers	kW	
Connections	kWh	
Connections	kW	
`onnections	k\M	

Re-based Billed Customers or Connections A		Re-based Billed kW C	Current Tariff Service Charge D	Tariff Distribution Volumetric Rate kWh	Tariff Distribution Volumetric Rate kW F
43,121	367,560,506	0	29.9900	0.0000	0.0000
4,194	136,403,467	0	22.8500	0.0220	0.0000
500	344,496,360	857,773	174.2700	0.0000	5.0004
289	1,109,725	0	8.0900	0.0122	0.0000
360	366,104	1,010	4.9100	0.0000	15.7934
9,958	7,448,452	20,807	5.1600	0.0000	2.5043



The purpose of this sheet is to remove any rate adders included in current rates. Most applicants will not need to make an entry on this sheet.

Rate Class	Current Tariff Service Charge A	Current Tariff Distribution Volumetric Rate kWh B	Current Tariff Distribution Volumetric Rate kW C	Service Charge Rate Adders D	Distribution Volumetric kWh Rate Adders E	Distribution Volumetric kW Rate Adders F		Base Distribution Volumetric Rate kWh I = B - E	Base Distribution Volumetric Rate kW J = C - F
RESIDENTIAL SERVICE CLASSIFICATION	29.99	0.0000	0.0000				29.99	0.0000	0.0000
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	22.85	0.0220	0.0000				22.85	0.0220	0.0000
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	174.27	0.0000	5.0004				174.27	0.0000	5.0004
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	8.09	0.0122	0.0000				8.09	0.0122	0.0000
SENTINEL LIGHTING SERVICE CLASSIFICATION	4.91	0.0000	15.7934				4.91	0.0000	15.7934
STREET LIGHTING SERVICE CLASSIFICATION	5.16	0.0000	2.5043				5.16	0.0000	2.5043

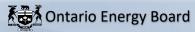


The purpose of this sheet is to calculate current revenue from rate classes.

Rate Class

Re-based Billed Customers or Connection s A	Re-based Billed kWh B	Re-based Billed kW C	Base	Current Base Distributio n Volumetric Rate kWh E	n	Service Charge Revenu G = A * D
43,121	367,560,506	0	29.99	0.0000	0.0000	15,518,
4,194	136,403,467	0	22.85	0.0220	0.0000	1,149,
500	344,496,360	857,773	174.27	0.0000	5.0004	1,045,
289	1,109,725	0	8.09	0.0122	0.0000	28,
360	366,104	1,010	4.91	0.0000	15.7934	21,
9,958	7,448,452	20,807	5.16	0.0000	2.5043	616,

	Distributio	Distributio			Distributio	Distributio	
Service Charge Revenue G = A * D *12	n Volumetric Rate Revenue kWh H = B * E	n Volumetric Rate Revenue kW I = C * F	Revenue Requiremen t from Rates J = G + H + I	Service Charge % Revenue K = G / J	n Volumetric Rate % Revenue kWh L = H / J	n Volumetric Rate % Revenue kW M = I / J	Total % Revenue N = J / R
15,518,385	0	0	15,518,385	100.0%	0.0%	0.0%	60.3%
1,149,995	3,000,876	0	4,150,871	27.7%	72.3%	0.0%	16.1%
1,045,620	0	4,289,208	5,334,828	19.6%	0.0%	80.4%	20.7%
28,056	13,539	0	41,595	67.5%	32.5%	0.0%	0.2%
21,211	0	15,951	37,163	57.1%	0.0%	42.9%	0.1%
616,599	0	52,107	668,706	92.2%	0.0%	7.8%	2.6%
18,379,867	3,014,415	4,357,266	25,751,548				100.0%
	D	^	В				

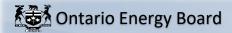


The purpose of this sheet is to enter the Revenue Cost Ratios as determined from column G on Sheet "10. Proposed R C Ratio Adj" of the applicant's 2021 Revenue to Cost Ratio Adjustment Workform (V1.0) or latest COS Decision and Order.

Under the column labeled "Direction", the applicant can choose "No Change" (i.e. no change in that rate class ratio), "Change" (i.e. the OEB ordered change from COS decision) or "Rebalance" (i.e. to apply any offset adjustments required).

### **Rate Class**

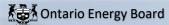
	Current	Transition	Transition	Transition	Transition	Transition
Direction	Year	Year 1	Year 2	Year 3	Year 4	Year 5
	2021	2022	2023	2024	2025	2026
Change	91.95%	92.32%	92.69%	93.06%	93.06%	93.06%
No Change	118.66%	118.66%	118.66%	118.66%	118.66%	118.66%
No Change	109.46%	109.46%	109.46%	109.46%	109.46%	109.46%
No Change	100.10%	100.10%	100.10%	100.10%	100.10%	100.10%
Change	82.28%	85.87%	89.47%	93.06%	93.06%	93.06%
Change	168.35%	152.24%	136.12%	120.00%	120.00%	120.00%



The purpose of this sheet is to allocate the Revenue Offsets (miscellaneous revenue, cell F47) found in the last COS to the various rate classes in proportion to the allocation from the Cost Allocation informational filing.

### **Rate Class**

Informational Filing Revenue Offsets A	Percentage Split C= A / B	Allocated Revenue Offsets E = D * C
973,337	62.68%	-
215,301	13.87%	-
311,444	20.06%	-
3,342	0.22%	-
4,062	0.26%	-
45,300	2.92%	-
1,552,786	100.00%	
	•	D



The purpose of this sheet is to remove the transformer allowance from volumetric rates. In Cell E47, enter your Transformer Allowance as per your 2019 Revenue to Cost Ratio Adjustment Workform (V1.0) or your last CoS Decision. Under the column labeled "Transformer Allowance in Rates" select "Yes" if included in that rate class or "No" if not included. Once selected, apply the update button to reveal input cells in which you can enter the number of kW's and the transfromer rate for each rate class.

### **Rate Class**

Transfo Allowar Rat	nce In	Transformer Allowance A		Transformer Allowance Rate E	Volumetric Distribution Rate F	Billed kW's G	Adjusted Volumetric Distribution Rate
No							
No	)						
Yes	5	(117,853)	196,422	(0.6000)	5.0004	857,773	5.1378
No							
No	)						
No	)						
			196,422	_		857,773	
	•	В	D	•		Н	



The purpose of this sheet is to calculate revenue by rate class that inlcudes Revenue Offsets and excludes Transformer Allowance prior to Revenue Cost Ratio Adjustment reallocation.

Rate Class	Billed Customers or Connection s A	Billed kWh B	Billed kW C		n	Base Distributio n Volumetric Rate kW F	Service Charge G = A * D *12	n Volumetric Rate kWh	Distributio n Volumetric Rate kW I = C * F	Revenue Requiremen t from Rates J = G + H + I		Adjusted Revenue L = J + K
RESIDENTIAL SERVICE CLASSIFICATION	43,121	367,560,506	0	29.99	0.0000	0.0000	15,518,385	0	0	15,518,385	0	15,518,385
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	4,194	136,403,467	0	22.85	0.0220	0.0000	1,149,995	3,000,876	0	4,150,871	0	4,150,871
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	500	344,496,360	857,773	174.27	0.0000	5.1378	1,045,620	0	4,407,061	5,452,681	0	5,452,681
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	289	1,109,725	0	8.09	0.0122	0.0000	28,056	13,539	0	41,595	0	41,595
SENTINEL LIGHTING SERVICE CLASSIFICATION	360	366,104	1,010	4.91	0.0000	15.7934	21,211	0	15,951	37,163	0	37,163
STREET LIGHTING SERVICE CLASSIFICATION	9,958	7,448,452	20,807	5.16	0.0000	2.5043	616,599	0	52,107	668,706	0	668,706
							18,379,867	3,014,415	4,475,120	25,869,401	0	25,869,401

### Proposed Revenue Cost Ratio Adjustment

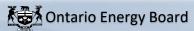
This worksheet adjusts revenue-to-cost ratios in order to address any shortfall or over recovery (Out of Balance) that would result from implementing the revenue-to-cost ratios entered on sheet "6. Decision Cost Revenue Adj". To do this, one or more rate classes must indicate "Rebalance" on sheet 6.

### There are three options for attributing any Out of Balance to rate classes.

- 1. To adjust a single rate class so that the entire Out of Balance is absorbed by that rate class, select the green cell for the rate class under "Proposed Revenue to Cost Ratio" labelled Column D. To use this option, click the button "Iterate
- 2. To apportion the Out of Balance across all green cells such that all green cells are increased by the same amount relative to Column B. To use this option, click the button "Iterate All Equal Percentage Change."
- 3. To apportion the Out of Balance such that each class is allocated the Out of Balance in proportion to its share of the allocated costs in Column C. To use this option, click the button "Iterate All Proportionate Change."

	(	urrent Revenu	е		Proposed Revenue Cost	Final Adjusted						
Rate Class		Adjusted Revenue		Cost Ratio Re-Allocated Cost		Ratio	Revenue		Dollar Change		Percentage Change	
		Α	В		C = A / B	D		E = C * D	F	= E - C	G = (E / C) - 1	
RESIDENTIAL SERVICE CLASSIFICATION	\$	15,518,385	0.92	\$	16,876,983	0.92	\$	15,580,830	\$	62,445	0.4%	
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	\$	4,150,871	1.19	\$	3,498,122	1.19	\$	4,150,871	-\$	0	0.0%	
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	\$	5,452,681	1.09	\$	4,981,437	1.09	\$	5,452,681	-\$	0	0.0%	
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	\$	41,595	1.00	\$	41,553	1.00	\$	41,595	\$	0	0.0%	
SENTINEL LIGHTING SERVICE CLASSIFICATION	\$	37,163	0.82	\$	45,166	0.86	\$	38,784	\$	1,621	4.4%	
STREET LIGHTING SERVICE CLASSIFICATION	\$	668,706	1.68	\$	397,212	1.52	\$	604,715	-\$	63,991	-9.6%	
	\$	25.869.401		\$	25.840.473		\$	25,869,477	S	75	0.0%	

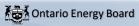
Out of Balance - 75
Final ? No



Proposed Revenue from Revenue Cost Ratio Adjustment

### **Rate Class**

Adjusted Revenue By Revenue Cost Ratio			ocated Re- sed Revenue Offsets	Re fr	Revenue equirement rom Rates Before ransformer Allowance	T	Re-based ransformer Allowance	Revenue Requirement from Rates		
	Α		В		C = A - B		D		E = C + D	
\$	15,580,830	\$	-	\$	15,580,830	\$	-	\$	15,580,830	
\$	4,150,871	\$	-	\$	4,150,871	\$	-	\$	4,150,871	
\$	5,452,681	\$	-	\$	5,452,681	-\$	117,853	\$	5,334,828	
\$	41,595	\$	-	\$	41,595	\$	-	\$	41,595	
\$	38,784	\$	-	\$	38,784	\$	-	\$	38,784	
\$	604,715	\$	-	\$	604,715	\$	-	\$	604,715	
\$	25,869,477	\$	-	\$	25,869,477	-\$	117,853	\$	25,751,623	



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## Revenue to Cost Ratio Adjustment Model for 2022 IRM Filers

Proposed fixed and variable revenue allocation

RESIDENTIAL SERVICE CLASSIFICATION
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION
SENTINEL LIGHTING SERVICE CLASSIFICATION
STREET LIGHTING SERVICE CLASSIFICATION

**Rate Class** 

Revenue Requirement from Rates		Service Charge % Revenue	Distribution Volumetric Rate % Revenue kWh	Distribution Volumetric Rate % Revenue kW	Service Charge Revenue			Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW		Revenue Requirement from Rates by Rate Class	
	Α	В	С	D		E = A * B		F = A * C		G = A * D		H = E + F + G
\$	15,580,830	100.0%	0.0%	0.0%	\$	15,580,830	\$	-	\$	-	\$	15,580,830
\$	4,150,871	27.7%	72.3%	0.0%	\$	1,149,995	\$	3,000,876	\$	-	\$	4,150,871
\$	5,334,828	19.6%	0.0%	80.4%	\$	1,045,620	\$	-	\$	4,289,208	\$	5,334,828
\$	41,595	67.5%	32.5%	0.0%	\$	28,056	\$	13,539	\$	-	\$	41,595
\$	38,784	57.1%	0.0%	42.9%	\$	22,137	\$	-	\$	16,647	\$	38,784
\$	604,715	92.2%	0.0%	7.8%	\$	557,595	\$	-	\$	47,121	\$	604,715
\$	25,751,623				\$	18,384,233	\$	3,014,415	\$	4,352,976	\$	25,751,623



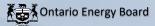
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## Revenue to Cost Ratio Adjustment Model for 2022 IRM Filers

Proposed fixed and variable rates

Date		

Service Charge Revenue	Dis	stribution Volumetric Rate Revenue kWh	Dis	Rate Revenue kW	Re-based Billed Customers or Connections	Re-based Billed kWh E		Proposed Base Service Charge G = A / D / 12	Proposed Base Distribution Volumetric Rate kWh H = B / E	Proposed Base Distribution Volumetric Rate kW
Α		В		С	D		Г	G = A/D/12	n = D / C	1 = C / F
##########	\$	-	\$	-	43,121	367,560,506	0	30.11	-	-
\$1,149,995	\$	3,000,876	\$	-	4,194	136,403,467	0	22.85	0.0220	-
\$1,045,620	\$	-	\$	4,289,208	500	344,496,360	857,773	174.27	-	5.0004
\$ 28,056	\$	13,539	\$	-	289	1,109,725	0	8.09	0.0122	-
\$ 22,137	\$	-	\$	16,647	360	366,104	1,010	5.12	-	16.4825
\$ 557,595	\$	-	\$	47,121	9,958	7,448,452	20,807	4.67	-	2.2647



Proposed adjustments to Base Service Charge and Distribution Volumetric Rate. Enter the adjustments found in column M and N below into Tab 16 of the 2020 IRM Rate Generator Model.

		Proposed Base Proposed Ba					Current Base	Current Base			Adjustment	Adjustmen	t
			Distribution	Distribution	Curi	rent Base	Distribution	Distribution	Adj	ustment	Required Base	Required Ba	se
	Propo	sed Base	Volumetric	Volumetric	S	ervice	Volumetric	Volumetric	Requ	iired Base	Distribution	Distribution	a
Rate Class	Servic	ce Charge	Rate kWh	Rate kW	C	harge	Rate kWh	Rate kW	Servi	ce Charge V	olumetric Rate kWl	Volumetric Rate	e kW
		Α	В	С		D	E	F	G	= A - D	H = B - E	I = C - F	
RESIDENTIAL SERVICE CLASSIFICATION	\$	30.11 \$	- :	-	\$	29.99	\$ -	\$ -	\$	0.12 \$	-	\$	-
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	\$	22.85 \$	0.0220	-	\$	22.85	\$ 0.0220	\$ -	\$	- \$	-	\$	-
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	\$	174.27 \$	- :	5.0004	\$	174.27	\$ -	\$ 5.0004	\$	- \$	-	\$	-
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	\$	8.09 \$	0.0122	-	\$	8.09	\$ 0.0122	\$ -	\$	- \$	-	\$	-
SENTINEL LIGHTING SERVICE CLASSIFICATION	\$	5.12 \$	- :	16.4825	\$	4.91	\$ -	\$ 15.7934	\$	0.21 \$	-	\$ 0	.6891
STREET LIGHTING SERVICE CLASSIFICATION	\$	4.67 \$	- :	2.2647	\$	5.16	\$ -	\$ 2.5043	-\$	0.49 \$	-	-\$ 0	.2396