

<b>Utility Name</b>	Greater Sudbury Hydro Inc.	
Assigned EB Number	EB-2020-0024	
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Phone Number	705-675-0514	
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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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Current

Tariff

0.0000

0.0000

Current

4.6100

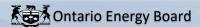
5.5400

Current

Tariff

14.8222

2.6929



# Revenue to Cost Ratio Adjustment Model for 2021 IRM Filers

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 Class	Fixed Metric	C Vol Metric	Customers or Connections A			Service Charge D	Volumetric Rate kWh	Volumetric Rate kW F
RESIDENTIAL SERVICE CLASSIFICATION	Customers	kWh	43,121	367,560,506	0	29.3100	0.0000	0.0000
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	Customers	kWh	4,194	136,403,467	0	22.4200	0.0216	0.0000
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	Customers	kW	500	344,496,360	857,773	171.0200	0.0000	4.9072
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	Connections	kWh	289	1,109,725	0	7.9400	0.0120	0.0000

kW

Connections

Connections

Re-based

360

9.958

366,104

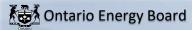
7,448,452

1,010

20,807

SENTINEL LIGHTING SERVICE CLASSIFICATION

STREET LIGHTING SERVICE CLASSIFICATION



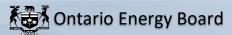
The purpose of this sheet is to remove any rate adders included in current rates. Most applicants will not need to make an entry on this sheet.

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
RESIDENTIAL SERVICE CLASSIFICATION	29.31	0.0000	0.0000			
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	22.42	0.0216	0.0000			
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	171.02	0.0000	4.9072			
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	7.94	0.0120	0.0000			
SENTINEL LIGHTING SERVICE CLASSIFICATION	4.61	0.0000	14.8222			
STREET LIGHTING SERVICE CLASSIFICATION	5.54	0.0000	2.6929			



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

Rate Class	Re-based Billed kWh	Re-based Billed kW		Distribution Volumetric	Current Base Distribution Volumetric Rate kW	Service Charge Revenue	Distribution Volumetric Rate Revenue kWh	Distribution Volumetric Rate Revenue kW	Revenue Requiremen t from Rates	
	Α	В	С	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I
RESIDENTIAL SERVICE CLASSIFICATION	43,121	367,560,506	0	29.31	0.0000	0.0000	15,166,518	0	0	15,166,518
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	4,194	136,403,467	0	22.42	0.0216	0.0000	1,128,354	2,946,315	0	4,074,669
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	500	344,496,360	857,773	171.02	0.0000	4.9072	1,026,120	0	4,209,264	5,235,384
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	289	1,109,725	0	7.94	0.0120	0.0000	27,536	13,317	0	40,853
SENTINEL LIGHTING SERVICE CLASSIFICATION	360	366,104	1,010	4.61	0.0000	14.8222	19,915	0	14,970	34,886
STREET LIGHTING SERVICE CLASSIFICATION	9,958	7,448,452	20,807	5.54	0.0000	2.6929	662,008	0	56,031	718,039
							18.030.451	2.959.632	4.280.265	25,270,348

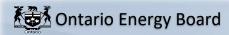


The purpose of this sheet is to enter the Revenue Cost Ratios as determined from column G on Sheet "10. Proposed R C Ratio Adj" of the applicant's 2020 Revenue to Cost Ratio Adjustment Workform (V1.3) or latest COS Decision and Order.

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**

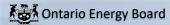
	Current	Transition	Transition	Transition	Transition	Transition
Direction	Year	Year 1	Year 2	Year 3	Year 4	Year 5
	2020	2021	2022	2023	2024	2025
Change	91.59%	91.95%	92.32%	92.69%	93.06%	0.00%
No Change	118.66%	118.66%	118.66%	118.66%	118.66%	118.66%
No Change	109.46%	109.46%	109.46%	109.46%	109.46%	109.46%
No Change	100.10%	100.10%	100.10%	100.10%	100.10%	100.10%
Change	78.69%	82.28%	85.87%	89.47%	93.06%	0.00%
Change	184.47%	168.35%	152.24%	136.12%	120.00%	0.00%



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**

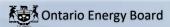
Informational Filing Revenue Offsets	Percentage Split	Allocated Revenue Offsets
Α	C= A / B	E = D * C
973,337	62.68%	-
215,301	13.87%	-
311,444	20.06%	-
3,342	0.22%	-
4,062	0.26%	-
45,300	2.92%	-
1,552,786	100.00%	
В		D



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.

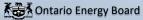
### Rate Class

Transformer Allowance In Rate			Transformer Allowance Rate E	Volumetric Distribution Rate F	Billed kW's	Adjusted Volumetric Distribution Rate
No						
No						
Yes	(117,853)	196,422	(0.6000)	4.9072	857,773	5.0446
No						
No						
No						
		196,422			857,773	
·	В	D			Н	



The purpose of this sheet is to calculate revenue by rate class that inicudes Revenue Offsets and excludes Transformer Allowance prior to Revenue Cost Ratio Adjustment re-

	Billed					Base		Distribution Distribution					
	Customers			Base	Distribution	Distribution		Volumetric	Volumetric	Revenue			
	or			Service	Volumetric	Volumetric	Service	Rate	Rate	Requirement			
Rate Class	Connections	Billed kWh	Billed kW	Charge	Rate kWh	Rate kW	Charge	kWh	kW	from Rates			
	Α	В	С	D	E	F	G = A * D *12	H = B * E	I = C * F	J = G + H + I			
RESIDENTIAL SERVICE CLASSIFICATION	43,121	367,560,506	0	29.31	0.0000	0.0000	15,166,518	0	0	15,166,518			
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	4,194	136,403,467	0	22.42	0.0216	0.0000	1,128,354	2,946,315	0	4,074,669			
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	500	344,496,360	857,773	171.02	0.0000	5.0446	1,026,120	0	4,327,117	5,353,237			
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	289	1,109,725	0	7.94	0.0120	0.0000	27,536	13,317	0	40,853			
SENTINEL LIGHTING SERVICE CLASSIFICATION	360	366,104	1,010	4.61	0.0000	14.8222	19,915	0	14,970	34,886			
STREET LIGHTING SERVICE CLASSIFICATION	9,958	7,448,452	20,807	5.54	0.0000	2.6929	662,008	0	56,031	718,039			
							18,030,451	2,959,632	4,398,118	25,388,201			



v 1.0

### Revenue to Cost Ratio Adjustment Model for 2021 IRM Filers

### 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."

Rate Class	Revenue	Cost Ratio	Re-Allo		Ratio	nai Adjusted Revenue	D	ollar Change	Percentage Change
	Α	В	C = /	A/B	D	E = C * D		F = E - C	G = (E / C) - 1
RESIDENTIAL SERVICE CLASSIFICATION	\$ 15,166,518	0.92	\$ 1	16,559,847	0.92	\$ 15,227,532	\$	61,014	0.4%
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	\$ 4,074,669	1.19	\$	3,433,951	1.19	\$ 4,074,669	-\$	0	0.0%
GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	\$ 5,353,237	1.09	\$	4,890,641	1.09	\$ 5,353,237	\$	0	0.0%
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	\$ 40,853	1.00	\$	40,810	1.00	\$ 40,853	\$	0	0.0%
SENTINEL LIGHTING SERVICE CLASSIFICATION	\$ 34,886	0.79	\$	44,333	0.82	\$ 36,478	\$	1,593	4.6%
STREET LIGHTING SERVICE CLASSIFICATION	\$ 718,039	1.84	\$	389,244	1.68	\$ 655,307	-\$	62,732	-8.7%
	\$ 25.388.201		\$ 2	25.358.825		\$ 25.388.075	-\$	126	0.0%

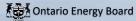
Out of Balance 12



Proposed Revenue from Revenue Cost Ratio Adjustment

### **Rate Class**

	Adjusted Revenue By		llocated Re-	Re	Revenue equirement rom Rates Before		e-based		Revenue
Revenue Cost Ratio		Ва	sed Revenue Offsets		ansformer Allowance		nsformer lowance		equirement om Rates
A			В		C = A - B		D	ı	E = C + D
\$	15,227,532	\$	-	\$	15,227,532	\$	-	\$	15,227,532
\$	4,074,669	\$	-	\$	4,074,669	\$	-	\$	4,074,669
\$	5,353,237	\$	-	\$	5,353,237	-\$	117,853	\$	5,235,384
\$	40,853	\$	-	\$	40,853	\$	-	\$	40,853
\$	36,478	\$	-	\$	36,478	\$	-	\$	36,478
\$	655,307	\$	-	\$	655,307	\$	-	\$	655,307
\$	25,388,075	\$	-	\$	25,388,075	-\$	117,853	\$	25,270,222



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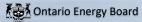
### Revenue to Cost Ratio Adjustment Model for 2021 IRM Filers

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		rement Service Charge % Rate % Revenue		Distribution Volumetric Rate % Revenue kW	Rate % Revenue Servic		Service Charge Revenue		Distribution Volumetric Rate Revenue kWh			stribution Volumetric Rate Revenue kW	R	Revenue equirement from ites by Rate Class
	Α	В	С	D		E = A * B		F = A * C		G = A * D		H = E + F + G		
\$	15,227,532	100.0%	0.0%	0.0%	\$	15,227,532	\$	-	\$	-	\$	15,227,532		
\$	4,074,669	27.7%	72.3%	0.0%	\$	1,128,354	\$	2,946,315	\$	-	\$	4,074,669		
\$	5,235,384	19.6%	0.0%	80.4%	\$	1,026,120	\$	-	\$	4,209,264	\$	5,235,384		
\$	40,853	67.4%	32.6%	0.0%	\$	27,536	\$	13,317	\$	-	\$	40,853		
\$	36,478	57.1%	0.0%	42.9%	\$	20,824	\$	-	\$	15,654	\$	36,478		
\$	655,307	92.2%	0.0%	7.8%	\$	604,171	\$	-	\$	51,136	\$	655,307		
\$	25,270,222				\$	18,034,537	\$	2,959,632	\$	4,276,054	\$	25,270,222		



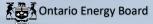
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### Revenue to Cost Ratio Adjustment Model for 2021 IRM Filers

Proposed fixed and variable rates

Ra	te Class
RESIDENTIAL SERVICE CLASSIFICATION	N
GENERAL SERVICE LESS THAN 50 KW S	SERVICE CLASSIFICATION
GENERAL SERVICE 50 to 4,999 kW SERV	ICE CLASSIFICATION
UNMETERED SCATTERED LOAD SERVICE	CE CLASSIFICATION
SENTINEL LIGHTING SERVICE CLASSIFI	CATION
STREET LIGHTING SERVICE CLASSIFICA	ATION

Service Distribution Volumetric D Charge Rate Revenue Revenue kWh A B		Dis	stribution Volumetric Rate Revenue kW C	Re-based Billed Customers or Connections D	Re-based Re-based Billed kWh Billed kW E F		Proposed Base Service Charge G = A / D / 12	Proposed Base Distribution Volumetric Rate kWh H = B / E	Proposed Base Distribution Volumetric Rate kW I = C / F	
##########	\$	-	\$	-	43,121	367,560,506	0	29.43	-	-
\$ 1,128,354	\$	2,946,315	\$	-	4,194	136,403,467	0	22.42	0.0216	-
\$ 1,026,120	\$	-	\$	4,209,264	500	344,496,360	857,773	171.02	-	4.9072
\$ 27,536	\$	13,317	\$	-	289	1,109,725	0	7.94	0.0120	-
\$ 20,824	\$	-	\$	15,654	360	366,104	1,010	4.82	-	15.4989
\$ 604,171	\$	-	\$	51,136	9,958	7,448,452	20,807	5.06	-	2.4576



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.

			Р	roposed Base	Proposed Base	Current Base Current Base									Adjustment	i .
				Distribution	Distribution	Curr	ent Base	Distribution	Distribu	ıtion	Adju	stment	Adjus	tment Required	Required Bas	se e
		Propos	sed Base	Volumetric	Volumetric	S	ervice	Volumetric	Volume	etric	Requir	red Base	Bas	e Distribution	Distribution	ı
	Rate Class	Service Charge		Rate kWh	Rate kW	Charge		Rate kWh	Rate kW		Service	e Charge	Volumetric Rate kWh		Volumetric Rate kW	
			Α	В	С		D	E	F		G =	- A - D		H = B - E	I = C - F	
	RESIDENTIAL SERVICE CLASSIFICATION	\$	29.43 \$	-	\$ -	\$	29.31	\$ -	\$	-	\$	0.12	\$	-	\$	-
	GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	\$	22.42 \$	0.0216	\$ -	\$	22.42	\$ 0.0216	\$	-	\$	-	\$	-	\$	-
	GENERAL SERVICE 50 to 4,999 kW SERVICE CLASSIFICATION	\$	171.02 \$	-	\$ 4.9072	\$	171.02	\$ -	\$ 4	.9072	\$	-	\$	-	\$	-
	UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	\$	7.94 \$	0.0120	\$ -	\$	7.94	\$ 0.0120	\$	-	\$	-	\$	-	\$	-
	SENTINEL LIGHTING SERVICE CLASSIFICATION	\$	4.82 \$	-	\$ 15.4989	\$	4.61	\$ -	\$ 14	.8222	\$	0.21	\$	-	\$ 0.0	6767
	STREET LIGHTING SERVICE CLASSIFICATION	\$	5.06 \$	-	\$ 2.4576	\$	5.54	\$ -	\$ 2	2.6929	-\$	0.48	\$	-	-\$ 0.:	2353