



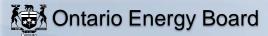
Version 8.00

Utility Name	Niagara-on-the-Lake Hydro Inc.	
Service Territory	Niagara-on-the-Lake	
Assigned EB Number	EB-2018-0056	
Name and Title	Jeff Klassen, VP Finance	
Phone Number	905-468-4235 ext 380	
Email Address	iklassen@notlhydro.com	
Test Year	2019	
Bridge Year	2018	
Last Rebasing Year	2014	

The RRWF has been enhanced commencing with 2017 rate applications to provide estimated base distribution rates. The enhanced RRWF is not intended to replace a utility's formal rate generator model which should continue to be the source of the proposed rates as well as the final ones at the conclusion of the proceeding. The load forecasting addition made to this model is intended to be demonstrative only and does not replace the information filed in the utility's application. In an effort to minimize the incremental work required from utilities, the cost allocation and rate design additions to this model do in fact replace former appendices that were required to be filed as part of the cost of service (Chapter 2) filing requirements.

This Workbook Model is protected by copyright and is being made available to you solely for the purpose of filing your application. You may use and copy this model for that purpose, and provide a copy of this model to any person that is advising or assisting you in that regard. Except as indicated above, any copying, reproduction, publication, sale, adaptation, translation, modification, reverse engineering or other use or dissemination of this model without the express written consent of the Ontario Energy Board is prohibited. If you provide a copy of this model to a person that is advising or assisting you in preparing the application or reviewing your draft rate order, you must ensure that the person understands and agrees to the restrictions noted above.

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.



1. Info 8. Rev_Def_Suff

2. Table of Contents 9. Rev_Reqt

3. Data_Input_Sheet 10. Load Forecast

4. Rate Base 11. Cost Allocation

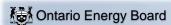
<u>5. Utility Income</u> <u>12. Residential Rate Design</u>

6. Taxes_PILs 13. Rate Design and Revenue Reconciliation

7. Cost_of_Capital 14. Tracking Sheet

Notes:

- (1) Pale green cells represent inputs
- (2) Pale green boxes at the bottom of each page are for additional notes
- (3) Pale yellow cells represent drop-down lists
- (4) Please note that this model uses MACROS. Before starting, please ensure that macros have been enabled.
- (5) Completed versions of the Revenue Requirement Work Form are required to be filed in working Microsoft Excel format.



Data Input (1)

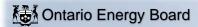
		Initial Application	(2)			(6)	Per Board Decision	_
1	Rate Base							
	Gross Fixed Assets (average)	\$56,132,843		\$	56,132,843		\$56,132,843	
	Accumulated Depreciation (average)	(\$27,607,193)	(5)		(\$27,607,193)		(\$27,607,193))
	Allowance for Working Capital:							
	Controllable Expenses	\$3,009,141		\$ \$	3,009,141		\$3,009,141	
	Cost of Power	\$25,955,675 7.50%	(9)	\$	25,955,675	(9)	\$25,955,675	(9)
	Working Capital Rate (%)	7.5070	. ,					
2	Utility Income							
	Operating Revenues:							
	Distribution Revenue at Current Rates Distribution Revenue at Proposed Rates	\$5,494,023 \$5,544,424						
	Other Revenue:	\$5,544,424						
	Specific Service Charges	\$87,551						
	Late Payment Charges	\$54,284						
	Other Distribution Revenue	\$310,170						
	Other Income and Deductions	\$50,934						
	Total Revenue Offsets	\$502,939	(7)					
	Total Revenue Offsets	φ502,959	.,					
	Operating Expenses:							
	OM+A Expenses	\$2,974,186		\$	2,974,186		\$2,974,186	
	Depreciation/Amortization	\$1,157,365		\$	1,157,365		\$1,157,365	
	Property taxes Other expenses	\$34,955		\$	34,955		\$34,955	
	Other expenses							
3	Taxes/PILs							
	Taxable Income:	(0000 540)	(2)					
	Adjustments required to arrive at taxable income	(\$800,512)	(3)					
	Utility Income Taxes and Rates:							
	Income taxes (not grossed up)	\$80,723						
	Income taxes (grossed up)	\$109,828						
	Federal tax (%)	15.00%						
	Provincial tax (%) Income Tax Credits	11.50%						
	income Tax Credits	\$ -						
4	Capitalization/Cost of Capital							
	Capital Structure:							
	Long-term debt Capitalization Ratio (%)	56.0% 4.0%	(8)			(8)		(8)
	Short-term debt Capitalization Ratio (%) Common Equity Capitalization Ratio (%)	40.0%	(0)			(5)		(-)
	Prefered Shares Capitalization Ratio (%)	40.078						
	1 Total of Charles Capitalization (10)	100.0%						
	Control Control							
	Cost of Capital Long-term debt Cost Rate (%)	3.71%						
	Short-term debt Cost Rate (%)	2.29%						
	Common Equity Cost Rate (%)	9.00%						
	Prefered Shares Cost Rate (%)	0.00%						

Notes:

General

Data inputs are required on Sheets 3. Data from Sheet 3 will automatically complete calculations on sheets 4 through 9 (Rate Base through Revenue Requirement). Sheets 4 through 9 do not require any inputs except for notes that the Applicant may wish to enter to support the results. Pale green cells are available on sheets 4 through 9 to enter both footnotes beside key cells and the related text for the notes at the bottom of each sheet.

- (1) All inputs are in dollars (\$) except where inputs are individually identified as percentages (%)
- Data in column E is for Application as originally filed. For updated revenue requirement as a result of interrogatory responses, technical or settlement conferences, etc., use column M and Adjustments in column I
- (3) Net of addbacks and deductions to arrive at taxable income.
- (4) Average of Gross Fixed Assets at beginning and end of the Test Year
- Average of Accumulated Depreciation at the beginning and end of the Test Year. Enter as a negative amount.
- (6) Select option from drop-down list by clicking on cell M10. This column allows for the application update reflecting the end of discovery or Argument-in-Chief. Also, the outcome of any Settlement Process can be reflected.
- (7) Input total revenue offsets for deriving the base revenue requirement from the service revenue requirement
- 4.0% unless an Applicant has proposed or been approved for another amount.
- The default Working Capital Allowance factor is 7.5% (of Cost of Power plus controllable expenses), per the letter issued by the Board on June 3, 2015. Alternatively, a WCA factor based on lead-lag study, with supporting rationale could be provided.



Rate Base and Working Capital

D 4 4	D
Rate	Rase

Line No.	Particulars		Initial Application				Per Board Decision
1	Gross Fixed Assets (average)	(2)	\$56,132,843	\$ -	\$56,132,843	\$ -	\$56,132,843
2	Accumulated Depreciation (average)	(2)	(\$27,607,193)	\$ -	(\$27,607,193)	\$ -	(\$27,607,193)
3	Net Fixed Assets (average)	(2)	\$28,525,650	\$ -	\$28,525,650	\$ -	\$28,525,650
4	Allowance for Working Capital	(1)	\$2,172,361	(\$2,172,361)	\$-	<u> </u>	\$ -
5	Total Rate Base		\$30,698,011	(\$2,172,361)	\$28,525,650	\$ -	\$28,525,650

(1) Allowance for Working Capital - Derivation

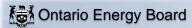
Controllable Expenses		\$3,009,141	\$ -	\$3,009,141	\$ -	\$3,009,141
Cost of Power		\$25,955,675	\$ -	\$25,955,675	\$ -	\$25,955,675
Working Capital Base		\$28,964,816	\$ -	\$28,964,816	\$ -	\$28,964,816
	40					
Working Capital Rate %	(1)	7.50%	-7.50%	0.00%	0.00%	0.00%
Working Capital Allowance		\$2,172,361	(\$2,172,361)	\$ -	\$ -	\$ -

10 Notes

8

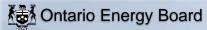
Some Applicants may have a unique rate as a result of a lead-lag study. The default rate for 2018 cost of service applications is 7.5%, per the letter issued by the Board on June 3, 2015.

Average of opening and closing balances for the year.



Utility Income

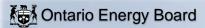
Line No.	Particulars	Initial Application				Per Board Decision
1	Operating Revenues: Distribution Revenue (at Proposed Rates)	\$5,544,424	(\$5,544,424)	\$ -	\$ -	\$ -
2	Other Revenue	\$502,939	(\$502,939)	<u> </u>	\$ -	\$ -
3	Total Operating Revenues	\$6,047,363	(\$6,047,363)	<u> </u>	\$ -	<u> </u>
4 5 6 7 8	Operating Expenses: OM+A Expenses Depreciation/Amortization Property taxes Capital taxes Other expense	\$2,974,186 \$1,157,365 \$34,955 \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	\$2,974,186 \$1,157,365 \$34,955 \$-	\$ - \$ - \$ - \$ - \$ -	\$2,974,186 \$1,157,365 \$34,955 \$ -
9	Subtotal (lines 4 to 8)	\$4,166,506	\$ -	\$4,166,506	\$ -	\$4,166,506
10	Deemed Interest Expense	\$665,901	(\$665,901)	\$ -	<u> </u>	\$ -
11	Total Expenses (lines 9 to 10)	\$4,832,407	(\$665,901)	\$4,166,506	<u> </u>	\$4,166,506
12	Utility income before income taxes	\$1,214,956	(\$5,381,462)	(\$4,166,506)	\$ -	(\$4,166,506)
13	Income taxes (grossed-up)	\$109,828	<u> </u>	\$109,828	\$ -	\$109,828
14	Utility net income	\$1,105,128	(\$5,381,462)	(\$4,276,333)	<u>\$ -</u>	(\$4,276,333)
Notes	Other Revenues / Revenues	nue Offsets				
(1)	Specific Service Charges Late Payment Charges Other Distribution Revenue Other Income and Deductions	\$87,551 \$54,284 \$310,170 \$50,934		\$ - \$ - \$ - \$ -		\$ - \$ - \$ - \$ - \$ -
	Total Revenue Offsets	\$502,939	<u> </u>	<u> </u>	<u> </u>	<u> </u>



Taxes/PILs

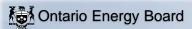
Line No.	Particulars	Application		Per Board Decision
	<u>Determination of Taxable Income</u>			
1	Utility net income before taxes	\$1,105,128	\$ -	\$ -
2	Adjustments required to arrive at taxable utility income	(\$800,512)	\$ -	\$ -
3	Taxable income	\$304,617	\$ -	<u> </u>
	Calculation of Utility income Taxes			
4	Income taxes	\$80,723	\$80,723	\$80,723
6	Total taxes	\$80,723	\$80,723	\$80,723
7	Gross-up of Income Taxes	\$29,104	\$29,104	\$29,104
8	Grossed-up Income Taxes	\$109,828	\$109,828	\$109,828
9	PILs / tax Allowance (Grossed-up Income taxes + Capital taxes)	\$109,828	\$109,828	\$109,828
10	Other tax Credits	\$ -	\$ -	\$ -
	Tax Rates			
11 12 13	Federal tax (%) Provincial tax (%) Total tax rate (%)	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%	15.00% 11.50% 26.50%

Notes



Capitalization/Cost of Capital

Line No.	Particulars	Capitaliz	zation Ratio	Cost Rate	Return
		Initial A	Application		
	Debt	(%)	(\$)	(%)	(\$)
1 2	Long-term Debt Short-term Debt	56.00% 4.00%	\$17,190,886 \$1,227,920	3.71% 2.29%	\$637,782 \$28,119
3	Total Debt	60.00%	\$18,418,806	3.62%	\$665,901
4	Equity Common Equity	40.00%	\$12,279,204	9.00%	\$1,105,128
5 6	Preferred Shares Total Equity	0.00% 40.00%	\$ - \$12,279,204	9.00%	\$ - \$1,105,128
7	Total	100.00%	\$30,698,011	5.77%	\$1,771,030
		(0/)	(0)	(04)	(0)
	Debt	(%)	(\$)	(%)	(\$)
1 2	Long-term Debt Short-term Debt	0.00% 0.00%_	\$ - \$ -	0.00%	\$ - \$ -
3	Total Debt	0.00%	\$ -	0.00%	<u> </u>
4	Equity Common Equity	0.00%	\$ -	0.00%	\$ -
5 6	Preferred Shares Total Equity	0.00%	<u> </u>	0.00%	<u> </u>
7	Total	0.00%	\$28,525,650	0.00%	\$ -
			rd Decision		
	Debt	(%)	(\$)	(%)	(\$)
8 9	Long-term Debt Short-term Debt	0.00% 0.00%	\$ - \$ -	3.71% 2.29%	\$ - \$ -
10	Total Debt	0.00%	\$ -	0.00%	\$ -
11	Equity Common Equity	0.00%	\$ -	9.00%	\$ -
12 13	Preferred Shares Total Equity	0.00%	\$ - \$ -	0.00%	\$ - \$ -
14	Total	0.00%	\$28,525,650	0.00%	\$ -
Notos					
Notes					



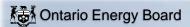
Revenue Deficiency/Sufficiency

nitial Application	Per Board Decision

Line No.	Particulars	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates	At Current Approved Rates	At Proposed Rates		
1 2 3	Revenue Deficiency from Below Distribution Revenue Other Operating Revenue Offsets - net	\$5,494,023 \$502,939	\$50,401 \$5,494,023 \$502,939	\$5,494,023 \$ -	(\$1,616,137) \$7,160,561 \$ -	\$ - \$ -	\$5,668,715 (\$5,668,715) \$ -		
4	Total Revenue	\$5,996,962	\$6,047,363	\$5,494,023	\$5,544,424	\$ -	\$ -		
5 6 8	Operating Expenses Deemed Interest Expense Total Cost and Expenses	\$4,166,506 \$665,901 \$4,832,407	\$4,166,506 \$665,901 \$4,832,407	\$4,166,506 \$ - \$4,166,506	\$4,166,506 \$ - \$4,166,506	\$4,166,506 \$ - \$4,166,506	\$4,166,506 \$ - \$4,166,506		
9	Utility Income Before Income Taxes	\$1,164,555	\$1,214,956	\$1,327,517	\$1,377,918	(\$4,166,506)	(\$4,166,506)		
10	Tax Adjustments to Accounting Income per 2013 PILs model	(\$800,512)	(\$800,512)	(\$800,512)	(\$800,512)	\$ -	\$ -		
11	Taxable Income	\$364,043	\$414,445	\$527,005	\$577,407	(\$4,166,506)	(\$4,166,506)		
12 13	Income Tax Rate Income Tax on Taxable Income	26.50% \$96,471	26.50% \$109,828	26.50% \$139,656	26.50% \$153,013	26.50% \$ -	26.50% \$ -		
14	Income Tax Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
15	Utility Net Income	\$1,068,083	\$1,105,128	\$1,187,861	(\$4,276,333)	(\$4,166,506)	(\$4,276,333)		
16	Utility Rate Base	\$30,698,011	\$30,698,011	\$28,525,650	\$28,525,650	\$28,525,650	\$28,525,650		
17	Deemed Equity Portion of Rate Base	\$12,279,204	\$12,279,204	\$ -	\$ -	\$ -	\$ -		
18	Income/(Equity Portion of Rate Base)	8.70%	9.00%	0.00%	0.00%	0.00%	0.00%		
19	Target Return - Equity on Rate Base	9.00%	9.00%	0.00%	0.00%	0.00%	0.00%		
20	Deficiency/Sufficiency in Return on Equity	-0.30%	0.00%	0.00%	0.00%	0.00%	0.00%		
21 22	Indicated Rate of Return Requested Rate of Return on Rate Base	5.65% 5.77%	5.77% 5.77%	4.16% 0.00%	0.00% 0.00%	-14.61% 0.00%	0.00% 0.00%		
23	Deficiency/Sufficiency in Rate of Return	-0.12%	0.00%	4.16%	0.00%	-14.61%	0.00%		
24 25 26	Target Return on Equity Revenue Deficiency/(Sufficiency) Gross Revenue Deficiency/(Sufficiency)	\$1,105,128 \$37,045 \$50,401 ⁽¹⁾	\$1,105,128 \$ -	\$ - (\$1,187,861) (\$1,616,137) ⁽¹⁾	\$ - \$ -	\$ - \$4,166,506 \$5,668,715 (1)	\$ - \$ -		

Notes

Revenue Deficiency/Sufficiency divided by (1 - Tax Rate)



Revenue Requirement

Line No.	Particulars	Application				Per Board Decision	
1	OM&A Expenses	\$2,974,186		\$2,974,186		\$2,974,186	
2	Amortization/Depreciation	\$1,157,365		\$1,157,365		\$1,157,365	
3	Property Taxes	\$34,955		\$34,955		\$34,955	
5	Income Taxes (Grossed up)	\$109,828		\$109,828		\$109,828	
6	Other Expenses	\$ -					
7	Return						
	Deemed Interest Expense	\$665,901		\$ -		\$ -	
	Return on Deemed Equity	\$1,105,128		\$ -		\$ -	
	Service Revenue Requirement						
8	(before Revenues)	\$6,047,363		\$4,276,333		\$4,276,333	
9	Revenue Offsets	\$502,939		\$ -		\$ -	
10	Base Revenue Requirement	\$5,544,424		\$4,276,333		\$4,276,333	
	(excluding Tranformer Owership Allowance credit adjustment)						
11	Distribution revenue	\$5,544,424		\$ -		\$ -	
12	Other revenue	\$502,939		\$ -		\$ -	
		400-,000					
13	Total revenue	\$6,047,363		<u> </u>		<u> </u>	
14	Difference (Total Revenue Less Distribution Revenue Requirement before Revenues)	¢ _	(1)	(\$4.276.333)	(1)	(\$4.276.333) ⁽¹	(1)
	Defore Revenues)	<u>\$ -</u>	(1)	(\$4,276,333)	(1)	(\$4,276,333)	٠,

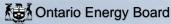
Summary Table of Revenue Requirement and Revenue Deficiency/Sufficiency

	Application		Δ% ⁽²⁾	Per Board Decision	Δ% (2)
Service Revenue Requirement Grossed-Up Revenue	\$6,047,363	\$4,276,333	(\$0)	\$4,276,333	(\$1)
Deficiency/(Sufficiency)	\$50,401	(\$1,616,137)	(\$33)	\$5,668,715	(\$1)
Base Revenue Requirement (to be recovered from Distribution Rates)	\$5,544,424	\$4.276.333	(\$0)	\$4,276,333	(\$1)
Revenue Deficiency/(Sufficiency) Associated with Base Revenue	40, 0 · · · · · · · · · · · · · · · · · · ·	* ',=' -,	(+-)	¥ :,=: =,e==	(+ -)
Requirement	\$50,401	\$ -	(\$1)	\$ -	(\$1)

Notes

Line 11 - Line 8

Percentage Change Relative to Initial Application



Load Forecast Summary

This spreadsheet provides a summary of the customer and load forecast on which the test year revenue requirement is derived. The amounts serve as the denominators for deriving the rates to recover the test year revenue requirement for purposes of this RRWF.

The information to be input is inclusive of any adjustments to kWh and kW to reflect the impacts of CDM programs up to and including CDM programs planned to be executed in the test year. i.e., the load forecast adjustments determined in **Appendix 2-I** should be incorporated into the entries. The inputs should correspond with the summary of the Load Forecast for the Test Year in **Appendix 2-IB** and in Exhibit 3 of the application.

Appendix 2-IB is still required to be filled out, as it also provides a year-over-year variance analysis of demand growth andf trends from historical actuals to the Bridge and Test Year forecasts.

Stage in Process:

Customer Class
Input the name of each customer class.
Residential
GS<50
GS>50
Unmetered Streetlights
Large User
3

	ln	itial Application	
Customer / Connections		kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year		Annual	Annual
8,152		73,998,981	-
1,338		41,877,513	-
131		82,705,771	212,896
26		251,508	-
2,187		886,616	2,475
1		23,308,825	60,000

Customer / Connections Test Year average or mid-year	kWh Annual	kW/kVA ⁽¹⁾ Annual

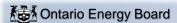
Per	Board Decision	
Customer / Connections	kWh	kW/kVA ⁽¹⁾
Test Year average or mid-year	Annual	Annual

Total 223,029,214 275,370 - - - -

Notes:

13

(1) Input kW or kVA for those customer classes for which billing is based on demand (kW or kVA) versus energy consumption (kWh)



Cost Allocation and Rate Design

This spreadsheet replaces **Appendix 2-P** and provides a summary of the results from the Cost Allocation spreadsheet, and is used in the determination of the class revenue requirement and, hence, ultimately, the determination of rates from customers in all classes to recover the revenue requirement.

Stage in Application Process:

Initial Application

A) Allocated Costs

Name of Customer Class (3)		Allocated from ious Study ⁽¹⁾	%		llocated Class nue Requirement	%
From Sheet 10. Load Forecast					(1) (7A)	
1 Residential	\$	2,844,235	59.94%	\$	3,610,412	59.70%
GS<50	\$	869,164	18.32%	\$	1,150,717	19.03%
GS>50	\$	691,959 5,907	14.58% 0.12%	\$	905,520 8,044	14.97%
Unmetered Streetlights	\$ \$	333,612	7.03%	\$ \$	186,682	0.13% 3.09%
Large User	\$ \$	333,012	7.03%	\$	185,989	3.08%
0 2 2 3 4 4 5 5 7 7						
Total	\$	4,744,877	100.00%	\$	6,047,363	100.00%
			Service Revenue Requirement (from Sheet 9)	\$	6,047,363.02	

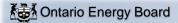
- (1) Class Allocated Revenue Requirement, from Sheet O-1, Revenue to Cost || RR, row 40, from the Cost Allocation Study in this application. This excludes costs in deferral and variance accounts. For Embedded Distributors. Account 4750 Low Voltage (LV) Costs are also excluded.
- accounts. For Embedded Distributors, Account 4750 Low Voltage (LV) Costs are also excluded.

 (2) Host Distributors Provide information on any embedded distributor(s) as a separate class, if applicable. If embedded distributors are billed in a General Service class, include the allocated costs and revenues of the embedded distributor(s) in the applicable class, and also complete Appendix 2-Q.
- (3) Customer Classes If these differ from those in place in the previous cost allocation study, modify the customer classes to match the proposal in the current application as closely as possible

B) Calculated Class Revenues

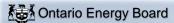
Name of Customer Class	Forecast (LF) X ent approved rates	 X current oved rates X (1+d)	LF X F	Proposed Rates	N	liscellaneous Revenues
	(7B)	(7C)		(7D)		(7E)
Residential	\$ 2,923,669	\$ 2,950,491	\$	2,958,418	\$	318,103
GS<50	\$ 1,177,017	\$ 1,187,815	\$	1,187,793	\$	90,078
GS>50	\$ 979,001	\$ 987,982	\$	988,010	\$	67,283
Unmetered	\$ 8,350	\$ 8,426	\$	8,426	\$	785
Streetlights	\$ 281,952	\$ 284,538	\$	224,121	\$	17,664
Large User	\$ 124,034	\$ 125,172	\$	177,656	\$	9,026
Total	\$ 5,494,023	\$ 5,544,424	\$	5,544,424	\$	502,939

- (4) In columns 7B to 7D, LF means Load Forecast of Annual Billing Quantities (i.e., customers or connections, as applicable X 12 months, and kWh, kW or kVA as applicable. Revenue quantities should be net of the Transformer Ownership Allowance for applicable customer classes. Exclude revenues from rate adders and rate riders.
- (5) Columns 7C and 7D Column Total should equal the Base Revenue Requirement for each
- (6) Column 7C The OEB-issued cost allocation model calculates "1+d" on worksheet O-1, cell C22. "d" is defined as Revenue Deficiency/Revenue at Current Rates.



Cost Allocation and Rate Design

(7) Column 7E - If using the OEB-issued cost allocation model, enter Miscellaneous Revenues as it appears on worksheet O-1, row 19,



Cost Allocation and Rate Design

C) Rebalancing Revenue-to-Cost Ratios

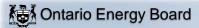
Name of Customer Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year:	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	2014			
	%	%	%	%
Residential	90.14%	90.53%	90.75%	85 - 115
GS<50	120.00%	111.05%	111.05%	80 - 120
GS>50	120.00%	116.54%	116.54%	80 - 120
Unmetered	90.14%	114.51%	114.51%	80 - 120
Streetlights	120.00%	161.88%	129.52%	80 - 120
Large User	0.00%	72.15%	100.37%	85 - 115

- (8) Previously Approved Revenue-to-Cost (R/C) Ratios For most applicants, the most recent year would be the third year (at the latest) of the Price Cap IR period. For example, if the applicant, rebased in 2012 with further adjustments to move within the range over two years, the Most Recent Year would be 2015. However, the ratios in 2015 would be equal to those after the adjustment in 2014.
- (9) Status Quo Ratios The OEB-issued cost allocation model provides the Status Quo Ratios on Worksheet O-1. The Status Quo means "Before Rebalancing".
- (10) Ratios shown in red are outside of the allowed range. Applies to both Tables C and D.

(D) Proposed Revenue-to-Cost Ratios (11)

Name of Customer Class	Propos	Policy Range			
	Test Year	Price Cap IR F		,	
	2019	2020	2021		
Residential	90.75%	91.27%	91.27%	85 - 115	
GS<50	111.05%	111.05%	111.05%	80 - 120	
GS>50	116.54%	116.54%	116.54%	80 - 120	
Unmetered	114.51%	114.51%	114.51%	80 - 120	
Streetlights	129.52%	120.00%	120.00%	80 - 120	
Large User	100.37%	100.37%	100.37%	85 - 115	

⁽¹¹⁾ The applicant should complete Table D if it is applying for approval of a revenue-to-cost ratio in 2019 that is outside of the OEB's policy range for any customer class. Table D will show that the distributor is likely to enter into the 2020 and 2021 Price Cap IR models, as necessary. For 2020 and 2021, enter the planned revenue-to-cost ratios that will be "Change" or "No Change" in 2018 (in the current Revenue/Cost Ratio Adjustment Workform, Worksheet C1.1 'Decision - Cost Revenue Adjustment, column d), and enter TBD for class(es) that will be entered as 'Rebalance'.



New Rate Design Policy For Residential Customers

Please complete the following tables.

A Data Inputs (from Sheet 10. Load Forecast)

Test Very Dillion Determinents for Desidential Olera						
Test Year Billing Determinants for Residential Class						
Customers		8,152				
kWh		73,998,981				
Proposed Residential Class Specific Revenue	\$	2,958,417.69				
Requirement ¹						
Residential Base Rates on Current Tariff						
Monthly Fixed Charge (\$)	\$	26.86				

B Current Fixed/Variable Split

Distribution Volumetric Rate (\$/kWh)

	Base Rates	Billing Determinants	Revenue	% of Total Revenue
Fixed	26.86	8,152	\$ 2,627,673.51	91.50%
Variable	0.0033	73,998,981	\$ 244,196.64	8.50%
TOTAL	-	=	\$ 2,871,870.15	-

C Calculating Test Year Base Rates

Number of Remaining Rate Design Policy

Hanshor rears			
	Toot Voor Boyenya @	Test Year Base Rates	Reconciliation - Tes
	_		Year Base Rates @
	Current F/V Split	@ Current F/V Split	Current E/V Split

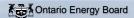
	st Year Revenue @ Current F/V Split	Test Year Base Rates @ Current F/V Split	-	Year Base Rates @ Current F/V Split
Fixed	\$ 2,706,861.87	27.67	\$	2,706,914.60
Variable	\$ 251,555.82	0.0034	\$	251,596.53
TOTAL	\$ 2,958,417.69	-	\$	2,958,511.13

				Revenue
		Revenue @ new	Final Adjusted	Reconciliation @
	New F/V Split	F/V Split	Base Rates	Adjusted Rates
Fixed	100.00%	\$ 2,958,417.69	\$ 30.24	\$ 2,958,333.84
Variable	0.00%	\$ -	\$ -	\$ -
TOTAL	-	\$ 2,958,417.69	-	\$ 2,958,333.84

Checks ³	
Change in Fixed Rate	\$ 2.57
Difference Between Revenues @ Proposed Rates	(\$83.85)
and Class Specific Revenue Requirement	0.00%

Notes:

- 1 The final residential class specific revenue requirement, excluding allocated Miscellaneous Revenues, as shown on Sheet 11. Cost Allocation, should be used (i.e. the revenue requirement after any proposed adjustments to R/C ratios).
- The distributor should enter the number of years remaining before the transition to fully fixed rates is completed. A distributor transitioning to fully fixed rates over a four year period and began the transition in 2016 would input the number "3" into cell D40. A distributor transitioning over a five-year period would input the number "4". Where the change in the residential rate design will result in the fixed charge increasing by more than \$4/year, a distributor may propose an additional transition year.
- 3 Change in fixed rate due to rate design policy should be less than \$4. The difference between the proposed class revenue requirement and the revenue at calculated base rates should be minimal (i.e. should be reasonably considered as a rounding error)



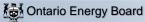
Rate Design and Revenue Reconciliation

This sheet replaces Appendix 2-V, and provides a simplified model for calculating the standard monthly and voluentric rates based on the allocated class revenues and fixed/variable split resulting from the cost allocation study and rate design and as proposed by the applicant. However, the RRWF does not replace the rate generator model that an applicant distributor may use in support of its application. The RRWF provides a demonstrative check on the derivation of the revenue requirement and on the proposed base distribution rates to recover the revenue requirement, based on summary information from a more detailed rate generator model and other models that applicants use for cost allocation, load forecasting, taxass/PILs, etc.

Stage in Process:		Ir	itial Application			Clas	s Allocated	Revenu	ues							Dis	tribution Rates			F	evenue Reconciliat	on
	Customer and Lo	oad Forecast			Fron		. Cost Allo idential Ra		ınd Sheet 12. gn	Percentag	/ Variable Splits	l as a										
Customer Class From sheet 10. Load Forecast	Volumetric Charge Determinant	Customers / Connections	kWh	kW or kVA	Total Reve Requir	enue	Month Service Charg	ė	Volumetric	Fixed	Vari	able	Transi Owne Allowar	ership	Monthly Serv	No. of decimals	Vo Rate	lumetric R	No. of decimals	MSC Revenues	Volumetric revenues	Revenues less Transformer Ownership Allowance
1 Residential 2 GS-50 3 GS-50 4 Unmetered 5 Streetlights 6 Large User 7 8 9 10 11 12 13 14 15 16 17 18	kWh kWh kW kWh kW kW	8,152 1,338 131 26 2,187 1 - - - - - - - - - -	73,998,981 41,877,513 82,705,771 251,508 886,616 23,308,825	212,896 - 2,475 60,000 	\$ 1,1 \$ 9 \$ \$	958,418 187,793 3988,010 8,426 6224,121 177,656	\$ 442 \$ 6 \$ 180	,609 ,754 ,287 ,168	\$ 555,18 \$ 545,25 \$ 2,14 \$ 43,95 \$ 123,196	100.0 53.2 44.8 74.6 80.3 30.6	6% 1% 1% 9%	0.00% 46.74% 55.19% 25.39% 19.61% 69.34%		11,086 33,600	\$30.24 \$39.41 \$221.65 \$20.15 \$6.87 \$4,538.81		\$0.0000 \$0.0133 \$2.6132 \$0.0085 \$17.7609 \$2.6132	/kWh /kW /kWh	4	\$ 2,958,333.84 \$ 632,009.32 \$ 442,753.80 \$ 6,226.80 \$ 180,277.01 \$ 54,465.72 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 556,970.9276 \$ 556,338.7729 \$ 2,137.8180 \$ 43,953.62000 \$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$ \$ -\$	\$ 988,006.45 \$ 8,424.62 \$ 224,230.65
										Total Transforme	r Ownership All	lowance	\$	44,686						Total Distribution R		\$ 5,546,233.53
Notes: 1 Transformer Ownership Allowance is	entered as a positive a	amount, and only for t	hose classes to w	hich it applies.													Rates recover	revenue re		Base Revenue Requ Difference % Difference	irement	\$ 5,544,424.03 \$ 1,809.50 0.033%

Transformer Ownership Allowance is entered as a positive amount, and only for those classes to which it applies.

² The Fixed/Variable split, for each customer class, drives the *rate generator* portion of this sheet of the RRWF. Only the *fixed* ratio is calcutated, as the sum of the *fixed* and *variable* portions must sum to 100%. For a distributor that may set the Monthly Service Charge, the *fixed* ratio is calcutated. as: [MSC x (average number of customers or connections) x 12 months] / (Class Allocated Revenue Requirement).



Tracking Form

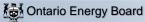
The first row shown, labelled "Original Application", summarizes key statistics based on the data inputs into the RRWF. After the original application filing, the applicant provides key changes in capital and operating expenses, load forecasts, cost of capital, etc., as revised through the processing of the application. This could be due to revisions or responses to interrogatories. The last row shown is the most current estimate of the cost of service data reflecting the original application and any updates provided by the applicant distributor (for updated evidence, responses to interrogatories, undertakings, etc.)

Please ensure a Reference (Column B) and/or Item Description (Column C) is entered. Please note that unused rows will automatically be hidden and the PRINT AREA set when the PRINT BUTTON on Sheet 1 is activated.

(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc

Ī			Cost of	Capital		e and Capital Exp		Оре	erating Expense	es		Revenue R	equirement	
	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues	Base Revenue Requirement	Grossed up Revenue Deficiency / Sufficiency
		Original Application	\$ 1,771,030	5.77%	\$ 30,698,011	\$ 28,964,816	\$ 2,172,361	\$ 1,157,365	\$ 109,828	\$ 2,974,186	\$ 6,047,363	\$ 502,939	\$ 5,544,424	\$ 50,401
1		Change												
2		Change												
3		Change												
4		Change												
5		Change												
6		Change												
7		Change												
8		Change												
9		Change												
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15		Change												
16		Change												



Tracking Form

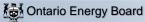
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(2) Short description of change, issue, etc.

			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Оре	rating Expense	es		Revenue R	Requirement	
	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)		Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
17		Change												
18		Change												



Tracking Form

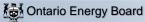
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(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc

Item / Description (2)												
item / Sesenption	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues	Base Revenue Requirement	Grossed up Revenue Deficiency / Sufficiency
Change												
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	Change Change Change Change Change Change Change Change Change	Change	Change	Change	Change	Change	Change	Change	Change	Change	Change	Capital Return



Tracking Form

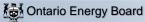
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(2) Short description of change, issue, etc

Ī			Cost of	Capital		e and Capital Exp	Operating Expenses			Revenue Requirement				
	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base		Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
		Change												
36		Change												



Tracking Form

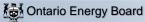
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(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

F			Cost of	Capital	Rate Bas	e and Capital Exp	Ope	erating Expense	es		Revenue R	equirement	1
Ī	eference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return		Working Capital	Amortization / Depreciation		OM&A	Service Revenue Requirement		Base Revenue Requirement	Grossed up Revenue Deficiency / Sufficiency
37													
٠,		Change											
38													
30		Change											
39													
33		Change											
40													
70		Change											
41													
		Change											
42													
7-		Change											
43													
45		Change											
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Tracking Form

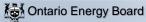
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(2) Short description of change, issue, etc.

		Cost of	Cost of Capital		Rate Base and Capital Expenditures			Operating Expenses			Revenue Requirement			
Reference ⁽¹⁾	Item / Description (2)	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues			
	Change													



Tracking Form

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(1) Short reference to evidence material (interrogatory response, undertaking, exhibit number, Board Decision, Code, Guideline, Report of the Board, etc.)

(2) Short description of change, issue, etc.

			Cost of	Capital	Rate Bas	e and Capital Exp	enditures	Оре	erating Expense	es		Revenue F	equirement	
	Reference ⁽¹⁾	Item / Description ⁽²⁾	Regulated Return on Capital	Regulated Rate of Return	Rate Base	Working Capital	Working Capital Allowance (\$)	Amortization / Depreciation	Taxes/PILs	OM&A	Service Revenue Requirement	Other Revenues		
54		Change												
55		Change												
56		Change												
57		Change												
58		Change												
59		Change												
60		Change												