



Ontario Energy Board

# 2019 Cost Allocation Model

**EB-2019-0019**

**Sheet I6.1 Revenue Worksheet - Application**

Total kWhs from Load Forecast	195,834,528
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Total kW from Load Forecast	198,303
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Deficiency/sufficiency ( RRWF 8. cell F51)	- 2,192,853
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Miscellaneous Revenue (RRWF 5. cell F48)	51,889
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			1	3	7	12
	ID	Total	Residential	R2	Street Light	Seasonal
<b>Billing Data</b>						
Forecast kWh	CEN	195,834,528	103,931,742	85,867,987	595,435	5,439,365
Forecast kW	CDEM	198,303		196,648	1,655	
Forecast kW, included in CDEM, of customers receiving line transformer allowance		145,265		145,265.28		
Optional - Forecast kWh, included in CEN, from customers that receive a line transformation allowance on a kWh basis. In most cases this will not be applicable and will be left blank.		-				
KWh excluding KWh from Wholesale Market Participants	CEN EWMP	195,834,528	103,931,742	85,867,987	595,435	5,439,365
Existing Monthly Charge			\$102.45	\$803.26	\$2.05	\$54.75
Existing Distribution kWh Rate			\$0.06	\$0.00	\$0.33	
Existing Distribution kW Rate			\$0.00	\$17.75	\$0.00	
Existing TOA Rate			\$0.00	\$0.60	\$0.00	
Additional Charges			\$0.00	\$0.00	\$0.00	\$0.15
Distribution Revenue from Rates		\$23,779,483	\$16,946,668	\$3,850,465	\$224,576	\$2,757,773
Transformer Ownership Allowance		\$87,159	\$0	\$87,159	\$0	\$0
Net Class Revenue	CREV	\$23,692,323	\$16,946,668	\$3,763,306	\$224,576	\$2,757,773



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## Sheet 18 Demand Data Worksheet - Application

This is an input sheet for demand allocators.

<b>CP TEST RESULTS</b>	<b>4 CP</b>
<b>NCP TEST RESULTS</b>	<b>4 NCP</b>

<b>Co-incident Peak</b>	<b>Indicator</b>
<b>1 CP</b>	<b>CP 1</b>
<b>4 CP</b>	<b>CP 4</b>
<b>12 CP</b>	<b>CP 12</b>

<b>Non-co-incident Peak</b>	<b>Indicator</b>
<b>1 NCP</b>	<b>NCP 1</b>
<b>4 NCP</b>	<b>NCP 4</b>
<b>12 NCP</b>	<b>NCP 12</b>

<b>Customer Classes</b>		<b>Total</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>12</b>
			<b>Residential</b>	<b>R2</b>	<b>Street Light</b>	<b>Seasonal</b>
		<b>CP Sanity Check</b>	<b>Pass</b>	<b>Check 4CP</b>	<b>Check 4CP and 12CP</b>	<b>Check 4CP and 12CP</b>
<b>CO-INCIDENT PEAK</b>						
<b>1 CP</b>						
Transformation CP	TCP1	40,831	26,664	13,738	6	423
Bulk Delivery CP	BCP1	40,831	26,664	13,738	6	423
Total Sytem CP	DCP1	40,831	26,664	13,738	6	423
<b>4 CP</b>						
Transformation CP	TCP4	149,896	91,026	56,345	131	2,394
Bulk Delivery CP	BCP4	149,896	91,026	56,345	131	2,394
Total Sytem CP	DCP4	149,896	91,026	56,345	131	2,394
<b>12 CP</b>						
Transformation CP	TCP12	359,642	201,361	147,873	663	9,744
Bulk Delivery CP	BCP12	359,642	201,361	147,873	663	9,744
Total Sytem CP	DCP12	359,642	201,361	147,873	663	9,744
<b>NON CO_INCIDENT PEAK</b>						
		<b>NCP Sanity Check</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>
<b>1 NCP</b>						
Classification NCP from Load Data Provider	DNCP1	48,275	28,408	18,116	166	1,585
Primary NCP	PNCP1	48,275	28,408	18,116	166	1,585
Line Transformer NCP	LTNCP1	34,892	28,408	4,734	166	1,585
Secondary NCP	SNCP1	34,892	28,408	4,734	166	1,585
<b>4 NCP</b>						
Classification NCP from Load Data Provider	DNCP4	174,464	100,397	67,921	639	5,508
Primary NCP	PNCP4	174,464	100,397	67,921	639	5,508
Line Transformer NCP	LTNCP4	124,290	100,397	17,747	639	5,508
Secondary NCP	SNCP4	124,290	100,397	17,747	639	5,508
<b>12 NCP</b>						
Classification NCP from Load Data Provider	DNCP12	414,892	224,266	177,922	1,691	11,013
Primary NCP	PNCP12	414,892	224,266	177,922	1,691	11,013
Line Transformer NCP	LTNCP12	283,459	224,266	46,490	1,691	11,013
Secondary NCP	SNCP12	283,459	224,266	46,490	1,691	11,013

# 2019 Cost Allocation Model

**EB-2019-0019**
**Sheet 01 Revenue to Cost Summary Worksheet - Application**
**Instructions:**

Please see the first tab in this workbook for detailed instructions

**Class Revenue, Cost Analysis, and Return on Rate Base**

			1	3	7	12
Rate Base Assets		Total	Residential	R2	Street Light	Seasonal
crev	Distribution Revenue at Existing Rates	\$23,692,323	\$16,946,668	\$3,763,306	\$224,576	\$2,757,773
mi	Miscellaneous Revenue (mi)	\$51,889	\$29,966	\$16,609	\$1,681	\$3,633
		Miscellaneous Revenue Input equals Output				
Total Revenue at Existing Rates		\$23,744,213	\$16,976,634	\$3,779,914	\$226,258	\$2,761,406
Factor required to recover deficiency (1 + D)		1.0926				
Distribution Revenue at Status Quo Rates		\$25,885,176	\$18,515,174	\$4,111,620	\$245,362	\$3,013,020
Miscellaneous Revenue (mi)		\$51,889	\$29,966	\$16,609	\$1,681	\$3,633
Total Revenue at Status Quo Rates		\$25,937,065	\$18,545,140	\$4,128,229	\$247,043	\$3,016,653
Expenses						
di	Distribution Costs (di)	\$5,971,340	\$4,057,534	\$1,001,583	\$52,216	\$860,006
cu	Customer Related Costs (cu)	\$1,948,620	\$1,431,937	\$107,176	\$9,718	\$399,789
ad	General and Administration (ad)	\$5,609,826	\$3,914,246	\$786,839	\$43,364	\$865,377
dep	Depreciation and Amortization (dep)	\$4,043,341	\$2,674,716	\$922,498	\$22,908	\$423,219
INPUT	PILs (INPUT)	\$329,469	\$217,873	\$76,528	\$2,023	\$33,046
INT	Interest	\$3,411,465	\$2,255,944	\$792,403	\$20,942	\$342,176
Total Expenses		\$21,314,061	\$14,552,249	\$3,687,026	\$151,171	\$2,923,615
Direct Allocation		\$375,228	\$373,052	\$0	\$2,176	\$0
NI	Allocated Net Income (NI)	\$4,247,776	\$2,808,982	\$986,658	\$26,076	\$426,060
Revenue Requirement (includes NI)		\$25,937,065	\$17,734,283	\$4,673,684	\$179,424	\$3,349,675
		Revenue Requirement Input equals Output				
Rate Base Calculation						
Net Assets						
dp	Distribution Plant - Gross	\$180,489,624	\$119,303,561	\$40,902,697	\$1,131,068	\$19,152,298
gp	General Plant - Gross	\$15,580,942	\$10,304,864	\$3,613,936	\$95,903	\$1,566,240
accum dep	Accumulated Depreciation	(\$79,332,866)	(\$52,906,353)	(\$17,087,545)	(\$507,893)	(\$8,831,074)
co	Capital Contribution	(\$998,410)	(\$670,807)	(\$194,368)	(\$7,995)	(\$125,240)
Total Net Plant		\$115,739,291	\$76,031,264	\$27,234,719	\$711,083	\$11,762,224
Directly Allocated Net Fixed Assets		\$1,518,697	\$1,509,889	\$0	\$8,808	\$0
COP	Cost of Power (COP)	\$21,076,878	\$11,224,506	\$9,205,415	\$63,833	\$583,123
OM&A Expenses		\$13,529,786	\$9,403,717	\$1,895,597	\$105,298	\$2,125,173
Directly Allocated Expenses		\$266,002	\$264,459	\$0	\$1,543	\$0
Subtotal		\$34,872,665	\$20,892,682	\$11,101,012	\$170,674	\$2,708,296
Working Capital		\$2,615,450	\$1,566,951	\$832,576	\$12,801	\$203,122
Total Rate Base		\$119,873,438	\$79,108,104	\$28,067,295	\$732,692	\$11,965,346
		Rate Base Input equals Output				
Equity Component of Rate Base		\$47,949,375	\$31,643,242	\$11,226,918	\$293,077	\$4,786,139
Net Income on Allocated Assets		\$4,247,776	\$3,619,839	\$441,203	\$93,696	\$93,038
Net Income on Direct Allocation Assets		\$58,078	\$57,741	\$0	\$337	\$0
Net Income		\$4,305,854	\$3,677,580	\$441,203	\$94,033	\$93,038
RATIOS ANALYSIS						
REVENUE TO EXPENSES STATUS QUO%		100.00%	104.57%	88.33%	137.69%	90.06%
EXISTING REVENUE MINUS ALLOCATED COSTS		(\$2,192,853)	(\$757,649)	(\$893,769)	\$46,834	(\$588,269)
		Deficiency Input equals Output				
STATUS QUO REVENUE MINUS ALLOCATED COSTS		(\$0)	\$810,857	(\$545,455)	\$67,620	(\$333,022)
RETURN ON EQUITY COMPONENT OF RATE BASE		8.98%	11.62%	3.93%	32.08%	1.94%



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## **Sheet 02 Monthly Fixed Charge Min. & Max. Worksheet - Application**

Output sheet showing minimum and maximum level for  
Monthly Fixed Charge

### **Summary**

Customer Unit Cost per month - Avoided Cost

Customer Unit Cost per month - Directly Related

Customer Unit Cost per month - Minimum System  
with PLCC Adjustment

Existing Approved Fixed Charge

1	3	7	12
Residential	R2	Street Light	Seasonal
\$12.33	\$300.86	\$0.72	\$10.41
\$19.24	\$455.77	\$1.24	\$16.26
\$90.06	\$588.76	\$12.53	\$83.68
\$102.45	\$803.26	\$2.05	\$54.75