



## **EXHIBIT 7**

# **COST ALLOCATION**

## EXHIBIT 7: Cost Allocation

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TAB 1 (of 3)

# **Cost Allocation Study Requirements**

## OVERVIEW

1

2 As required by Chapter 2 of the *Filing Requirements*, Hydro One Brampton has conducted a  
3 Cost Allocation Study ("CAS") in this rate application for its 2015 rebasing year. Hydro One  
4 Brampton used the Board-approved methodology to prepare its CAS and has followed the  
5 Board's policies outlined in the Board's report of March 31, 2011 *Review of Electricity*  
6 *Distribution Cost Allocation Policy* (EB-2010-0219) (the "Cost Allocation Review"). In addition,  
7 HOBNI has followed the directions from the Board in its Letter of July 16, 2013, setting out the  
8 Board's approach to the allocation of host electricity distributor costs to embedded distributors  
9 (*EB-2010-0219*).

### 10 **Summary**

11 HOBNI has completed the CAS using the Board-approved methodology based on the most  
12 recent update of the model (version 3.1) of the CAS model. HOBNI has submitted into evidence  
13 a completed copy of the electronic excel spreadsheet model with this application and has  
14 submitted a hard copy of input sheets I-6, and I-8, and output sheets O-1, O-2, and O-3.1 of the  
15 Board model, in Tab 4 of this Exhibit. In addition, HOBNI submits the completed OEB Appendix  
16 2-P in this Exhibit, Tab 2, Appendix 1.

17 HOBNI performed this study as an enterprise wide endeavor obtaining all information for the  
18 study internally with the exception of demand data for the model. HOBNI used the services of  
19 the HONI Forecasting division to collect this data. HOBNI gathered the necessary data from a  
20 number of its functional department units to perform the 2015 Test Year CAS, including:  
21 Planning & Standards, Development & Expansions, Project Engineering, Customer Service,  
22 Information Technology, Metering, Energy Services, Accounting, and Regulatory Affairs.

23 There were no classes that experienced a significant decline in customers or disappeared, or  
24 will disappear in the Test Year; therefore, there were no unique adjustments that were required  
25 to customer class data.

26 HOBNI did not use any default weighting factors in this CAS. The Company established  
27 distributor specific weighting factors as determined by the relevant functional departments  
28 accountable for the related activities.

1 As per the *Filing Requirements: "If the host has a separate rate class for its embedded*  
2 *distributor(s) the host distributor must include the class as such in its cost allocation study and in*  
3 *OEB Appendix 2-P"*. HOBNI has complied with this requirement and has modeled the  
4 Embedded Distributor Class in its CAS Model.

### 5 **Load Profile Forecasts by Customer Class:**

6 HOBNI utilized the services of the HONI Forecasting group to forecast the 2015 hourly load  
7 profile data by customer class as required for use in the CAS model. HOBNI's load profiles were  
8 based on hourly smart meter and interval meter data, conventional metered monthly kWh  
9 consumption data (where hourly data wasn't available), and data compiled based on the North  
10 American Industry Classification System ("NAICS") codes.

### 11 **Load Profile Forecasts for Smart Metered Customer Classes:**

12 This is the first COS rate application in which HOBNI utilized complete historical hourly smart  
13 meter data sets for an entire calendar year for the two low volume consumer classes. Hydro  
14 One Brampton had full years of data available for both the Residential and General Service < 50  
15 kW classes. This data was robust and allowed HOBNI to use high quality demand data to  
16 forecast the 2015 hourly loads for these two classes. Utilizing the forecast hourly profiles for  
17 2015 based on smart meter data allowed for more precision when allocating costs across  
18 customer classes. Using smart metering data for the two low volume customer classes resulted  
19 in the following Revenue to Cost Ratios for:

- 20 • the Residential Class fell from the 2011 OEB approved ratio (updated in 2013) of  
21 101.12 % to 94.70% in this rate application, and
- 22 • the General Service < 50 kW class increased from the 2011 OEB approved ratio of  
23 120.00% to 124.61%.

24 In previous CASs the data used for these two classes were based on the former Ontario Hydro  
25 generic provincial load profile data for these two customer classes. The new data allowed  
26 HOBNI to adjust revenue to cost ratios to reduce the resulting cross subsidization between  
27 classes.

28

1 **Load Profile Forecasts for Other Customer Classes:**

2 Historical interval meter data was used to forecast the 2015 hourly load profiles for the following  
3 customer classes:

- 4 • General Service > 700 to 4,999 kW,
- 5 • Large User,
- 6 • Distributed Generation, and
- 7 • Embedded Distributor

8 For the General Service > 50 to 699 kW class a mixture of data was used to forecast load  
9 profiles; some of the data for this class was based on hourly interval data, while other data was  
10 based on monthly actual kWh data. In addition, data by NAICS code was also extracted from  
11 HOBNI's customer information system to assist in preparing the load profiles for the General  
12 Service > 50 to 699 kW class. There was only a partial year of smart meter data available for  
13 the aforementioned class so the monthly NAICS data was compiled on the basis of NAICS code  
14 supplemented the determination of the peak demand load profiling forecasts.

15 For the Unmetered customer class load profiles, HONI used HOBNI actual load profile data for  
16 the Street Lighting class, and generic hourly data for the Unmetered Scattered Load Class.

17 The deliverables received from HONI included peak hourly demand data by customer class  
18 required for the "I8 Demand Data" tab of the cost allocation model for both co-incident peak and  
19 non co-incident peak demand data, and the weather sensitivity factors that were used in the  
20 Load Forecast.

21 **Weighting Factors**

22 In the OEB's *Report to the Board: Review of Electricity Distribution Cost Allocation Policy (EB-*  
23 *2010-0219)*, issued March 31, 2011, the Board stated that weighting factors are included in the  
24 Cost Allocation model to ensure that certain costs related to customer classes are properly  
25 assigned to the respective classes. The Board also stated that distributors are expected to  
26 develop their own weighting factors to be used in the Cost Allocation model. Distributors should  
27 only use the default weighting factors under exceptional situations. With this view in mind, Hydro

1 One Brampton developed its own weighting factors and included them in the Cost Allocation  
 2 model.

3 **Services:**

4 The weighting factors for services were derived by allocating the costs recorded in Account  
 5 1855 – Services, to each customer class. According to the Board's *"Accounting Procedures*  
 6 *Handbook for Electricity Distributors"*, issued December 2011, Account 1855 *"shall include the*  
 7 *cost installed of overhead and underground conductors leading from a point where wires leave*  
 8 *the last pole of the overhead system or the transformers or manhole, or the top of the pole of*  
 9 *the distribution line, to the point of connection with the customer's electrical panel. Conduit used*  
 10 *for underground service conductors shall be included herein."*

11 To develop the weighting factors, HOBNI's engineering group evaluated the costs recorded in  
 12 Account 1855 based on the level of effort and investment required to service each customer  
 13 class. A factor of one was then assigned to the cost of servicing residential customers according  
 14 to the Board's instructions in its *"2014 Cost Allocation Model"*. The weighting for the other  
 15 customer classes were then developed relative to the weighting factor assigned to the  
 16 Residential class. The results are presented in **Table 1** below. For example, as shown in **Table**  
 17 **1** below, the relative cost to service a General Service > 50 kW customer is 10.9 times more  
 18 costly than a Residential customer. Note a number of classes own their own services or there  
 19 are no specific service costs associated with their account/class.

20 **Table 1: Weighting Factors for Services**

Rate Class	Weighting Factors
Residential	1.0
General Service < 50 kW	7.8
General Service > 50 kW	10.9
Intermediate	3.9
Large Use (> 5000 kW)	-
Street Lighting	-
Unmetered Scattered Load	-
Embedded Distributor	-
Distributed Generation Class	-
Energy from Waste Generation	-
Backup/Standby Power	-

1 **Billing and Collection:**

2 The weighting factors for billing and collection were developed using information recorded in  
3 Accounts 5315, 5320 and 5340. Hydro One Brampton considered a number of factors that are  
4 generally associated with billing and collection for each rate class. These factors include the  
5 nature of the bill, the complexity of the bill, and the need for manual intervention. Once the cost  
6 associated with each rate class was determined, the Residential class was then assigned a  
7 factor of one. The weights associated with the other classes were then calculated relative to the  
8 Residential class. The results are presented in **Table 2** below. As shown in **Table 2** below, the  
9 relative billing and collection cost for a single Residential, General Service < 50 kW, Street  
10 Lighting or Unmetered Scattered Load account are the same. For all other rate classes, the cost  
11 is 10.2 times more expensive due to the higher level of effort by the customer service staff and  
12 higher level of departmental resource utilization.

13

**Table 2: Weighting Factors for Billing and Collections**

Rate Class	Weighting Factors
Residential	1.0
General Service < 50 kW	1.0
General Service > 50 kW	10.2
Intermediate	10.2
Large Use (> 5000 kW)	10.2
Street Lighting	1.0
Unmetered Scattered Load	1.0
Embedded Distributor	10.2
Distributed Generation Class	10.2
Energy from Waste Generation	10.2
Backup/Standby Power	10.2

14

15

1 **Meter Reading and Meter Capital Cost:**

2 The weighting factors developed for meter reading reflect the costs to read the relevant meters.  
3 HOBNI groups customer meters into two different categories for meter reading purposes –  
4 Smart Meters and Interval Meters. All forecasted Residential, General Service < 50 kW and  
5 approximately 64% of the General Service > 50 kW customers are equipped with smart meters.  
6 The remaining customer classes are equipped with interval meters. Approximately 36% of the  
7 General Service > 50 kW have interval meters, and all of the General Service > 700 kW  
8 (Intermediate), Large User and Distributed Generation. There are no meter costs associated  
9 with the Street Lighting and Unmetered Scattered Load classes. Also, the Energy from Waste  
10 Generation and Backup/Stand-by Power classes are not individually metered but rather use part  
11 of the meter (a channel) associated with a General Service class load account, therefore no  
12 costs allocated for meter reading and meter capital for these classes. The meter related to the  
13 Embedded Distributor class was excluded since this class is addressed separately in the Direct  
14 Allocation section of this Exhibit.

15 According to the Board's instructions in its "2014 Cost Allocation Model", the Residential class is  
16 to be assigned a weighting factor of one and therefore all rate classes with smart meters are  
17 assigned a factor of one. To calculate the weighting factor for interval meters, Hydro One  
18 Brampton calculated the estimated cost for reading all interval meters then divided the result by  
19 the forecasted number of interval meters to get the average meter reading cost. The average  
20 interval meter reading cost was then divided by the average smart meter reading cost to derive  
21 the weighting factor for interval meters. The results are shown in **Table 3** below.

22 **Table 3: Weighting Factors for Meter Reading**

Meter Type	Weighting Factors
Smart Meter	1.0
Interval Meter	57.9

23

24

1 Hydro One Brampton calculated smart meter capital costs based on an installed cost basis, and  
2 the remaining meters and metering equipment were calculated out on a replacement cost basis.  
3 The average cost of each meter by class is shown in **Table 4** below.

4 **Table 4: Average Meter Capital Cost**

Rate Class	Average Meter Capital Cost
Residential	194.92
General Service < 50 kW	854.16
General Service > 50 kW	3,232.39
Intermediate	5,891.43
Large Use (> 5000 kW)	17,986.60
Distributed Generation	3,824.86

5

6

## DIRECT ALLOCATION

1

2 As indicated in *Exhibit 1 Tab 6 Schedule 1* HOBNI is a Host Distributor supplying power to  
3 HONI who is partially embedded in HOBNI's distribution system. HOBNI provides service to  
4 HONI through one feeder with four sections supplying power from the Pleasant Transformer  
5 Station. HOBNI owns the following four sections of line which HONI is supplied power along  
6 Chinguacousy Rd from the Pleasant Transformer Station through to Mayfield Rd.:

7 Section A - Chinguacousy - Pleasant TS to Bovaird Dr.

8 Section B - Chinguacousy - Bovaird Dr. to Sandalwood Pkwy.

9 Section C - Chinguacousy - Sandalwood Pkwy. to Wanless Dr.

10 Section D - Chinguacousy - Wanless Dr. to Mayfield Rd.

11 As HOBNI has a separate rate class for its embedded distributor class currently it has included  
12 this class in its CAS as directed by the Board in its Chapter 2 *Filing Requirements*. HOBNI has  
13 chosen to use the Direct Allocation approach for cost allocation as HOBNI was able to identify  
14 the costs incurred to provide service to the embedded distributor.

15 As required in the *Filing Requirements*, HOBNI has consulted with its embedded distributor and  
16 has shared its direct cost allocation approach with HONI, and HONI supported HOBNI's  
17 approach to the allocation of costs and rate design. See *Exhibit 1 Tab 6 Schedule 1* pertaining  
18 to customer engagement and *Exhibit 8 Tab 9* for details regarding rate design.

19

1 **Fixed Asset Capital Cost Allocation**

2 Capital costs have been allocated for the above mentioned feeders based on the 2015 forecast  
 3 peak demand of 5.5 MVA and on the capacity utilization of each of the 4 sections of line. The  
 4 cost allocations of the feeders are provided in **Table 5** below:

5 ***Table 5: Feeder Capital, Accumulated Depreciation & Depreciation Expense Allocation***

USoA Account	Description	Allocated Capital Cost	Allocated Accumulated Depreciation	Depreciation Expense
1830	Poles, Towers and Fixtures	101,122	34,202	2,079
1835	Overhead Conductors and Devices	76,380	24,742	1,282
		177,502	58,944	3,361

Note: Allocated Capital Cost & Accumulated Depreciation values are averages between 2014 & 2015 closing Trial Balance values

6  
 7 In addition, specifically identifiable meter capital costs have been included in the Direct  
 8 Allocation as follows:

9 ***Table 6: Meter Capital, Accumulated Depreciation & Depreciation Expense Allocated***

USoA Account	Description	Capital Cost	Accumulated Depreciation	Depreciation Expense
1860	Meters	43,968	9,893	2,198

Note: Allocated Capital Cost & Accumulated Depreciation values are averages between 2014 & 2015 closing Trial Balance values

10  
 11 **OM&A and Depreciation Expense:**  
 12 First, HOBNI determined which operating, maintenance and customer billing costs are driven by  
 13 the feeder line owned by HOBNI and used by the embedded distributor. HOBNI determined that  
 14 the expense accounts in **Table 7** below are impacted by the infrastructure built and used by the  
 15 embedded distributor. Then an allocation approach was determined using the proportion of the  
 16 number of poles for the four sections of feeders as compared the total number of poles in the  
 17 city coupled with the proportion of the capacity utilization of the feeders used by the embedded  
 18 distributor. An allocation percentage of 0.1274% was derived and used in **Table 7** below. This

1 resulted in total Operating, Maintenance and Customer Billing costs of \$13,601 allocated in  
 2 sheet "I9 Direct Allocation" of the CAS model spreadsheet. The remaining costs directly  
 3 allocated include Amortization Expense of \$5,560, PILs of \$427, and return on rate base of  
 4 \$5,852 for a total of \$25,440 directly allocated costs. The total allocated costs derived in sheet  
 5 "I9 Direct Allocation" of the CAS model spreadsheet are provided below in **Table 7**.

**Table 7: Allocation of OM& Customer Billing and Depreciation Costs**

USoA Account	Description	2015 Totals	Allocation	Costs Allocated
5005	Operation Supervision and Engineering	\$222,000	0.1274%	\$283
5010	Load Dispatching	\$2,101,555	0.1274%	\$2,678
5020	Overhead Distribution Lines and Feeders - Operation Labour	\$129,272	0.1274%	\$165
5025	Overhead Distribution Lines & Feeders - Operation Supplies and Expenses	\$85,136	0.1274%	\$108
5070	Customer Premises - Operation Labour	\$645,000	0.1274%	\$822
5120	Maintenance of Poles, Towers and Fixtures	\$487,176	0.1274%	\$621
5125	Maintenance of Overhead Conductors and Devices	\$900,675	0.1274%	\$1,148
5135	Overhead Distribution Lines and Feeders - Right of Way	\$250,000	0.1274%	\$319
5150	Maintenance of Underground Conductors and Devices	\$1,940,875	0.1274%	\$2,473
5175	Maintenance of Meters	\$211,590	0.1274%	\$270
5310	Meter Reading Expense	\$572,700	0.1274%	\$730
5315	Customer Billing	\$3,128,229	0.1274%	\$3,986
	Total Operation, Maintenance and Customer Billing	\$10,674,210	0.1274%	\$13,601
5705	Amortization Expense - Property, Plant, and Equipment			\$5,560
	Approved Total PILs			\$427
	Approved Total Return on Debt			\$2,778
	Approved Total Return on Equity			\$3,075
	Total			\$6,280
	Total Directly Allocated Costs			\$25,440

7  
8

9 Administration costs were not allocated as part of the direct allocation methodology above since  
 10 the CAS model already allocated a total of \$7,124 of costs to the embedded distributor class,  
 11 and in discussions with HONI, HOBNI concluded that it would be excessive to allocate any  
 12 further administration costs to this customer class. In addition, the CAS model allocated  
 13 additional distribution costs of \$51, Amortization of \$1,055, PILs \$1,070, and return on rate base  
 14 of \$14,659 for other shared assets. Total Costs Allocated to the Embedded Distributor Class,  
 15 Directly Allocated and Allocated by the CAS Model totalled \$49,399. See **Table 8** below for the  
 16 preceding.

1 **Revenue to Cost Ratio Analysis**

2 The revenue to cost ratio for the embedded distributor class was determined by the CAS. **Table**  
 3 **8** below provides an excerpt from sheet “O1 Revenue to Cost |RR” of the model. As illustrate  
 4 below, the revenue to cost ratio is 5.72%. HOBNI is, therefore, proposing an increase of this  
 5 revenue to cost ratio and this is discussed further in *Exhibit 8*.

6 **Table 8: Revenue to Cost Ratios**

<b>Revenue to Cost</b>	
Revenues	
Distribution Revenue	\$2,709
Miscellaneous Revenue	\$117
<b>Total Revenue</b>	<b>\$2,826</b>
<b>Expenses</b>	
Distribution Costs	\$51
Customer Related Costs	\$0
General and Administration	\$7,124
Depreciation and Amortization	\$1,055
PILs	\$1,070
Interest	\$6,957
Directly Allocated Costs	\$25,440
Allocated Net Income	\$7,701
<b>Total Costs</b>	<b>\$49,399</b>
<b>Revenue to Cost Ratio</b>	<b>5.72%</b>

7



1 HOBNI proposes to bill these generators for their consumption based on the following rate  
2 elements:

- 3 • Energy at RPP rates as their consumption volumes are low, i.e. less than 50 kW,
- 4 • Retail Transmission Network Service Rate, Retail Transmission Connection Service  
5 Rate, Wholesale Market Service Rate, and Rural Rate Protection Charges based on the  
6 General Service < 50 kW class rates,
- 7 • Volumetric Distribution rates and Monthly Fixed Service Charges have been determined  
8 as submitted in *Exhibit 8 Tab 1*, and
- 9 • Applicable rate riders/adders.

10 The reason HOBNI is proposing to bill this class the Retail Transmission Service Rates  
11 (“RTSR”) based on the retail rates being billed to the General Service < 50 kW class is because  
12 it does not have class specific rates. The RTSR’s billed to the General Service < 50 kW class  
13 are the most suitable as the expected average monthly demand for this class is expected to be  
14 less than 50 kW. HOBNI has considered designing class specific rates for this class but  
15 determined that as any attempt to do so without a complete RTSR CAS, would not provide rates  
16 any more accurate than using the rates HOBNI is proposing.

17 **Energy from Waste Generation:**

18 Currently there is an “Energy from Waste” Generator in HOBNI’s service territory. This  
19 generator is a legacy generator that existed pre-market era. HOBNI currently settles with the  
20 generator for energy only. Currently this generator does not belong to a service classification  
21 and HOBNI proposes to create one. This generator does not consume any power. As a result,  
22 HOBNI does not charge this generator for any charges related to consumption. However, this  
23 generator does not pay a fixed monthly service charge either. HOBNI is proposing that this  
24 generator be part of a new service classification so that the Company may obtain approval for a  
25 new monthly fixed service charge and recover costs relating to this account. The costs relate to  
26 the capture of meter data, and billing/administration and settlement of the generators account.  
27 Currently there are no recoveries of costs from this account.

1 **Changes to Existing Customer Class:**

2 **Embedded Distributor:**

3 HOBNI is a Host Distributor with an embedded distributor and an approved Embedded  
4 Distributor Service Classification. HOBNI has an approved distribution volumetric rate to recover  
5 power wheeling costs from this embedded distributor. The embedded distributor, HONI, is  
6 partially embedded and does not have a registered wholesale meter at the point of supply for  
7 their load and HOBNI is currently settling with HONI as a Load Transfer customer.

8 *According to the Filing Requirements, "if the host has a separate rate class for its embedded*  
9 *distributor(s) the host distributor must include the class as such in its cost allocation study".*

10 HOBNI has complied and has included the class in its CAS. In addition, the Company consulted  
11 with HONI prior to preparing its CAS and filing its rate application, and in discussions and  
12 correspondence with HONI they support HOBNI's approach to the allocation of costs and rate  
13 design.

14 HOBNI included this class in its CAS and provided the class specific data to HONI who modeled  
15 this class with the others in order to determine class specific coincident and non-coincident peak  
16 load data to be used in the CAS model.

17 In addition, HOBNI is proposing to change the way it bills HONI, its embedded distributor, and to  
18 expand the tariff sheet to include other tariffs similar to other service classifications and to cease  
19 billing HONI as load transfer customer. HOBNI proposes to bill this class for consumption based  
20 on the following rate elements:

- 21 • Energy at Hourly Ontario Energy Prices,
- 22 • Global Adjustment based on IESO's posted prices,
- 23 • Retail Transmission Network Service Rate, Retail Transmission Connection Service  
24 Rate, Wholesale Market Service Rate, and Rural Rate Protection Charges based on the  
25 General Service 700 to 4,999 kW service classification rates,
- 26 • A Monthly Fixed Service Charge with no volumetric distribution rate as determined in  
27 *Exhibit 8 Tab 1,*
- 28 • Exclude the SSS administration charge

1 HOBNI is proposing to bill this class the Retail Transmission Service Rates (“RTSR”) based on  
2 the retail rates being billed to the General Service 700 to 4,999 kW class since it does not have  
3 class specific rates. The RTSRs billed to the General Service 700 to 4,999 kW class would be  
4 most suitable as the forecast average monthly demand for this class is expected to be about 3.3  
5 MW in 2015. HOBNI has considered designing class specific rates for this class but determined  
6 that any attempt to do so without a complete RTSR CAS, would not yield defensible results.

7 HOBNI is proposing to design a 100% fixed monthly distribution rate for this class with no  
8 volumetric rate for this class. The peak demand load values fluctuate significantly for this class  
9 and can be anywhere between zero and more than 5.0 MW due to the irregular nature of the  
10 embedded distributor’s capacity requirements. For instance, the forecast demand for 2014 is  
11 zero but it was been in excess of 7.9 MW average peak demand in 2013. Although the average  
12 peak demand is expected to be about 3.3 MW for 2015 to 2019, this is uncertain as well. It is  
13 expected that starting in 2019 demands are forecasted to start to increase. However, as there  
14 is volatility in peak demand volumes, in order for Hydro One Brampton to recover its base  
15 revenue requirement for this class, a fixed distribution rate structure would be most appropriate.  
16 A fixed rate structure would enable revenue stability as HOBNI has a fixed investment in the  
17 distribution feeders that supply this customer and the peak load volumes have no bearing on the  
18 costs that will be incurred to distribute power to this customer class. The embedded distributor,  
19 HONI, supports this approach of rate design for this class.

## 20 **micro-FIT Class:**

21 HOBNI confirms that it has not included the micro-FIT class as a separate class in the CAS  
22 model for 2015.

## 23 **Elimination of Customer Classes:**

24 The Company confirms is not proposing to eliminate or combine any existing customer classes.

## EXHIBIT 7: Cost Allocation

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TAB 2 (of 3)

# **Class Revenue Requirements and Revenue to Cost Ratios**

# OVERVIEW

## CLASS REVENUE REQUIREMENTS

Hydro One Brampton completed the *OEB Appendix 2-P* with the results of its 2015 CAS according to Chapter 2 of the Board's *Filing Requirements*.

In the Board's *Filing Requirements* in subsection 2.10.1 Cost Allocation Study Requirements there is a requirement that if a distributor establishes new customer classes, information provided in the distributor's previous cost of service application concerning class revenue requirements must be restated in *OEB Appendix 2-P* on the basis of the proposed customer classes, to provide continuity with the proposed new customer class(es).

**Table 1** below shows the re-stated allocated cost from the 2011 CAS and the allocated cost based on the 2015 CAS.

**Table 1: Allocated Costs**

Rate Classes	Costs Allocated from Previous Study	%	Costs Allocated in Test Year Study (Column 7A)	%
Residential	\$ 34,813,009	55.20%	\$ 44,819,313	60.86%
GS < 50 kW	\$ 5,801,650	9.20%	\$ 7,380,479	10.02%
GS > 50 - 699 KW	\$ 12,993,372	20.60%	\$ 11,380,540	15.45%
GS > 700 - 4,999 kW	\$ 5,370,443	8.52%	\$ 5,582,719	7.58%
Large User, if applicable	\$ 2,030,404	3.22%	\$ 2,243,603	3.05%
Street Lighting	\$ 1,786,238	2.83%	\$ 1,926,181	2.62%
Sentinel Lighting	\$ -	0.00%	\$ -	0.00%
Unmetered Scattered Load (USL)	\$ 142,087	0.23%	\$ 150,450	0.20%
Distributed Generation Class	\$ 88,879	0.14%	\$ 105,916	0.14%
Energy from Waste Generation	\$ 694	0.00%	\$ 845	0.00%
Embedded Distributor	\$ 42,081	0.07%	\$ 49,399	0.07%
Standby Power	\$ -	0.00%	\$ -	0.00%
<b>Total</b>	<b>\$ 63,068,856</b>	<b>100.00%</b>	<b>\$ 73,639,446</b>	<b>100.00%</b>

HOBNI re-stated the 2011 CAS to include three customer classes which were not modeled as part of HOBNI's 2011 CAS. The three classes included by Hydro One Brampton in its 2015 CAS are the Distributed Generation, Embedded Distributor, and Energy from Waste Generation classes. *OEB Appendix 2-P Table A "Allocated Costs"* presented in *Appendix 1* of this Schedule

1 has been reproduced per **Table 1** above. This table provides the allocated costs comparison of  
 2 the forecast 2015 vs. the OEB approved values for 2011. As required, for comparative purposes  
 3 HOBNI has restated the costs allocated from the previous study results from its 2011 CAS that  
 4 was filed with its last Cost of Service rate application. The approach used to restate the 2011  
 5 values was that the 2015 percentage proportions of allocated costs by class for the new classes  
 6 were used to recalculate the 2011 costs and the offset reduction was allocated across all other  
 7 classes to balance the total costs to 100%. As Hydro One Brampton did not have the data to  
 8 update its 2011 CAS to add the new classes, the Company used this high level approach which  
 9 arrived at reasonable results. In addition, the amounts allocated were not significant, as they  
 10 were below HOBNI's materiality threshold of \$368,000.

11 *OEB Appendix 2-P Table B "Calculated Class Revenue"* of *Appendix 1* of this schedule has  
 12 been reproduced per **Table 2** below.

13 **Table 2: Calculated Class Revenues**

Classes (same as previous table)	Load Forecast (LF) X current approved rates	L.F. X current approved rates X (1 + d)	LF X proposed rates	Miscellaneous Revenue
Residential	\$ 37,011,790	\$ 39,463,798	\$ 39,771,991	\$ 2,978,655
GS < 50 kW	\$ 8,305,737	\$ 8,855,987	\$ 8,146,834	\$ 340,718
GS > 50 - 699 kW	\$ 9,458,822	\$ 10,085,463	\$ 10,921,333	\$ 459,207
GS > 700 - 4,999 kW	\$ 7,032,138	\$ 7,498,013	\$ 6,579,463	\$ 119,799
Large User, if applicable	\$ 1,914,284	\$ 2,041,104	\$ 2,210,884	\$ 32,719
Street Lighting	\$ 1,347,656	\$ 1,436,937	\$ 1,652,010	\$ 81,554
Sentinel Lighting	\$ -	\$ -	\$ -	\$ -
Unmetered Scattered Load	\$ 122,389	\$ 130,498	\$ 143,587	\$ 6,863
Distributed Generation	\$ 7,240	\$ 7,720	\$ 46,099	\$ 6,859
Energy from Waste Generation	\$ -	\$ -	\$ 747	\$ 98
Embedded Distributor	\$ 2,541	\$ 2,709	\$ 49,281	\$ 117
Standby Power	\$ 84,997	\$ 90,628	\$ 90,628	\$ -
<b>Total</b>	<b>\$ 65,287,594</b>	<b>\$ 69,612,857</b>	<b>\$ 69,612,857</b>	<b>\$ 4,026,589</b>

14  
 15 This table provides a comparison of the forecast revenue by class based on three different class  
 16 revenue calculations. The first calculates revenues based on the forecasted billing determinants  
 17 for 2015 multiplied by the 2014 Board approved existing rates. The second calculates revenues  
 18 based on the forecasted billing determinants for 2015 multiplied the 2014 Board approved  
 19 existing rates multiplied by (one plus the distribution revenue increase factor) to yield the 2015  
 20 Test Year base revenue requirement. The third, calculates the revenues based on the

1 forecasted billing determinants for 2015 multiplied by the proposed rates. The last column in  
2 **Table 2** above shows the allocated Miscellaneous Revenue by rate class.

### 3 **REVENUE TO COST RATIOS**

4 The results of a CAS are presented in the form of revenue-to-cost ratios. The ratio is shown by  
5 rate classification and is the percentage of distribution revenue collected by rate classification  
6 compared to the costs allocated to the classification. The percentage identifies the rate  
7 classifications that are being subsidized and those that are over-contributing. A percentage of  
8 less than 100% means the rate classification is under-contributing and is being subsidized by  
9 customers of other classes. A percentage of greater than 100% indicates the rate classification  
10 is over-contributing and is subsidizing customers of other classes.

11 In the Board Report *Review of Electricity Distribution Cost Allocation Policy* EB-2010-0219,  
12 dated March 31, 2011, the OEB established what it considered to be the appropriate ranges of  
13 revenue-to-cost ratios which are summarized in *Table C of OEB Appendix 2-P*. Table C,  
14 Revenue-to-Cost Ratios, presents Hydro One Brampton's revenue-to-cost ratios from the 2012  
15 IRM application, the updated 2015 CAS results and the proposed 2015 revenue-to-cost ratios.  
16 The Board's decision (EB-2010-0132) in HOBNI's 2011 cost of service application prescribed a  
17 phase-in period to adjust the revenue-to-cost ratio for the Street Lighting rate class from 41.2%  
18 in 2011 to 70% in 2012 and apply additional revenue to decrease the revenue-to-cost ratio to  
19 130% for the General Service 700-to 4,999 kW rate class. Hence, HOBNI's information from  
20 the 2012 IRM application has been included as it contains the final adjustment to the revenue-  
21 to-cost ratio for Street Lighting Class and General Service 700 to 4,999 kW rate classes.

22 Hydro One Brampton is proposing to re-align its revenue-to-cost ratios by changing the  
23 revenue-to-cost ratios for those rate classes that are outside of the Board's Policy Range to the  
24 upper or lower end of the range as applicable, and reallocating the revenue to the remaining  
25 rate classes proportionately. *Table C of OEB Appendix 2-P* provides information on calculated  
26 class revenues. The resulting 2015 proposed base revenue will be the amount used in *Exhibit 8*  
27 to design the proposed distribution charges in this application.

1 Hydro One Brampton is adjusting revenue-to-cost ratios for customer classes to bring them all  
2 closer to unity<sup>1</sup>. The revenue-to-cost ratios for customer classes that are outside of the policy  
3 range were brought to at least either end of the range. Revenue-to-cost ratios for customer  
4 classes that were already in the policy range were brought closer to unity. HOBNI has included  
5 four new classes in the CAS in this application with the following treatment of revenue-to-cost  
6 ratios:

- 7 • Distributed Generation – HOBNI could not bring the current revenue-to-cost ratio of  
8 13.77% to the policy range<sup>2</sup> since the rate impact was so large. HOBNI brought their  
9 revenue-to-cost ratios to 50% with a proposed transition plan to increase the revenue-to-  
10 cost ratios to 70% in 2016 and 90% in 2017. *Table C of OEB Appendix 2-P* has been  
11 updated to reflect this.
- 12 • Energy from Waste Generation – The revenue to cost ratio for this class was 11.59%.  
13 Currently Hydro One Brampton collects no distribution revenue from this class. In this  
14 allocation HOBNI is looking to recovery a small monthly service charge to recover costs  
15 of meter reading and billing and collecting; therefore, HOBNI is proposing a revenue-to-  
16 cost ratio of 100.00%.
- 17 • Embedded Distributor Class – HOBNI is currently charging the embedded distributor  
18 class a nominal monthly wheeling charge of \$0.0634 per kW of peak demand. The  
19 revenue-to-cost ratio is currently 5.72% which is considerably lower than the cost to  
20 service this class. HOBNI is proposing to increase the revenue-to-cost ratio for this class  
21 to 100%. The total bill impact on this class is expected to be (0.16%), the reason for the  
22 reduction is lowered retail transmission rates.
- 23 • Standby Power – HOBNI was not able to model this class in the CAS as there is no  
24 provision to handle a Standby Power Class. HOBNI will perform a CAS for this class  
25 once the Board has concluded its work on rate design/cost allocation for Standby Power  
26 service classifications. HOBNI is proposing to increase the rates of this class based on  
27 the growth of total proposed distribution revenue in 2015 vs. 2014, (2015 proposed base

---

<sup>1</sup> Unity in this context refers to a revenue-to-cost ratio which is 100%.

<sup>2</sup> HOBNI assumes that the Board Policy Range is 80%-120%, the same as the General Service < 50 kW class as the consumption of Distributed Generators is low for these generators.

1 revenue requirement divided by base revenue requirement at existing rates) i.e. 6.62%,  
2 per Sheet *O1 Revenue to Cost JRR* in the Cost Allocation Model V3.1.  
3

## EXHIBIT 7: Cost Allocation

---

### Appendix 1

# **OEB Appendix 2-P - Cost Allocation**

## Appendix 2-P Cost Allocation

Please complete the following four tables.

### A) Allocated Costs

Classes	Costs Allocated from Previous Study	%	Costs Allocated in Test Year Study (Column 7A)	%
Residential	\$ 34,813,009	55.20%	\$ 44,819,313	60.86%
GS < 50 kW	\$ 5,801,650	9.20%	\$ 7,380,479	10.02%
GS > 50 - 699 KW	\$ 12,993,372	20.60%	\$ 11,380,540	15.45%
GS > 700 - 4,999 kW	\$ 5,370,443	8.52%	\$ 5,582,719	7.58%
Large User, if applicable	\$ 2,030,404	3.22%	\$ 2,243,603	3.05%
Street Lighting	\$ 1,786,238	2.83%	\$ 1,926,181	2.62%
Sentinel Lighting	\$ -	0.00%		0.00%
Unmetered Scattered Load (USL)	\$ 142,087	0.23%	\$ 150,450	0.20%
Distributed Generation Class	\$ 88,879	0.14%	\$ 105,916	0.14%
Energy from Waste Generation	\$ 694	0.00%	\$ 845	0.00%
Embedded distributor class	\$ 42,081	0.07%	\$ 49,399	0.07%
Standby Power		0.00%	\$ -	0.00%
<b>Total</b>	<b>\$ 63,068,856</b>	<b>100.00%</b>	<b>\$ 73,639,446</b>	<b>100.00%</b>

### Notes

- Customer Classification - If proposed rate classes differ from those in place in the previous Cost Allocation study, modify the rate classes to match the current application as closely as possible.
- Host Distributors - Provide information on embedded distributor(s) as a separate class, if applicable. If embedded distributor(s) are billed as customers in a General Service class, include the allocated cost and revenue of the embedded distributor(s) in the applicable class. Also complete Appendix 2-Q.
- Class Revenue Requirements - If using the Board-issued model, in column 7A enter the results from Worksheet O-1, Revenue Requirement (row 40 in the 2013 model). This excludes costs in deferral and variance accounts. Note to Embedded Distributor(s), it also does not include Account 4750 - Low Voltage (LV) Costs.

### B) Calculated Class Revenues

Classes (same as previous table)	Column 7B	Column 7C	Column 7D	Column 7E
	Load Forecast (LF) X current approved	L.F. X current approved rates X (1)	LF X proposed rates	Miscellaneous Revenue
Residential	\$ 37,011,790	\$ 39,463,798	\$ 39,771,991	\$ 2,978,655
GS < 50 kW	\$ 8,305,737	\$ 8,855,987	\$ 8,146,834	\$ 340,718
GS > 50 - 699 KW	\$ 9,458,822	\$ 10,085,463	\$ 10,921,333	\$ 459,207
GS > 700 - 4,999 kW	\$ 7,032,138	\$ 7,498,013	\$ 6,579,463	\$ 119,799
Large User, if applicable	\$ 1,914,284	\$ 2,041,104	\$ 2,210,884	\$ 32,719
Street Lighting	\$ 1,347,656	\$ 1,436,937	\$ 1,652,010	\$ 81,554
Sentinel Lighting				
Unmetered Scattered Load (USL)	\$ 122,389	\$ 130,498	\$ 143,587	\$ 6,863
Distributed Generation Class	\$ 7,240	\$ 7,720	\$ 46,099	\$ 6,859
Energy from Waste Generation	\$ -	\$ -	\$ 747	\$ 98
Embedded distributor class	\$ 2,541	\$ 2,709	\$ 49,281	\$ 117
Standby Power	\$ 84,997	\$ 90,628	\$ 90,628	\$ -
<b>Total</b>	<b>\$ 65,287,594</b>	<b>\$ 69,612,857</b>	<b>\$ 69,612,857</b>	<b>\$ 4,026,589</b>

### Notes:

- Columns 7B to 7D - LF means Load Forecast of Annual Billing Quantities (i.e. customers or connections X 12, (kWh or kW, as applicable). Revenue Quantities should be net of Transformer Ownership Allowance. Exclude revenue from rate adders and rate riders.
- Columns 7C and 7D - Column total in each column should equal the Base Revenue Requirement
- Columns 7C - The Board cost allocation model calculates "1+d" in worksheet O-1, cell C21. "d" is defined as Revenue Deficiency/ Revenue at Current Rates.
- Columns 7E - If using the Board-issued Cost Allocation model, enter Miscellaneous Revenue as it appears in Worksheet O-1, row 19.

## Appendix 2-P Cost Allocation

### C) Rebalancing Revenue-to-Cost (R/C) Ratios

Class	Previously Approved Ratios	Status Quo Ratios	Proposed Ratios	Policy Range
	Most Recent Year: 2012	(7C + 7E) / (7A)	(7D + 7E) / (7A)	
	%	%	%	%
Residential	101.12	94.70	95.38	85 - 115
GS < 50 kW	120.00	124.61	115.00	80 - 120
GS > 50 - 699 KW	80.00	92.66	100.00	80 - 120
GS > 700 - 4,999 kW	131.55	136.45	120.00	80 - 120
Large User, if applicable	100.00	92.43	100.00	85 - 115
Street Lighting	70.00	78.83	90.00	70 - 120
Sentinel Lighting				80 - 120
Unmetered Scattered Load (USL)	80.00	91.30	100.00	80 - 120
Distributed Generation Class		13.77	50.00	85 - 115
Energy from Waste Generation		11.59	100.00	100
Embedded distributor class		5.72	100.00	
Standby Power			N/A	

#### Notes

- 1 Previously Approved Revenue-to-Cost Ratios - For most applicants, Most Recent Year would be the third year of the IRM 3 period, e.g. if the applicant rebased in 2009 with further adjustments over 2 years, the Most recent year is 2011. For applicants whose most recent rebasing
- 2 Status Quo Ratios - The Board's updated Cost Allocation Model yields the Status Quo Ratios in Worksheet O-1. Status Quo means

### D) Proposed Revenue-to-Cost Ratios

Class	Proposed Revenue-to-Cost Ratios			Policy Range
	2015	2016	2017	
	%	%	%	%
Residential	95.38			85 - 115
GS < 50 kW	115.00			80 - 120
GS > 50 - 699 KW	100.00			80 - 120
GS > 700 - 4,999 kW	120.00			80 - 120
Large User, if applicable	100.00			85 - 115
Street Lighting	90.00			70 - 120
Sentinel Lighting				80 - 120
Unmetered Scattered Load (USL)	100.00			80 - 120
Distributed Generation Class	50.00	70.00	90.00	85 - 115
Energy from Waste Generation	100.00			100
Embedded distributor class	100.00			
Standby Power	N/A			

#### Note

- 1 The applicant should complete Table D if it is applying for approval of a revenue to cost ratio in 2013 that is outside the Board's policy range for any customer class. Table (d) will show the information that the distributor would likely enter in the IRM model) in 2013. In 2014 Table (d), enter the planned ratios for the classes that will be 'Change' and 'No Change' in 2014 (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'.

## EXHIBIT 7: Cost Allocation

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### **TAB 3 (of 3)**

## **2014 Cost Allocation Model**



# 2014 Cost Allocation Model

EB-2014-0083

## Sheet I6.1 Revenue Worksheet -

Total kWhs from Load Forecast	3,972,635,063
-------------------------------	---------------

Total kW from Load Forecast	5,864,284
-----------------------------	-----------

Deficiency/sufficiency ( RRWF 8. cell F51)	- 4,325,262
--	-------------

Miscellaneous Revenue (RRWF 5. cell F48)	4,026,589
--	-----------

		1	2	3	4	5	6	7	8	9	10	11	
	ID	Total	Residential	GS <50	GS>50-Regular	GS >50-Intermediate	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor	Distributed Generation Class	Energy from Waste Generation	Back-up/Standby Power
<b>Billing Data</b>													
Forecast kWh	CEN	3,972,635,063	1,308,264,983	354,668,870	1,064,497,599	806,154,180	382,619,513	33,306,955	5,931,733	17,012,414	178,816		
Forecast kW	CDEM	5,864,284			2,979,826	1,969,146	719,987	100,672		40,073	-		54,580
Forecast kW, included in CDEM, of customers receiving line transformer allowance		1,827,695			241,367	1,586,328							
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.		370,521		370,521									
KWh excluding KWh from Wholesale Market Participants	CEN EWMP	3,972,635,063	1,308,264,983	354,668,870	1,064,497,599	806,154,180	382,619,513	33,306,955	5,931,733	17,012,414	178,816	-	-
Existing Monthly Charge			\$ 10.51	\$ 24.39	\$ 121.18	\$ 1,196.32	\$ 4,549.67	\$ 0.84	\$ 0.96		\$ 5.40		
Existing Distribution kWh Rate			\$ 0.0147	\$ 0.0160					\$ 0.0176		\$ 0.0160		
Existing Distribution kW Rate					\$ 2.5039	\$ 3.4411	\$ 2.2038	\$ 8.7506		\$ 0.0634			\$ 1.5573
Existing TOA Rate					\$ 0.7048	\$ 0.8758							
Additional Charges													
Distribution Revenue from Rates		\$66,847,016	\$37,011,790	\$8,305,737	\$9,628,937	\$8,421,445	\$1,914,284	\$1,347,656	\$122,389	\$2,541	\$7,240	\$0	\$84,997
Transformer Ownership Allowance		\$1,559,421	\$0	\$0	\$170,115	\$1,389,306	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Class Revenue	CREV	\$65,287,595	\$37,011,790	\$8,305,737	\$9,458,822	\$7,032,138	\$1,914,284	\$1,347,656	\$122,389	\$2,541	\$7,240	\$0	\$84,997



# 2014 Cost Allocation Model

EB-2014-0083

**Sheet I6.2 Customer Data Worksheet -**

		1	2	3	4	5	6	7	8	9	10	11	
	ID	Total	Residential	GS <50	GS>50-Regular	GS >50-Intermediate	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor	Distributed Generation Class	Energy from Waste Generation	Back-up/Standby Power
<b>Billing Data</b>													
Bad Debt 3 Year Historical Average	BDHA	\$727,036	\$404,598	\$102,991	\$218,616	\$831	\$0	\$0	(\$0)	\$0	\$0	\$0	\$0
Late Payment 3 Year Historical Average	LPHA	\$1,307,185	\$926,701	\$154,060	\$196,631	\$30,436	(\$1,297)	\$57	\$596				
Number of Bills	CNB	1,833,806	1,701,847	111,432.61	17,500	1,442	72	27	662		811	12	
Number of Devices													
Number of Connections (Unmetered)	CCON	23,896						22,335	1,562				
Total Number of Customers	CCA	151,706	140,979	8,989	1,491	115	6	2	56	-	68	1	
Bulk Customer Base	CCB	-											
Primary Customer Base	CCP	151,706	140,979	8,989	1,491	115	6	2	56		68	1	
Line Transformer Customer Base	CCLT	151,307	140,979	8,792	1,386	25	-	2	56		68	-	
Secondary Customer Base	CCS	147,219	140,110	6,251	766	12	-	2	56		23	-	
Weighted - Services	CWCS	197,242	140,110	48,755	8,331	47	-	-	-	-	-	-	-
Weighted Meter -Capital	CWMC	41,344,782	27,479,148	7,678,128	4,818,585	912,572	197,853	-	-	-	258,497	-	-
Weighted Meter Reading	CWMR	195,228	140,979	8,989	31,685	8,968	637	-	-	-	3,913	58	-
Weighted Bills	CWNB	2,016,507	1,701,847	111,433	178,678	14,723	735	27	662	-	8,280	123	-

**Bad Debt Data**

Historic Year:	2011	939,905	508,660	114,033	314,720	2,492	-	-	-				
Historic Year:	2012	677,070	327,534	124,270	225,265	-	-	-	0				
Historic Year:	2013	564,133	377,599	70,671	115,863	-	-	-	-				
Three-year average		727,036	404,598	102,991	218,616	831	-	-	0	-	-	-	-



# 2014 Cost Allocation Model

EB-2014-0083

**Sheet 18 Demand Data Worksheet -**

This is an input sheet for demand allocators.

CP TEST RESULTS	4 CP
NCP TEST RESULTS	4 NCP

Co-incident Peak	Indicator
1 CP	CP 1
4 CP	CP 4
12 CP	CP 12

Non-co-incident Peak	Indicator
1 NCP	NCP 1
4 NCP	NCP 4
12 NCP	NCP 12

Customer Classes	Total	1	2	3	4	5	6	7	8	9	10	11
		Residential	GS <50	GS>50-Regular	GS >50-Intermediate	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor	Distributed Generation Class	Energy from Waste Generation	Back-up/Standby Power
<b>CO-INCIDENT PEAK</b>												
<b>1 CP</b>												
Transformation CP	TCP1	828,014	433,168	66,074	163,113	122,259	42,693	686		20		
Bulk Delivery CP	BCP1	-										
Total Sytem CP	DCP1	828,014	433,168	66,074	163,113	122,259	42,693	686		20		
<b>4 CP</b>												
Transformation CP	TCP4	2,993,959	1,493,122	280,724	590,795	424,781	201,522	2,795		220		
Bulk Delivery CP	BCP4	-										
Total Sytem CP	DCP4	2,993,959	1,493,122	280,724	590,795	424,781	201,522	2,795		220		
<b>12 CP</b>												
Transformation CP	TCP12	7,794,612	3,198,935	708,888	1,848,356	1,369,234	607,752	52,751	8,418		278	
Bulk Delivery CP	BCP12	-										
Total Sytem CP	DCP12	7,794,612	3,198,935	708,888	1,848,356	1,369,234	607,752	52,751	8,418		278	
<b>NON CO_INCIDENT PEAK</b>												
<b>1 NCP</b>												
Classification NCP from Load Data Provider	DNCP1	924,765	442,908	93,204	180,503	137,224	61,489	8,490	757		190	
Primary NCP	PNCP1	924,765	442,908	93,204	180,503	137,224	61,489	8,490	757		190	
Line Transformer NCP	LTNCP1	740,741	442,908	91,153	167,838	29,405	-	8,490	757		190	
Secondary NCP	SNCP1	621,792	440,176	64,807	92,796	14,703	-	8,490	757		63	
<b>4 NCP</b>												
Classification NCP from Load Data Provider	DNCP4	3,411,295	1,525,696	356,159	708,333	540,682	243,723	33,164	2,899		640	
Primary NCP	PNCP4	3,411,295	1,525,696	356,159	708,333	540,682	243,723	33,164	2,899		640	
Line Transformer NCP	LTNCP4	2,685,215	1,525,696	348,323	658,634	115,861	-	33,164	2,899		640	
Secondary NCP	SNCP4	2,222,291	1,516,285	247,646	364,153	57,930	-	33,164	2,899		213	
<b>12 NCP</b>												
Classification NCP from Load Data Provider	DNCP12	8,778,006	3,434,780	960,665	2,050,673	1,541,211	684,768	95,997	8,423		1,489	
Primary NCP	PNCP12	8,778,006	3,434,780	960,665	2,050,673	1,541,211	684,768	95,997	8,423		1,489	
Line Transformer NCP	LTNCP12	6,717,268	3,434,780	939,529	1,906,790	330,259	-	95,997	8,423		1,489	
Secondary NCP	SNCP12	5,405,862	3,413,594	667,974	1,054,248	165,130	-	95,997	8,423		496	



# 2014 Cost Allocation Model

EB-2014-0083

## Sheet 01 Revenue to Cost Summary Worksheet -

**Instructions:**  
Please see the first tab in this workbook for detailed instructions

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

Rate Base	Total	1 Residential	2 GS <50	3 GS>50-Regular	4 GS >50-Intermediate	5 Large Use >5MW	6 Street Light	7 Unmetered Scattered Load	8 Embedded Distributor	9 Distributed Generation Class	10 Energy from Waste Generation	11 Back-up/Standby Power
<b>Assets</b>												
<b>crov</b> Distribution Revenue at Existing Rates	\$65,287,595	\$37,011,790	\$8,305,737	\$9,458,822	\$7,032,138	\$1,914,284	\$1,347,856	\$122,389	\$2,541	\$7,240	\$0	\$84,997
<b>mi</b> Miscellaneous Revenue (mi)	\$4,026,589	\$2,978,655	\$340,718	\$459,207	\$119,799	\$32,719	\$81,554	\$6,863	\$117	\$6,859	\$98	\$0
	Miscellaneous Revenue Input equals Output											
<b>Total Revenue at Existing Rates</b>	<b>\$69,314,184</b>	<b>\$39,990,444</b>	<b>\$8,646,455</b>	<b>\$9,918,029</b>	<b>\$7,151,937</b>	<b>\$1,947,003</b>	<b>\$1,429,210</b>	<b>\$129,253</b>	<b>\$2,658</b>	<b>\$14,100</b>	<b>\$98</b>	<b>\$84,997</b>
Factor required to recover deficiency (1 + D)	-1.0662											
Distribution Revenue at Status Quo Rates	\$69,612,857	\$39,463,798	\$8,855,987	\$10,085,463	\$7,498,013	\$2,041,104	\$1,436,937	\$130,498	\$2,709	\$7,720	\$0	\$90,628
Miscellaneous Revenue (mi)	\$4,026,589	\$2,978,655	\$340,718	\$459,207	\$119,799	\$32,719	\$81,554	\$6,863	\$117	\$6,859	\$98	\$0
<b>Total Revenue at Status Quo Rates</b>	<b>\$73,639,446</b>	<b>\$42,442,452</b>	<b>\$9,196,704</b>	<b>\$10,544,670</b>	<b>\$7,617,812</b>	<b>\$2,073,823</b>	<b>\$1,518,491</b>	<b>\$137,361</b>	<b>\$2,826</b>	<b>\$14,580</b>	<b>\$98</b>	<b>\$90,628</b>
<b>Expenses</b>												
<b>di</b> Distribution Costs (di)	\$8,861,993	\$5,187,129	\$1,018,006	\$1,317,213	\$745,114	\$310,586	\$262,722	\$19,624	\$51	\$1,540	\$8	\$0
<b>cu</b> Customer Related Costs (cu)	\$7,932,996	\$6,214,296	\$611,893	\$873,376	\$93,048	\$8,906	\$82,024	\$7,343	\$0	\$41,583	\$526	\$0
<b>ad</b> General and Administration (ad)	\$8,778,917	\$5,953,083	\$851,436	\$1,144,613	\$438,406	\$167,158	\$180,235	\$14,098	\$7,124	\$22,486	\$278	\$0
<b>dep</b> Depreciation and Amortization (dep)	\$15,931,314	\$9,245,823	\$1,713,762	\$2,595,082	\$1,341,632	\$542,027	\$438,882	\$34,126	\$1,055	\$18,915	\$11	\$0
<b>INPUT</b> PILs (INPUT)	\$2,184,600	\$1,239,573	\$216,725	\$370,822	\$201,698	\$82,660	\$65,474	\$5,120	\$1,070	\$1,455	\$2	\$0
<b>INT</b> Interest	\$14,203,117	\$8,059,051	\$1,409,033	\$2,410,886	\$1,311,336	\$537,415	\$425,676	\$33,291	\$6,957	\$9,462	\$10	\$0
<b>Total Expenses</b>	<b>\$57,892,938</b>	<b>\$35,898,955</b>	<b>\$6,820,857</b>	<b>\$8,711,992</b>	<b>\$4,131,235</b>	<b>\$1,648,762</b>	<b>\$1,455,012</b>	<b>\$113,601</b>	<b>\$16,257</b>	<b>\$95,442</b>	<b>\$834</b>	<b>\$0</b>
<b>Direct Allocation</b>	<b>\$25,440</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$25,440</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>NI</b> Allocated Net Income (NI)	\$15,721,068	\$8,920,358	\$1,559,623	\$2,668,548	\$1,451,484	\$594,851	\$471,170	\$36,848	\$7,701	\$10,473	\$11	\$0
<b>Revenue Requirement (includes NI)</b>	<b>\$73,639,446</b>	<b>\$44,819,313</b>	<b>\$7,380,479</b>	<b>\$11,380,540</b>	<b>\$5,582,719</b>	<b>\$2,243,603</b>	<b>\$1,926,181</b>	<b>\$150,450</b>	<b>\$49,399</b>	<b>\$105,916</b>	<b>\$845</b>	<b>\$0</b>
	Revenue Requirement Input equals Output											
<b>Rate Base Calculation</b>		61%	10%	15%	8%	3%	3%	0%	0%	0%	0%	0%
<b>Net Assets</b>												
<b>dp</b> Distribution Plant - Gross	\$780,583,098	\$458,517,182	\$83,940,703	\$122,036,777	\$63,912,858	\$25,799,108	\$24,098,556	\$1,825,668	\$14,116	\$437,536	\$593	\$0
<b>gp</b> General Plant - Gross	\$42,565,634	\$24,759,421	\$4,505,718	\$6,720,891	\$3,645,869	\$1,495,769	\$1,296,294	\$99,143	\$20,758	\$21,738	\$33	\$0
<b>accum dep</b> Accumulated Depreciation	(\$302,126,675)	(\$178,820,777)	(\$32,686,404)	(\$47,491,656)	(\$23,496,153)	(\$9,214,010)	(\$9,477,963)	(\$711,990)	(\$20,808)	(\$206,702)	(\$213)	\$0
<b>co</b> Capital Contribution	(\$180,813,157)	(\$111,132,503)	(\$21,902,167)	(\$23,655,815)	(\$12,730,257)	(\$5,239,655)	(\$5,709,367)	(\$415,256)	\$0	(\$27,973)	(\$164)	\$0
<b>Total Net Plant</b>	<b>\$340,208,901</b>	<b>\$193,323,323</b>	<b>\$33,857,850</b>	<b>\$57,610,197</b>	<b>\$31,332,318</b>	<b>\$12,841,212</b>	<b>\$10,207,521</b>	<b>\$797,566</b>	<b>\$14,065</b>	<b>\$224,599</b>	<b>\$249</b>	<b>\$0</b>
<b>Directly Allocated Net Fixed Assets</b>	<b>\$152,632</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$152,632</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>COP</b> Cost of Power (COP)	\$470,431,894	\$154,922,253	\$41,999,214	\$126,055,783	\$95,463,246	\$45,309,076	\$3,944,146	\$702,425	\$2,014,578	\$21,175	\$0	\$0
OM&A Expenses	\$25,573,906	\$17,354,508	\$2,481,336	\$3,335,202	\$1,276,569	\$486,650	\$524,981	\$41,065	\$7,175	\$65,609	\$811	\$0
Directly Allocated Expenses	\$13,601	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,601	\$0	\$0	\$0
<b>Subtotal</b>	<b>\$496,019,401</b>	<b>\$172,276,761</b>	<b>\$44,480,550</b>	<b>\$129,390,985</b>	<b>\$96,739,814</b>	<b>\$45,795,726</b>	<b>\$4,469,127</b>	<b>\$743,489</b>	<b>\$2,035,354</b>	<b>\$86,784</b>	<b>\$811</b>	<b>\$0</b>
<b>Working Capital</b>	<b>\$64,482,522</b>	<b>\$22,395,979</b>	<b>\$5,782,471</b>	<b>\$16,820,828</b>	<b>\$12,576,176</b>	<b>\$5,953,444</b>	<b>\$580,987</b>	<b>\$96,654</b>	<b>\$264,596</b>	<b>\$11,282</b>	<b>\$105</b>	<b>\$0</b>
<b>Total Rate Base</b>	<b>\$404,844,055</b>	<b>\$215,719,302</b>	<b>\$39,640,322</b>	<b>\$74,431,025</b>	<b>\$43,908,493</b>	<b>\$18,794,656</b>	<b>\$10,788,507</b>	<b>\$894,219</b>	<b>\$431,294</b>	<b>\$235,881</b>	<b>\$355</b>	<b>\$0</b>
	Rate Base Input equals Output											
<b>Equity Component of Rate Base</b>	<b>\$161,937,622</b>	<b>\$86,287,721</b>	<b>\$15,856,129</b>	<b>\$29,772,410</b>	<b>\$17,563,397</b>	<b>\$7,517,862</b>	<b>\$4,315,403</b>	<b>\$357,688</b>	<b>\$172,517</b>	<b>\$94,353</b>	<b>\$142</b>	<b>\$0</b>
<b>Net Income on Allocated Assets</b>	<b>\$15,715,437</b>	<b>\$6,543,497</b>	<b>\$3,375,848</b>	<b>\$1,832,678</b>	<b>\$3,486,578</b>	<b>\$425,071</b>	<b>\$63,479</b>	<b>\$23,759</b>	<b>(\$38,871)</b>	<b>(\$80,863)</b>	<b>(\$736)</b>	<b>\$84,997</b>
<b>Net Income on Direct Allocation Assets</b>	<b>\$3,075</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,075</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Net Income</b>	<b>\$15,718,512</b>	<b>\$6,543,497</b>	<b>\$3,375,848</b>	<b>\$1,832,678</b>	<b>\$3,486,578</b>	<b>\$425,071</b>	<b>\$63,479</b>	<b>\$23,759</b>	<b>(\$35,797)</b>	<b>(\$80,863)</b>	<b>(\$736)</b>	<b>\$84,997</b>
<b>RATIOS ANALYSIS</b>												
<b>REVENUE TO EXPENSES STATUS QUO%</b>	<b>100.00%</b>	<b>94.70%</b>	<b>124.61%</b>	<b>92.66%</b>	<b>136.45%</b>	<b>92.43%</b>	<b>78.83%</b>	<b>91.30%</b>	<b>5.72%</b>	<b>13.77%</b>	<b>11.59%</b>	<b>0.00%</b>
<b>EXISTING REVENUE MINUS ALLOCATED COSTS</b>	<b>(\$4,325,262)</b>	<b>(\$4,828,869)</b>	<b>\$1,265,975</b>	<b>(\$1,462,511)</b>	<b>\$1,569,219</b>	<b>(\$296,600)</b>	<b>(\$496,972)</b>	<b>(\$21,197)</b>	<b>(\$46,741)</b>	<b>(\$91,816)</b>	<b>(\$747)</b>	<b>\$84,997</b>
	Deficiency Input equals Output											
<b>STATUS QUO REVENUE MINUS ALLOCATED COSTS</b>	<b>(\$0)</b>	<b>(\$2,376,861)</b>	<b>\$1,816,225</b>	<b>(\$835,870)</b>	<b>\$2,035,093</b>	<b>(\$169,780)</b>	<b>(\$407,690)</b>	<b>(\$13,089)</b>	<b>(\$46,572)</b>	<b>(\$91,336)</b>	<b>(\$747)</b>	<b>\$90,628</b>
<b>RETURN ON EQUITY COMPONENT OF RATE BASE</b>	<b>9.71%</b>	<b>7.58%</b>	<b>21.29%</b>	<b>6.16%</b>	<b>19.85%</b>	<b>5.65%</b>	<b>1.47%</b>	<b>6.64%</b>	<b>-20.75%</b>	<b>-85.70%</b>	<b>-518.42%</b>	<b>0.00%</b>



# 2014 Cost Allocation Model

**EB-2014-0083**

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

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	2	3	4	5	6	7	8	9	10	11
	Residential	GS <50	GS>50-Regular	GS >50-Intermediate	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor	Distributed Generation Class	Energy from Waste Generation	Back-up/Standby Power
Customer Unit Cost per month - Avoided Cost	\$4.42	\$11.23	\$53.77	\$112.05	\$407.55	\$0.29	\$0.33	0	\$85.13	\$40.04	0
Customer Unit Cost per month - Directly Related	\$6.15	\$13.99	\$73.24	\$148.76	\$484.58	\$0.45	\$0.53	0	\$111.53	\$61.20	0
Customer Unit Cost per month - Minimum System with PLCC Adjustment	\$11.61	\$20.80	\$94.74	\$162.04	\$588.18	\$7.16	\$4.45	0	\$114.02	\$63.10	0
Existing Approved Fixed Charge	\$10.51	\$24.39	\$121.18	\$1,196.32	\$4,549.67	\$0.84	\$0.96	\$0.00	\$5.40	\$0.00	\$0.00



# 2014 Cost Allocation Model

## Sheet 02.1 Line Transformer Worksheet -

Line Transformers Demand Unit Cost for PLCC  
Adjustment to Customer Related Cost  
Allocation by rate classification

Description	Total	1	2	3	4	5	6	7	8	9
		Residential	GS <50	GS>50-Regular	GS >50-Intermediate	Large Use >5MW	Street Light	Unmetered Scattered Load	Embedded Distributor	Distributed Generation Class
Depreciation on Acct 1850 Line Transformers	\$1,653,683	\$893,023	\$229,592	\$450,874	\$79,554	\$0	\$0	\$275	\$0	\$365
Depreciation on General Plant Assigned to Line Transformers	\$224,523	\$124,255	\$33,250	\$56,925	\$10,017	\$0	\$0	\$37	\$0	\$38
Acct 5035 - Overhead Distribution Transformers- Operation	\$52,607	\$28,409	\$7,304	\$14,343	\$2,531	\$0	\$0	\$9	\$0	\$12
Acct 5055 - Underground Distribution Transformers - Operation	\$51,411	\$27,763	\$7,138	\$14,017	\$2,473	\$0	\$0	\$9	\$0	\$11
Acct 5160 - Maintenance of Line Transformers	\$151,629	\$81,883	\$21,052	\$41,341	\$7,294	\$0	\$0	\$25	\$0	\$33
Allocation of General Expenses	\$320,256	\$172,945	\$44,463	\$87,317	\$15,407	\$0	\$0	\$53	\$0	\$71
Admin and General Assigned to Line Transformers	\$133,529	\$72,083	\$18,541	\$36,420	\$6,433	\$0	\$0	\$22	\$0	\$29
PLs on Line Transformers	\$297,377	\$160,590	\$41,287	\$81,079	\$14,306	\$0	\$0	\$49	\$0	\$66
Debt Return on Line Transformers	\$1,933,386	\$1,044,069	\$268,424	\$527,135	\$93,010	\$0	\$0	\$321	\$0	\$427
Equity Return on Line Transformers	\$2,140,015	\$1,155,653	\$297,112	\$583,472	\$102,951	\$0	\$0	\$356	\$0	\$472
<b>Total</b>	<b>\$6,958,417</b>	<b>\$3,760,673</b>	<b>\$968,163</b>	<b>\$1,892,924</b>	<b>\$333,977</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,156</b>	<b>\$0</b>	<b>\$1,524</b>
Line Transformer NCP	2,407,554	1,300,129	334,256	656,416	115,821	0	0	400	0	531
PLCC Amount	277,661	225,567	14,067	2,218	39	0	33,164	2,499	0	108
Adjustment to Customer Related Cost for PLCC	<b>\$707,244</b>	<b>\$652,460</b>	<b>\$40,744</b>	<b>\$6,396</b>	<b>\$113</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,221</b>	<b>\$0</b>	<b>\$310</b>
General Plant - Gross Assets	\$42,565,634	\$24,759,421	\$4,505,718	\$6,720,891	\$3,645,869	\$1,495,769	\$1,296,294	\$99,143	\$20,758	\$21,738
General Plant - Accumulated Depreciation	(\$28,729,143)	(\$16,711,062)	(\$3,041,078)	(\$4,536,182)	(\$2,460,734)	(\$1,009,551)	(\$874,917)	(\$66,915)	(\$14,010)	(\$14,672)
General Plant - Net Fixed Assets	\$13,836,490	\$8,048,359	\$1,464,640	\$2,184,709	\$1,185,135	\$486,218	\$421,377	\$32,228	\$6,748	\$7,066
General Plant - Depreciation	\$1,648,879	\$959,114	\$174,539	\$260,349	\$141,231	\$57,942	\$50,215	\$3,841	\$804	\$842
<b>Total Net Fixed Assets Excluding General Plant</b>	<b>\$326,525,042</b>	<b>\$185,274,964</b>	<b>\$32,393,210</b>	<b>\$55,425,488</b>	<b>\$30,147,182</b>	<b>\$12,354,993</b>	<b>\$9,786,144</b>	<b>\$765,338</b>	<b>\$159,950</b>	<b>\$217,533</b>
Total Administration and General Expense	\$8,778,917	\$5,953,083	\$851,436	\$1,144,613	\$438,406	\$167,158	\$180,235	\$14,098	\$7,124	\$22,486
<b>Total O&amp;M</b>	<b>\$16,808,590</b>	<b>\$11,401,425</b>	<b>\$1,629,900</b>	<b>\$2,190,589</b>	<b>\$838,163</b>	<b>\$319,493</b>	<b>\$344,745</b>	<b>\$26,967</b>	<b>\$13,652</b>	<b>\$43,124</b>
<b>Line Transformer Rate Base</b>										
Acct 1850 - Line Transformers - Gross Assets	\$79,932,113	\$43,165,005	\$11,097,490	\$21,793,367	\$3,845,328	\$0	\$0	\$13,280	\$0	\$17,642
Line Transformers - Accumulated Depreciation	(\$35,484,204)	(\$19,162,209)	(\$4,926,501)	(\$9,674,713)	(\$1,707,054)	\$0	\$0	(\$5,896)	\$0	(\$7,832)
Line Transformers - Net Fixed Assets	\$44,447,908	\$24,002,796	\$6,170,990	\$12,118,653	\$2,138,274	\$0	\$0	\$7,385	\$0	\$9,810
General Plant Assigned to Line Transformers - NFA	\$1,884,071	\$1,042,683	\$279,018	\$477,682	\$84,059	\$0	\$0	\$311	\$0	\$319
Line Transformer Net Fixed Assets Including General Plant	\$46,331,980	\$25,045,479	\$6,450,007	\$12,596,335	\$2,222,333	\$0	\$0	\$7,696	\$0	\$10,129
<b>General Expenses</b>										
Acct 5005 - Operation Supervision and Engineering	\$155,202	\$76,502	\$17,948	\$34,664	\$18,604	\$7,427	\$0	\$32	\$0	\$24
Acct 5010 - Load Dispatching	\$1,469,214	\$724,200	\$169,906	\$328,144	\$176,117	\$70,312	\$0	\$307	\$0	\$228
Acct 5085 - Miscellaneous Distribution Expense	\$178,298	\$87,886	\$20,619	\$39,822	\$21,373	\$8,533	\$0	\$37	\$0	\$28
Acct 5105 - Maintenance Supervision and Engineering	\$70,445	\$34,724	\$8,147	\$15,734	\$8,444	\$3,371	\$0	\$15	\$0	\$11
<b>Total</b>	<b>\$1,873,159</b>	<b>\$923,311</b>	<b>\$216,620</b>	<b>\$418,364</b>	<b>\$224,539</b>	<b>\$89,644</b>	<b>\$0</b>	<b>\$392</b>	<b>\$0</b>	<b>\$291</b>
Acct 1850 - Line Transformers - Gross Assets	\$79,932,113	\$43,165,005	\$11,097,490	\$21,793,367	\$3,845,328	\$0	\$0	\$13,280	\$0	\$17,642
Acct 1815 - 1855	\$467,518,024	\$230,447,261	\$54,065,624	\$104,418,647	\$56,042,205	\$22,373,975	\$0	\$97,742	\$0	\$72,570





# 2014 Cost Allocation Model

EB-2014-0083

## Sheet 03.1 Line Transformers Unit Cost Worksheet -

### ALLOCATION BY RATE CLASSIFICATION

Description	Total	1 Residential	2 GS <50	3 GS>50-Regular	4 GS >50-Intermediate	5 Large Use >5MW	6 Street Light	7 Unmetered Scattered Load	8 Embedded Distributor	9 Distributed Generation Class	10 Energy from Waste Generation	11 Back-up/Standby Power
Depreciation on Acct 1850 Line Transformers	\$2,544,128	\$1,609,766	\$274,289	\$457,921	\$79,679	\$0	\$113,550	\$8,215	\$0	\$709	\$0	\$0
Depreciation on General Plant Assigned to Line Transformers	\$348,396	\$223,983	\$39,723	\$57,814	\$10,033	\$0	\$15,661	\$1,108	\$0	\$74	\$0	\$0
Acct 5035 - Overhead Distribution Transformers- Operation	\$80,934	\$51,210	\$8,726	\$14,568	\$2,535	\$0	\$3,612	\$261	\$0	\$23	\$0	\$0
Acct 5055 - Underground Distribution Transformers - Operation	\$79,094	\$50,046	\$8,527	\$14,236	\$2,477	\$0	\$3,530	\$255	\$0	\$22	\$0	\$0
Acct 5160 - Maintenance of Line Transformers	\$233,275	\$147,602	\$25,150	\$41,988	\$7,306	\$0	\$10,412	\$753	\$0	\$65	\$0	\$0
Allocation of General Expenses	\$475,444	\$298,403	\$51,860	\$88,388	\$15,411	\$0	\$19,808	\$1,442	\$0	\$131	\$0	\$0
Admin and General Assigned to Line Transformers	\$205,419	\$129,938	\$22,151	\$36,990	\$6,443	\$0	\$9,177	\$664	\$0	\$57	\$0	\$0
PIs on Line Transformers	\$457,502	\$289,479	\$49,324	\$82,347	\$14,328	\$0	\$20,419	\$1,477	\$0	\$127	\$0	\$0
Debt Return on Line Transformers	\$2,974,440	\$1,882,040	\$320,682	\$535,374	\$93,156	\$0	\$132,755	\$9,604	\$0	\$828	\$0	\$0
Equity Return on Line Transformers	\$3,292,331	\$2,083,182	\$354,954	\$592,591	\$103,112	\$0	\$146,943	\$10,630	\$0	\$917	\$0	\$0
<b>Total</b>	<b>\$10,690,965</b>	<b>\$6,765,651</b>	<b>\$1,155,387</b>	<b>\$1,922,217</b>	<b>\$334,481</b>	<b>\$0</b>	<b>\$475,868</b>	<b>\$34,410</b>	<b>\$0</b>	<b>\$2,953</b>	<b>\$0</b>	<b>\$0</b>
Billed kW without Line Transformer Allowance		0	0	2,738,459	382,818	719,987	100,672	0	40,073	0	0	54,580
Billed kWh without Line Transformer Allowance		1,308,264,983	354,298,350	1,064,497,599	806,154,180	382,619,513	33,306,955	5,931,733	17,012,414	178,816	0	0
Line Transformation Unit Cost (\$/kW)	\$0.0000	\$0.0000	\$0.0000	\$0.7019	\$0.8737	\$0.0000	\$4.7269	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Line Transformation Unit Cost (\$/kWh)	\$0.0052	\$0.0033	\$0.0018	\$0.0018	\$0.0004	\$0.0000	\$0.0143	\$0.0058	\$0.0000	\$0.0165	\$0.0000	\$0.0000
General Plant - Gross Assets	\$42,565,634	\$24,759,421	\$4,505,718	\$6,720,891	\$3,645,869	\$1,495,769	\$1,296,294	\$99,143	\$20,758	\$21,738	\$33	\$0
General Plant - Accumulated Depreciation	(\$28,729,143)	(\$16,711,062)	(\$3,041,078)	(\$4,536,182)	(\$2,460,734)	(\$1,009,551)	(\$874,917)	(\$66,915)	(\$14,010)	(\$14,672)	(\$23)	\$0
General Plant - Net Fixed Assets	\$13,836,490	\$8,048,359	\$1,464,640	\$2,184,709	\$1,185,135	\$486,218	\$421,377	\$32,228	\$6,748	\$7,066	\$11	\$0
General Plant - Depreciation	\$1,648,879	\$959,114	\$174,539	\$260,349	\$141,231	\$57,942	\$50,215	\$3,841	\$804	\$842	\$1	\$0
<b>Total Net Fixed Assets Excluding General Plant</b>	<b>\$326,525,042</b>	<b>\$185,274,964</b>	<b>\$32,393,210</b>	<b>\$55,425,488</b>	<b>\$30,147,182</b>	<b>\$12,354,993</b>	<b>\$9,786,144</b>	<b>\$765,338</b>	<b>\$159,950</b>	<b>\$217,533</b>	<b>\$239</b>	<b>\$0</b>
<b>Total Administration and General Expense</b>	<b>\$8,778,917</b>	<b>\$5,953,083</b>	<b>\$851,436</b>	<b>\$1,144,613</b>	<b>\$438,406</b>	<b>\$167,158</b>	<b>\$180,235</b>	<b>\$14,098</b>	<b>\$7,124</b>	<b>\$22,486</b>	<b>\$278</b>	<b>\$0</b>
<b>Total O&amp;M</b>	<b>\$16,808,590</b>	<b>\$11,401,425</b>	<b>\$1,629,900</b>	<b>\$2,190,589</b>	<b>\$838,163</b>	<b>\$319,493</b>	<b>\$344,745</b>	<b>\$26,967</b>	<b>\$13,652</b>	<b>\$43,124</b>	<b>\$533</b>	<b>\$0</b>
<b>Line Transformer Rate Base</b>												
Acct 1850 - Line Transformers - Gross Assets	\$122,972,481	\$77,809,338	\$13,257,964	\$22,133,995	\$3,851,364	\$0	\$5,488,513	\$397,058	\$0	\$34,250	\$0	\$0
Line Transformers - Accumulated Depreciation	(\$54,591,084)	(\$34,541,842)	(\$5,885,598)	(\$9,825,928)	(\$1,709,733)	\$0	(\$2,436,511)	(\$176,266)	\$0	(\$15,205)	\$0	\$0
Line Transformers - Net Fixed Assets	\$68,381,397	\$43,267,495	\$7,372,366	\$12,308,067	\$2,141,631	\$0	\$3,052,001	\$220,792	\$0	\$19,045	\$0	\$0
General Plant Assigned to Line Transformers - NFA	\$2,923,550	\$1,879,543	\$333,337	\$485,148	\$84,191	\$0	\$131,415	\$9,297	\$0	\$619	\$0	\$0
Line Transformer Net Fixed Assets Including General Plant	\$71,304,947	\$45,147,038	\$7,705,703	\$12,793,215	\$2,225,822	\$0	\$3,183,416	\$230,090	\$0	\$19,664	\$0	\$0
<b>General Expenses</b>												
Acct 5005 - Operation Supervision and Engineering	\$221,717	\$128,808	\$23,023	\$35,742	\$18,830	\$7,523	\$7,206	\$537	\$4	\$43	\$0	\$0
Acct 5010 - Load Dispatching	\$2,098,878	\$1,219,360	\$217,947	\$338,350	\$178,250	\$71,221	\$68,217	\$5,086	\$40	\$404	\$2	\$0
Acct 5085 - Miscellaneous Distribution Expense	\$254,711	\$147,977	\$26,449	\$41,061	\$21,632	\$8,643	\$8,279	\$617	\$5	\$49	\$0	\$0
Acct 5105 - Maintenance Supervision and Engineering	\$100,636	\$58,465	\$10,450	\$16,223	\$8,547	\$3,415	\$3,271	\$244	\$2	\$19	\$0	\$0
<b>Total</b>	<b>\$2,675,942</b>	<b>\$1,554,611</b>	<b>\$277,870</b>	<b>\$431,376</b>	<b>\$227,258</b>	<b>\$90,802</b>	<b>\$86,973</b>	<b>\$6,484</b>	<b>\$51</b>	<b>\$515</b>	<b>\$2</b>	<b>\$0</b>
Acct 1850 - Line Transformers - Gross Assets	\$122,972,481	\$77,809,338	\$13,257,964	\$22,133,995	\$3,851,364	\$0	\$5,488,513	\$397,058	\$0	\$34,250	\$0	\$0
Acct 1815 - 1855	\$689,953,366	\$405,368,105	\$71,036,890	\$108,024,004	\$56,795,508	\$22,695,006	\$24,098,556	\$1,785,794	\$14,116	\$134,792	\$593	\$0