

## Data Required for Cost Benchmarking

Oshawa PUC Networks Inc.

Select LDC from Dropdown Box:	Oshawa PUC Networks Inc.								
Required Item	History	Bridge Year	Test Year	Additional Years for Custom IR Filings					
	2018	2019	2020	2021	2022	2023	2024		
<b>Gross Capital Cost Additions Data</b>									
1 Total Gross Capital Additions	16,868,642	29,297,558	18,550,711	16,492,521	15,977,257	15,635,586	15,411,363	Enter Values	
2 HV Gross Capital Additions	-							Enter Values	
								* 2019 to 2024 - on a gross basis	
<b>Output and Other Business Conditions</b>									
3 Number of Customers	58,745	59,396	60,196	61,008	62,038	63,085	64,150	Enter Values	
4 Delivery Volume	1,092,720,775	1,048,371,769	1,078,000,817	1,075,667,737	1,065,343,563	1,063,576,870	1,065,456,991	Enter Values	
5 Annual Peak Demand	232,449	232,449	232,449	232,449	232,449	232,449	232,449	Enter Values	
6 Distribution Circuit-km	985	1,010	1,010	1,010	1,010	1,010	1,010	Enter Values	
7 Ten Year Customer Growth Percentage	13.38%	8.7%	11.0%	11.0%	11.0%	11.0%	11.0%	Enter Values	
								* Avg customer count. Not incl connections * Using non loss adj kwh for 2019-2024 * ten yr growth (2009 to 2019)	
<b>Inflation Measures</b>									
8 Wage Growth	2.88%	3.20%	4.00%	0.46%	2.01%	2.10%	2.10%	Enter values. The default values prov * per Labour Summary tab - master file, growth in employee costs	
9 Growth in Economy-wide Inflation	1.60%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	Enter values. The default values provided reflect recent historical growth.	
10 Rate of Return (WACC)	6.02%	6.02%	5.32%	5.32%	5.32%	5.32%	5.32%	* per OEB	
<b>OM&amp;A Expenses Included in Cost Benchmarking</b>									
Choose a Method:	<input type="checkbox"/> N	Use Method 1 [1A - 1B + 1C]						- Formula	
	<input checked="" type="checkbox"/> Y	Use Method 2 [2A - 2B + 2C]						13,100,434    12,606,416    13,272,922    13,449,826    13,794,925    14,075,341    14,361,537    Formula	
11 OM&A Values Transferred to Calculations Worksheet		13,100,434	12,606,416	13,272,922	13,449,826	13,794,925	14,075,341	14,361,537	Formula

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Oshawa PUC Networks Inc.

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Oshawa PUC Networks Inc.

## History

Bridge Year

Test Year

### Additonal Years for Custom IR Filings

## Required Item

2018

2019

2020

2021

2022

2023

2024

### **Method 1: Enter Values Calculated Elsewhere**

- 1A Total OM&A Consistent with accounts included in [2B]
  - 1B HV Cost (Accounts 5014, 5015, and 5112) if included
  - 1C LV Adjustment

### Enter Values Supported by Separate Calculations

						Enter Values
						Enter Values
						Enter Values

### **Method 2: Enter Detailed Data**

OM&A Data

# Data Required for Cost Benchmarking

## Oshawa PUC Networks Inc.

Select LDC from Dropdown Box:

Oshawa PUC Networks Inc.

History      Bridge Year      Test Year      Additional Years for Custom IR Filings

Required Item

		2018	2019	2020	2021	2022	2023	2024	
	Customer Premises - Operation								Enter Values
5075	Materials and Supplies	-	-	-	-	-	-	-	Enter Values
5085	Miscellaneous Distribution Expense	220,906	104,901	125,611	64,884	66,290	67,696	69,132	Enter Values
5090	Underground Distribution Lines and Feeders - Rental Paid	-	-	-	-	-	-	-	Enter Values
5095	Overhead Distribution Lines and Feeders - Rental Paid	-	-	-	-	-	-	-	Enter Values
5096	Other Rent (Distribution)	-	-	-	-	-	-	-	Enter Values
	<b>Subtotal: Operation</b>	<b>2,070,198</b>	<b>1,999,010</b>	<b>2,063,979</b>	<b>1,855,101</b>	<b>1,854,772</b>	<b>1,892,124</b>	<b>1,930,239</b>	Formula
	Maintenance Supervision and Engineering								Enter Values
5105	Maintenance of Buildings and Fixtures	201	(3,975)	143,140	128,766	131,347	134,117	136,946	Enter Values
5110	Maintenance of Transformer Station Equipment	300	6,135	8,344	8,510	8,689	8,872	9,058	Enter Values
5112	Maintenance of Distribution Station	-	-	-	-	-	-	-	Enter Values
5114	Equipment	203,155	222,637	230,167	234,742	239,422	244,407	249,495	Enter Values
5120	Maintenance of Poles, Towers and Fixtures	523,412	473,782	517,479	627,499	639,534	652,147	665,010	Enter Values
5125	Maintenance of Overhead Conductors and Devices	-	-	-	-	-	-	-	Enter Values
5130	Maintenance of Overhead Services	-	-	-	-	-	-	-	Enter Values
5135	Overhead Distribution Lines and Feeders - Right of Way	-	-	-	-	-	-	-	Enter Values
5145	Maintenance of Underground Conduit	210,261	263,546	252,703	183,654	263,288	268,926	274,679	Enter Values
5150	Maintenance of Underground Conductors and Devices	-	-	-	-	-	-	-	Enter Values
5155	Maintenance of Underground Services	146,815	53,728	54,803	55,899	57,017	58,214	59,436	Enter Values
5160	Maintenance of Line Transformers	-	-	-	-	-	-	-	Enter Values
5175	Maintenance of Meters	-	-	-	-	-	-	-	Enter Values
	<b>Subtotal: Maintenance</b>	<b>1,084,144</b>	<b>1,015,853</b>	<b>1,206,635</b>	<b>1,239,070</b>	<b>1,339,297</b>	<b>1,366,683</b>	<b>1,394,624</b>	Formula
	Supervision (Billing and Collection)	158,648	146,720	141,910	145,880	148,818	151,947	155,141	Enter Values
5305	Meter Reading Expense	419,044	442,134	460,294	469,314	432,164	440,959	449,933	Enter Values
5310	Customer Billing	1,169,598	1,138,471	1,205,196	1,228,072	1,251,895	1,276,279	1,301,141	Enter Values
5315	Collecting	289,135	197,628	269,098	274,283	279,651	285,221	290,903	Enter Values
5320	Collecting - Cash Over and Short	-	-	-	-	-	-	-	Enter Values
5325	Collection Charges	-	-	-	-	-	-	-	Enter Values
5330	Miscellaneous Customer Account Expenses	-	-	-	-	-	-	-	Enter Values
	<b>Subtotal : Billing and Collections</b>	<b>2,036,425</b>	<b>1,924,952</b>	<b>2,076,498</b>	<b>2,117,550</b>	<b>2,112,528</b>	<b>2,154,406</b>	<b>2,197,118</b>	Formula
5405	Supervision (Community Relations)	148,378	142,424	157,586	160,738	163,973	167,420	170,939	Enter Values

# Data Required for Cost Benchmarking

Oshawa PUC Networks Inc.

Select LDC from Dropdown Box:

Oshawa PUC Networks Inc.

History      Bridge Year      Test Year      Additional Years for Custom IR Filings

Required Item

		2018	2019	2020	2021	2022	2023	2024	
5410	Community Relations - Sundry	154,980	174,481	197,191	190,417	194,214	198,179	202,226	Enter Values
5420	Community Safety Program	171,172	144,462	148,924	189,161	193,061	197,119	201,261	Enter Values
5425	Miscellaneous Customer Service and Info	752,512	695,167	869,887	887,263	905,101	924,100	943,497	Enter Values
	<b>Subtotal: Community Relations</b>	<b>1,227,042</b>	<b>1,156,534</b>	<b>1,373,588</b>	<b>1,427,580</b>	<b>1,456,349</b>	<b>1,486,817</b>	<b>1,517,923</b>	Formula
5605	Executive Salaries and Expenses	910,839	987,825	955,093	896,531	914,907	934,120	953,736	Enter Values
5610	Management Salaries and Expenses	1,068,904	1,031,547	1,006,075	1,027,496	1,048,240	1,070,284	1,092,792	Enter Values
5615	General Administrative Salaries and Expe	1,200,559	971,258	1,077,983	1,046,099	1,151,579	1,175,206	1,199,325	Enter Values
5620	Office Supplies	426,046	369,730	602,330	614,377	627,255	640,427	653,876	Enter Values
5625	Administrative Expense Transferred - Cre	(178,304)	(198,299)	(179,384)	(182,972)	(186,631)	(190,550)	(194,552)	Enter Values
5630	Outside Services Employed	216,801	279,563	259,602	264,795	270,355	276,033	281,829	Enter Values
5640	Injuries and Damages	211,855	201,481	209,501	213,691	218,178	222,760	227,438	Enter Values
5645	OMERS Pensions and Benefits	948,365	922,515	981,032	998,898	1,019,779	1,041,205	1,063,080	Enter Values
5646	Employee Pensions and OPEB	-	-	-	-	-	-	-	Enter Values
5647	Employee Sick Leave	-	-	-	-	-	-	-	Enter Values
5650	Franchise Requirements	-	-	-	-	-	-	-	Enter Values
5655	Regulatory Expenses	412,027	403,300	152,558	415,032	420,859	426,809	432,883	Enter Values
5665	Miscellaneous General Expenses	164,801	169,161	161,262	164,487	167,942	171,468	175,069	Enter Values
5670	Rent (Administrative and General)	322,770	329,633	335,259	341,964	349,145	356,477	363,963	Enter Values
5672	Lease Payment Expense	-	-	-	-	-	-	-	Enter Values
5675	Maintenance of General Plant	880,539	941,314	891,535	908,764	926,877	945,406	964,308	Enter Values
5680	Electrical Safety Authority Fees	-	-	-	-	-	-	-	Enter Values
	<b>Subtotal: A&amp;G Expenses</b>	<b>6,585,202</b>	<b>6,409,028</b>	<b>6,452,846</b>	<b>6,709,161</b>	<b>6,928,485</b>	<b>7,069,645</b>	<b>7,213,748</b>	Formula
5635	Property Insurance	97,423	101,037	99,377	101,364	103,493	105,666	107,885	Enter Values
6210	Life Insurance	-	-	-	-	-	-	-	Enter Values
	<b>Subtotal: Insurance</b>	<b>97,423</b>	<b>101,037</b>	<b>99,377</b>	<b>101,364</b>	<b>103,493</b>	<b>105,666</b>	<b>107,885</b>	Formula
5515	Advertising	-	-	-	-	-	-	-	Enter Values
	<b>Subtotal Advertising</b>	<b>-</b>	Formula						
	<b>2A Total of Above Accounts Used for Bench</b>	<b>13,100,434</b>	<b>12,606,416</b>	<b>13,272,922</b>	<b>13,449,826</b>	<b>13,794,925</b>	<b>14,075,341</b>	<b>14,361,537</b>	Formula

## Adjustments to OM&A for Benchmarking

5014	-	-	-	-	-	-	-	-	Formula
5015	-	-	-	-	-	-	-	-	Formula
5112	-	-	-	-	-	-	-	-	Formula
<b>2B Subtotal: HV Adjustment (to subtract fr</b>	<b>-</b>	<b>Formula</b>							
<b>2C LV Adjustment</b>	<b>-</b>	<b>Enter Values</b>							

Total per above	13,100,434	12,606,416	13,272,922	13,449,826	13,794,925	14,075,341	14,361,537
Total per OEB TB	13,100,434	12,606,416	13,272,922	13,449,826	13,794,925	14,075,341	14,361,537
	(0)	-	-	-	-	-	-

## Benchmarking Calculations for LDC Forecasting

Selected LDC:

Oshawa PUC Networks Inc.

Line Reference Number	Row #	Account	Forecasted Values						
			2018	2019	2020	2021	2022	2023	2024
Section 1: Source Data and OM&A Calculations									
1	OM&A Data (Detail may be hidden or expanded using the +/- buttons to the left of the row numbers)								
2	5005	2 Operation Supervision and Engineering	781,514						
3	5010	3 Load Dispatching	-						
4	5012	4 Station Buildings and Fixtures	33,994						
5	5014	5 Transformer Station Equipment - Operation Labor	-						
6	5015	6 Transformer Station Equipment - Operation Supplies and Expenses	-						
7	5016	7 Distribution Station Equipment - Operation Labor	-						
8	5017	8 Distribution Station Equipment - Operation Supplies and Expenses	-						
9	5020	9 Overhead Distribution Lines and Feeders - Operation Labor	767,029						
10	5025	10 Overhead Distribution Lines and Feeders - Operation Supplies and Expenses	(254,796)						
11	5035	11 Overhead Distribution Transformers - Operation	-						
12	5040	12 Underground Distribution Lines and Feeders - Operation Labor	27,126						
13	5045	13 Underground Distribution Lines and Feeders - Operation Supplies and Expenses	17,012						
14	5055	14 Overhead Distribution Lines and Feeders	-						
15	5065	15 Meter Expense	477,413						
16	5070	16 Customer Premises - Operation Labor	-						
17	5075	17 Customer Premises - Operation Materials and Supplies	-						
18	5085	18 Miscellaneous Distribution Expense	220,906						
19	5090	19 Underground Distribution Lines and Feeders - Rental Paid	-						
20	5095	20 Overhead Distribution Lines and Feeders - Rental Paid	-						
21	5096	21 Other Rent (Distribution)	-						
22	<b>Subtotal: Operation</b>		2,070,198						
23	5105	22 Maintenance Supervision and Engineering	201						
24	5110	23 Maintenance of Buildings and Fixtures	300						
25	5112	24 Maintenance of Transformer Station Equipment	-						
26	5114	25 Maintenance of Distribution Station Equipment	203,155						
27	5120	26 Maintenance of Poles, Towers and Fixtures	523,412						
28	5125	27 Maintenance of Overhead Conductors and Devices	-						
29	5130	28 Maintenance of Overhead Services	-						
30	5135	29 Overhead Distribution Lines and Feeders - Right of Way	-						
31	5145	30 Maintenance of Underground Conduit	210,261						
32	5150	31 Maintenance of Underground Conductors and Devices	-						
33	5155	32 Maintenance of Underground Services	146,815						
34	5160	33 Maintenance of Line Transformers	-						
35	5175	34 Maintenance of Meters	-						
36	<b>Subtotal: Maintenance</b>		1,084,144						
37	5305	35 Supervision (Billing and Collection)	158,648						
38	5310	36 Meter Reading Expense	419,044						
39	5315	37 Customer Billing	1,169,598						
40	5320	38 Collecting	289,135						
41	5325	39 Collecting - Cash Over and Short	-						
42	5330	40 Collection Charges	-						
43	5340	41 Miscellaneous Customer Account Expenses	-						
44	<b>Subtotal : Billing and Collections</b>		2,036,425						
45	5405	42 Supervision (Community Relations)	148,378						
46	5410	43 Community Relations - Sundry	154,980						
47	5420	44 Community Safety Program	171,172						
48	5425	45 Miscellaneous Customer Service and Informational Expenses	752,512						
49	<b>Subtotal: Community Relations</b>		1,227,042						
50	5605	47 Executive Salaries and Expenses	910,839						
51	5610	48 Management Salaries and Expenses	1,068,904						
52	5615	49 General Administrative Salaries and Expenses	1,200,559						
53	5620	50 Office Supplies	426,046						
54	5625	51 Administrative Expense Transferred - Credit	(178,304)						
55	5630	52 Outside Services Employed	216,801						
56	5640	53 Injuries and Damages	211,855						
57	5645	54 OMERS Pensions and Benefits	948,365						
58	5646	55 Employee Pensions and OPEB	-						
59	5647	56 Employee Sick Leave	-						
60	5650	57 Franchise Requirements	-						
61	5655	58 Regulatory Expenses	412,027						
62	5665	59 Miscellaneous General Expenses	164,801						
63	5670	60 Rent (Administrative and General)	322,770						
64	5672	61 Lease Payment Expense	-						
65	5675	62 Maintenance of General Plant	880,539						
66	5680	63 Electrical Safety Authority Fees	-						
67	<b>Subtotal: A&amp;G Expenses</b>		6,585,202						
68	5635	64 Property Insurance	97,423						
69	6210	65 Life Insurance	-						
70	<b>Subtotal: Insurance</b>		97,423						
71	5515	46 Advertising	-						
72	<b>Subtotal Advertising</b>		-						
73	<b>Total of Above Accounts Used for Benchmarking</b>		13,100,434						
74									
75	<b>Adjustments to OM&amp;A for Benchmarking</b>								
76	5014	-							
77	5015	-							
78	5112	-							
79	Subtotal: HV Adjustment (to subtract from cost)		-						
80	LV Adjustment		-						
81	Total Adjusted OM&A Expense		13,100,434	12,606,416	13,272,922	13,449,826	13,794,925	14,075,341	14,361,537
82									
83	<b>Gross Capital Cost Additions Data</b>								
84	Total Gross Capital Additions		16,868,642	29,297,558	18,550,711	16,492,521	15,977,257	15,635,586	15,411,363
85	HV Gross Capital Additions		-	-	-	-	-	-	-
86									
87	<b>Output and Other Business Conditions</b>								
88	Number of Customers		58,745	59,396	60,196	61,008	62,038	63,085	64,150
89	Delivery Volume		#####	#####	#####	#####	#####	#####	#####
90	Annual Peak Demand		232,449	232,449	232,449	232,449	232,449	232,449	232,449
91	Distribution Circuit km		985	1,010	1,010	1,010	1,010	1,010	1,010
92									
93									

Section 2: Actual Cost Calculations

Benchmarking Calculations for LDC Forecasting

Selected LDC:	Oshawa PUC Networks Inc.									
Line Reference Number	Row I	Account	Forecasted Values	2018	2019	2020	2021	2022	2023	2024

## Section 1: Source Data and OM&A Calculations

94	<b><u>Actual Cost</u></b>													
95														
96	OM&A				#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
97														
98	Capital													
99	Rate of Return				6.02%	6.02%	5.32%	5.32%	5.32%	5.32%	5.32%	5.32%	5.32%	5.32%
100	Depreciation Rate				4.59%	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%	4.59%
101	Construction Cost Index				170.06	173.50	177.00	180.58	184.22	187.95	191.74			
102	Capital Price				17.88	18.20	17.35	17.70	18.06	18.43	18.80			
103	Gross Plant Additions				16,868,642	29,297,558	18,550,711	16,492,521	15,977,257	15,635,586	15,411,363			
104	HV Capital Additions				-	-	-	-	-	-	-			
105	Quantity of Capital Additions				99,192	168,867	104,806	91,333	86,728	83,192	80,376			
106	Quantity of Capital Removed				49,855	52,120	57,479	59,651	61,105	62,281	63,241			
107	Capital Quantity				1,135,511	1,252,258	1,299,586	1,331,268	1,356,890	1,377,801	1,394,936			
108	Capital Cost				20,306,089	22,794,935	22,553,326	23,569,859	24,508,805	25,389,252	26,224,271			
109														
110	Total Actual Cost				33,406,523	35,401,351	35,826,249	37,019,685	38,303,730	39,464,593	40,585,809			

### Section 3: Predicted Cost Calculations

(Details of the predicted cost calculations may be hidden by using the +/- button to the left of row 248)

#### **135 Company Values for Variables Used in the Prediction Equation**

136									
137	Constant		1.00	1.00	1.00	1.00	1.00	1.00	1.00
138	Capital Price / OM&A Price (WK)		0.1204	0.1191	0.1097	0.1109	0.1109	0.1108	0.1108
139	Customers (Y1)		58,745	59,396	60,196	61,008	62,038	63,085	64,150
140	Capacity (Y2)		234,849	234,849	234,849	234,849	234,849	234,849	234,849
141	Deliveries (Y3)		#	#	#	#	#	#	#
142	Average Line Length		1,131.6	1,123.5	1,116.4	1,110.2	1,104.6	1,099.4	1,094.4
143	Customers Added in last 10 years		13.38%	8.69%	11.00%	11.00%	11.00%	11.00%	11.00%
144	Trend		12	13	14	15	16	17	18

#### **147 Company-Specific Parameter Estimates\***

## 166 167 Sample Mean Values

167	Sample Mean Values							
168								
169	Constant		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
170	Capital Price / OM&A Price (WK)		0.1644	0.1644	0.1644	0.1644	0.1644	0.1644
171	Customers (Y1)	#####	#####	#####	#####	#####	#####	63,422.3118
172	Capacity (Y2)	#####	#####	#####	#####	#####	#####	
173	Deliveries (Y3)	#####	#####	#####	#####	#####	#####	
174	W WKW		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
175	Y1Y1		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
176	Y2Y2		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
177	Y3Y3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
178	WKY1		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
179	WKY2		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
180	WKY3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
181	Y1Y2		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
182	Y1Y3		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Benchmarking Calculations for LDC Forecasting

### Selected LDC:

Oshawa PUC Networks Inc

Line Reference Number	Row #	Account	Forecasted Values						
			2018	2019	2020	2021	2022	2023	2024
Section 1: Source Data and OM&A Calculations									
183		Y2Y3	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
184		Average Line Length	2,723	2,723	2,723	2,723	2,723	2,723	2,723
185		Customers Added in last 10 years	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286
186									
187									
188									
189		2013 Values Logged and Mean Scaled (where applicable)							
190									
191		Constant	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
192		Capital Price / OM&A Price (WK)	(0.3118)	(0.3225)	(0.4043)	(0.3935)	(0.3935)	(0.3942)	(0.3949)
193		Customers (Y1)	(0.0766)	(0.0656)	(0.0522)	(0.0388)	(0.0221)	(0.0053)	0.0114
194		Capacity (Y2)	(0.3850)	(0.3850)	(0.3850)	(0.3850)	(0.3850)	(0.3850)	(0.3850)
195		Deliveries (Y3)	(0.4001)	(0.4415)	(0.4137)	(0.4158)	(0.4255)	(0.4271)	(0.4254)
196		WKKWK	0.0486	0.0520	0.0817	0.0774	0.0774	0.0777	0.0780
197		Y1Y1	0.0029	0.0022	0.0014	0.0008	0.0002	0.0000	0.0001
198		Y2Y2	0.0741	0.0741	0.0741	0.0741	0.0741	0.0741	0.0741
199		Y3Y3	0.0800	0.0975	0.0856	0.0865	0.0905	0.0912	0.0905
200		WKY1	0.0239	0.0212	0.0211	0.0153	0.0087	0.0021	(0.0045)
201		WKY2	0.1200	0.1241	0.1556	0.1515	0.1515	0.1518	0.1520
202		WKY3	0.1248	0.1424	0.1672	0.1636	0.1674	0.1684	0.1680
203		Y1Y2	0.0295	0.0253	0.0201	0.0149	0.0085	0.0021	(0.0044)
204		Y1Y3	0.0307	0.0290	0.0216	0.0161	0.0094	0.0023	(0.0049)
205		Y2Y3	0.1540	0.1700	0.1593	0.1601	0.1638	0.1644	0.1638
206		Average Line Length	(0.8780)	(0.8852)	(0.8915)	(0.8971)	(0.9021)	(0.9069)	(0.9114)
207		Customers Added in last 10 years	104.03%	67.60%	85.54%	85.54%	85.54%	85.54%	85.54%
208		Trend	12.0000	13.0000	14.0000	15.0000	16.0000	17.0000	18.0000
209									
210		Product of Parameter and 2013 Values							
211									
212		Constant	12.819	12.819	12.819	12.819	12.819	12.819	12.819
213		Capital Price / OM&A Price (WK)	(0.195)	(0.202)	(0.253)	(0.247)	(0.247)	(0.247)	(0.248)
214		Customers (Y1)	(0.035)	(0.030)	(0.024)	(0.018)	(0.010)	(0.002)	0.005
215		Capacity (Y2)	(0.058)	(0.058)	(0.058)	(0.058)	(0.058)	(0.058)	(0.058)
216		Deliveries (Y3)	(0.042)	(0.046)	(0.043)	(0.044)	(0.045)	(0.045)	(0.045)
217		WKKWK	0.006	0.007	0.010	0.010	0.010	0.010	0.010
218		Y1Y1	(0.001)	(0.001)	(0.001)	(0.000)	(0.000)	(0.000)	(0.000)
219		Y2Y2	0.014	0.014	0.014	0.014	0.014	0.014	0.014
220		Y3Y3	0.013	0.015	0.013	0.014	0.014	0.014	0.014
221		WKY1	0.001	0.001	0.001	0.001	0.000	0.000	(0.000)
222		WKY2	0.001	0.001	0.002	0.002	0.002	0.002	0.002
223		WKY3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
224		Y1Y2	0.005	0.004	0.003	0.002	0.001	0.000	(0.001)
225		Y1Y3	0.003	0.002	0.002	0.001	0.001	0.000	(0.000)
226		Y2Y3	(0.032)	(0.036)	(0.033)	(0.033)	(0.034)	(0.034)	(0.034)
227		Average Line Length	(0.250)	(0.252)	(0.254)	(0.255)	(0.257)	(0.258)	(0.259)
228		Customers Added in last 10 years	0.017	0.011	0.014	0.014	0.014	0.014	0.014
229		Trend	0.203	0.220	0.237	0.254	0.271	0.288	0.305
230									
231		Log of Predicted Total Cost / OM&A Price	12.4676	12.4700	12.4491	12.4751	12.4954	12.5162	12.5374
232		Real Predicted Total Cost / OM&A Price	259,788	260,398	255,012	261,750	267,109	272,724	278,557
233		OM&A Price	148.58	152.86	158.15	159.61	162.85	166.25	169.73
234		Predicted Total Cost	38,599,429	39,804,646	40,330,356	41,778,604	43,498,581	45,340,796	47,278,099
235									
236									
Section 4: Benchmarking Results									
237		Actual Cost	33,406,523	35,401,351	35,826,249	37,019,685	38,303,730	39,464,593	40,585,809
238		Predicted Cost	38,599,429	39,804,646	40,330,356	41,778,604	43,498,581	45,340,796	47,278,099
239		Actual less Predicted Cost	(5,192,906)	(4,403,295)	(4,504,108)	(4,758,919)	(5,194,851)	(5,876,203)	(6,692,290)
240		Percentage Difference (Arithmetic for Comparison)	-13.45%	-11.06%	-11.17%	-11.39%	-11.94%	-12.96%	-14.16%
241		Percent Difference (Logarithmic)	-14.45%	-11.72%	-11.84%	-12.09%	-12.72%	-13.88%	-15.26%

# Summary of Cost Benchmarking Results

Oshawa PUC Networks Inc.

	2018 (History)	2019 (History)	2020 (Bridge)	2021 (Test Year)	2022	2023	2024
<b>Cost Benchmarking Summary</b>							
Actual Total Cost	33,406,523	35,401,351	35,826,249	37,019,685	38,303,730	39,464,593	40,585,809
Predicted Total Cost	38,599,429	39,804,646	40,330,356	41,778,604	43,498,581	45,340,796	47,278,099
Difference	(5,192,906)	(4,403,295)	(4,504,108)	(4,758,919)	(5,194,851)	(5,876,203)	(6,692,290)
<b>Percentage Difference (Cost Performance)</b>	<b>-14.4%</b>	<b>-11.7%</b>	<b>-11.8%</b>	<b>-12.09%</b>	<b>-12.72%</b>	<b>-13.88%</b>	<b>-15.26%</b>
Three-Year Average Performance				-12.7%	-11.89%	-12.22%	-12.90%
Stretch Factor Cohort							
Annual Result	2	2	2	2	2	2	2
Three Year Average			2	2	2	2	2

Group 1	25% or more below predicted cost
Group 2	between 10% and 25%
Group 3	actual costs are within +/-10% of predicted costs
Group 4	between 10% and 25% above predicted cost
Group 5	in excess of 25% above predicted cost

Per Dec 2015 OEB Decision & Updated Decision for 2018/2019				
2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast
6,850,698	4,434,309	2,534,076	17,196,841	4,445,632
1,711	1,711	1,711	1,711	1,711
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
8,635,096	8,635,096	8,635,096	8,635,096	8,635,096
0	0	0	0	0
991,738	991,738	991,738	991,738	991,738
163,455	163,455	163,455	163,455	163,455
(2,967)	(2,967)	(2,967)	(2,967)	(2,967)
12,312,956	12,312,956	12,312,956	12,312,956	12,312,956
(430,371)	(430,371)	(430,371)	(430,371)	(430,371)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
611,775	611,775	611,775	611,775	611,775
832	832	832	832	832
(4,973,393)	(4,973,393)	(4,973,393)	(4,973,393)	(4,973,393)
0	0	0	0	0
0	0	0	0	0
295,597	295,597	295,597	295,597	295,597
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
436,976	436,976	436,976	436,976	436,976
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
320,624	320,624	320,624	320,624	320,624
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
(1,224)	(1,224)	(1,224)	(1,224)	(1,224)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
11,508	11,508	11,508	11,508	11,508
532,552	532,552	532,552	532,552	532,552
(0)	(0)	(0)	(0)	(0)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
6	6	6	6	6
(3,229,367)	(3,229,367)	(3,229,367)	(3,229,367)	(3,229,367)
(1)	(1)	(1)	(1)	(1)
6,986,528	6,986,528	6,986,528	6,986,528	6,986,528

Per Dec 2015 OEB Decision & Updated Decision for 2018/2019				
2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast
(3,213,271)	(3,213,271)	(3,213,271)	(3,213,271)	(3,213,271)
1,589,555	1,589,555	1,589,555	1,589,555	1,589,555
2,050,318	2,050,318	2,050,318	2,050,318	2,050,318
0	0	0	0	0
655,834	655,834	655,834	655,834	655,834
2,373,767	2,818,793	2,953,828	3,195,250	3,388,671
0	0	0	0	0
135,152	135,152	135,152	293,875	293,875
757,060	757,060	757,060	2,507,060	2,507,060
0	0	0	0	0
0	0	0	0	0
21,270,629	22,845,800	23,226,598	26,655,387	31,109,576
0	0	0	0	0
42,138,099	44,136,953	48,696,860	51,035,813	53,278,188
22,706,790	23,871,237	24,285,216	26,433,656	33,188,221
0	0	0	0	0
45,399,656	47,512,818	47,204,142	51,991,735	59,464,550
55,324,047	55,640,871	56,316,134	56,674,650	57,025,748
0	0	0	0	0
11,513,158	12,035,764	12,711,102	13,235,607	13,760,001
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1,182,761	1,272,761	1,317,761	1,362,761	1,407,761
750,438	760,438	765,438	770,438	775,438
2,866,964	3,039,369	3,136,524	3,396,572	3,494,621
0	0	0	0	0
4,608,041	5,023,041	5,463,041	5,653,041	5,823,041
24,516	24,516	24,516	24,516	24,516
2,537,637	2,668,094	2,832,719	2,972,451	3,109,900
518,851	577,522	645,990	778,174	910,219
0	0	0	0	0
418,132	418,132	418,132	450,082	482,032
162,391	162,391	162,391	162,391	162,391
107,035	107,035	107,035	107,035	107,035
1,021,693	1,021,693	1,021,693	1,021,693	1,021,693
293,582	293,582	293,582	293,582	293,582
(39,453,546)	(40,908,546)	(41,983,546)	(43,078,546)	(44,183,546)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
4,099,394	4,099,394	9,499,394	2,590,671	2,590,671
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
(86,795,565)	(89,585,012)	(93,141,802)	(96,409,743)	(100,217,655)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
(15,080,004)	(15,080,004)	(15,080,004)	(15,080,004)	(15,080,004)
(1,941,712)	(1,941,712)	(1,941,712)	(1,941,712)	(1,941,712)
(1,922,625)	(1,922,625)	(1,922,625)	(1,922,625)	(1,922,625)
0	0	0	0	0
(1,203,503)	(1,203,503)	(1,203,503)	(1,203,503)	(1,203,503)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
(620,096)	(620,096)	(620,096)	(620,096)	(620,096)
0	0	0	0	0
0	0	0	0	0

Check Balance (should be Zero)													Per Dec 2015 OEB Decision & Updated Decision for 2018/2019								
OEB Trial Balance		2015											2015								
USA	OEB Account Name	#REF!	#REF!	#REF!	#REF!	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2015	2016	2017	2018	2019
2256	Independent Market Operator Fees and Penalties Payable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2260	Current Portion of Long Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2264	OMERS - Current Portion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(77,245)	(77,245)	(77,245)	(77,245)
2265	Non-OMERS - Current Portion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2268	Accrued Interest on Long Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2270	Matured Long Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2272	Matured Interest on Long Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2285	Obligations Under Capital Leases-Current	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2290	Commodity Taxes	(287,905)	(98,421)	29,679	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(70,363)	(140,300)	(140,300)	(140,300)	(140,300)	
2292	Payroll Deductions / Expenses Payable	(125,522)	(116,870)	(4,664)	(134,131)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(138,600)	(104,856)	(104,856)	(104,856)	(104,856)	
2294	Accrual for Taxes, "Payments in Lieu" of Taxes, Etc.	177,448	86,992	(381,574)	151,548	151,548	151,548	151,548	151,548	151,548	151,548	151,548	151,548	151,548	151,548	151,548	322,636	322,636	322,636	322,636	
<b>Non-Current Liabilities</b>																					
2305	Accumulated Provision for Injuries and Damages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2306	OPEB Liability (Employee Future Benefits)	(11,779,208)	(13,255,706)	(13,861,823)	(12,927,639)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(13,120,829)	(12,064,911)	(12,252,352)	(12,465,124)	(12,669,742)	(12,875,978)
2308	Other Pensions - Past Service Liability	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2310	Vested Sick Leave Liability	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2312	Past Service Costs - Other Post Employment Benefits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2313	Past Service Costs - Other Pension Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2315	Accumulated Provision for Rate Refunds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2320	Other Miscellaneous Non-Current Liabilities	(2,016,755)	(2,016,072)	(2,016,072)	(2,016,072)	0	0	0	0	0	0	0	0	0	0	0	(2,016,755)	(2,016,755)	(2,016,755)	(2,016,755)	
2325	Obligations Under Capital Lease-Non-Current	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(2,098,164)	(2,098,164)	(2,098,164)	(2,098,164)	
2335	Long Term Customer Deposits	(2,439,233)	(2,491,036)	(3,081,743)	(2,483,001)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,876,381)	(2,098,164)	(2,098,164)	(2,098,164)	(2,098,164)	
2340	Collateral Funds Liability	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2345	Unamortized Premium on Long Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2348	O.M.E.R.S. - Past Service Liability - Long Term Portion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2350	Deferred / Future Income Tax - Non-Current	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Other Liabilities and Deferred Credits</b>																					
2405	Other Regulatory Liabilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2410	Gains From Disposition of Utility Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2415	Unamortized Gain on Reacquired Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2425	Other Deferred Credits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2435	Accrued Rate-Payer Benefit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2440	Deferred Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Long Term Debt</b>																					
2505	Debentures Outstanding - Long Term Portion	(23,064,000)	(23,064,000)	(23,064,000)	(60,064,000)	(60,064,000)	(70,064,000)	(75,064,000)	(82,464,000)	(95,964,000)	(102,464,000)	(109,964,000)	(109,964,000)	(109,964,000)	(109,964,000)	(109,964,000)	(23,064,000)	(23,064,000)	(23,064,000)	(23,064,000)	(23,064,000)
2510	Debenture Advances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2515	Required Bonds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2520	Other Long Term Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2525	Term Bank Loans - Long Term Portion	(22,000,000)	(22,000,000)	(22,000,000)	0	0	0	0	0	0	0	0	0	0	0	0	(22,000,000)	(22,000,000)	(25,730,946)	(43,661,224)	(45,814,506)
2550	Advances from Associated Companies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Shareholders' Equity</b>																					
3005	Common Shares Issued	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	(23,063,665)	
3008	Preference Shares Issued	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3010	Contributed Surplus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3020	Donations Received	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3022	Development Charges Transferred to Equity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3026	Capital Stock Held in Treasury	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3030	Miscellaneous Paid-In Capital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3035	Installments Received on Capital Stock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3040	Appropriated Retained Earnings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3045	Unappropriated Retained Earnings	(17,278,416)	(20,576,388)	(21,562,503)	(23,620,843)	(26,489,684)	(23,989,684)	(26,316,446)	(29,490,399)	(26,990,399)	(29,162,563)	(30,858,911)	(30,858,911)	(30,858,911)	(30,858,911)	(30,858,911)	(17,278,416)	(19,482,650)	(21,646,998)	(23,923,148)	(25,720,206)
3046	Balance Transferred From Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3047	Appropriations of Retained Earnings - Current Period	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3048	Dividends Payable-Preference Shares	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3049	Dividends Payable-Common Shares	1,800,000	3,700,000	2,300,000	2,300,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	1,700,000	1,700,000	1,700,000	1,700,000	
3055																					

## Check Balance (should be Zero)

OEB Trial Balance		Forecast										Per Dec 2015 OEB Decision & Updated Decision for 2018/2019										
USA	OEB Account Name	#REF!	#REF!	#REF!	#REF!	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Bridge Year	2021 Test Year	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast	
4064	Billed One-Time	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
4066	Billed NW	(6,745,011)	(7,300,931)	(6,559,575)	(6,538,997)	(6,630,533)	(6,763,144)	(6,898,407)	(7,494,612)	(7,503,378)	(7,539,220)	(7,567,678)	(7,234,162)	(7,265,789)	(7,281,338)	(7,759,984)	(7,787,711)	(6,127,671)	(6,146,250)	(6,158,426)	(7,443,954)	(7,470,821)
4068	Billed CN	(6,276,214)	(7,071,500)	(6,231,958)	(7,297,179)	(7,103,958)	(7,246,037)	(7,390,958)	(7,192,082)	(7,201,253)	(7,236,710)	(7,265,095)	(526,925)	(542,733)	(559,013)	(547,166)	(557,567)	0	0	0	0	0
4075	LV Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4076	Billed SME Charge	(464,727)	(472,651)	(469,887)	(280,605)	(350,615)	(357,627)	(364,780)	(559,013)	(592,728)	(602,767)	(612,977)	(20,975,186)	(22,438,785)	(23,078,999)	(24,117,195)	(25,392,522)	(1,326)	(1,327)	(1,328)	(1,330)	(1,331)
Revenues From Services - Distribution		(19,311,597)	(22,361,027)	(22,542,680)	(24,111,980)	(25,169,935)	(25,716,790)	(27,274,360)	(27,885,043)	(28,539,870)	(29,235,670)	(29,937,080)	(155,052)	(158,735)	(163,581)	(168,678)	(173,482)	(20,975,186)	(22,438,785)	(23,078,999)	(24,117,195)	(25,392,522)
4082	Retail Services Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4084	Service Transaction Requests (STR) Revenues	(992)	(770)	(365)	(257)	(494)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4086	SSS Administration Revenue	(156,089)	(161,806)	(165,529)	(169,810)	(195,618)	(189,782)	(197,418)	(203,129)	(208,259)	(213,056)	(217,583)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	
4090	Electric Services Incidental to Energy Sales	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Operating Revenues		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4205	Interdepartmental Rents	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4210	Rent from Electric Property	(183,586)	(184,007)	(183,913)	(194,697)	(293,620)	(345,325)	(345,505)	(345,505)	(345,505)	(345,505)	(345,505)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	(176,388)	
4215	Other Utility Operating Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4220	Other Electric Revenues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4225	Late Payment Charges	(285,462)	(326,018)	(308,614)	(254,142)	(247,470)	(253,938)	(257,473)	(261,983)	(266,574)	(271,253)	(276,014)	(286,274)	(291,567)	(296,971)	(303,381)	(309,942)	(801,258)	(814,159)	(827,331)	(842,953)	(858,945)
4230	Sales of Water and Water Power	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4235	Miscellaneous Service Revenues	(938,848)	(1,077,943)	(696,833)	(719,470)	(469,443)	(483,894)	(483,271)	(485,345)	(488,487)	(495,800)	(503,242)	(1,388,670)	(1,388,670)	(1,388,670)	(1,388,670)	(1,388,670)	(1,375,610)	(1,375,610)	(1,375,610)	(1,375,610)	(1,375,610)
4240	Provision for Rate Refunds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4245	Government Assistance Directly Credited to Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Income/ Deductions		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4305	Regulatory Debits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4310	Regulatory Credits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4315	Revenues from Electric Plant Leased to Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4320	Expenses of Electric Plant Leased to Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4324	MEI Special Purpose Charge	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4325	Revenues from Merchandise, Jobbing, Etc.	(153,070)	(48,353)	(185,119)	(175,831)	(182,826)	(191,174)	(191,174)	(191,174)	(191,174)	(191,174)	(191,174)	(1,388,670)	(1,388,670)	(1,388,670)	(1,388,670)	(1,388,670)	(1,375,610)	(1,375,610)	(1,375,610)	(1,375,610)	(1,375,610)
4330	Costs and Expenses of Merchandising, Jobbing, Etc	134,452	67,997	203,663	118,523	199,582	190,405	190,405	190,405	190,405	190,405	190,405	(2,376,719)	(2,376,719)	(2,376,719)	(2,376,719)	(2,376,719)	(2,369,144)	(2,369,144)	(2,369,144)	(2,369,144)	(2,369,144)
4335	Profits and Losses from Financial Instrument Hedges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4340	Profits and Losses from Financial Instrument Investments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4345	Gains from Disposition of Future Use Utility Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4350	Losses from Disposition of Future Use Utility Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4355	Gain on Disposition of Utility and Other Property	(500)	(7,875)	73,591	(33,661)	647,442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4357	Gain from Retirement of Utility and Other Property	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4360	Loss on Disposition of Utility and Other Property	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4362	Loss from Retirement of Utility and Other Property	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4365	Gains from Disposition of Allowances for Emission	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4370	Losses from Disposition of Allowances for Emission	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4375	Revenues from Non-Utility Operations	(1,588,923)	(3,208,816)	(2,851,179)	(3,483,340)	(2,988)	(2,988)	(107,214)	(107,214)	(107,214)	(107,214)	(107,214)	(2,376,719)	(2,376,719)	(2,376,719)	(2,376,719)	(2,376,719)	(2,369,144)	(2,369,144)	(2,369,144)	(2,369,144)	(2,369,144)
4380	Expenses of Non-Utility Operations	1,454,655	2,932,676	2,706,242	2,371,942	3,481,513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4385	Expenses of Non-Utility Operations	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4390	Miscellaneous Non-Operating Income	(154,246)	(122,786)	(205,677)	(189,621)	(145,804)	(149,788)	(149,788)	(149,788)	(149,788)	(149,788)	(149,788)	(146,629)	(146,629)	(146,629)	(146,629)	(146,629)	(1,326)	(1,327)	(1,328)	(1,330)	(1,331)
4395	Rate-Payer Benefit Including Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4398	Foreign Exchange Gains and Losses, Including Amortization	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Investment Income		(190,832)	(145,298)	(159,458)	(168,840)	(131,553)	(74,431)	(74,431)	(74,431)	(74,431)	(74,431)	(74,431)	(128,000)	(128,000)	(128,000)	(128,000)	(128,000)	(128,000)	(128,000)	(128,000)	(128,000)	(128,000)
4405	Interest and Dividend Income	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4410	Lessor's Net Investment in Finance Lease	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4415	Equity in Earnings of Subsidiary Companies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4420	Share of Profit or Loss of Joint Venture	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Power Supply Expenses		72,163,352	81,044,972	63,307,617	64,828,533	68,668,946	71,532,934	72,963,593	51,955,684	59,757,362	60,092,326	60,372,439	52,777,12									

Check Balance (should be Zero)											
OEB Trial Balance		(0)	(0)	(0)	(0)	0	0	0	0	0	(0)
USA	OEB Account Name	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Bridge Year	2021 Test Year	Forecast	Forecast	Forecast
5035	Overhead Distribution Transformers - Operation	0	0	0	0	0	0	0	0	0	0
5040	Underground Distribution Lines and Feeders - Operation Labour	20,478	27,685	8,820	27,126	35,723	34,451	34,821	35,197	35,600	36,012
5045	Underground Distribution Lines and Feeders - Operation Supplies and Expenses	471	22,627	1,101	17,012	3,182	6,604	6,736	6,877	7,022	7,169
5050	Underground Subtransmission Feeders - Operation	0	0	0	0	0	0	0	0	0	0
5055	Underground Distribution Transformers - Operation	0	0	0	0	0	0	0	0	0	0
5061	Street Lighting and Signal System Expense	0	0	0	0	0	0	0	0	0	0
5065	Meter Expense	70,728	135,101	308,908	477,413	651,051	656,121	669,243	682,713	697,067	711,723
5070	Customer Premises - Operation Labour	0	0	0	0	0	0	0	0	0	0
5075	Customer Premises - Materials and Expenses	0	0	0	0	0	0	0	0	0	0
5085	Miscellaneous Distribution Expense	504,761	491,449	265,310	220,906	104,901	125,611	64,884	66,290	67,696	69,132
5090	Underground Distribution Lines and Feeders - Rental Paid	0	0	0	0	0	0	0	0	0	0
5095	Overhead Distribution Lines and Feeders - Rental Paid	0	0	0	0	0	0	0	0	0	0
5096	Other Rent	0	0	0	0	0	0	0	0	0	0
Distribution Expenses - Maintenance											
5105	Maintenance Supervision and Engineering	169,530	115,055	10,525	(3)	(3,975)	143,140	128,766	131,347	134,117	136,946
5110	Maintenance of Structures	3,640	4,435	3,678	300	6,135	8,344	8,510	8,689	8,872	9,058
5112	Maintenance of Transformer Station Equipment	0	0	0	0	0	0	0	0	0	0
5114	Mftral Dist Stn Equip	243,311	207,543	126,945	203,155	222,637	230,167	234,742	239,422	244,407	249,495
5120	Maintenance of Poles, Towers and Fixtures	461,321	654,374	539,084	523,412	473,782	517,479	627,499	639,534	652,147	665,010
5125	Maintenance of Overhead Conductors and Devices	0	0	0	0	0	0	0	0	0	0
5130	Maintenance of Overhead Services	0	0	0	0	0	0	0	0	0	0
5135	Overhead Distribution Lines and Feeders - Right of Way	0	0	0	0	0	0	0	0	0	0
5145	Maintenance of Underground Conduit	222,748	254,887	201,204	210,261	263,546	252,703	183,654	263,288	268,926	274,679
5150	Maintenance of Underground Conductors and Devices	0	0	0	0	0	0	0	0	0	0
5155	Maintenance of Underground Services	104,840	134,291	131,236	146,815	53,728	54,803	55,899	57,017	58,214	59,436
5160	Maintenance of Line Transformers	0	0	0	0	0	0	0	0	0	0
5165	Maintenance of Street Lighting and Signal Systems	0	0	0	0	0	0	0	0	0	0
5170	Sentinel Lights - Labour	0	0	0	0	0	0	0	0	0	0
5172	Sentinel Lights - Materials and Expenses	0	0	0	0	0	0	0	0	0	0
5175	Maintenance of Meters	0	68	16	0	0	0	0	0	0	0
5178	Customer Installations Expenses - Leased Property	0	0	0	0	0	0	0	0	0	0
5195	Maintenance of Other Installations on Customer Premises	0	0	0	0	0	0	0	0	0	0
Other Expenses											
5205	Purchase of Transmission and System Services	0	0	0	0	0	0	0	0	0	0
5210	Transmission Charges	0	0	0	0	0	0	0	0	0	0
5215	Transmission Charges Recovered	0	0	0	0	0	0	0	0	0	0
Billing and Collecting											
5305	Supervision	138,062	137,313	141,393	158,648	146,720	141,910	145,880	148,818	151,947	155,141
5310	Meter Reading Expense	508,971	549,248	555,586	419,044	442,134	460,294	469,314	432,164	440,959	449,933
5315	Customer Billing	1,035,895	965,173	1,065,063	1,169,598	1,138,471	1,205,196	1,228,072	1,251,895	1,276,279	1,301,141
5320	Collecting	279,225	267,691	243,844	289,135	197,628	269,098	274,283	279,651	285,221	290,903
5325	Collecting - Cash Over and Short	0	0	0	0	0	0	0	0	0	0
5330	Collection Charges	0	0	0	0	0	0	0	0	0	0
5335	Bad Debt Expense	207,641	561,768	718,973	441,986	251,338	446,604	455,536	465,102	474,869	484,842
5340	Miscellaneous Customer Accounts Expenses	0	0	0	0	0	0	0	0	0	0
Community Relations											
5405	Supervision	144,866	227,129	154,112	148,378	142,424	157,586	160,738	163,973	167,420	170,939
5410	Community Relations - Sundry	69,780	32,527	65,731	154,980	174,481	197,191	190,417	194,214	198,179	202,226
5415	Energy Conservation	93,008	85,651	31,678	41,071	14,991	123,944	125,863	128,395	128,392	131,091
5420	Community Safety Program	189,151	182,863	157,200	171,172	144,462	148,924	189,161	193,061	197,119	201,261
5425	Miscellaneous Customer Service and Informational Expenses	695,418	775,045	782,508	752,512	695,167	869,887	887,263	905,101	924,100	943,497
Sales Expenses											
5505	Supervision	0	0	0	0	0	0	0	0	0	0
5510	Demonstrating and Selling Expense	0	0	0	0	0	0	0	0	0	0
5515	Advertising Expense	0	0	0	0	0	0	0	0	0	0
5520	Miscellaneous Sales Expense	0	0	0	0	0	0	0	0	0	0
Administrative and General Expenses											
5605	Executive Salaries and Expenses	669,986	653,571	743,778	911,043	987,825	955,093	896,531	914,907	934,120	953,736
5610	Management Salaries and Expenses	714,568	705,281	911,577	1,068,904	1,031,547	1,006,075	1,027,496	1,048,240	1,070,284	1,092,792
5615	General Administrative Salaries and Expenses	1,066,613	1,175,404	1,105,537	1,204,366	971,258	1,077,983	1,046,099	1,151,579	1,175,206	1,199,325
5620	Office Supplies and Expenses	180,894	231,225	452,518	422,238	369,730	602,330	614,377	627,255	640,427	653,876
5625	Administrative Expense Transferred-Credit	(199,414)	(173,663)	(119,034)	(178,304)	(198,299)	(179,384)	(182,972)	(186,631)	(190,550)	(194,552)
5630	Outside Services Employed	392,972	181,203	259,063	216,801	279,563	259,602	264,795	270,355	276,033	281,829
5635	Property Insurance	128,279	140,796	128,597	97,423	101,037	99,377	101,364	103,493	105,666	107,885
5640	Injuries and Damages	151,979	186,256	207,285	211,855	201,481	209,501	213,691	218,178	222,760	227,438
5645	OMERS Pensions and Benefits (IAS 19)	830,253	780,831	881,513	948,365	922,515	981,032	998,898	1,019,779	1,041,205	1,063,080
5646	Employee Pensions and OPEB (IAS 19)	0	0	0	0	0	0	0	0	0	0
5647	Employee Sick Leave (IAS 19)	0	0	0	0	0	0	0	0	0	0
5650	Franchise Requirements	0	0	0	0	0	0	0	0	0	0
5655	Regulatory Expenses	369,577	392,682	393,569	412,027	403,300	152,558	415,032	420,859	426,809	432,883
5660	General Advertising Expenses	0	4,309	7,891	1,125	382	0	0	0	0	0
5665	Miscellaneous Expenses	138,012	189,079	163,022	164,801	169,161	161,262	164,487	167,942	171,468	175,069
5670	Rent	301,864	308,430	316,015	322,770	329,633	335,259	341,964	349,145	356,477	371,606
5672	Lease Payment Expense	0	0	0	0	0	0	0	0	0	0
5675	Maintenance of General Plant	773,648	794,812	817,883	880,539	941,314	891,535	908,764	926,877	945,406	964,308

(0)	(0)	(0)	(0)	(0)
<b>Per Dec 2015 OEB Decision &amp; Updated Decision for 2018/2019</b>				
<b>2015 Forecast</b>	<b>2016 Forecast</b>	<b>2017 Forecast</b>	<b>2018 Forecast</b>	<b>2019 Forecast</b>
0	0	0	0	0
10,002	10,227	10,457	10,692	10,932
65	65	65	65	65
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
38,862	88,554	90,504	92,496	94,532
0	0	0	0	0
0	0	0	0	0
438,952	496,655	532,110	510,976	477,925
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
176,341	179,868	183,486	187,177	190,942
2,687	2,740	2,798	2,857	2,917
0	0	0	0	0
246,318	251,745	257,307	262,992	268,803
634,578	648,395	662,551	677,017	691,799
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
155,281	158,744	162,290	165,915	169,622
0	0	0	0	0
130,692	133,633	136,639	139,714	142,857
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
381	389	397	406	414
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
146,954	149,988	153,100	156,277	159,520
579,462	591,764	604,448	617,403	630,637
1,050,438	1,079,331	1,109,175	1,139,947	1,171,680
404,543	413,219	422,179	431,333	440,686
0	0	0	0	0
0	0	0	0	0
471,648	481,081	491,184	501,498	512,030
17	17	18	18	18
148,488	151,458	154,506	157,616	160,789
69,780	122,136	124,597	127,107	129,668
89,119	90,874	92,675	94,511	96,383
210,952	215,058	219,327	223,684	228,130
643,384	730,320	746,627	763,299	780,344
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
815,303	801,344	813,141	825,173	837,444
769,754	868,483	886,163	904,203	922,611
1,141,789	1,135,881	1,089,243	1,112,294	1,135,834
164,880	167,969	171,340	174,780	178,290
(295,598)	(302,249)	(309,050)	(316,004)	(323,114)
309,693	295,487	301,566	307,770	314,101
149,938	152,936	156,148	159,427	162,775
143,794	146,670	149,750	152,894	156,105
809,154	839,539	878,529	884,319	900,174
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
383,166	387,649	392,451	397,354	402,359
0	0	0	0	0
138,176	140,940	143,900	146,922	150,007
303,406	309,474	315,973	322,608	329,383
771,306	703,623	718,272	733,226	748,491

OEB Trial Balance															
	Check Balance (should be Zero)				(0)	(0)	(0)	(0)	0	0	0	0	0	(0)	
	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Bridge Year	Forecast	Forecast	2021 Test Year	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast		
USA	OEB Account Name														
5680	Electrical Safety Authority Fees	0	0	0	0	0	0	0	0	0	0	0	0	0	
5681	MEI Special Purpose Charge	0	0	0	0	0	0	0	0	0	0	0	0	0	
5685	Independent Market Operator Fees and Penalties	0	0	0	0	0	0	0	0	0	0	0	0	0	
5695	OM&A Contra Account	0	2,498	0	0	0	0	0	0	0	0	0	0	0	
<b>Amortization Expense</b>															
5705	Amortization Expense - Property, Plant and Equipment	4,393,116	4,437,246	4,362,249	4,981,587	5,620,153	5,859,618	6,068,050	6,220,679	6,664,197	7,109,404	7,552,494	0	0	
5710	Amortization of Limited Term Electric Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	
5715	Amortization of Intangibles and Other Electric Plant	0	0	0	0	82,734	82,734	82,734	0	0	0	0	0	0	
5720	Amortization of Electric Plant Acquisition Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	0	
5725	Miscellaneous Amortization	0	0	0	0	0	0	0	0	0	0	0	0	0	
5730	Amortization of Unrecovered Plant and Regulatory Study Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	
5740	Amortization of Deferred Charges	(595,119)	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Interest Expense</b>															
6005	Interest on Long Term Debt	2,162,050	2,350,621	1,724,475	1,538,489	2,187,540	2,271,765	2,593,205	2,792,005	3,127,450	3,448,450	3,673,150	0	0	
6010	Amortization of Debt Discount and Expense	0	0	0	0	0	0	0	0	0	0	0	0	0	
6015	Amortization of Premium on Debt-Credit	0	0	0	0	0	0	0	0	0	0	0	0	0	
6020	Amortization of Loss on Reacquired Debt	0	0	0	0	0	0	0	0	0	0	0	0	0	
6025	Amortization of Gain on Reacquired Debt-Credit	0	0	0	0	0	0	0	0	0	0	0	0	0	
6030	Interest on Debt to Associated Companies	0	0	0	0	0	0	0	0	0	0	0	0	0	
6035	Other Interest Expense	145,717	71,905	123,769	209,311	300,429	173,126	173,126	173,126	173,126	173,126	173,126	173,126	0	
6040	Allowance for Borrowed Funds Used During Construction-Credit	(110,106)	(216,299)	(263,745)	(405,142)	(356,953)	(302,683)	(302,683)	(302,683)	(302,683)	(302,683)	(302,683)	(302,683)	(302,683)	
6042	Allowance for Other Funds Used During Construction	0	0	0	0	0	0	0	0	0	0	0	0	0	
6045	Interest Expense on Capital Lease Obligations	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Taxes</b>															
6105	Taxes Other Than Income Taxes	127,612	135,660	135,660	135,660	135,660	149,114	152,097	155,291	168,473	172,010	175,623	0	0	
6110	Income Taxes	145,188	339,456	498,042	815,524	749,446	0	0	413,934	555,861	669,300	771,664	0	0	
6115	Provision for Future Income Taxes	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Other Deductions</b>															
6205	Donations	24,688	28,693	29,589	30,678	32,192	33,916	34,374	35,408	32,479	38,787	38,787	0	0	
6210	Life Insurance	0	0	0	0	0	0	0	0	0	0	0	0	0	
6215	Penalties	0	6,569	0	0	0	0	0	0	0	0	0	0	0	
6225	Other Deductions	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Unusual Items</b>															
6305	Extraordinary Income	0	0	0	0	0	0	0	0	0	0	0	0	0	
6310	Extraordinary Deductions	0	0	0	0	0	0	0	0	0	0	0	0	0	
6315	Income Taxes, Extraordinary Items	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>Discontinued Operations</b>															
6405	Discontinued Operations - Income/Gains														
6410	Discontinued Operations - Deductions/Losses														
6415	Income Taxes - Discontinued Operations														
<b>Other Comprehensive Income</b>															
7005	Available-for-Sale Financial Asset or Cash Flow Hedge - Other Comp. Income														
7010	Pension Actuarial Gains/Losses/Re-measurement Adj. - Other Comp. Income														
7020	Current Taxes - Other Comprehensive Income														
7025	Deferred Taxes - Other Comprehensive Income														
7030	Miscellaneous - Other Comprehensive Income														
<b>Other Accounts</b>															
<b>TOTALS</b>		(0)	(0)	(0)	(0)	0	0	0	0	0	(0)	0	0	0	



<i>Check Balance (should be Zero)</i>	(0)	(0)	(0)	(0)	0	0	0	0	0	(0)	0	(0)	(0)	(0)	(0)			
<b>OEB Trial Balance</b>	#REF!	#REF!	#REF!	#REF!	Forecast	Forecast												
USA	OEB Account Name	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Bridge Year	2021 Test Year	2022 Forecast	2023 Forecast	2024 Forecast	2025 Forecast	Per Dec 2015 OEB Decision & Updated Decision for 2018/2019	2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast

Approved by Year (Custom IR 2015 to 2019)						
	2015 Approved (Custom IR)	2016 Approved (Custom IR)	2017 Approved (Custom IR)	2018 Approved (Custom IR)	2019 Approved (Custom IR)	2020 Bridge Year
Total	\$ 12,054	\$ 12,533	\$ 12,824	\$ 13,033	\$ 13,102	#REF!
% Variance Actual to OEB Approved : Higher (Lower)	(3.2)%	(1.3)%	0.7%	4.1%	(1.8)%	#REF!

Total \$'s higher than OEB Approved (assuming 2.4x% per calc below) #REF! #REF! #REF!

Inflation	2.00%	2.00%
Productivity	0.00%	0.00%
Stretch	(0.15)%	(0.15)%
Customer Growth	#REF!	#REF!
Total	#REF!	#REF!

Total \$'s higher than OEB Approved (assuming 1% inflation) \$610 \$666

Total \$'s higher than OEB Approved (assuming 2% inflation) \$479 #REF!

	2014 Actual	2019 Actual	
Customers	54,731	59,491	8.70% Period Growth Rate
			1.68% Annual Compound Growth Rate
			1.68% 1.68%

Table 4-5 – Summary of Operating Costs 2011-2019

\$000's	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Approved	2019 Actual	2020 Bridge	2021 Test
OM&A (excluding Property Taxes)	11,678	12,374	12,909	13,585	13,102	12,873	13,843	14,031
Property Taxes	128	136	136	136	172	136	149	152
Depreciation & Amortization	3,798	4,437	4,362	4,982	5,393	5,703	5,942	6,151
PILS (income taxes)	145	339	498	816	471	749	0	0
Total Operating Costs	15,749	17,287	17,905	19,517	19,138	19,461	19,935	20,334