

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

Gross Capital Cost Additions Data

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

Output and Other Business Conditions

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)

Inflation Measures

8	Wage Growth	2.88%	3.20%	4.00%	0.46%	2.01%	2.10%	2.10%	Enter values.
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%	Enter Values

The default values provided reflect recent historical growth.

* per OEB

OM&A Expenses Included in Cost Benchmarking

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 Worksh	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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		2018	2019	2020	2021	2022	2023	2024	
5075	Customer Premises - Operation 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
	Subtotal: Operation	2,070,198	1,999,010	2,063,979	1,855,101	1,854,772	1,892,124	1,930,239	Formula
5105	Maintenance Supervision and Engineering	201	(3,975)	143,140	128,766	131,347	134,117	136,946	Enter Values
5110	Maintenance of Buildings and Fixtures	300	6,135	8,344	8,510	8,689	8,872	9,058	Enter Values
5112	Maintenance of Transformer Station Equipment	-	-	-	-	-	-	-	Enter Values
5114	Maintenance of Distribution Station 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
	Subtotal: Maintenance	1,084,144	1,015,853	1,206,635	1,239,070	1,339,297	1,366,683	1,394,624	Formula
5305	Supervision (Billing and Collection)	158,648	146,720	141,910	145,880	148,818	151,947	155,141	Enter Values
5310	Meter Reading Expense	419,044	442,134	460,294	469,314	432,164	440,959	449,933	Enter Values
5315	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
5320	Collecting	289,135	197,628	269,098	274,283	279,651	285,221	290,903	Enter Values
5325	Collecting - Cash Over and Short	-	-	-	-	-	-	-	Enter Values
5330	Collection Charges	-	-	-	-	-	-	-	Enter Values
5340	Miscellaneous Customer Account Expens	-	-	-	-	-	-	-	Enter Values
	Subtotal : Billing and Collections	2,036,425	1,924,952	2,076,498	2,117,550	2,112,528	2,154,406	2,197,118	Formula
5405	Supervision (Community Relations)	148,378	142,424	157,586	160,738	163,973	167,420	170,939	Enter Values

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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
	Subtotal: Community Relations	1,227,042	1,156,534	1,373,588	1,427,580	1,456,349	1,486,817	1,517,923	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
	Sutotal: A&G Expenses	6,585,202	6,409,028	6,452,846	6,709,161	6,928,485	7,069,645	7,213,748	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
	Subtotal: Insurance	97,423	101,037	99,377	101,364	103,493	105,666	107,885	Formula
5515	Advertinsing	-	-	-	-	-	-	-	Enter Values
	Subtotal Advertising	-	-	-	-	-	-	-	Formula
	2A Total of Above Accounts Used for Benc	13,100,434	12,606,416	13,272,922	13,449,826	13,794,925	14,075,341	14,361,537	Formula
Adjustments to OM&A for Benchmarking									
	5014	-	-	-	-	-	-	-	Formula
	5015	-	-	-	-	-	-	-	Formula
	5112	-	-	-	-	-	-	-	Formula
	2B Subtotal: HV Adjustment (to subtract fr	-	-	-	-	-	-	-	Formula
	2C LV Adjustment	-	-	-	-	-	-	-	Enter Values

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 I	Account	Forecasted Values					
			2018	2019	2020	2021	2022	2023

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		Subtotal: Operation	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 Equipement	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		Subtotal: Maintenance	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		Subtotal: Billing and Collections	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		Subtotal: Community Relations	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		Subtotal: A&G Expenses	6,585,202						
68	5635	64 Property Insurance	97,423						
69	6210	65 Life Insurance	-						
70		Subtotal: Insurance	97,423						
71	5515	46 Advertising	-						
72		Subtotal Advertising	-						
73		Total of Above Accounts Used for Benchmarking	13,100,434						
74									
75		Adjustments to OM&A for Benchmarking							
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		Gross Capital Cost Additions Data							
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		Output and Other Business Conditions							
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									
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	WKWK		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	WKWK		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									
242	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
Cost Benchmarking Summary							
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)
Percentage Difference (Cost Performance)	-14.4%	-11.7%	-11.8%	-12.09%	-12.72%	-13.88%	-15.26%
Three-Year Average Performance			-12.7%	-11.89%	-12.22%	-12.90%	-13.95%
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

Check Balance (should be Zero)

(0) (0) (0) (0) 0 0 0 0 0 0 (0) 0

(0) (0) (0) (0) (0)

OEB Trial Balance

Table with columns: OEB Account Name, 2015 Actual, 2016 Actual, 2017 Actual, 2018 Actual, 2019 Actual, 2020 Forecast, 2021 Forecast, 2022 Forecast, 2023 Forecast, 2024 Forecast, 2025 Forecast. Rows include Current Assets (1005-1210), Inventory (1305-1350), Non-Current Assets (1405-1495), and Other Assets and Deferred Charges (1505-1584).

Per Dec 2015 OEB Decision & Updated Decision for 2018/2019

Table with columns: 2015 Forecast, 2016 Forecast, 2017 Forecast, 2018 Forecast, 2019 Forecast. Rows correspond to the OEB Account Name column on the left, showing forecast values for each year from 2015 to 2019.

Check Balance (should be Zero)

(0)

(0)

(0)

(0)

0

0

0

0

0

(0)

0

(0)

(0)

(0)

(0)

(0)

OEB Trial Balance

Table with columns: 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.

Main data table with 12 columns for years from 2015 to 2025, categorized by OEB Account Name.

Table titled 'Per Dec 2015 OEB Decision & Updated Decision for 2018/2019' with 5 columns for years 2015 to 2019.

Check Balance (should be Zero)

(0) (0) (0) (0) 0 0 0 0 0 0 (0) 0

(0) (0) (0) (0) (0)

OEB Trial Balance

Table with columns: USA, OEB Account Name, 2015 Actual, 2016 Actual, 2017 Actual, 2018 Actual, 2019 Actual, Forecast 2020 Bridge Year, Forecast 2021 Test Year, Forecast 2022, Forecast 2023, Forecast 2024, Forecast 2025. Rows include categories like Overhead Distribution Transformers, Maintenance, Other Expenses, Billing and Collecting, Community Relations, Sales Expenses, and Administrative and General Expenses.

Per Dec 2015 OEB Decision & Updated Decision for 2018/2019

Table with columns: 2015 Forecast, 2016 Forecast, 2017 Forecast, 2018 Forecast, 2019 Forecast. Rows correspond to the OEB Account Name categories from the left table.

Check Balance (should be Zero)

(0) (0) (0) (0) 0 0 0 0 0 (0) 0

(0) (0) (0) (0) (0)

OEB Trial Balance

USA	OEB Account Name	#REF!					Forecast	Forecast	#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
5680	Electrical Safety Authority Fees	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
5685	Independent Market Operator Fees and Penalties	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
Amortization Expense												
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
5710	Amortization of Limited Term Electric Plant	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
5720	Amortization of Electric Plant Acquisition Adjustments	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
5730	Amortization of Unrecovered Plant and Regulatory Study Costs	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
Interest Expense												
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
6010	Amortization of Debt Discount and Expense	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
6020	Amortization of Loss on Recquired Debt	0	0	0	0	0	0	0	0	0	0	0
6025	Amortization of Gain on Recquired Debt-Credit	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
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
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)
6042	Allowance for Other Funds Used During Construction	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
Taxes												
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
6110	Income Taxes	145,188	339,456	498,042	815,524	749,446	0	0	413,934	555,861	669,300	771,664
6115	Provision for Future Income Taxes	0	0	0	0	0	0	0	0	0	0	0
Other Deductions												
6205	Donations	24,688	28,693	29,589	30,678	32,192	33,916	34,374	35,408	32,479	38,787	38,787
6210	Life Insurance	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
6225	Other Deductions	0	0	0	0	0	0	0	0	0	0	0
Unusual Items												
6305	Extraordinary Income	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
6315	Income Taxes, Extraordinary Items	0	0	0	0	0	0	0	0	0	0	0
Discontinued Operations												
6405	Discontinued Operations - Income/Gains											
6410	Discontinued Operations - Deductions/Losses											
6415	Income Taxes - Discontinued Operations											
Other Comprehensive Income												
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											
Other Accounts												
TOTALS		(0)	(0)	(0)	(0)	0	0	0	0	0	(0)	0

Per Dec 2015 OEB Decision & Updated Decision for 2018/2019				
2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast
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
(595,125)	0	0	0	0
2,141,089	2,328,190	2,503,720	3,361,529	3,464,241
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
89,860	89,860	89,860	89,860	89,860
(73,333)	(73,333)	(73,333)	(73,333)	(73,333)
0	0	0	0	0
0	0	0	0	0
158,445	161,613	165,007	168,473	172,010
152,090	234,003	321,042	380,431	356,392
0	0	0	0	0
27,460	30,064	31,293	32,479	33,219
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)

Check Balance (should be Zero)

(0) (0) (0) (0) 0 0 0 0 0 (0) 0

(0) (0) (0) (0) (0)

OEB Trial Balance

USA	OEB Account Name	#REF!					Forecast	Forecast	#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
		Assume Calculated Inflation below (in Yellow)										
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	2021 Test Year				
Total		\$ 12,054	\$ 12,533	\$ 12,824	\$ 13,033	\$ 13,102	#REF!	#REF!				
% Variance Actual to OEB Approved : Higher (Lower)		(3.2%)	(1.3%)	0.7%	4.1%	(1.8%)	#REF!	#REF!				

Per Dec 2015 OEB Decision & Updated Decision for 2018/2019				
2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast

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%
#REF!	Stretch	(0.15)%	(0.15)%
#REF!	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