

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Weather Normal	Weather Normal
Actual kWh Purchases	33,611,224	32,654,946	31,058,652	29,569,274	29,857,234	30,257,407	29,917,187	27,909,701	28,474,627	28,011,153	29,749,924	29,940,176		
Predicted kWh Purchases	34,757,774	34,426,725	33,275,403	30,392,281	31,497,154	32,657,571	31,899,157	29,586,308	30,598,529	29,458,461	31,027,380	30,895,903	28,853,029	29,049,515
% Difference	3.4%	5.4%	7.1%	2.8%	5.5%	7.9%	6.6%	6.0%	7.5%	5.2%	4.3%	3.2%		
Billed kWh	32,559,118	31,044,406	29,513,664	28,429,027	28,525,074	28,582,032	28,674,687	26,167,966	26,893,563	26,031,597	27,174,709	27,940,070	26,475,527	26,061,255
By Class														
Residential														
Customers	1,189	1,179	1,176	1,136	1,159	1,148	1,144	1,132	1,117	1,099	1,076	1,068	1,065	1,063
kWh	16,533,903	15,978,327	15,211,690	14,654,854	15,018,918	15,056,531	15,273,442	13,587,676	14,223,450	13,606,692	14,615,491	15,225,943	14,458,774	14,291,097
General Service < 50														
Customers	169	169	169	159	159	167	162	160	156	162	157	154	153	152
kWh	6,027,416	5,940,345	5,825,357	5,541,938	5,438,894	5,269,211	5,200,927	4,877,032	5,102,862	4,978,478	5,220,157	5,251,375	4,942,820	4,842,432
General Service >50														
Customers	16	14	14	15	14	14	14	14	14	14	14	13	13	13
kWh	9,668,139	8,798,182	8,150,335	7,907,099	7,740,511	7,928,332	7,871,532	7,374,502	7,236,568	7,124,651	7,033,427	7,157,299	6,769,262	6,630,340
kW	25,121	24,094	21,944	21,243	19,178	20,115	19,967	18,568	19,549	18,736	18,430	18,429	17,660	17,297.36
USL														
Customers	6	6	6	6	6	6	6	6	6	5	5	4	4	4
kWh	7,248	7,239	7,248	7,286	7,286	7,301	7,212	7,391	7,734	5,511	5,052	4,068	3,860	3,584
Sentinel Lights														
Connections	26	25	24	24	26	25	23	23	23	23	23	23	23	23
kWh	27,506	23,670	23,346	23,346	24,801	24,659	24,861	25,021	26,236	26,265	27,271	26,857	27,099	26,757
kW	76	66	65	64	67	70	66	66	66	60	65	65	66	65.51
Street Lights														
Connections	341	341	341	341	341	341	341	341	341	328	328	328	328	328
kWh	294,906	296,643	295,688	294,504	294,664	295,998	296,713	296,344	296,713	290,000	273,311	274,528	273,712	267,045
kW	771	789	780	780	780	780	780	780	780	777	768	768	742	723.57
Total of Above														
Customer/Connections	1,747	1,734	1,730	1,681	1,705	1,701	1,690	1,676	1,657	1,631	1,603	1,590	1,586	1,583
kWh	32,559,118	31,044,406	29,513,664	28,429,027	28,525,074	28,582,032	28,674,687	26,167,966	26,893,563	26,031,597	27,174,709	27,940,070	26,475,527	26,061,255
kW from applicable classes	25,968	24,948	22,789	22,087	20,025	20,965	20,812	19,414	20,394	19,573	19,263	19,262	18,468	18,086
Total from Model														
Customer/Connections	1,747	1,734	1,730	1,681	1,705	1,701	1,690	1,676	1,657	1,631	1,603	1,590	1,586	1,583
kWh	32,559,118	31,044,406	29,513,664	28,429,027	28,525,074	28,582,032	28,674,687	26,167,966	26,893,563	26,031,597	27,174,709	27,940,070	26,475,527	26,061,255
kW from applicable classes	25,968	24,948	22,789	22,087	20,025	20,965	20,812	19,414	20,394	19,573	19,263	19,262	18,468	18,086
Check should all be zero														
Customer/Connections	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kWh	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kW from applicable classes	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SUMMARY OUTPUT

Regression Statistics	
Multiple R	100%
R Square	99%
Adjusted R Square	99%
Standard Error	83297.54806
Observations	96

ANOVA					
	df	SS	MS	F	Significance F
Regression	5	6.24073E+13	1.24815E+13	1798.873907	1.53221E-88
Residual	90	6.24463E+11	6938481513		
Total	95	6.30317E+13			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%
Intercept	-4329780.327	535618.9819	-8.083694703	2.74011E-12	-5393880.899	-3265679.755
Heating Degree Days	2527.105379	33.332268	75.81558445	2.43182E-83	2460.885012	2593.325746
Cooling Degree Days	1639.788116	502.0184901	3.266389882	0.001542222	642.440785	2637.135448
Number of Peak Hours	1118.577441	551.5074651	2.028218132	0.045494188	22.91162469	2214.243256
Number of Customers	3429.53786	314.2678022	10.91278787	3.70134E-18	2805.190032	4053.885688

Weather Corrected Forecast
2015
2016

Total
26,475,527
26,655,822
14,458,774
4,942,820
6,769,262
3,860
27,099
273,712
26,475,527
26,061,255

<u>Year</u>	<u>Residential</u>	<u>General Service</u> <u>< 50</u>
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Year

Base Revenue Requirement

Particulars	2016 Test
OM&A Expenses	720,300
Amortization/Depreciation	74,699
Property Taxes	8,000
Income Taxes (Grossed up)	671
Return	
Deemed Interest Expense	36,298
Return on Deemed Equity	51,154
Service Revenue Requirement	891,122
Revenue Offsets	43,505
Base revenue Requirement	847,617

Load Forecast 2015 and 2016

Customer Classes	2015 Bridge Year			2016 Test Year		
	# Customers	kWh	kW	Customer	kWh	kW
Residential Customers	1,065	14,458,774		1,063	14,291,097	
Gen Service <50 kW Customers	153	4,942,820		152	4,842,432	
Gen Service >50 kW Customers	13	6,769,262	17,660	13	6,630,340	17,296
Unmetered Scattered Load	4	3,860		4	3,584	
Sentinel Lighting	23	27,099	66	23	26,757	66
Street Lighting	328	273,712	742	328	267,045	724
TOTAL	1,586	26,475,527	18,468	1,583	26,061,255	18,086

Current Rates for 2015 Revenue

Customer Classes	2016 Test Year			Current Rates (2015)		2016 Revenue @ Current Rates				
	# Customers	kWh	kW	Fixed	Variable	Fixed	Variable	Total	% Fixed	% Variable
Residential Customers	1,063	14,291,097		24.04	0.0140	306,654	200,075	506,730	60.52%	39.48%
Gen Service <50 kW Customers	152	4,842,432		35.18	0.0179	64,168	86,680	150,848	42.54%	57.46%
Gen Service >50 kW Customers	13	6,630,340	17,296	193.66	3.6185	30,211	62,586	92,797	32.56%	67.44%
Unmetered Scattered Load	4	3,584		24.99	0.0336	1,200	120	1,320	90.88%	9.12%
Sentinel Lighting	23	26,757	66	8.65	15.0437	2,387	993	3,380	70.63%	29.37%
Street Lighting	328	267,045	724	4.43	20.6218	17,436	14,930	32,367	53.87%	46.13%
TOTAL	1,583	26,061,255	18,086			422,057	365,384	787,441	53.60%	46.40%

Transformer Ownership Allowance
NET REVENUE

(8,687)
778,754

Proposed Fixed and Variable Rates for 2016 Base Revenue

Customer Classes	2016 Test Year			Proposed Rates (2016)		2016 Revenue @ Proposed Rates				
	# Customers	kWh	kW	Fixed	Variable	Fixed	Variable	Total	% Fixed	% Variable
Residential Customers	1,063	14,291,097		31.85	0.0131	406,327	187,606	593,933	68.41%	31.59%
Gen Service <50 kW Customers	152	4,842,432		34.16	0.0174	62,311	84,171	146,482	42.54%	57.46%
Gen Service >50 kW Customers	13	6,630,340	17,296	190.92	3.5672	29,783	61,699	91,482	32.56%	67.44%
Unmetered Scattered Load	4	3,584		24.31	0.0327	1,167	117	1,284	90.88%	9.12%
Sentinel Lighting	23	26,757	66	13.33	23.1778	3,678	1,530	5,208	70.63%	29.37%
Street Lighting	328	267,045	724	1.26	5.8788	4,971	4,256	9,227	53.87%	46.13%
TOTAL	1,583	26,061,255	18,086			508,237	339,379	847,616	59.96%	40.04%

Transformer Ownership Allowance
NET REVENUE

(8,687)
838,929

COST OF POWER

Customer Classes	2016 Load Forecast		RPP Customers			Non-RPP Customers		
	kWh	kW	kWh	kW	Est %	kWh	kW	Est %
Residential Customers	14,291,097		14,240,010		99.643%	51,087		0.357%
Gen Service <50 kW Customers	4,842,432		4,745,498		97.998%	96,935		2.002%
Gen Service >50 kW Customers	6,630,340	17,297	-	-	0%	6,630,340	17,297	100.000%
Unmetered Scattered Load	3,584		3,584		100%	0		-
Sentinel Lighting	26,757	66	26,757		100%	0		-
Street Lighting	267,045	724	267,045		100%	0		-
TOTAL	26,061,255	18,086	19,282,894	0		6,778,361	17,297	

Customer Classes	RPP Customers				Cost of Power	Non-RPP Customers				Cost of Power
	2016 Loss		Price per kWh			2016 Loss		Price per kWh		
	kWh	Factor	Total kWh			kWh	Factor	Total kWh		
Residential Customers	14,240,010	1.0898	15,518,763	\$ 0.10384	\$ 1,611,468	51,087	1.0898	55,675	\$ 0.09060	\$ 5,044
Gen Service <50 kW Customers	4,745,498	1.0898	5,171,644	\$ 0.10384	\$ 537,023	96,935	1.0898	105,639	\$ 0.09060	\$ 9,571
Gen Service >50 kW Customers	-	1.0898	-	\$ 0.10384	\$ -	6,630,340	1.0898	7,225,744	\$ 0.09060	\$ 654,652
Unmetered Scattered Load	3,584	1.0898	3,906	\$ 0.10384	\$ 406	-	1.0898	-	\$ 0.09060	\$ -
Sentinel Lighting	26,757	1.0898	29,160	\$ 0.10384	\$ 3,028	-	1.0898	-	\$ 0.09060	\$ -
Street Lighting	267,045	1.0898	291,025	\$ 0.10384	\$ 30,220	-	1.0898	-	\$ 0.09060	\$ -
TOTAL	19,282,894		21,014,498		\$ 2,182,145	6,778,361		7,387,058		\$ 669,267

Customer Classes	2016 Load Forecast/Cost of Power				
	kWh	kW	2016 Loss Factor	Total kWh	Cost of Power
Residential Customers	14,291,097		1.0898	15,574,438	\$ 1,616,513
Gen Service <50 kW Customers	4,842,432		1.0898	5,277,283	\$ 546,594
Gen Service >50 kW Customers	6,630,340	17,297	1.0898	7,225,744	\$ 654,652
Unmetered Scattered Load	3,584		1.0898	3,906	\$ 406
Sentinel Lighting	26,757	66	1.0898	29,160	\$ 3,028
Street Lighting	267,045	724	1.0898	291,025	\$ 30,220
TOTAL	26,061,255	18,086		28,401,556	\$ 2,851,413

Transmission - Network				
Customer Classes	Unit	kW/kWh	Cost per Unit	Cost
Residential Customers	kWh	15,574,438	\$ 0.0073	\$ 113,693
Gen Service <50 kW Customers	kWh	5,277,283	\$ 0.0064	\$ 33,775
Gen Service >50 kW Customers	kW	17,297	\$ 2.2158	\$ 38,327
Unmetered Scattered Load	kWh	3,906	\$ 0.0064	\$ 25
Sentinel Lighting	kW	66	\$ 2.0415	\$ 134
Street Lighting	kW	724	\$ 2.0311	\$ 1,470
TOTAL				\$ 187,424

Cost per unit is based on the latest IESO price for Network Service of \$3.66 per kW effective January 1, 2016

Transmission - Connection				
Customer Classes	Unit	kW/kWh	Cost per Unit	Cost
Residential Customers	kWh	15,574,438	0.0018	\$ 28,034
Gen Service <50 kW Customers	kWh	5,277,283	0.0018	\$ 9,499
Gen Service >50 kW Customers	kW	17,297	0.6339	\$ 10,965
Unmetered Scattered Load	kWh	3,906	0.0018	\$ 7
Sentinel Lighting	kW	66	0.5003	\$ 33
Street Lighting	kW	724	0.4901	\$ 355
TOTAL				\$ 48,892

Cost per unit is based on the latest IESO price for Connection Service of \$0.87 per kW effective January 1, 2016

Wholesale Market Service				
Customer Classes	Unit	kW/kWh	Cost per Unit	Cost
Residential Customers	kWh	15,574,438	0.0036	\$ 56,068
Gen Service <50 kW Customers	kWh	5,277,283	0.0036	\$ 18,998
Gen Service >50 kW Customers	kWh	7,225,744	0.0036	\$ 26,013
Unmetered Scattered Load	kWh	3,906	0.0036	\$ 14
Sentinel Lighting	kWh	29,160	0.0036	\$ 105
Street Lighting	kWh	291,025	0.0036	\$ 1,048
TOTAL		28,401,556		\$ 102,246

Cost per unit is based on the latest price for Wholesale Market Service of \$0.0036 per kWh effective January 1, 2016

Low Voltage Charge				
Customer Classes	Unit	kW/kWh	Cost per Unit	Cost
Residential Customers	kWh	15,574,438	0.0023	\$ 35,821
Gen Service <50 kW Customers	kWh	5,277,283	0.0023	\$ 12,138
Gen Service >50 kW Customers	kW	17,297	0.9575	\$ 16,562
Unmetered Scattered Load	kWh	3,906	0.0023	\$ 9
Sentinel Lighting	kW	66	1.0127	\$ 66
Street Lighting	kW	724	0.9214	\$ 667
TOTAL				\$ 65,263

SUMMARY	Cost
Cost of Power	\$ 2,851,413
Transmission - Network	\$ 187,424
Transmission - Connection	\$ 48,892
Wholesale Market Service	\$ 102,246
Low Voltage Charge	\$ 65,263
Smart Meter Entity Charge	\$ 12,200
TOTAL	\$ 3,267,438