

Attachment F: Cost Model Summary

The following pages provide relevant summaries of the cost model created by Robertson-Bryan, Inc (RBI). A description of the cost model and its functionality can be found in the Feasibility Study (Attachment G).

Contents include:

Page F2: Overall summary of financial statement of operations

Page F3: Model assumptions

Pages F4-7: Energy Summary and Power Content Labels

Pages F8-13: Energy Load and Supply Summary

Page F14: Renewable Resources Summary

Cost Model Summary

10 Year Savings / (losses) Net Present Value (\$000's): **\$115,544**

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
REVENUES:										
Sale of Power:	\$ 87,798	\$ 99,641	\$ 128,821	\$ 136,446	\$ 143,694	\$ 151,566	\$ 158,046	\$ 167,248	\$ 174,552	\$ 182,449
Other Operating:	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Operating Revenues:	\$ 87,798	\$ 99,641	\$ 128,821	\$ 136,446	\$ 143,694	\$ 151,566	\$ 158,046	\$ 167,248	\$ 174,552	\$ 182,449
EXPENSES:										
<i>Operating Expenses:</i>										
Power Generation/Purchases	\$ 52,550	\$ 63,361	\$ 69,589	\$ 76,027	\$ 82,146	\$ 88,791	\$ 94,176	\$ 102,045	\$ 108,146	\$ 114,812
Scheduling	\$ 708	\$ 726	\$ 744	\$ 762	\$ 781	\$ 801	\$ 821	\$ 842	\$ 863	\$ 884
Transmission	\$ 6,613	\$ 6,890	\$ 7,163	\$ 7,462	\$ 7,740	\$ 8,069	\$ 8,386	\$ 8,725	\$ 9,099	\$ 9,462
Distribution	\$ 5,028	\$ 5,153	\$ 5,282	\$ 5,414	\$ 5,550	\$ 5,688	\$ 5,831	\$ 5,976	\$ 6,126	\$ 6,279
Customer Accounts/Info	\$ 2,559	\$ 2,623	\$ 2,689	\$ 2,756	\$ 2,825	\$ 2,896	\$ 2,968	\$ 3,042	\$ 3,118	\$ 3,196
Administrative and General	\$ 3,235	\$ 3,316	\$ 3,399	\$ 3,483	\$ 3,571	\$ 3,660	\$ 3,751	\$ 3,845	\$ 3,941	\$ 4,040
Subtotal	\$ 70,693	\$ 82,069	\$ 88,866	\$ 95,905	\$ 102,613	\$ 109,905	\$ 115,933	\$ 124,475	\$ 131,293	\$ 138,673
<i>Depreciation:</i>										
Acquisition and Start-up:	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454	\$ 5,454
On-going Improvements:	\$ -	\$ 45	\$ 92	\$ 140	\$ 189	\$ 239	\$ 290	\$ 343	\$ 397	\$ 452
Interest on Debt:	\$ -	\$ -	\$ 21,594	\$ 21,362	\$ 21,113	\$ 20,844	\$ 20,556	\$ 20,246	\$ 19,912	\$ 19,553
Payment In Lieu of Taxes:	\$ 2,888	\$ 3,344	\$ 3,618	\$ 3,901	\$ 4,171	\$ 4,464	\$ 4,707	\$ 5,050	\$ 5,325	\$ 5,622
Public Purpose Program Fund:	\$ 3,610	\$ 4,180	\$ 4,522	\$ 4,876	\$ 5,213	\$ 5,580	\$ 5,884	\$ 6,313	\$ 6,656	\$ 7,027
Amortization of Debt Discount:	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153	\$ 153
Net Income before Other:	\$ 5,000	\$ 4,395	\$ 4,523	\$ 4,654	\$ 4,789	\$ 4,927	\$ 5,068	\$ 5,213	\$ 5,362	\$ 5,514
Other Income (Losses):	\$ -	\$ 730	\$ 730	\$ 730	\$ 730	\$ 730	\$ 730	\$ 730	\$ 730	\$ 730
Net Income:	\$ 5,000	\$ 5,125	\$ 5,253	\$ 5,384	\$ 5,519	\$ 5,657	\$ 5,798	\$ 5,943	\$ 6,092	\$ 6,244
CASH BASIS:										
Net Income:	\$ 5,000	\$ 5,125	\$ 5,253	\$ 5,384	\$ 5,519	\$ 5,657	\$ 5,798	\$ 5,943	\$ 6,092	\$ 6,244
Plus Depreciation/Amortization:	\$ 5,607	\$ 5,653	\$ 5,699	\$ 5,747	\$ 5,796	\$ 5,846	\$ 5,898	\$ 5,950	\$ 6,004	\$ 6,060
Less Principal on Debt:	\$ -	\$ -	\$ (3,131)	\$ (3,362)	\$ (3,612)	\$ (3,880)	\$ (4,168)	\$ (4,479)	\$ (4,812)	\$ (5,171)
Net Cash Flow before Capital Impr.:	\$ 10,607	\$ 10,778	\$ 7,822	\$ 7,769	\$ 7,703	\$ 7,623	\$ 7,528	\$ 7,415	\$ 7,284	\$ 7,133
System Improvements:	\$ (1,500)	\$ (1,538)	\$ (1,576)	\$ (1,615)	\$ (1,656)	\$ (1,697)	\$ (1,740)	\$ (1,783)	\$ (1,828)	\$ (1,873)
Net Cash Flow:	\$ 9,107	\$ 9,240	\$ 6,246	\$ 6,154	\$ 6,048	\$ 5,926	\$ 5,788	\$ 5,632	\$ 5,457	\$ 5,260
<i>Cumulative:</i>	\$ 9,107	\$ 18,348	\$ 24,594	\$ 30,748	\$ 36,795	\$ 42,721	\$ 48,510	\$ 54,142	\$ 59,598	\$ 64,858
Debt Service Coverage Ratio	-	-	1.65	1.67	1.69	1.71	1.73	1.76	1.78	1.80
SAVINGS / (LOSSES)										
Municipal Utility (\$/MWh of load):	\$ 62.88	\$ 70.11	\$ 89.55	\$ 93.45	\$ 96.96	\$ 100.49	\$ 103.51	\$ 107.92	\$ 110.97	\$ 113.97
Municipal Utility Cost (\$000's):	\$ 87,798	\$ 99,641	\$ 128,821	\$ 136,446	\$ 143,694	\$ 151,566	\$ 158,046	\$ 167,248	\$ 174,552	\$ 182,449
<i>Xcel Composite Retail Rate -</i>										
Boulder (\$/MWH):	\$ 88.87	\$ 91.59	\$ 94.31	\$ 99.76	\$ 105.20	\$ 107.01	\$ 109.73	\$ 110.64	\$ 114.27	\$ 115.17
Xcel Revenue from Boulder (\$000's):	\$ 124,096	\$ 130,167	\$ 135,674	\$ 145,654	\$ 155,902	\$ 161,408	\$ 167,537	\$ 171,456	\$ 179,734	\$ 184,379
Under / (over) Xcel (\$000's):	\$ 36,298	\$ 30,525	\$ 6,852	\$ 9,208	\$ 12,208	\$ 9,841	\$ 9,492	\$ 4,208	\$ 5,182	\$ 1,929

Model Assumptions

Transmission Losses:	5.00%
Annual load growth:	1.50%
Inflation:	2.50%
Public Purpose Program Fund:	5.00%
Payment in Lieu of Taxes (PILOT):	4.00%
Working Capital Requirement (Months):	5
Target Debt Service Coverage:	1.50
Stranded Cost Estimate (\$000's):	\$ -
System Acquisition Cost - RCNLD (\$000's)	\$ 121,251

	BOND:	TAXABLE	NON-TAXABLE
Project Fund (\$000's):	\$	176,450	\$ 45,500
Term (years)		30	30
Payments/year:		2	2
Interest Rate:		8.00%	5.76%
Debt Service Reserve:		10%	10%
Capitalized Interest (Years):		1.5	1.5
Interest Income:		1.50%	1.50%
Start Year:		2011	2011
Underwriting Cost (\$000's):	\$	2,292	\$ 566
Capitalized Interest Fund (\$000's):	\$	27,499	\$ 4,892
Debt Service Reserve Fund (\$000's):	\$	22,916	\$ 5,662
Bond Par Amount (\$000's):	\$	229,156	\$ 56,620

Energy Summary and Power Content Labels

		<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Energy Summary	Total Load (MWh):	1,396,324	1,421,132	1,438,528	1,460,106	1,482,007
	On-Peak:	883,892	885,414	911,811	925,439	940,690
	Off-Peak:	512,432	535,718	526,717	534,666	541,317
	Local Renewable (MWh):	45,639	45,688	45,639	45,639	45,639
	On-Peak:	27,151	27,076	27,890	27,582	27,635
	Off-Peak:	18,488	18,612	17,749	18,056	18,004
	Losses (MWh):	25,450	26,704	27,671	28,807	29,960
	On-Peak:	17,941	18,100	18,632	19,673	20,421
	Off-Peak:	7,510	8,604	9,039	9,134	9,539
	Network Requirement (MWh):	1,421,774	1,447,836	1,466,199	1,488,913	1,511,967
	On-Peak:	901,832	903,514	930,443	945,113	961,111
	Off-Peak:	519,941	544,322	535,756	543,800	550,856
	Off-Site Renewables (MWh):	-	-	-	-	-
	On-Peak:	-	-	-	-	-
	Off-Peak:	-	-	-	-	-
	Firming Resource (Nat. Gas, MWh):	-	-	-	-	-
	On-Peak:	-	-	-	-	-
	Off-Peak:	-	-	-	-	-
Capacity (MW):	-	-	-	-	-	
Supplemental Market (MWh):	1,421,788	1,447,863	1,466,220	1,488,903	1,511,976	
On-Peak:	901,831	903,498	930,447	945,130	961,121	
Off-Peak:	519,957	544,365	535,773	543,773	550,855	

Energy Summary and Power Content Labels

		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>
Energy Summary	Total Load (MWh):	1,508,337	1,526,801	1,549,703	1,572,948	1,600,894
	On-Peak:	975,526	967,862	982,919	997,013	1,015,096
	Off-Peak:	532,811	558,939	566,784	575,935	585,799
	Local Renewable (MWh):	45,688	45,639	45,639	45,639	45,688
	On-Peak:	27,832	27,672	27,676	27,890	27,683
	Off-Peak:	17,856	17,966	17,962	17,749	18,005
	Losses (MWh):	31,294	32,317	33,523	34,746	36,165
	On-Peak:	22,047	21,811	22,600	23,117	24,286
	Off-Peak:	9,247	10,506	10,923	11,629	11,879
	Network Requirement (MWh):	1,539,631	1,559,118	1,583,226	1,607,695	1,637,059
	On-Peak:	997,573	989,674	1,005,518	1,020,130	1,039,382
	Off-Peak:	542,058	569,445	577,707	587,565	597,678
	Off-Site Renewables (MWh):	-	-	-	-	-
	On-Peak:	-	-	-	-	-
	Off-Peak:	-	-	-	-	-
	Firming Resource (Nat. Gas, MWh):	-	-	-	-	-
	On-Peak:	-	-	-	-	-
	Off-Peak:	-	-	-	-	-
Capacity (MW):	-	-	-	-	-	
Supplemental Market (MWh):	1,539,605	1,559,107	1,583,240	1,607,683	1,637,033	
On-Peak:	997,564	989,659	1,005,531	1,020,111	1,039,363	
Off-Peak:	542,041	569,448	577,709	587,572	597,670	

Energy Summary and Power Content Labels

		<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	
POWER CONTENT LABELS	CITY OF BOULDER	<u>BOULDER POWER CONTENT LABEL:</u>					
		Renewable	18%	17%	20%	23%	25%
		Biomass & Waste / Other	0%	0%	0%	0%	0%
		Geothermal	0%	0%	0%	0%	0%
		Small hydroelectric	4%	4%	4%	4%	4%
		Solar electric	1%	1%	1%	4%	4%
		Wind	13%	12%	15%	15%	17%
		Coal	54%	52%	53%	51%	49%
		Large hydroelectric	0%	0%	0%	0%	0%
		Natural Gas	28%	31%	27%	26%	26%
	Nuclear	0%	0%	0%	0%	0%	
	Other	0%	0%	0%	0%	0%	
	<i>Total:</i>	100%	100%	100%	100%	100%	
	Emission Factor (lb CO2e / MWh)	1,430	1,407	1,384	1,333	1,300	
	XCEL ENERGY	<u>XCEL POWER CONTENT LABEL:</u>					
		Renewable	15%	14%	18%	21%	22%
		Biomass & Waste / Other	0%	0%	0%	0%	0%
		Geothermal	0%	0%	0%	0%	0%
		Small hydroelectric	1%	1%	1%	1%	1%
		Solar electric	1%	1%	1%	4%	4%
Wind		13%	13%	16%	16%	18%	
Coal		56%	54%	54%	52%	51%	
Large hydroelectric		0%	0%	0%	0%	0%	
Natural Gas		29%	32%	28%	27%	27%	
Nuclear	0%	0%	0%	0%	0%		
Other	0%	0%	0%	0%	0%		
<i>Total:</i>	100%	100%	100%	100%	100%		
Emission Factor (lb CO2e / MWh)	1,478	1,454	1,430	1,376	1,341		

Energy Summary and Power Content Labels

		<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	
POWER CONTENT LABELS	CITY OF BOULDER	<u>BOULDER POWER CONTENT LABEL:</u>					
		Renewable	26%	26%	28%	27%	39%
		Biomass & Waste / Other	0%	0%	0%	0%	0%
		Geothermal	0%	0%	0%	0%	0%
		Small hydroelectric	5%	5%	5%	5%	5%
		Solar electric	4%	4%	4%	4%	4%
		Wind	17%	17%	19%	18%	30%
		Coal	48%	48%	42%	43%	44%
		Large hydroelectric	0%	0%	0%	0%	0%
		Natural Gas	26%	26%	30%	31%	17%
	Nuclear	0%	0%	0%	0%	0%	
	Other	0%	0%	0%	0%	0%	
	<i>Total:</i>	100%	100%	100%	100%	100%	
	Emission Factor (lb CO2e / MWh)	1,276	1,281	1,184	1,206	1,104	
	XCEL ENERGY	<u>XCEL POWER CONTENT LABEL:</u>					
		Renewable	24%	24%	26%	24%	37%
		Biomass & Waste / Other	0%	0%	0%	0%	0%
		Geothermal	0%	0%	0%	0%	0%
		Small hydroelectric	2%	2%	2%	2%	2%
		Solar electric	4%	4%	4%	4%	4%
Wind		17%	17%	20%	18%	31%	
Coal		50%	50%	43%	44%	45%	
Large hydroelectric		0%	0%	0%	0%	0%	
Natural Gas		27%	27%	31%	31%	18%	
Nuclear	0%	0%	0%	0%	0%		
Other	0%	0%	0%	0%	0%		
<i>Total:</i>	100%	100%	100%	100%	100%		
Emission Factor (lb CO2e / MWh)	1,316	1,321	1,220	1,242	1,137		

ENERGY LOAD and SUPPLY SUMMARY								
		SUMMARY FOR:	2011	2012	2013	2014	2015	
ENERGY LOAD AND SUPPLY SUMMARY	CITY'S LOAD AND LOCAL RESOURCES	<u>RETAIL LOAD ENERGY:</u>						
		Peak Demand (MW):	236	239	243	246	250	
		Base Load (MW):	116	118	120	122	124	
		Total Energy (MWh):	1,396,324	1,421,132	1,438,528	1,460,106	1,482,007	
		On-Peak (MWh):	883,892	885,414	911,811	925,439	940,690	
		Off-Peak (MWh):	512,432	535,718	526,717	534,666	541,317	
		<u>LOCAL RENEWABLE GENERATION:</u>						
		Total Energy (MWh):	45,639	45,688	45,639	45,639	45,639	
		On-Peak (MWh):	27,151	27,076	27,890	27,582	27,635	
		Off-Peak (MWh):	18,488	18,612	17,749	18,056	18,004	
ENERGY LOAD AND SUPPLY SUMMARY	RESOURCES WHEELED TO THE CITY BY TRANSMISSION LINES	<u>OFF-SITE RENEWABLE RESOURCES:</u>						
		Total Energy (MWh):	-	-	-	-	-	
		On-Peak (MWh):	-	-	-	-	-	
		Off-Peak (MWh):	-	-	-	-	-	
		<u>FIRMING RESOURCE (NAT. GAS):</u>						
		Capacity (MW):	0	0	0	0	0	
		Total Energy (MWh):	-	-	-	-	-	
		On-Peak (MWh):	-	-	-	-	-	
		Off-Peak (MWh):	-	-	-	-	-	
		<u>MARKET RESOURCE (GRID):</u>						
Total Energy (MWh):	1,421,788	1,447,863	1,466,220	1,488,903	1,511,976			
On-Peak (MWh):	901,831	903,498	930,447	945,130	961,121			
Off-Peak (MWh):	519,957	544,365	535,773	543,773	550,855			

ENERGY LOAD and SUPPLY SUMMARY							
SUMMARY FOR:							
	2016	2017	2018	2019	2020		
ENERGY LOAD AND SUPPLY SUMMARY	CITY'S LOAD AND LOCAL RESOURCES	<u>RETAIL LOAD ENERGY:</u>					
		Peak Demand (MW):	254	258	261	265	269
		Base Load (MW):	125	127	129	131	133
		Total Energy (MWh):	1,508,337	1,526,801	1,549,703	1,572,948	1,600,894
		On-Peak (MWh):	975,526	967,862	982,919	997,013	1,015,096
		Off-Peak (MWh):	532,811	558,939	566,784	575,935	585,799
		<u>LOCAL RENEWABLE GENERATION:</u>					
		Total Energy (MWh):	45,688	45,639	45,639	45,639	45,688
		On-Peak (MWh):	27,832	27,672	27,676	27,890	27,683
		Off-Peak (MWh):	17,856	17,966	17,962	17,749	18,005
ENERGY LOAD AND SUPPLY SUMMARY	RESOURCES WHEELED TO THE CITY BY TRANSMISSION LINES	<u>OFF-SITE RENEWABLE RESOURCES:</u>					
		Total Energy (MWh):	-	-	-	-	-
		On-Peak (MWh):	-	-	-	-	-
		Off-Peak (MWh):	-	-	-	-	-
		<u>FIRMING RESOURCE (NAT. GAS):</u>					
		Capacity (MW):	0	0	0	0	0
		Total Energy (MWh):	-	-	-	-	-
		On-Peak (MWh):	-	-	-	-	-
		Off-Peak (MWh):	-	-	-	-	-
		<u>MARKET RESOURCE (GRID):</u>					
Total Energy (MWh):	1,539,605	1,559,107	1,583,240	1,607,683	1,637,033		
On-Peak (MWh):	997,564	989,659	1,005,531	1,020,111	1,039,363		
Off-Peak (MWh):	542,041	569,448	577,709	587,572	597,670		

ENERGY LOAD and SUPPLY SUMMARY		SUMMARY FOR:					
		2011	2012	2013	2014	2015	
ENERGY COST SUMMARY	RESOURCES WHEELED TO THE CITY BY TRANSMISSION LINES	<u>OFF-SITE RENEWABLE RESOURCES:</u>					
		Wind: \$	-	\$ -	\$ -	\$ -	\$ -
		Solar: \$	-	\$ -	\$ -	\$ -	\$ -
		Other: \$	-	\$ -	\$ -	\$ -	\$ -
		Total: \$	-	\$ -	\$ -	\$ -	\$ -
		On-Peak: \$	-	\$ -	\$ -	\$ -	\$ -
		Off-Peak: \$	-	\$ -	\$ -	\$ -	\$ -
		<u>FIRMING RESOURCE (NAT. GAS):</u>					
		Capacity Reserve: \$	-	\$ -	\$ -	\$ -	\$ -
		Total Energy: \$	-	\$ -	\$ -	\$ -	\$ -
On-Peak: \$	-	\$ -	\$ -	\$ -	\$ -		
Off-Peak: \$	-	\$ -	\$ -	\$ -	\$ -		
<u>MARKET RESOURCE (GRID):</u>							
Total Energy: \$	50,468,822	\$ 61,225,370	\$ 67,402,214	\$ 73,786,002	\$ 79,848,638		
On-Peak: \$	36,727,723	\$ 42,415,305	\$ 47,714,051	\$ 52,359,344	\$ 56,695,986		
Off-Peak: \$	13,741,099	\$ 18,810,065	\$ 19,688,163	\$ 21,426,658	\$ 23,152,652		
<u>TRANSMISSION CHARGES:</u>							
Network Integration (NITS): \$	6,613,270	\$ 6,890,179	\$ 7,163,382	\$ 7,461,928	\$ 7,740,105		
Ancillary Services (A/S):	Included In Network Integration Charges						
Total Transmission: \$	6,613,270	\$ 6,890,179	\$ 7,163,382	\$ 7,461,928	\$ 7,740,105		
TOTAL WHOLESALE ENERGY:		\$ 57,082,092	\$ 68,115,549	\$ 74,565,596	\$ 81,247,929	\$ 87,588,742	

ENERGY LOAD and SUPPLY SUMMARY												
		SUMMARY FOR:					2016	2017	2018	2019	2020	
ENERGY COST SUMMARY	RESOURCES WHEELED TO THE CITY BY TRANSMISSION LINES	<u>OFF-SITE RENEWABLE RESOURCES:</u>										
		Wind:	\$	-	\$	-	\$	-	\$	-	\$	-
		Solar:	\$	-	\$	-	\$	-	\$	-	\$	-
		Other:	\$	-	\$	-	\$	-	\$	-	\$	-
		Total:	\$	-	\$	-	\$	-	\$	-	\$	-
		On-Peak:	\$	-	\$	-	\$	-	\$	-	\$	-
		Off-Peak:	\$	-	\$	-	\$	-	\$	-	\$	-
		<u>FIRMING RESOURCE (NAT. GAS):</u>										
		Capacity Reserve:	\$	-	\$	-	\$	-	\$	-	\$	-
		Total Energy:	\$	-	\$	-	\$	-	\$	-	\$	-
On-Peak:	\$	-	\$	-	\$	-	\$	-	\$	-		
Off-Peak:	\$	-	\$	-	\$	-	\$	-	\$	-		
<u>MARKET RESOURCE (GRID):</u>												
Total Energy:	\$	86,433,918	\$	91,762,348	\$	99,570,965	\$	105,610,343	\$	112,210,134		
On-Peak:	\$	62,293,360	\$	65,146,401	\$	71,280,471	\$	74,984,433	\$	79,836,742		
Off-Peak:	\$	24,140,558	\$	26,615,947	\$	28,290,494	\$	30,625,909	\$	32,373,392		
<u>TRANSMISSION CHARGES:</u>												
Network Integration (NITS):	\$	8,068,749	\$	8,386,422	\$	8,724,994	\$	9,098,961	\$	9,461,938		
Ancillary Services (A/S):												
Total Transmission:	\$	8,068,749	\$	8,386,422	\$	8,724,994	\$	9,098,961	\$	9,461,938		
TOTAL WHOLESALE ENERGY:		\$	94,502,667	\$	100,148,770	\$	108,295,959	\$	114,709,304	\$	121,672,072	

ENERGY LOAD and SUPPLY SUMMARY							
		SUMMARY FOR:					
		2011	2012	2013	2014	2015	
ENERGY COST SUMMARY	LOCAL RESOURCES AND CITY RATES	<u>LOCAL RENEWABLE PORTFOLIO:</u>					
		Local Hydro-power: \$	2,081,118	\$ 2,135,454	\$ 2,186,475	\$ 2,241,137	\$ 2,297,165
		Local Wind: \$	-	\$ -	\$ -	\$ -	\$ -
		Local Solar: \$	-	\$ -	\$ -	\$ -	\$ -
		Local (other): \$	-	\$ -	\$ -	\$ -	\$ -
		Total: \$	2,081,118	\$ 2,135,454	\$ 2,186,475	\$ 2,241,137	\$ 2,297,165
		<u>TOTAL ENERGY COST TO CITY:</u>					
		Total Cost: \$	59,163,210	\$ 70,251,002	\$ 76,752,071	\$ 83,489,066	\$ 89,885,908
		On-Peak: \$	42,154,454	\$ 47,975,608	\$ 53,592,004	\$ 58,443,222	\$ 63,000,847
		Off-Peak: \$	17,008,756	\$ 22,275,395	\$ 23,160,068	\$ 25,045,844	\$ 26,885,061
On-Peak Rate (\$/MWh):	47.69	54.18	58.78	63.15	66.97		
Off-Peak Rate (\$/MWh):	33.19	41.58	43.97	46.84	49.67		
Average rate (\$/MWh of load): \$		42.37	\$ 49.43	\$ 53.35	\$ 57.18	\$ 60.65	

ENERGY LOAD and SUPPLY SUMMARY							
		SUMMARY FOR:					
		2016	2017	2018	2019	2020	
ENERGY COST SUMMARY	LOCAL RESOURCES AND CITY RATES	<u>LOCAL RENEWABLE PORTFOLIO:</u>					
		Local Hydro-power:	\$ 2,357,141	\$ 2,413,459	\$ 2,473,796	\$ 2,535,641	\$ 2,601,843
		Local Wind:	\$ -	\$ -	\$ -	\$ -	\$ -
		Local Solar:	\$ -	\$ -	\$ -	\$ -	\$ -
		Local (other):	\$ -	\$ -	\$ -	\$ -	\$ -
		Total:	\$ 2,357,141	\$ 2,413,459	\$ 2,473,796	\$ 2,535,641	\$ 2,601,843
		<u>TOTAL ENERGY COST TO CITY:</u>					
		Total Cost:	\$ 96,859,809	\$ 102,562,229	\$ 110,769,754	\$ 117,244,944	\$ 124,273,915
		On-Peak:	\$ 68,950,278	\$ 71,929,797	\$ 78,316,261	\$ 82,302,709	\$ 87,413,988
		Off-Peak:	\$ 27,909,531	\$ 30,632,432	\$ 32,453,493	\$ 34,942,236	\$ 36,859,927
On-Peak Rate (\$/MWh):	70.68	74.32	79.68	82.55	86.11		
Off-Peak Rate (\$/MWh):	52.38	54.80	57.26	60.67	62.92		
Average rate (\$/MWh of load):		\$ 64.22	\$ 67.17	\$ 71.48	\$ 74.54	\$ 77.63	

RENEWABLE RESOURCES SUMMARY												
SUMMARY FOR:		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
RENEWABLE RESOURCES SUMMARY	LOCAL RENEWABLES	<u>LOCAL RENEWABLE PORTFOLIO:</u>										
		Local Hydro-power:	3.27%	3.21%	3.17%	3.13%	3.08%	3.03%	2.99%	2.94%	2.90%	2.85%
		Local Wind:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
		Local Solar:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
		Local (other):	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
		Fraction of load (Total):	3.27%	3.21%	3.17%	3.13%	3.08%	3.03%	2.99%	2.94%	2.90%	2.85%
	Fraction of load (On-Peak):	3.07%	3.06%	3.06%	2.98%	2.94%	2.85%	2.86%	2.82%	2.80%	2.73%	
	Fraction of load (Off-Peak):	3.61%	3.47%	3.37%	3.38%	3.33%	3.35%	3.21%	3.17%	3.08%	3.07%	
	OFF-SITE RENEWABLE	<u>OFF-SITE RENEWABLE PORTFOLIO:</u>										
		Wind:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
		Solar:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
		Other:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fraction of load (Total):		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Fraction of load (On-Peak):		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Fraction of load (Off-Peak):	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
TOTAL RENEWABLES	<u>TOTAL RENEWABLE PORTFOLIO:</u>											
	Hydro:	3.27%	3.21%	3.17%	3.13%	3.08%	3.03%	2.99%	2.94%	2.90%	2.85%	
	Wind:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Solar:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Other:	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	Fraction of load (Total):	3.27%	3.21%	3.17%	3.13%	3.08%	3.03%	2.99%	2.94%	2.90%	2.85%	
Fraction of load (On-Peak):	3.07%	3.06%	3.06%	2.98%	2.94%	2.85%	2.86%	2.82%	2.80%	2.73%		
Fraction of load (Off-Peak):	3.61%	3.47%	3.37%	3.38%	3.33%	3.35%	3.21%	3.17%	3.08%	3.07%		