

## READING MUNICIPAL LIGHT DEPARTMENT

BOARD OF COMMISSIONERS

**REGULAR SESSION** 

**JANUARY 31, 2017** 

## READING MUNICIPAL LIGHT DEPARTMENT BOARD OF COMMISSIONERS MEETING

230 Ash Street Reading, MA 01867 January 31, 2017 7:30 p.m.

- 1. Call Meeting to Order
- 2. Opening Remarks
  - a. Condolences on the passing of former Commission member Frederick J. Nemurgut
- 3. Introductions
- 4. Public Comment
  - RMLD Citizens' Advisory Board Dennis Kelley
  - Liaisons to RMLD Board
  - Public Comment
- 5. Report of the Committee
  - a. General Manager Committee Chairman O'Rourke
  - b. Policy Committee Commissioner Hennessy

**ACTION ITEMS** 

- i. RMLD Policy No. 1 Revision No. 3 Community Relations
- ii. RMLD Policy No. 3 Revision No. 2 Safety Committee
- iii. RMLD Policy No. 15 Revision No. 3 Sexual Harassment
- iv. RMLD Policy No. 16 Revision No. 2 Violence Prevention in the Workplace
- v. RMLD Policy No. 19 Revision No. 13 Board of Commissioners
- 6. Report RMLD Board Member Attendance at Citizens' Advisory Board (CAB) Meeting Note: There was no CAB meeting in December.
- 7. General Manager's Report Ms. O'Brien
  - a. Burlington Electric Security Breach
  - APPA 2017 Legislative Rally Travel Approval
     February 26 through March 1, 2017; Washington DC
     Note: Board approval is required for overnight travel.

**ACTION ITEM** 

- 8. Power Supply Report November 2016 Ms. Parenteau (Attachment 1)
- 9. Financial Report 2016 November 2016 Ms. Markiewicz (Attachment 2)
- 10. Engineering and Operations Report November 2016 Mr. Jaffari (Attachment 3)
- 11. RMLD Procurement Request Requiring Board Approval Mr. Jaffari (Attachment 4) ACTION ITEM
  - a. IFP 2017-31 Fiberglass Poles and Spare Handhole Covers

**Suggested Motion:** 

Move that proposal 2017-31 for: Fiberglass Poles and Spare Handhole Covers be awarded to: Irby for \$26,740.40 pursuant to Chapter 164 § 56D on the recommendation of the General Manager.

#### 12. General Discussion

#### **RMLD Board Meetings**

Art Award Ceremonies: Thursday, February 9 and Thursday, February 16 at 7:00 p.m. Thursday, February 23, 2017 Thursday, March 30, 2017

#### **CAB Meeting**

To be determined.

BOARD MATERIAL AVAILABLE BUT NOT DISCUSSED E-Mail responses to Account Payable/Payroll Questions Rate Comparison, January 2017

#### 13. Executive Session ACTION ITEM

#### **Suggested Motion:**

Move that the Board go into Executive Session to discuss the deployment of security personnel or devices, or strategies with respect thereto; to consider the purchase of real property and to discuss strategy with respect to collective bargaining and return to Regular Session for the sole purpose of adjournment.

14. Adjournment ACTION ITEM

Move to adjourn to Regular Session

## POWER SUPPLY REPORT NOVEMBER, 2016 ATTACHMENT 1

# Integrated Resources

January 31, 2017

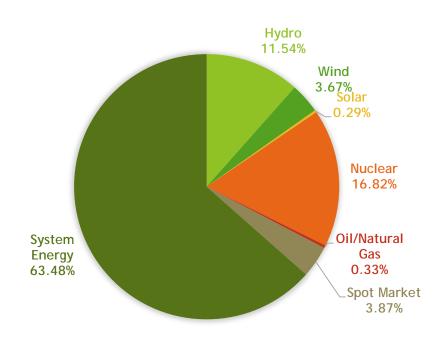
RMLD Board of Commissioners Meeting

Reporting for November, 2016

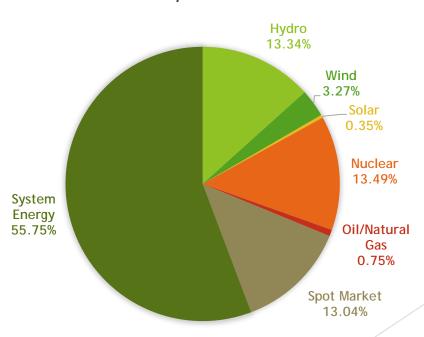
Jane Parenteau
Director of Integrated
Resources

## PURCHASE POWER by Resource

November, 2016

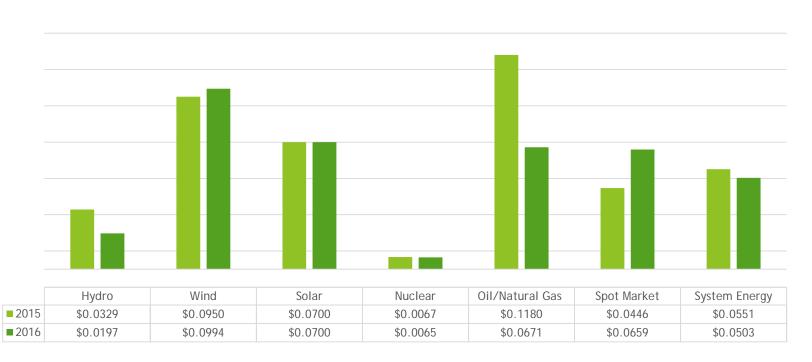


November, 2015



# **ENERGY COST per Resource**

November 2015 vs. November 2016



To:

Coleen O'Brien

From:

Maureen McHugh, Jane Parenteau

Date:

January 13, 2017

Subject:

Purchase Power Summary - November, 2016

Energy Services Division (ESD) has completed the Purchase Power Summary for the month of November, 2016.

#### **ENERGY**

The RMLD's total metered load for the month was 52,057,363 kWh, which is a 1.03% decrease from the November, 2015 figures.

Table 1 is a breakdown by source of the energy purchases.

		Table 1			
	Amount of	Cost of	% of Total	Total \$	\$ as a
Resource	Energy	Energy	Energy	Costs	%
	(kWh)	(\$/Mwh)			
Millstone #3	3,581,534	\$6.72	6.86%	\$24,074	0.95%
Seabrook	5,721,488	\$6.32	10.96%	\$36,159	1.42%
Stonybrook Intermediate	0	\$0.00	0.00%	\$11,753	0.46%
Shell Energy	10,324,830	\$64.39	19.77%	\$664,799	26.12%
NYPA	2,479,320	\$4.92	4.75%	\$12,198	0.48%
ISO Interchange	2,139,900	\$65.94	4.10%	\$141,113	5.54%
NEMA Congestion	0	\$0.00	0.00%	\$285,554	11.22%
Coop Resales	12,487	\$121.70	0.02%	\$1,520	0.06%
BP Energy	8,044,930	\$46.90	15.41%	\$377,307	14.82%
Hydro Projects*	789,186	\$66.29	1.51%	\$52,315	2.06%
Braintree Watson Unit	181,355	\$2.34	0.35%	\$425	0.02%
Saddleback/Jericho Wind	2,032,070	\$99.45	3.89%	\$202,083	7.94%
One Burlington Solar	159,134	\$70.00	0.30%	\$11,139	0.44%
Exelon	16,751,180	\$43.28	32.08%	\$724,959	28.48%
Stonybrook Peaking	0	\$0.00	0.00%	\$0	0.00%
Monthly Total	52,217,414	\$48.75	100.00%	\$2,545,398	100.00%

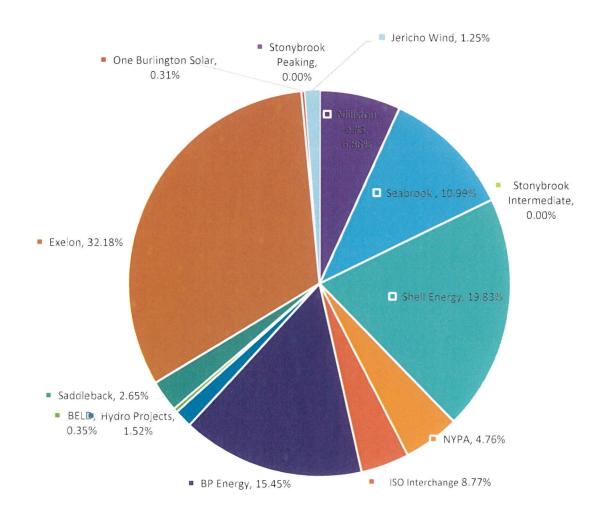
<sup>\*</sup>Pepperell, Woronoco,Indian River,Turner Falls,Collins, Pioneer,Hosiery Mills, Summit Hydro

Table 2 breaks down the ISO interchange between the DA LMP Settlement and the RT Net Energy for the month of November, 2016.

Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy
ISO DA LMP * Settlement	5,577,551	\$40.73	10.68%
RT Net Energy ** Settlement	(3,437,652)	\$25.05	-6.58%
ISO Interchange (subtotal)	2,139,900	\$65.93	4.10%

<sup>\*</sup> Independent System Operator Day-Ahead Locational Marginal Price

## **NOVEMBER 2016 ENERGY BY RESOURCE**



<sup>\*\*</sup> Real Time Net Energy

## **CAPACITY**

The RMLD hit a demand of 95,704 kW, which occurred on November 21, at 6 pm. The RMLD's monthly UCAP requirement for November, 2016 was 232,348 kWs.

Table 3 shows the sources of capacity that the RMLD utilized to meet its requirements.

Table 3

Source	Amount (kWs)	Cost (\$/kW-month)	Total Cost \$	% of Total Cost
Millstone #3	4,950	33.39	\$165,285	10.14%
Seabrook	7,909	36.42	\$288,075	17.67%
Stonybrook Peaking	24,981	2.76	\$69,008	4.23%
Stonybrook CC	42,925	7.08	\$303,904	18.64%
NYPA	0	0.00	\$7,209	0.44%
Hydro Quebec	0	0	\$449	0.03%
Nextera	60,000	6.15	\$369,000	22.63%
Braintree Watson Unit	0	0.00	-\$92,705	-5.69%
ISO-NE Supply Auction	91,583	5.68	\$520,018	31.90%
Total	232,348	\$7.02	\$1,630,243	100.00%

Table 4 shows the dollar amounts for energy and capacity per source.

				Table 4			Cost of
					% of	Amt of Energy	Power
	Resource	Energy	Capacity	Total cost	Total Cost	(kWh)	(\$/kWh)
	Millstone #3	\$24,074	\$165,285	\$189,359	4.53%	3.581.534	0.0529
	Seabrook	\$36,159	\$288,075	\$324,235	7.76%	10. • 10.000 on • 10.000 N	0.0567
	Stonybrook Intermediate	\$11,753	\$303,904	\$315,657	7.56%	-	0.0000
	Hydro Quebec	\$0	\$449	\$449	0.01%	-	0.0000
	Shell Energy	\$664,799	\$0	\$664,799	15.92%	10,324,830	0.0644
	NextEra	\$0	\$369,000	\$369,000	8.84%	-	0.0000
*	NYPA	\$12,198	\$7,209	\$19,407	0.46%	2,479,320	0.0078
	ISO Interchange	\$141,113	\$520,018	\$661,130	15.83%	2,139,900	0.3090
	Nema Congestion	\$285,554	\$0	\$285,554	6.84%	-	0.0000
	BP Energy	\$377,307	\$0	\$377,307	9.04%	8,044,930	0.0469
*	Hydro Projects	\$52,315	\$0	\$52,315	1.25%	789,186	0.0663
	Braintree Watson Unit	\$425	-\$92,705	-\$92,281	-2.21%	181,355	-0.5088
*	Saddleback/Jericho	\$202,083	\$0	\$202,083	4.84%	2,032,070	0.0994
*	One Burlington Solar	\$11,139	\$0	\$11,139	0.27%	159,134	0.0700
	Coop Resales	\$1,520	\$0	\$1,520	0.04%	12,487	0.1217
	Exelon Energy	\$724,959	\$0	\$724,959	17.36%	16,751,180	0.0433
	Stonybrook Peaking	\$0	\$69,008	\$69,008	1.65%	-	0.0000
	Monthly Total	\$2,545,398	\$1,630,243	\$4,175,641	100.00%	52,217,414	0.0800
		42,010,000	Ψ1,000,240	Ψ1, 170,041	100.0076	02,217,414	0.0000

<sup>\*</sup> Renewable Resources

## **RENEWABLE ENERGY CERTIFICATES (RECs)**

Table 5 shows the amount of banked and projected RECs for the Swift River Hydro Projects through November 2016, as well as their estimated market value.

Table 5
RECs Summary
Period - January 2016 - September 2016

	Banked	Projected	Total	Est.
	RECs	RECs	RECs	Dollars
Woronoco	0	8,678	8,678	\$216,950
Pepperell	0	5,605	5,605	\$140,125
Indian River	0	1,857	1,857	\$46,425
Turners Falls	0	1,135	1,135	\$28,375
Saddle back	0	7,254	7,254	\$181,350
Jericho	0	5,040	5,040	\$126,000
Sub total	0	29,569	29,569	739,225
RECs Sold	\$0		0	\$0
<b>Grand Total</b>	0	29,569	29,569	\$739,225

### **TRANSMISSION**

The RMLD's total transmission costs for the month of November, 2016 were \$865,917. This is a decrease of 29.95% from the October transmission cost of \$1,236,067. In November, 2015 the transmission costs were \$806,354.

Table 6

	Current Month	Last Month	Last Year
Peak Demand (kW)	106,927	91,673	99,819
Energy (kWh)	52,217,414	52,590,960	52,857,245
Energy (\$)	\$2,545,398	\$2,463,471	\$2,489,548
Capacity (\$)	\$1,630,243	\$1,745,945	\$1,553,714
Transmission(\$)	\$865,917	\$1,236,067	\$806,354
Total	\$5,041,558	\$5,445,482	\$4,849,617

## FINANCIAL REPORT NOVEMBER, 2016 ATTACHMENT 2

#### Reading Municipal Light Deptartment Statement of Net Assets November 30, 2016

	2016	2017
ASSETS		
CURRENT		
UNRESTRICTED CASH	\$ 13,678,729.92	\$ 14,482,164.40
RESTRICTED CASH	23,113,271.56	22,954,343.33
RESTRICTED INVESTMENTS	1,284,061.45	1,345,663.06
RECEIVABLES, NET	7,454,839,79	9,592,381.08
PREPAID EXPENSES	1,611,014.31	1,126,193.95
INVENTORY	1,663,281.00	1,639,843.28
OTHER	1,547,815.00	6,338,218.00
TOTAL CURRENT ASSETS	50,353,013.03	57,478,807.10
		1
NONOVERSE		
NONCURRENT	00 000 75	22 222 75
INVESTMENT IN ASSOCIATED CO CAPITAL ASSETS, NET	26,993.75	26,993.75
TOTAL CAPITAL ASSETS, NET	70,252,378.65	72,873,194.92
TOTAL CAPITAL ASSETS, NET	70,279,372.40	72,900,188.67
TOTAL ASSETS	120,632,385.43	130,378,995.77
LIABILITIES		
CURRENT		
ACCOUNTS PAYABLE	9,514,232.95	6,258,887.39
CUSTOMER DEPOSITS	903,399.18	1,013,683.17
CUSTOMER ADAVANCES FOR CONSTRUCTION	904,439.15	1,003,670.84
ACCRUED LIABILITIES	3,057,822.03	9,290,841.39
CURRENT PORTION OF BONDS PAYABLE TOTAL CURRENT LIABILITIES	14 270 000 24	47.507.000.70
TOTAL CORRENT LIABILITIES	14,379,893.31	17,567,082.79
NONCURRENT		
ACCRUED EMPLOYEE COMPENSATED BALANCES	3,070,487.93	3,257,809.00
DEFERRED INFLOWS-PENSION PLAN	-	883,172.00
TOTAL NONCURRENT LIABILITIES	3,070,487.93	4,140,981.00
		4.9
TOTAL LIABILITIES	17,450,381.24	21,708,063.79-
NET ASSETS		
INVESTED IN CAPITAL ASSETS, NET OF RELATED DEBT	70,252,378.65	72,873,194.92
RESTRICTED FOR DEPRECIATION FUND	6,508,973.15	5,398,965.79
UNRESTRICTED	26,420,652.39	30,398,771.27
TOTAL NET ASSETS	103,182,004.19	108,670,931.98
TOTAL LIABILITIES AND NET ASSETS	\$ 120,632,385.43	\$ 130,378,995.77

#### TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT SCHEDULE OF CASH AND INVESTMENTS 11/30/16

SCHEDULE A

	PREVIOUS YEAR	CURRENT YEAR
UNRESTRICTED CASH		
CASH - OPERATING FUND CASH - PETTY CASH	13,675,729.91 3,000.00	14,479,164.39 3,000.00
TOTAL UNRESTRICTED CASH	13,678,729.91	14,482,164.39
RESTRICTED CASH		
CASH - DEPRECIATION FUND CASH - CONSTRUCTION FUND CASH - TOWN PAYMENT CASH - DEFERRED FUEL RESERVE CASH - RATE STABILIZATION FUND CASH - UNCOLLECTIBLE ACCTS RESERVE CASH - SICK LEAVE BENEFITS CASH - HAZARD WASTE RESERVE CASH - CUSTOMER DEPOSITS CASH - ENERGY CONSERVATION TOTAL RESTRICTED CASH	6,508,973.15 0.00 1,577,685.00 4,451,648.54 6,792,422.72 200,000.00 1,798,459.74 150,000.00 903,399.18 730,683.23	5,398,965.79 0.00 1,583,611.65 5,040,513.53 6,843,853.44 200,000.00 1,933,143.36 150,000.00 1,013,683.17 790,572.39
INVESTMENTS		
SICK LEAVE BUYBACK	1,284,061.45	1,345,663.06
TOTAL CASH BALANCE	38,076,062.92	38,782,170.78

#### TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT SALES OF KILOWATT HOURS 11/30/16

SALES OF ELECTRICITY:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
RESIDENTIAL SALES COMM. AND INDUSTRIAL SALES PRIVATE STREET LIGHTING	17,009,576 32,102,880 79,418	16,690,734 29,815,636 89,171	115,575,544 179,106,929 397,360	101,099,034 145,842,269 365,416	-12.53% -18.57% -8.04%
TOTAL PRIVATE CONSUMERS	49,191,874	46,595,541	295,079,833	247,306,719	-16.19%
				2 9 5	
MUNICIPAL SALES:					
STREET LIGHTING MUNICIPAL BUILDINGS	222,241 752,346	186,335 685,159	1,159,623 3,870,941	878,561 3,016,961	-24.24% -22.06%
TOTAL MUNICIPAL CONSUMERS	974,587	871,494	5,030,564	3,895,522	-22.56%
SALES FOR RESALE	203,175	168,708	1,522,735	1,250,761	-17.86%
SCHOOL	1,259,857	1,164,732	5,851,984	4,347,914	-25.70%
TOTAL KILOWATT HOURS SOLD	51,629,493	48,800,475	307,485,116	256,800,916	-16.48%



#### Reading Municipal Light Department Schedule of Operating Expenses For the Five Months Ending Wednesday, November 30, 2016

	MONTH	MONTH	YTD	YTD	
	LY	CY	LY	CY	
OPERATING EXPENSES:	el .				
PURCHASED POWER CAPACITY	\$ 1,556,484.47	\$ 1,634,731.43	\$ 7,618,471.87	\$ 8,470,768.06	
PURCHASED POWER TRANSMISSION	806,354.28	865,916.73	5,857,669.10	6,227,690.59	
· · · · · · · · · · · · · · · · · · ·	000,004.20	005,510.75	5,057,009.10	0,227,090.39	
TOTAL PURCHASED POWER	2,362,838.75	2,500,648.16	13,476,140.97	14,698,458.65	
				a, et s	
OPERATION SUP AND ENGINEERING EXP	42,900.84	41,165.21	221,618.40	201,724.34	
STATION SUP LABOR AND MISC	12,452.40	15,293.80	61,030.43	60,321.94	
LINE MISC LABOR AND EXPENSE	62,349.86	61,820.80	306,507.10	254,676.27	
STATION LABOR AND EXPENSE	30,028.90	48,117.33	163,116.66	209,980.06	
STREET LIGHTING EXPENSE	10,759.04	10,473.75	46,245.46	53,112.16	
METER EXPENSE	18,041.00	23,409.52	90,174.17	87,398.74	
MISC DISTRIBUTION EXPENSE	31,494.31	34,407.15	179,718.50	163,806.61	
METER READING LABOR AND EXPENSE	1,046.21	1,201.27	12,535.86	11,178.17	
ACCT & COLL LABOR AND EXPENSE	126,190.27	136,058.09	668,205.88	709,476.52	
UNCOLLECTIBLE ACCOUNTS	10,000.00	12,500.00	50,000.00	62,500.00	
ENERGY AUDIT EXPENSE	47,185.30	64,057.21	232,149.26	The contract of the contract o	
ADMIN & GEN SALARIES	72,476.27	87,911.57	356,960.00	206,061.34	
OFFICE SUPPLIES AND EXPENSE			No. 1000000 10000000000000000000000000000	405,719.33	
OUTSIDE SERVICES	10,883.75	28,849.77	111,631.94	106,394.17	
	41,607.44	83,949.18	159,544.94	196,820.19	
PROPERTY INSURANCE	31,242.39	27,632.72	156,211.95	138,635.60	
INJURIES AND DAMAGES	2,986.02	6,071.09	CONSTRUCTO DOCAL BROWN	23,199.77	
EMPLOYEES PENSIONS AND BENEFITS	142,683.08	239,841.95	1,062,397.32	1,246,717.32	Sine!
MISC GENERAL EXPENSE	16,270.47	15,972.63	61,631.59	57,468.14	
RENT EXPENSE	13,816.91	13,883.02	71,593.24	69,140.89	
ENERGY CONSERVATION	21,621.51	66,571.16	155,274.16	225,869.79	
TOTAL OPERATION EXPENSES	746,035.97	1,019,187.22	4,185,225.35	4,490,201.35	
				a <sup>2</sup>	
MAINTENANCE EXPENSES:					
MAINT OF TRANSMISSION PLANT	227.08	227.08	1,135.40	1,135.40	
MAINT OF STRUCT AND EQUIPMENT	30,059.78	59,463.20	145,412.49	213,428.76	
MAINT OF LINES - OH	74,849.27	213,586.58	673,443.80	765,119.12	
MAINT OF LINES - UG	1,124.29	13,536.23	49,675.76	129,772.26	
MAINT OF LINE TRANSFORMERS	11,598.86	10,000.20	79,916.66	21,950.95	
MAINT OF ST LT & SIG SYSTEM	(60.03)	(55.08)	(304.13)		
MAINT OF GARAGE AND STOCKROOM	32,573.78	33,434.47	211,366.38	214,344.87	
MAINT OF GEN PLANT	12,058.90	17,570.30	48,095.86	104,613.37	
	12,000.50	17,570.50	40,095.00	104,013.37	
TOTAL MAINTENANCE EXPENSES	162,431.93	337,762.78	1,208,742.22	1,520,859.18	
DEPRECIATION EXPENSE	328,732.65	341,775.67	1,643,663.25	1,708,878.35	
PURCHASED POWER FUEL EXPENSE	2,489,548.12	2,545,398.43	15,098,143.47	14,189,496.10	
VOLUNTARY PAYMENTS TO TOWN	118,000.00	118,000.00	590,000.00	590,000.00	
TOTAL OPERATING EXPENSES	\$ 6,207,587.42	\$ 6,862,772.26	\$36,201,915.26	\$37,197,893.63	

#### Reading Municipal Light Department Schedule of Operating Expenses November 30, 2016

OPERATING EXPENSES:	ANN	2017 UAL BUDGET	YE	ACTUAL EAR TO DATE		REMAINING BUDGET BALANCE	AINING GET %
PURCHASED POWER CAPACITY	\$	20.943.651.00	\$	8,470,768.06	\$	12,472,882.94	59.55%
PURCHASED POWER TRANSMISSION		13,378,627.00	•	6,227,690.59	•	7,150,936.41	53.45%
TOTAL PURCHASED POWER		34,322,278.00		14,698,458.65		19,623,819.35	57.18%
OPERATION SUP AND ENGINEERING EXP		655,195.00		201,724.34		453,470.66	69.21%
STATION SUP LABOR AND MISC LINE MISC LABOR AND EXPENSE		91,269.00 901,213.00		60,321.94 254,676.27		30,947.06 646.536.73	33.91% 71.74%
STATION LABOR AND EXPENSE		472,879.00		209.980.06		262,898.94	55.60%
STREET LIGHTING EXPENSE		102,402.00		53,112.16		49,289.84	48.13%
METER EXPENSE		205,717.00		87,398.74		118,318.26	57.52%
MISC DISTRIBUTION EXPENSE		464,418.00		163,806.61		300,611.39	64.73%
METER READING LABOR AND EXPENSE		32,640.00		11,178.17		21,461.83	65.75%
ACCT & COLL LABOR AND EXPENSE UNCOLLECTIBLE ACCOUNTS		1,792,724.00 150,000.00		709,476.52 62,500.00		1,083,247.48 87,500.00	60.42%
ENERGY AUDIT EXPENSE		1,501,806.00		206.061.34		1,295,744.66	58.33% 86.28%
ADMIN & GEN SALARIES		1,134,674.00		405,719.33		728,954.67	64.24%
OFFICE SUPPLIES AND EXPENSE		349,000.00		106,394.17		242,605.83	69.51%
OUTSIDE SERVICES		418,100.00		196,820.19		221,279.81	52.93%
PROPERTY INSURANCE		424,500.00		138,635.60		285,864.40	67.34%
INJURIES AND DAMAGES EMPLOYEES PENSIONS AND BENEFITS		57,215.00 2,922,673.00		23,199.77 1,246,717.32		34,015.23 1,675,955.68	59.45%
MISC GENERAL EXPENSE		219,156.00		57,468.14		161,687.86	57.34% 73.78%
RENT EXPENSE		212,000.00		69,140.89		142,859.11	67.39%
ENERGY CONSERVATION		673,000.00		225,869.79		447,130.21	66.44%
TOTAL OPERATION EXPENSES		12,780,581.00		4,490,201.35		8,290,379.65	64.87%
MAINTENANCE EXPENSES:							
MAINT OF TRANSMISSION PLANT		3,000.00		1,135.40		1,864.60	62.15%
MAINT OF STRUCT AND EQUIPMENT		419,599.00		213,428.76		206,170.24	49.14%
MAINT OF LINES - OH		2,044,499.00		765,119.12		1,279,379.88	62.58%
MAINT OF LINES - UG		125,066.00		129,772.26		(4,706.26)	-3.76%
MAINT OF LINE TRANSFORMERS MAINT OF ST LT & SIG SYSTEM		300,000.00 10,287.00		21,950.95 70,494.45		278,049.05 (60,207.45)	92.68% -585.28%
MAINT OF STET & SIG STSTEM		44,658.00		70,494.45		44,658.00	100.00%
MAINT OF GARAGE AND STOCKROOM		590,523.00		214,344.87		376,178.13	63.70%
MAINT OF GEN PLANT		180,000.00		104,613.37		75,386.63	41.88%
TOTAL MAINTENANCE EXPENSES		3,717,632.00		1,520,859.18		2,196,772.82	59.09%
DEPRECIATION EXPENSE		4,134,000.00		1,708,878.35		2,425,121.65	58.66%
PURCHASED POWER FUEL EXPENSE		33,174,492.00		14,189,496.10		18,984,995.90	57.23%
VOLUNTARY PAYMENTS TO TOWN		1,445,420.00		590,000.00		855,420.00	59.18%
TOTAL OPERATING EXPENSES	\$	89,574,403.00	\$	37,197,893.63	\$	52,376,509.37	58.47%
			_				



## ENGINEERING & OPERATIONS REPORT NOVEMBER, 2016 ATTACHMENT 3

#### READING MUNICIPAL LIGHT DEPARTMENT

#### FOR PERIOD ENDING NOVEMBER, 2016

PROJ	DESCRIPTION	TOWN	ACTUAL COST NOVEMBER	YTD ADDITIONS	ANNUAL BUDGET	REMAINING BALANCE
	CONSTRUCTION:					
106 107	Underground Facilities Upgrades (URD's, Manholes, etc) 13.8kV Upgrade (Step-down areas, etc.)	ALL ALL	63,826 328	251,813 4,909	149,965 105,748	(101,848) 100,839
	SUB-TOTAL		64,154	256,721	255,713	(1,008)
	STATION UPGRADES:					
108	Station 4 (GAW) Relay Replacement Project	R	1,291	14,766	48,904	34,138
109	Station 4 35kV Potential Transformer Replacement	R	57	57	-	(57)
110	4W9 Getaway Replacement-Station 4	R		-	234,747	234,747
111	Substation Equipment Upgrade (all)	ALL		-	74,590	74,590
113	Station 4 (GAW) Battery Bank Upgrade	R			17,037	17,037
120	Station 4 - Relay/SCADA Integration for Bus A&B	R	8,197	24,261	70,308	46,047
130	Station 3 - Remote Terminal Unit (RTU) Replacement	NR	40.000	74.505	39,330	39,330
133 139	Station 3 - Relay Upgrades and SCADA Integration Station 5 - LTC Control Replacement	NR W	18,889	74,505	252,225	177,720
140	Substation Grounding Equipment Upgrade	ALL		-	41,543	41,543
140	SUB-TOTAL	ALL .	28,434	113,589	20,671 <b>799,355</b>	20,671 <b>685,766</b>
			20,101		100,000	555,755
	NEW CUSTOMER SERVICES:					
	New Service Installations (Commercial / Industrial)	ALL	14,027	52,451	139,570	87,119
	SUB-TOTAL	-	14,027	52,451	139,570	87,119
	ROUTINE CONSTRUCTION:	ALL	134,860	754,685	1,012,962	258,277
					.,,-,-,-,-	
100 102	SPECIAL PROJECTS / CAPITAL PURCHASES: Distributed Gas Generation (Pilot FY16-17) Padmount Switchgear Upgrade at Industrial Parks	ALL W	1,074	43,175	2,720,409 194,518	2,677,234 194,518
103	Grid Modernization and Opitmization	ALL	115,076	122,242	284,000	161,758
105	New Wilmington Sub-Station	W		1 <u>-</u>	250,000	250,000
112	AMI Mesh Network Expansion	ALL		100,200	220,021	119,821
115	Fault Indicators	ALL		1,340	25,000	23,660
116	Transformers and Capacitors	ALL		9,102	668,000	658,898
117 125	Meter Purchases GIS	ALL		16,140	80,000	63,860
126	Communication Equipment (Fiber Optic)	ALL	2 442	4 572	360,000	360,000
131	LED Street Light Implementation	ALL ALL	3,443 55,281	4,573	69,173	64,600
134	Substation Test Equipment	ALL	8,030	315,784 14,270	804,070 30,000	488,286
135	Analog Devices Cap Bank Upgrade	W	0,030	14,270	54,188	15,730 54,188
136	Voltage Data Recorders	ALL		_	25,000	25,000
	SUB-TOTAL		182,903	626,825	5,784,379	5,157,554
96	OTHER CAPITAL PROJECTS: Control Center Modifications	ALL			100,000	100.000
97	HVAC Roof Units - Garage	R	713	41,373	100,000	100,000
98	Carpet Upgrade	R	713	8,430	71,653	(41,373) 63,223
99	Electric Vehicle Supply Equipment	ALL		0,430	10,000	10,000
104	RMLD Lighting (LED) Upgrade	,,,,,		_	25,000	25,000
118	Rolling Stock Replacement	ALL		30,477	310,000	279,523
119	Security Upgrades All Sites	ALL		6,844	5,000	(1,844)
121	HVAC System Upgrade - 230 Ash Street	R	136,912	415,571	500,000	84,429
127	Hardware Upgrades	ALL	33,583	38,351	112,065	73,714
128	Software and Licensing	ALL	,	12,687	230,519	217,833
129	Master Facilities Site Plan	R			50,000	50,000
	SUB-TOTAL		171,208	553,732	1,414,237	860,505
		-				•

TOTAL CAPITAL BUDGET

\$ 595,586 \$ 2,358,003 \$ 9,406,216 \$ 7,048,213

# Engineering & Operations Report

RMLD Board of Commissioners Meeting January 31, 2017

November 2016 Reporting Period

Hamid Jaffari, Director of Engineering & Operations

## **Capital Improvement Projects**

Con	struction Projects:	% Complete Status	Nov	YTD
100	Distributed Gas Generation Pilot	25%	\$1,074	\$43,175
106	Underground Facilities Upgrades (URDs, Manholes, etc.) - All Towns  Lucaya Estates, Wilmington  Crestwood Road, North Reading	On- going	\$63,826	\$251,813
107	13.8kV Upgrade (Stepdown Areas, etc.)- All Towns  Main Street, Reading	On- going	\$328	\$4,909
108	Relay Replacement – Station 4 (GAW)	100%	\$1,291	\$14,766
120	Station 4: Relay/SCADA Integration for Bus A&B	10%	\$8,197	\$24,261
133	Station 3: Relay Upgrades and SCADA Integration	10%	\$18,889	\$74,505
	Service Installations – Residential and Commercial: This item includes new or upgraded overhead and underground services.	On- going	\$14,027	\$52,451
103	Grid Modernization and Optimization	On- going	\$115,076	\$122,242
131	LED Street Light Conversion	58%	\$55,281	\$315,784

## **Routine Construction**

	NOV	YTD
Pole Setting/Transfers	\$23,935	\$127,435
Overhead/Underground	\$29,741	\$235,392
<ul> <li>Projects Assigned as Required</li> <li>Solar Project, Ballardvale Street, Wilmington</li> <li>Pumping Stations (West Street and Batchelder Road), Reading</li> <li>Wilmington Recreation Center, Wilmington</li> </ul>	\$30,134	\$104,046
Pole Damage/Knockdowns - Some Reimbursable  • Work was done to repair or replace eight (8) poles.	\$14,113	\$47,987
Station Group	\$13,738	\$75,901
/ Hazmat/Oil Spills		\$5,296
Porcelain Cutout Replacement Program	- 1	
Lighting (Street Light Connections)	\$3,633	\$13,538
Storm Trouble	-1	\$10,743
<ul> <li>Underground Subdivisions (new construction)</li> <li>McGrane Road Subdivision, Wilmington</li> <li>North Wilmington Estates, Wilmington</li> </ul>	\$12,482	\$45,828
Animal Guard Installation	\$200	\$795
Miscellaneous Capital Costs	\$6,884	\$87,723
TOTAL:	\$134,860	\$754,684

## **Routine Maintenance**

**■ Transformer Replacement** (through November 2016)

Pad mount 24.35%

Overhead 15.74%

■ Pole Inspection (as of 11/30/2016)

204 poles have been replaced 117 of 204 transfers have been completed

Quarterly Inspection of Feeders (as of 1/23/17)

Inspected circuits (Jan-Mar): 3W5, 3W6, 3W7, 3W8, 4W5, 4W6, 4P9, 4P2

Manhole Inspection (through November 2016)

961 of 1,237 manholes have been inspected.

Porcelain Cutout Replacements (through November 2016)

91% complete

256 remaining to be replaced

Tree Trimming

November: 188 spans trimmed YTD: 564 spans trimmed

**Substation Maintenance** 

Infrared Scanning - November complete - no hot spots found

## **Double Poles**

Ownership: 16,000 (approximately)

50% RMLD

50% Verizon

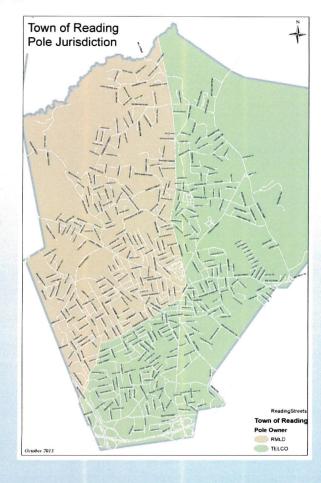
Custodial:

Reading – split (see map)

North Reading – RMLD

Lynnfield – Verizon

Wilmington - Verizon



## **NJUNS**

"Next to Go" as of January 20, 2017

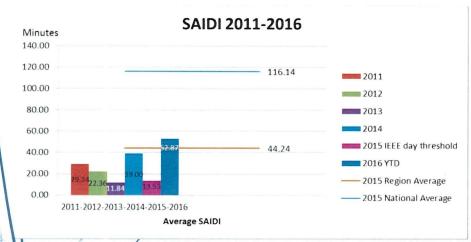
LYNNFIELD	
	Count of Ticket
NTG Member and Job Type	Number
□LFLDFD	2
☐ Lynnfield Fire Department TRANSFER	2
■RMLD	4
□ Reading Municipal Light Depa TRANSFER	rtment 4
□ VZNESA	14
TRANSFER PULL POLE	8 6
Grand Total	20

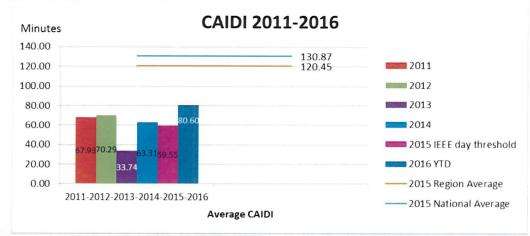
NORTH READING	
	Count of
	Ticket
NTG Member and JobType	→¹ Number
<b>□ CMCTNR</b>	3
□ Comcast	
TRANSFER	3
■NGMA	1
■ National Grid	
TRANSFER	1
NRDGFD	44
☐ North Reading Fire Department	
TRANSFER	44
RMLD	73
Reading Municipal Light Departm	ent
TRANSFER	15
PULL POLE	58
= VZNEDR	97
□ Verizon	
TRANSFER	87
PULL POLE	10
± (blank)	
Grand Total	218

	Count of
	Ticket
NTG Member and JobType	Number
<b>⊡CMCTNR</b>	2
<b>□</b> Comcast	
TRANSFER	2
<b>⊟NP3PMA</b>	11
■ Non-participating 3rd Party	Attacher
TRANSFER	11
⊟RDNGFD	2
☐ Reading Fire Department	
TRANSFER	2
⊟RMLD	95
Reading Municipal Light Dep	partment
TRANSFER	48
PULL POLE	47
□VZNEDR	1
∃Verizon	
TRANSFER	1
VZNESA	110
□Verizon	
TRANSFER	108
PULL POLE	2
± (blank)	
Grand Total	221

WILMINGTON	
	Count of Ticket
NTG Member and JobType	Numbers
<b>□ CMCTNR</b>	2
□ Comcast	
TRANSFER	2
<b>□NP3PMA</b>	10
■ Non-participating 3rd Party	Attacher
TRANSFER	10
⊟RMLD	64
Reading Municipal Light De	partment
TRANSFER	58
ATTACH	1
PULL POLE	4
INSTL GUY	1
<b>□ VZNEDR</b>	75
□Verizon	
TRANSFER	56
PULL POLE	19
□WMGNFD	72
<b>■ Wilmington Fire Departmen</b>	nt
TRANSFER	72
⊕ (blank)	
Grand Total	223

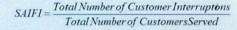
## **RMLD** Reliability Indices

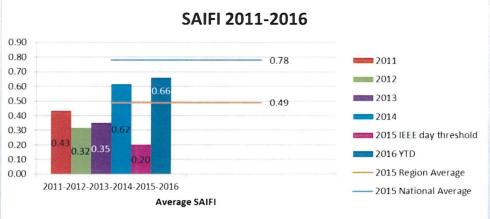




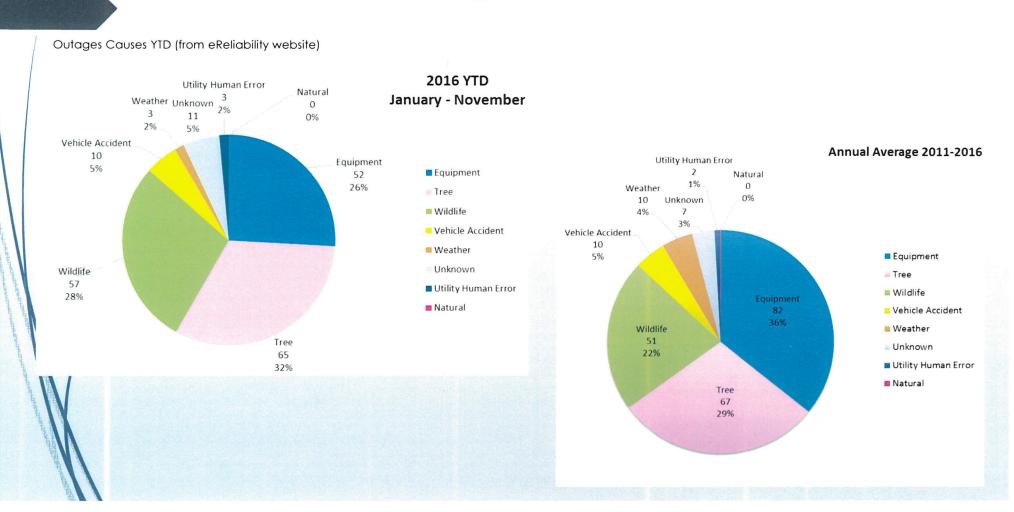
 $SAIDI(Minutes) = \frac{Total\ Duration\ of\ Customer\ Interruptions}{Total\ Number\ of\ Customer\ Served}$ 

 $CAIDI(Minutes) = \frac{Total\,Duration of\,Customer\,Interruptions}{Total\,Number\,of\,CustomersInterruptions}$ 





## **Outages Causes**



# Questions?



## RMLD PROCUREMENT REQUESTS REQUIRING BOARD APPROVAL ATTACHMENT 4



## Reading Municipal Light Department

230 Ash Street P.O. Box 150 Reading, MA 01867-0250

Tel: (781) 944-1340 Fax: (781) 942-2409 Web: www.rmld.com

January 19, 2017

Town of Reading Municipal Light Board

Subject: IFP 2017-31 Fiberglass Poles and Spare Handhole Covers

Pursuant to M.G.L c. 164 § 56D, on December 28, 2016, a bid invitation was placed as a legal notice in the Middlesex East section of the Daily Times Chronicle and on the ECNE (Energy Council of the Northeast) website requesting sealed proposals for Fiberglass Poles and Spare Handhole Covers.

An invitation for proposals was sent to the following six companies:

Graybar

Irby

Power Sales Group

Power Tech dba UPSC

Shamrock Power

Wesco

Sealed proposals were received from three companies: Graybar, Irby and WESCO.

The sealed proposals were publicly opened and read aloud at 11:00 a.m., January 11, 2016, in the Town of Reading Municipal Light Department's Audio Visual Spurr Room, 230 Ash Street, Reading, Massachusetts.

The proposals were reviewed, analyzed and evaluated by staff and recommended to the General Manager.

Move that proposal 2017-31 for: Fiberglass Poles and Spare Handhole Covers be awarded to: **Irby for \$26,740.40** pursuant to Chapter 164 § 56D on the recommendation of the General Manager.

The FY17 Routine Construction Budget will be charged for these items.

Brian Smith

Hamid Jaffari

Coleen O'Brien

## Fiberglass Poles Bid 2017-31

Bidder	<u>Manufacturer</u>	<u>Delivery Date</u>	Unit Cost	<u>Qty</u>	Total Net <u>Cost</u>	Meet Specification requirement	Specification Data Sheets	Firm <u>Price</u>		Certified Check or <u>Bid Bond</u>	Exceptions to stated bid requirements	Authorized <u>signature</u>
Irby Item 1 Item 2	Shakespeare Shakespeare	11 weeks ARO* 11 weeks ARO* * subject to change	\$660.36 \$16.30		\$26,414.40 \$326.00 \$26,740.40	yes	yes	yes	yes	yes	no	yes
WESCO Item 1 Item 2	Shakespeare Shakespeare	11-12 weeks ARO 11-12 weeks ARO	\$665.00 \$16.00		\$26,600.00 \$320.00 \$26,920.00	yes	yes	yes	yes	yes	no	yes

Non responsive bidders:

Graybar Rejected based on the following:

1. Tax compliance form not submitted.

## BOARD MATERIAL AVAILABLE BUT NOT DISCUSSED

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT
RATE COMPARISONS READING & SURROUNDING TOW

January-17

	RESIDENTIAL 750 kWh's	RESIDENTIAL-TOU 1500 kWh's 75/25 Split	RES. HOT WATER 1000 kWh's	COMMERCIAL 7,300 kWh's 25.000 kW Demand	SMALL COMMERCIAL 1,080 kWh's 10.000 kW Demand	SCHOOL RATE 35000 kWh's 130.5 kW Demand	INDUSTRIAL - TOU 109,500 kWh's 250.000 kW Demand 80/20 Split
READING MUNICIPAL LIGHT DEPT. TOTAL BILL	\$118.01	\$204.54	\$144.38	\$1,063.29	\$207.50	\$4,948.30	\$769,366.08
PER KWH CHARGE	\$0.15734	\$0.13636	\$0.14438	\$0.14566	\$0.19213	\$0.14138	\$0.11183
NATIONAL GRID							
TOTAL BILL	\$146.32	\$311.18	\$182.69	\$2,671.58	\$456.82	\$5,595.27	\$1,513,955.46
PER KWH CHARGE	\$0.19509	\$0.20745	\$0.18269	\$0.36597	\$0.42298	\$0.15986	\$0.22006
% DIFFERENCE	23.99%	52.14%	26.54%	151.26%	120.15%	13.07%	96.78%
EVERSOURCE(NSTAR)							
TOTAL BILL	\$143.50	\$253.38	\$189.19	\$1,084.62	\$165.48	\$6,077.76	\$1,027,836.65
PER KWH CHARGE	\$0.19133	\$0.16892	\$0.18919	\$0.14858	\$0.15322	\$0.17365	\$0.14940
% DIFFERENCE	21.60%	23.88%	31.04%	2.01%	-20.25%	22.83%	33.60%
PEABODY MUNICIPAL LIGHT PLANT							
TOTAL BILL	\$89.37	\$177.53	\$120.42	\$988.74	\$156.46	\$4,883.88	\$672,615.67
PER KWH CHARGE	\$0.11916	\$0.11835	\$0.12042	\$0.13544	\$0.14487	\$0.13954	\$0.09777
% DIFFERENCE	-24.27%	-13.20%	-16.59%	-7.01%	-24.60%	-1.30%	-12.58%
MIDDLETON MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$98.74	\$201.66	\$132.75	\$959.51	\$168.44	\$4,762.93	\$807,171.40
PER KWH CHARGE	\$0.13165	\$0.13444	\$0.13275	\$0.13144	\$0.15596	\$0.13608	\$0.11733
% DIFFERENCE	-16.33%	-1.41%	-8.06%	-9.76%	-18.83%	-3.75%	4.91%
WAKEFIELD MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$121.11	\$224.67	\$151.88	\$1,148.04	\$183.58	\$5,385.58	\$904,362.30
PER KWH CHARGE	\$0.16148	\$0.14978	\$0.15188	\$0.15727	\$0.16999	\$0.15387	\$0.13146
% DIFFERENCE	2.63%	9.84%	5.20%	7.97%	-11.53%	8.84%	17.55%

From: <u>Tracy Schultz</u>

To: RMLD Board Members Group

Cc: <u>Jeanne Foti</u>

Subject: Account Payable and Payroll Questions
Date: Thursday, January 26, 2017 8:06:00 AM

#### Good morning,

There were no Account Payable Warrant questions for the following dates: December 9, December 23, January 6, and January 13.

Chairman O'Rourke had a question on an invoice amount on the December 16 AP, which was due to a credit being applied.

Commissioner Hennessy had a question on a customer credit on the January 20 AP, which was due to a new customer backdating their service start date at that meter after the customer of record had paid for that same time of service.

There were no Payroll questions for the following dates: December 12, December 27, January 9, and January 23.

This message will be printed for the Board Packet for the RMLD Board Meeting on Tuesday, January 31, 2017.

#### **Tracy Schultz**

Executive Assistant
Reading Municipal Light Department
230 Ash Street
Reading, MA 01867

Tel: (781) 942-6489

Ext: 489