

**READING MUNICIPAL
LIGHT DEPARTMENT**

BOARD OF COMMISSIONERS

REGULAR SESSION

THURSDAY, FEBRUARY 22, 2018

APPROVAL OF BOARD MINUTES
DECEMBER 14, 2017
ATTACHMENT 1

READING MUNICIPAL LIGHT DEPARTMENT
BOARD OF COMMISSIONERS MEETING
230 Ash Street
Reading, MA 01867
December 14, 2017

Start Time of Regular Session: 7:30 p.m.
End Time of Regular Session: 10:04 p.m.

Commissioners:

Phillip B. Pacino, Chair-Secretary Pro Tem
Dave Hennessy, Vice Chair-Absent
Tom O'Rourke, Commissioner

John Stempeck, Commissioner
Dave Talbot, Commissioner-Remote
Participant

Staff:

Coleen O'Brien, General Manager
Hamid Jaffari, Director of Engineering and Operations
Jane Parenteau, Director of Integrated Resources
Wendy Markiewicz, Director of Business/Finances

Tracy Schultz, Executive Assistant

Citizens Advisory Board:

Vivek Soni, Member

Public:

Mary Ellen O'Neill, 125 Summer Street, Reading

Call Meeting to Order

Chair Pacino called the meeting to order and announced that the meeting is being videotaped at the RMLD office at 230 Ash Street, for distribution to the community television stations in Reading, North Reading, Lynnfield, and Wilmington.

Opening Remarks

Chair Pacino read the RMLD Board of Commissioners' Code of Conduct and welcomed Mr. Soni, the new member of the Citizens' Advisory Board.

Public Comment

Reading resident Mary Ellen O'Neill distributed leaflets to the Board containing research she had conducted on electric utility tree stewardship programs. Three models were highlighted: utilities that donate money, utilities that follow Arbor Day tree standards, and utilities that give away trees. Ms. O'Neill stated that she wanted to plant the seed and ask that the Board consider developing a tree stewardship program based on the needs of the service territory. Ms. O'Neill suggested that RMLD make a \$2,500 donation to each community.

Report of the Committee-General Manager's Committee

Chair Pacino explained that all votes would be roll call due to Mr. Talbot participating remotely by telephone.

Chair Pacino stated that the General Manager Committee met to conduct its annual review of Ms. O'Brien. The reviews were positive, with Ms. O'Brien receiving 99.2 out of a possible top score of 100. The Committee recommends a 4.5 percent salary increase and \$5,000 that Ms. O'Brien has the discretion to use as she chooses.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that the Board of Commissioners follow the recommendations of the General Manager Committee, as stated.

Chair Pacino called for a poll of the vote: Mr. O'Rourke: Aye; Chair Pacino: Aye; Mr. Stempeck: Aye; Mr. Talbot: Aye.

Motion Carried.

4:0:0.

The Board commended Ms. O'Brien on doing a good job. Ms. O'Brien replied that it would be impossible to do it alone and thanked the RMLD staff. Mr. O'Rourke verified that Ms. O'Brien's raise would be retroactive to the start of the fiscal year. Chair Pacino affirmed.

Subsequent Town Meeting

Chair Pacino stated that Ms. O'Brien made a presentation. Ms. O'Brien explained that it reviews the highlights of the previous FY, including the audit, which was clean, and goes over the strategic visions from the five to 20-year plans. Ms. O'Brien stated that she was very proud of the high school art contest winners which were showcased in the presentation.

Citizens' Advisory Board

Mr. O'Rourke suggested that Ms. Schultz draft a schedule for Commissioner attendance at CAB meetings.

Approval of Board Minutes-June 15, 2017 and September 14, 2017 (Attachment 1)

The September 14, 2017 Board minutes were not ready in time for the meeting.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke to approve the minutes of the June 15, 2017 Board meeting.

Chair Pacino called for a poll of the vote: Mr. O'Rourke: Aye; Chair Pacino: Aye; Mr. Stempeck: Aye; Mr. Talbot: Aye.

Motion Carried.

4:0:0.

General Manager's Report - Ms. O'Brien

Ms. O'Brien held up that day's edition of the Daily Times Chronicle, which featured an article on RMLD and NextEra and a photo of RMLD employees with Governor Baker. RMLD received a \$1 million grant with NextEra from the Baker-Polito Administration Energy Storage Initiative. Ms. O'Brien stated that RMLD is excited to add renewables to the peak reduction portfolio. The unit is expected to be built before next year's peak. It's a five megawatts storage unit, using lithium ion batteries, that discharges over two hours.

Mr. Talbot expressed his enthusiasm for the project. Ms. O'Brien said that RMLD is honored to receive the grant. The million will be split over three years to reduce power supply cost. That will be passed on to the customers. Mr. Talbot asked what in RMLD's portfolio is renewable. Ms. O'Brien stated that it is about 13 percent and that Ms. Parenteau will elaborate when she does her presentation.

a. Quarterly Updates: Organizational & Reliability Reports – Mr. Jaffari and Ms. O'Brien (Attachment 2)

Mr. Jaffari highlighted RMLD's progress on the Booth and Associates and UPG's Reliability Recommendations. These included automating Station 3 so that if something happens to one transformer, the load will automatically transfer to another in less than ten seconds. Before it needed to be done manually. All relays at Station 4 have been upgraded. More information is received in the Control Room.

Mr. O'Rourke asked what the timeframe for completion of the reliability study is. Mr. Jaffari replied between one to five years. Mr. O'Rourke complimented the team on the process and acting on the report's recommendations.

Mr. Soni asked for the ages and locations of the substations, which Mr. Jaffari provided.

Ms. O'Brien provided progress updates on the organizational study. Integrated Resources Department (IRD) is working on a visual outline of the Department's strategic vision. IRD has already started on milestones, such as the cost of service study, the rate adjustments to eliminate subsidies, adding renewables to the power portfolio, rebate restructuring, and risk mitigation. The visual road map should be laid out by the first quarter of next year. The reorganization effort is down to a granular level, groups now being assessed individually. Information Technologies is being finished and Technical Services is being started. Additionally, two engineers have been hired in Engineering and Operations.

Mr. O'Rourke asked once an engineer is hired, how long is it before he or she can run the entire system? Ms. O'Brien replied that an engineer, without any utility background, takes approximately five to seven years; the training is thorough and specific to the system criteria.

a. Quarterly Updates: Organizational & Reliability Reports – Mr. Jaffari and Ms. O'Brien (Attachment 2)

Ms. O'Brien stated that the communications roadmap will change once the new outage management system goes online. Ms. O'Brien invited the Board to take a tour at the next meeting so that they can see the physical reorganization of the building, aimed at improving communications and efficiency.

At 8:15 p.m. Mr. Talbot disconnected and left the meeting.

Mr. Soti asked about RMLD's cybersecurity. Mr. Jaffari replied that RMLD is NERC compliant.

Integrated Resources Division

a. Community Engagement-Ms. Parenteau

Ms. Parenteau announced that RMLD is sponsoring a holiday decorating contest. Pictures must be uploaded to RMLD's website by Sunday, December 17. From the 19th through the 29th customers vote online. January 3rd the winners will be announced and will receive a \$50 credit on their bill.

The elementary school art contest awards will be held over two nights: Thursday, January 11th at 7 p.m., with a snow day of Tuesday, January 16th, and Thursday, January 18th, with a snow day of Tuesday, January 23rd.

b. Power Supply Report-October 2017-Ms. Parenteau (Attachment 3)

Ms. Parenteau began by discussing the October fuel charge adjustment. Customers directly receive this benefit. From November of 2015 to October of 2016 the charge averaged \$0.0496. Now it is \$0.048 cents, which is a reduction of three percent.

As of June 2017, Reading and other utilities in the Northeast Massachusetts (NEMA) zone have experienced significant transmission increases, reflected in the Purchase Power Capacity Transmission (PPCT) charge. When comparing October 2016 to October 2017, it has increased four and a half percent.

Ms. Parenteau explained that the New York Power Authority (NYPA) credit is a benefit that residential customers receive because RMLD has a NYPA contract for hydro. It has been flat over the last two years. In October 2016 it was \$0.0049 cents and in October 2017 it is still \$0.0049.

Addressing Mr. Talbot's question, Ms. Parenteau referenced the October Power Supply Report, where RMLD had 13 percent renewable-generated projects. That encompasses hydro, wind, and solar. If you count nuclear as being carbon-free, that number becomes 26.6 percent. RMLD is working diligently to make portfolio environmentally friendly.

Mr. Soni asked about RMLD's renewable policy. Mr. Stempeck replied that the goal is 15 to 17 percent renewables. Ms. Parenteau stated that there is a stipulation in the policy that the projects be low-risk and cost conscious. Mr. Soni then asked if there was pressure from the state. Ms. O'Brien replied that the RMLD is locally owned and controlled, but that discussions with the state are ongoing.

Financial Report- October 2017-Ms. Markiewicz- (Attachment 4)

Ms. Markiewicz stated that she was reporting through October 31, on the first four months of FY 18. On the balance sheet cash is down, but this is due to the timing of receivables and payables. Restricted cash increased due to \$5.6 million being added from the pension trust. The balance of the depreciation fund at the end of FY 17 was \$2.4 million. \$2.5 million was added to the construction fund from the operating funds. The total use of capital funds through October was \$1.6 million, which leaves the current balance at \$4.7 million. When comparing July 2016 through October 2016 and July 2017 through October 2017, there is a two percent decrease in base revenue, and a two percent decrease in operating expenses. Overall, RMLD is under budget on operating and maintenance expenses. base revenues have increased over the last 12 months, except in August and September. kWh sales are 4.1 percent lower in FY 18 than they were in FY 17.

Mr. Stempeck and Mr. O'Rourke asked if there should be concern about the decrease in sales. Ms. Markiewicz stated that sales were flat; the decrease could be weather-related. Ms. Parenteau added that a cold winter will increase sales. Last summer was milder.

Financial Report- October 2017-Ms. Markiewicz- (Attachment 4)

Ms. O'Brien stated that there is economic growth in the area around the proposed Wilmington substation. RMLD is targeting offset any decline in sales with demand reduction techniques and economic growth incentives.

Mr. Soti asked if the weather has a significant impact on sales and whether degree temperature days are looked at. Ms. Parenteau answered in the affirmative.

a. Report on any potential cost savings of changing the Department's fiscal year end to a calendar year.

Ms. Markiewicz stated that the Board asked her to do a cost analysis of changing the financial reporting from fiscal year to calendar year. There would be a one-time \$36,000 six-month audit fee.

Chair Pacino explained that RMLD is on a Fiscal Year and the Department of Public Utilities is on a Calendar Year. Therefore, RMLD has two closings a year.

Ms. Markiewicz explained that Accounting needs to take six months of one fiscal year and six months of the following fiscal year and combine them to get a DPU report that's accurate. Power supply must do more calculations and power supply costs are typically not published until March. Due to the staff time needed to combine half of two fiscal years into one report, Ms. Markiewicz estimated \$15,000 in avoided costs by switching to a calendar year. Additionally, the Town of Reading and RMLD finalize their year-end reports at the same time, which can delay RMLD finishing its reporting. Changing to a calendar year will end double warrant concerns: For three or four weeks, there are two sets of warrants, one for each fiscal year. This causes extra work for the Town and for RMLD. Ms. Markiewicz concluded, stating summer vacation time and the fact that vendors aren't quick to finalize their books and get us invoices complicates matters further. However, most companies clean up their books at the end of the calendar year for tax purposes.

Mr. Stempeck asked Ms. Markiewicz if she would recommend moving to a calendar year. Ms. Markiewicz replied in the affirmative.

Ms. O'Brien stated her previous place of employment changed to a calendar year. It created efficiency and was consistent with the Department of Public Utilities' filing. RMLD works hard to evaluate rates fiscally, without all the data, so that we can provide some input to the Towns' fiscal year budget processes. Having a calendar year budget would allow us to complete our analysis before providing premature data.

Chair Pacino stated that it would be up to the Board to vote when all five members are present. Ms. Markiewicz announced that the auditors are on board.

Engineering and Operations Report-July, August, and September 2017-Mr. Jaffari (Attachment 5)

Mr. Jaffari explained that most of the heavy construction projects will be done in the spring. In the month of October, \$131,812 was spent on Routine Capital Construction, bringing the YTD total to \$411,263. This is for FY 18. Mr. Jaffari stated he expects that number to reach \$1 million.

All divisions spent a total of \$322,741 in October, bringing the YTD to \$1,651,984. \$7,685,521 has been budgeted. Routine Maintenance test 10 percent of poles. First time tested 37 percent failed. last report down to 5 percent. making progress. tree trimming program is working. 3-year cycling program will end in 2018, then go to 5-years. RMLD has five double poles to be transferred in Lynnfield. Reading has 70 pull poles and 29 transfers pending, for a total of 99. North Reading has 31 pull poles and 13 transfers for a total of 44. Wilmington has 31 pending transfers and four pull poles. Mr. Jaffari stated that this is a good sign. RMLD is making progress upgrading the system.

Mr. Jaffari explained that the reliability indices include the October storm numbers, where the outages were all tree-related.

RMLD Procurement Requests Requiring Board Approval (Attachment 6) IFB 2018-13 Janitorial Services

Ms. O'Brien explained that the square footage in the bid specification was reduced and the contract re-bid. Large areas that only require sweeping will be done in-house.

RMLD Procurement Requests Requiring Board Approval (Attachment 6)

IFB 2018-13 Janitorial Services

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that bid IFB 2018-13 for: Janitorial Services be awarded to: Transcend Maintenance Services, Inc. for \$67,325.40, pursuant to M.G.L., Chapter 30B, as the lowest responsive and responsible bidder on the recommendation of the General Manager. This is a three-year contract.

Motion Carried.

3:0:0.

IFP 2018-17 Cooper Power System or Compatible Meters and Equipment for the AMI Mesh Network Expansion and Migration

Mr. Jaffari stated that the Invitation for Proposals went out to 15 companies. Two replied.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that proposal IFP 2018-17 for Cooper Power System or Compatible Meters and Equipment for the AMI Mesh Network Expansion and Migration be awarded to: Eaton for \$83,199.36, pursuant to M.G.L Chapter 164 Section 56D on the recommendation of the General Manager.

Motion Carried.

3:0:0.

IFB 2018-19 Line Truck Chassis and Trailer Inspection, Preventative Maintenance, and Repair Services

Mr. Jaffari stated that the Invitation for Bids was sent to seven companies; one responded.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that bid IFB 2018-19 Line Truck Chassis and Trailer inspection, Preventative Maintenance, and Repair Service be awarded to: Taylor & Lloyd, Inc. for \$151,462.31, pursuant to M.G.L. Chapter 30B, as the lowest responsive and responsible bidder on the recommendation of the General Manager. This is a three-year contract.

Motion Carried.

3:0:0.

IFB 2018-20 Line Truck Lift Equipment Inspection, Preventative Maintenance, and Repair Service

Mr. Jaffari stated that the Invitation for Bids went to four companies; one responded.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that bid IFB 2018-20 Line Truck Lift Equipment Inspection, Preventative Maintenance, and Repair Service be awarded to: James A. Kiley Co. for \$111,495.00, pursuant to M.G.L. Chapter 30B, as the lowest responsive and responsible bidder on the recommendation of the General Manager. This is a three-year contract.

Motion Carried.

3:0:0.

General Discussion

Chair Pacino stated that the Art Awards are coming up. The next Board meeting is January 25th and the next CAB meeting is January 17th. Chair Pacino asked Ms. Schultz to coordinate another meeting of the Payment to the Town of Reading Sub-Committee.

Executive Session

At 8:52 p.m. Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that the Board go into Executive Session to consider the purchase of real property and discussion thereon and to return to regular session for the sole purpose of adjournment.

Chair Pacino called for a poll of the vote: Mr. O'Rourke: Aye; Chair Pacino: Aye; Mr. Stempeck: Aye.

Motion Carried 3:0:0.

Adjournment

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, to adjourn the Regular Session.

A true copy of the RMLD Board of Commissioners minutes
as approved by a majority of the Commission.

Philip B. Pacino, Secretary Pro Tem
RMLD Board of Commissioners

POWER SUPPLY REPORT
DECEMBER 2017
ATTACHMENT 2

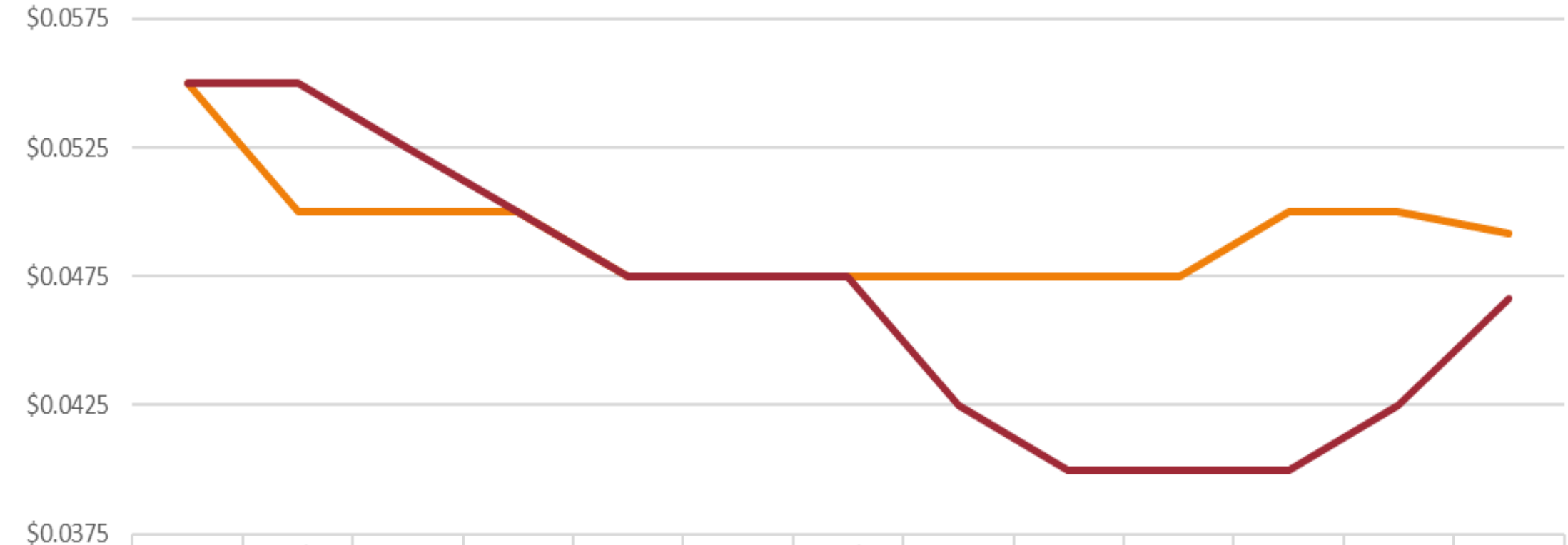
INTEGRATED RESOURCES

Board of Commissioners Meeting
Reporting for December, 2017

Jane Parenteau, Director of Integrated Resources

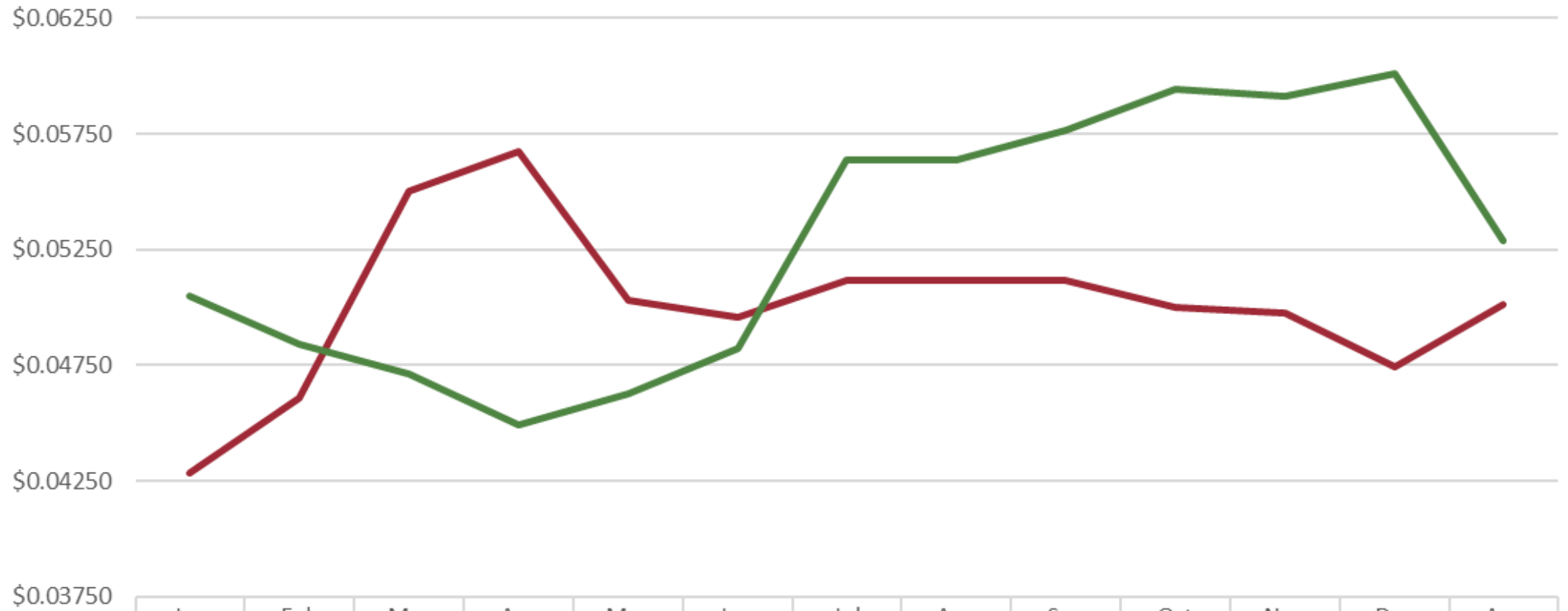
February 22, 2018

**Monthly Fuel Charge Adjustment (FCA)
To RMLD Consumers
Calendar Year
2016 vs. 2017**



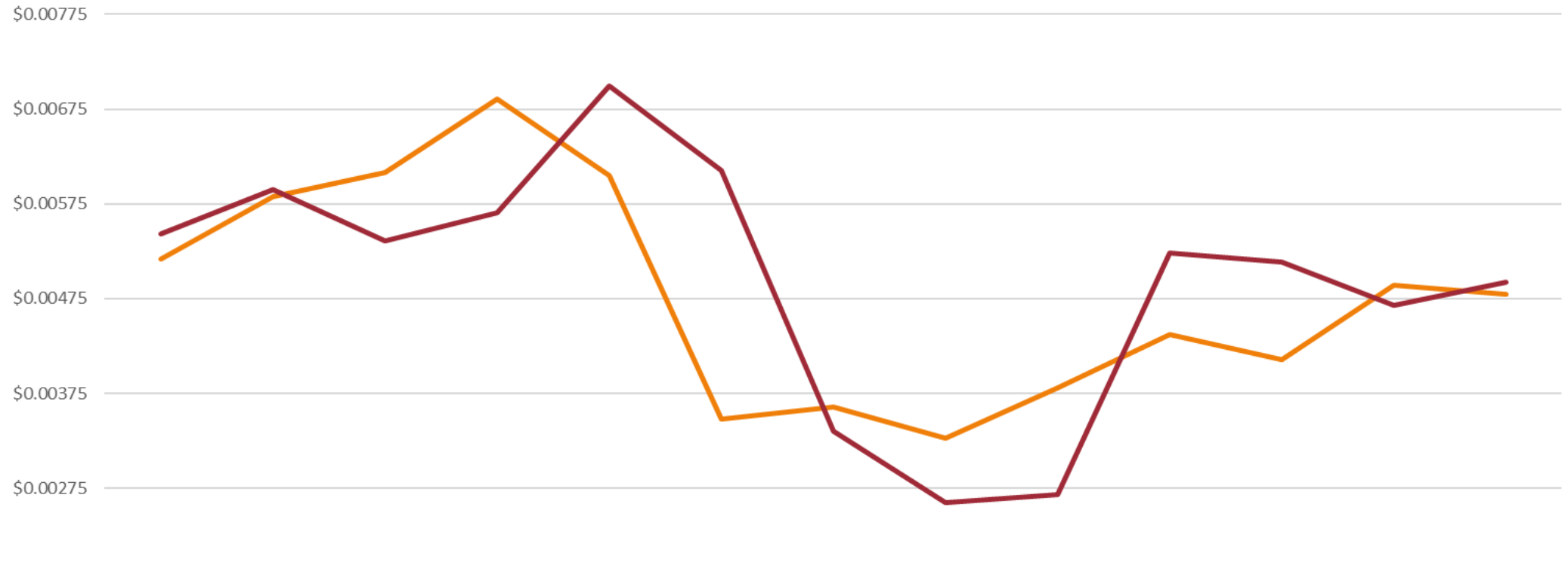
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
— 2016	\$0.0550	\$0.0500	\$0.0500	\$0.0500	\$0.0475	\$0.0475	\$0.0475	\$0.0475	\$0.0475	\$0.0475	\$0.0500	\$0.0500	\$0.04917
— 2017	\$0.0550	\$0.0550	\$0.0525	\$0.0500	\$0.0475	\$0.0475	\$0.0475	\$0.0425	\$0.0400	\$0.0400	\$0.0400	\$0.0425	\$0.04667

**Monthly Purchase Power, Capacity & Transmission Charges (PPCT)
Calendar Year
2016 vs. 2017**



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
2016	\$0.04286	\$0.04608	\$0.05502	\$0.05674	\$0.05033	\$0.04957	\$0.05115	\$0.05115	\$0.05115	\$0.04999	\$0.04979	\$0.04745	\$0.05011
2017	\$0.05047	\$0.04841	\$0.04714	\$0.04493	\$0.04629	\$0.04822	\$0.05635	\$0.05635	\$0.05765	\$0.05945	\$0.05913	\$0.06012	\$0.05288

Monthly New York Power Authority Credit (NYPA)
 Residential Consumers
 Calendar Year
 2016 vs. 2017

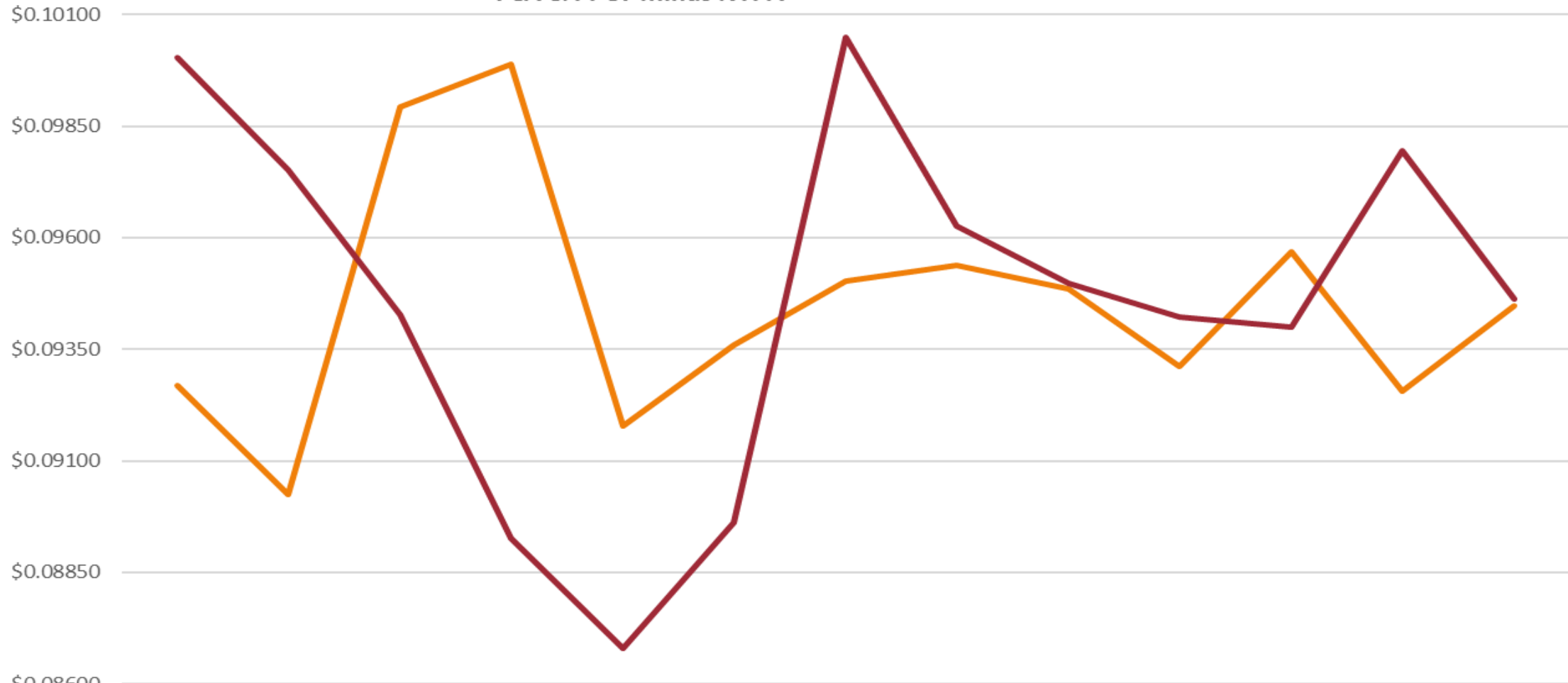


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
2016	\$0.00517	\$0.00583	\$0.00608	\$0.00686	\$0.00605	\$0.00348	\$0.00361	\$0.00328	\$0.00381	\$0.00437	\$0.00411	\$0.00489	\$0.00480
2017	\$0.00543	\$0.00590	\$0.00536	\$0.00566	\$0.00699	\$0.00610	\$0.00335	\$0.00260	\$0.00268	\$0.00523	\$0.00514	\$0.00468	\$0.00493

Net kWh cost to Residential Customer



2016 vs. 2017

FCA & PPCT minus NYPA



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
2016	\$0.09269	\$0.09025	\$0.09894	\$0.09988	\$0.09178	\$0.09359	\$0.09504	\$0.09537	\$0.09484	\$0.09312	\$0.09568	\$0.09256	\$0.09448
2017	\$0.10004	\$0.09751	\$0.09428	\$0.08927	\$0.08680	\$0.08962	\$0.10050	\$0.09625	\$0.09497	\$0.09422	\$0.09399	\$0.09794	\$0.09462

To: Coleen O'Brien

From:  Maureen McHugh, Jane Parenteau 

Date: February 13, 2018

Subject: Purchase Power Summary – December, 2017

Energy Services Division (ESD) has completed the Purchase Power Summary for the month of December, 2017.

ENERGY

The RMLD's total metered load for the month was 58,902,789 kWh, which is an .80% increase from the December, 2016 figures.

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

Table 1

Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy	Total \$ Costs	\$ as a %
Millstone #3	3,715,049	\$6.38	6.30%	\$23,702	0.80%
Seabrook	5,907,408	\$5.92	10.01%	\$34,993	1.17%
Stonybrook Intermediate	2,891,113	\$115.75	4.90%	\$334,657	11.23%
Shell Energy	9,666,000	\$58.62	16.38%	\$566,622	19.02%
NYPA	2,643,537	\$4.92	4.48%	\$13,006	0.44%
EDF	2,029,600	\$44.13	3.44%	\$89,558	3.01%
ISO Interchange	11,203,673	\$62.99	18.99%	\$705,709	23.69%
Nema Congestion	-	\$0.00	0.00%	-\$10,886	-0.37%
Coop Resales	13,867	\$142.40	0.02%	\$1,975	0.07%
BP Energy	8,930,000	\$46.78	15.14%	\$417,745	14.02%
Hydro Projects*	3,485,068	\$69.99	5.91%	\$243,936	8.19%
Braintree Watson Unit	751,625	\$75.50	1.27%	\$56,746	1.90%
Saddleback/Jericho Wind	2,526,550	\$72.77	4.28%	\$183,858	6.17%
One Burlington & Comm. Solar	79,792	\$72.57	0.14%	\$5,791	0.19%
Exelon	5,067,200	\$57.73	8.59%	\$292,525	9.82%
Stonybrook Peaking	85,559	\$223.87	0.15%	\$19,154	0.64%
Monthly Total	58,996,042	\$50.50	100.00%	\$2,979,091	100.00%

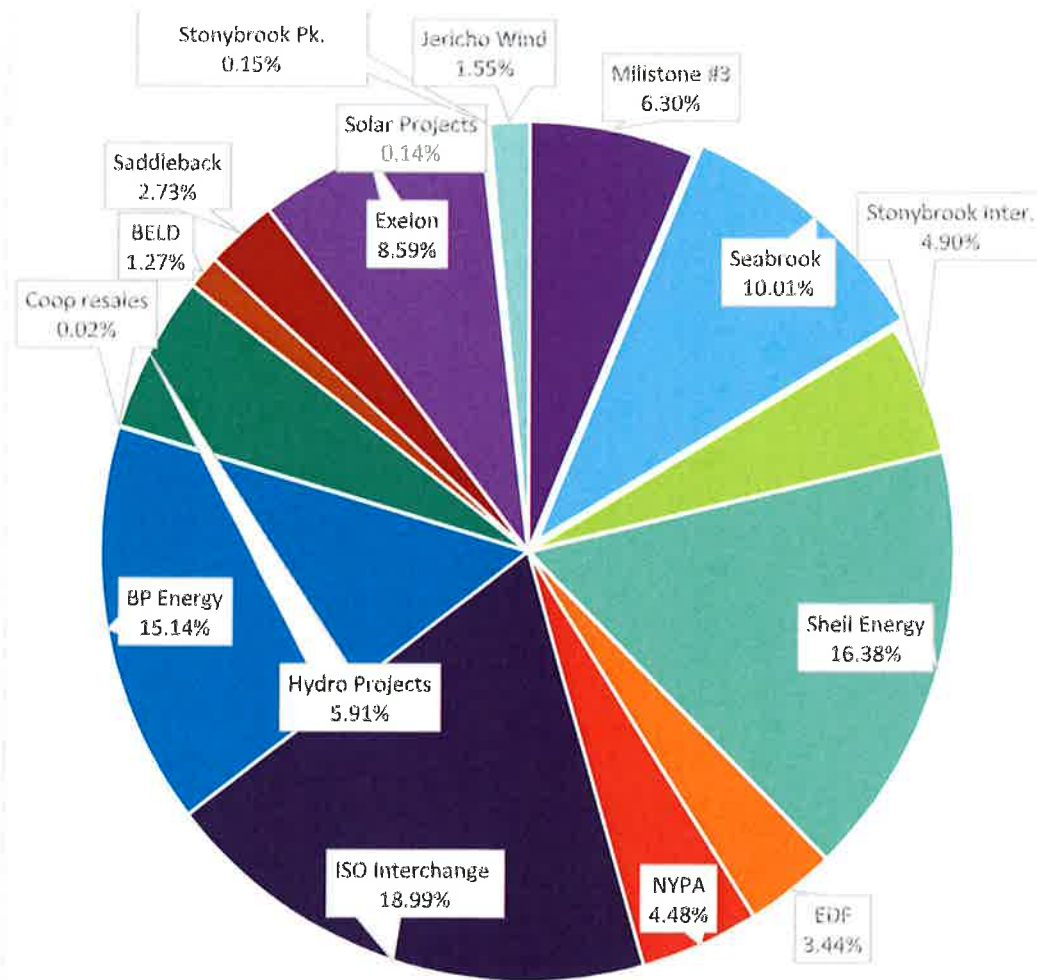
*Pepperell, Woronoco, Indian River, Turner Falls, Collins, Pioneer, Hosiery Mills, Aspinook Hydro

Table 2 breaks down the ISO interchange between the DA LMP Settlement and the RT Net Energy for the month of December, 2017.

Table 2			
Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy
ISO DA LMP * Settlement	16,229,831	\$57.28	27.51%
RT Net Energy ** Settlement	(5,026,158)	\$44.59	-8.52%
ISO Interchange (subtotal)	11,203,673	\$62.97	18.99%

* Independent System Operator Day-Ahead Locational Marginal Price

DECEMBER 2017 ENERGY BY RESOURCE



CAPACITY

The RMLD hit a demand of 93,994 kW, which occurred on December 28, at 6 pm. The RMLD's monthly UCAP requirement for December, 2017 was 222,777 kW.

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	26.43	\$130,846	6.47%
Seabrook	7,909	22.86	\$180,786	8.95%
Stonybrook Peaking	24,980	2.36	\$58,992	2.92%
Stonybrook CC	42,925	3.20	\$137,536	6.81%
NYPA	0	0.00	-\$12,032	-0.60%
Hydro Quebec	0	0	-\$48,974	-2.42%
Braintree Watson Unit	0	0.00	-\$96,857	-4.79%
ISO-NE Supply Auction	142,013	11.76	\$1,670,759	82.67%
Total	222,777	\$9.07	\$2,021,055	100.00%

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

Resource	Energy	Capacity	Total cost	% of Total Cost	Amt of Energy (kWh)	Power (\$/kWh)
Millstone #3	\$23,702	\$130,846	\$154,548	3.09%	3,715,049	0.0416
Seabrook	\$34,993	\$180,786	\$215,779	4.32%	5,907,408	0.0365
Stonybrook Intermediate	\$334,657	\$137,536	\$472,193	9.44%	2,891,113	0.1633
Hydro Quebec	\$0	-\$48,974	-\$48,974	-0.98%	-	0.0000
Shell Energy	\$566,622	\$0	\$566,622	11.33%	9,666,000	0.0586
NextEra/EDF	\$89,558	\$0	\$89,558	1.79%	2,029,600	0.0441
* NYPA	\$13,006	-\$12,032	\$974	0.02%	2,643,537	0.0004
ISO Interchange	\$705,709	\$1,670,759	\$2,376,467	47.53%	11,203,673	0.2121
Nema Congestion	-\$10,886	\$0	-\$10,886	-0.22%	-	0.0000
BP Energy	\$417,745	\$0	\$417,745	8.35%	8,930,000	0.0468
* Hydro Projects	\$243,936	\$0	\$243,936	4.88%	3,485,068	0.0700
Braintree Watson Unit	\$56,746	-\$96,857	-\$40,111	-0.80%	751,625	-0.0534
* Saddleback/Jericho	\$183,858	\$0	\$183,858	3.68%	2,526,550	0.0728
* Burlington & Community Solar	\$5,791	\$0	\$5,791	0.12%	79,792	0.0726
Coop Resales	\$1,975	\$0	\$1,975	0.04%	13,867	0.1424
Exelon Energy	\$292,525	\$0	\$292,525	5.85%	5,067,200	0.0577
Stonybrook Peaking	\$19,154	\$58,992	\$78,146	1.56%	85,559	0.9134
Monthly Total	\$2,979,091	\$2,021,055	\$5,000,146	100.00%	58,996,042	0.0848

14.81%

*Renewable Resources; per RMLD Board Policy, any RECs are sold to offset energy costs for all customers.

RENEWABLE ENERGY CERTIFICATES (RECs)

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

Table 5
RECs Summary
Period - January 2017 - December 2017

	Banked RECs	Projected RECs	Total RECs	Est. Dollars
Woronoco	539	5,235	5,774	\$57,740
Pepperell	909	3,107	4,016	\$40,160
Indian River	367	1,582	1,949	\$19,491
Turners Falls	231	1,280	1,511	\$15,110
Saddleback	3,048	10,733	13,781	\$137,810
Jericho	1857	5,546	7,403	\$74,030
Sub total	6,951	27,483	34,434	344,341
RECs Sold	\$0		0	\$0
Grand Total	6,951	27,483	34,434	\$344,341

TRANSMISSION

The RMLD's total transmission costs for the month of December, 2017 were \$858,764. This is a decrease of 15.70% from the November transmission cost of \$1,018,655. In December, 2016 the transmission costs were \$863,599.

Table 6

	Current Month	Last Month	Last Year
Peak Demand (kW)	104,381	103,397	107,565
Energy (kWh)	58,902,789	51,836,281	58,589,656
Energy (\$)	\$2,979,091	\$2,426,851	\$2,986,249
Capacity (\$)	\$2,021,055	\$2,151,979	\$1,795,516
Transmission(\$)	\$858,764	\$1,018,655	\$863,599
Total	\$5,858,910	\$5,597,485	\$5,645,364

FINANCIAL REPORT
DECEMBER 2017
ATTACHMENT 3

Town of Reading, Massachusetts
Municipal Light Department
Statement of Net Assets
December 31, 2017

	<u>2018</u>	<u>2017</u>
ASSETS		
Current:		
Unrestricted Cash	\$16,188,160.66	\$14,747,957.77
Restricted Cash	30,052,338.88	22,982,841.74
Restricted Investments	1,329,906.48	1,345,663.06
Receivables, Net	9,132,416.38	9,566,223.57
Prepaid Expenses	541,285.18	1,129,845.45
Inventory	1,523,679.31	1,580,914.76
Total Current Assets	<u>58,767,786.89</u>	<u>51,353,446.35</u>
Noncurrent:		
Investment in Associated Companies	212,427.92	26,993.75
Capital Assets, Net	76,694,501.74	72,977,009.04
Total Noncurrent Assets	<u>76,906,929.66</u>	<u>73,004,002.79</u>
Deferred Outflows - Pension Plan	4,135,078.00	6,338,218.00
TOTAL ASSETS	<u><u>139,809,794.55</u></u>	<u><u>130,695,667.14</u></u>
 LIABILITIES		
Current		
Accounts Payable	8,086,088.84	6,993,293.51
Accrued Liabilities	560,581.03	653,144.48
Customer Deposits	1,151,612.67	1,024,765.67
Customer Advances for Construction	1,298,917.59	1,028,449.93
Total Current Liabilities	<u>11,097,200.13</u>	<u>9,699,653.59</u>
Non-current		
Accrued Employee Compensated Absences	3,150,134.05	3,257,809.00
Net OPEB Obligation	138,068.00	0.00
Net Pension Liability	13,076,538.00	8,833,549.00
Total Non-current Liabilities	<u>16,364,740.05</u>	<u>12,091,358.00</u>
Deferred Inflows - Pension Plan	714,888.00	883,172.00
TOTAL LIABILITIES	<u>28,176,828.18</u>	<u>22,674,183.59</u>
 NET POSITION		
Invested in Capital Assets, Net of Related Debt	76,694,501.74	72,977,009.04
Restricted for Depreciation Fund	4,353,133.17	5,631,360.93
Restricted for Pension Trust	5,683,014.26	0.00
Unrestricted	24,902,317.20	29,413,113.58
TOTAL NET POSITION	<u><u>111,632,966.37</u></u>	<u><u>108,021,483.55</u></u>
Total Liabilities and Net Assets	<u><u>139,809,794.55</u></u>	<u><u>130,695,667.14</u></u>

Town of Reading, Massachusetts
Municipal Light Department
Schedule of Cash and Investments
December 31, 2017

	<u>2018</u>	<u>2017</u>
Unrestricted Cash		
Cash - Operating Fund	\$16,184,660.66	\$14,744,957.77
Cash - Petty Cash	3,500.00	3,000.00
Total Unrestricted Cash	<u>16,188,160.66</u>	<u>14,747,957.77</u>
Restricted Cash		
Cash - Depreciation Fund	4,353,133.17	5,743,806.16
Cash - Construction Fund	1,200,000.00	(112,445.23)
Cash - Town Payment	1,970,995.02	1,900,333.98
Cash - Deferred Fuel Reserve	5,327,418.88	4,536,119.09
Cash - Rate Stabilization Fund	6,929,387.99	6,848,427.56
Cash - Pension Trust	5,683,014.26	0.00
Cash - Uncollectible Accounts Receivable	200,000.00	200,000.00
Cash - Sick Leave Benefits	1,852,597.56	1,940,334.17
Cash - Hazard Waste Reserve	750,000.00	150,000.00
Cash - Customer Deposits	1,151,612.67	1,024,765.67
Cash - Energy Conservation	634,179.33	751,500.34
Total Restricted Cash	<u>30,052,338.88</u>	<u>22,982,841.74</u>
Investments		
Sick Leave Buyback	1,329,906.48	1,345,663.06
Total	<u><u>47,570,406.02</u></u>	<u><u>39,076,462.57</u></u>

**TOWN OF READING, MASSACHUSETTS
MUNICIPAL LIGHT DEPARTMENT
RECONCILIATION OF CAPITAL FUNDS
12/31/2017**

SOURCE OF CAPITAL FUNDS:

DEPRECIATION FUND BALANCE 7/1/17	2,406,969.15
CONSTRUCTION FUND BALANCE 7/1/17	2,500,000.00
ADDITIONAL FUNDS ADDED TO CONSTRUCTION FUND BALANCE 12/31/17	1,200,000.00
INTEREST ON DEPRECIATION FUND FY 18	29,729.23
DEPRECIATION TRANSFER FY 18	<u>2,152,994.52</u>
TOTAL SOURCE OF CAPITAL FUNDS	8,289,692.90

USE OF CAPITAL FUNDS:

ADDITIONS TO PLANT THRU DECEMBER 2017	
TOTAL USE OF CAPITAL FUNDS	2,736,559.73
GENERAL LEDGER CAPITAL FUNDS BALANCE 12/31/17	<u><u>5,553,133.17</u></u>

Town of Reading, Massachusetts
Municipal Light Department
Statement of Revenues, Expenses and Changes in Fund Net Assets
December 31, 2017

	Month Current Year	Month Last Year	Year to Date Current Year	Year to Date Last Year	Percent Change
Operating Revenue					
Base Revenue	\$2,014,624.82	\$1,970,195.55	\$13,398,441.70	\$13,522,803.32	(0.9%)
Fuel Revenue	2,178,059.00	2,573,056.92	14,509,878.39	17,129,536.64	(15.3%)
Purchased Power Capacity	3,116,734.60	2,453,637.87	19,884,640.43	17,830,948.53	11.5%
Forfeited Discounts	71,196.55	66,416.22	434,644.57	456,872.78	(4.9%)
Energy Conservation Revenue	50,774.73	51,151.08	338,748.79	350,942.52	(3.5%)
NYPA Credit	(92,556.22)	(91,202.42)	(494,630.72)	(534,547.18)	(7.5%)
Total Operating Revenue	7,338,833.48	7,023,255.22	48,071,723.16	48,756,556.61	(1.4%)
Expenses					
Power Expenses:					
547 Purchased Power Fuel Expense	2,980,050.47	2,986,248.94	14,709,416.40	17,175,745.04	(14.4%)
555 Purchased Power Capacity	2,069,062.88	1,802,095.92	12,662,049.77	10,272,863.98	23.3%
565 Purchased Power Transmission	858,763.98	863,599.00	7,458,227.96	7,091,289.59	5.2%
Total Purchased Power	5,907,877.33	5,651,943.86	34,829,694.13	34,539,898.61	0.8%
Operations and Maintenance Expenses:					
580 Supervision and Engineering	58,301.63	35,240.67	283,028.38	238,100.41	18.9%
581 Station Supervision	12,526.89	8,343.42	74,291.30	68,665.36	8.2%
581 Line General	72,387.29	56,029.79	345,328.77	310,706.06	11.1%
582 Control Room	39,443.54	40,903.29	205,465.95	250,883.35	(18.1%)
585 Street Lighting	25,964.18	8,862.10	33,021.80	132,468.71	(75.1%)
586 Meter General	20,063.56	14,507.25	122,653.51	101,905.99	20.4%
588 Materials Management	51,669.94	49,957.46	253,420.38	213,764.07	18.6%
590 Maintenance of Structures and Equipment	43,252.70	23,661.36	225,510.22	237,090.12	(4.9%)
593 Maintenance of Lines - Overhead	139,705.86	134,041.87	792,414.01	899,160.99	(11.9%)
594 Maintenance of Lines - Underground	3,509.62	23,953.09	52,661.45	153,725.35	(65.7%)
595 Maintenance of Line Transformers	46,156.66	464.50	61,284.21	18,387.89	233.3%
Total Operations and Maintenance Expenses	512,981.87	395,964.80	2,449,079.98	2,624,858.30	(6.7%)
General & Administration Expenses:					
902 Meter Reading	5,384.43	1,857.31	17,223.40	13,035.48	32.1%
903 Customer Collections	147,598.57	152,509.46	812,542.44	861,985.96	(5.7%)
904 Uncollectible Accounts	12,500.00	12,500.00	75,000.00	75,000.00	0.0%
916 Energy Audit	43,436.12	33,480.54	238,245.60	242,801.94	(1.9%)
916 Energy Conservation	86,211.24	90,223.13	307,512.61	316,860.42	(3.0%)
920 Administrative and General Salaries	97,458.14	71,663.53	537,783.16	477,382.86	12.7%
921 Office Supplies and Expense	28,450.32	44,708.66	151,195.35	151,102.83	0.1%
923 Outside Services	150,654.56	140,654.41	424,063.31	337,474.60	25.7%
924 Property Insurance	28,148.98	27,650.70	168,893.93	166,286.30	1.6%
925 Injuries and Damages	1,200.88	3,562.53	25,521.25	26,762.30	(4.6%)
926 Employee Pensions and Benefits	248,346.21	273,781.81	1,549,162.71	1,520,499.13	1.9%
930 Miscellaneous General Expense	3,752.17	15,951.02	64,248.23	73,419.16	(12.5%)
931 Rent Expense	13,445.63	15,030.63	96,079.04	84,171.52	14.1%
933 Transportation Expense	37,102.36	0.00	151,704.06	0.00	(100.0%)
933 Transportation Expense Capital Clearing	(24,251.50)	0.00	(175,103.20)	0.00	100.0%
935 Maintenance of General Plant	34,491.07	64,322.49	198,454.02	168,935.86	17.5%
935 Maintenance of Building & Garage	43,607.96	35,081.75	233,478.01	249,426.62	(6.4%)
Total General & Administration Expenses	957,537.14	982,977.97	4,876,003.92	4,765,144.98	2.3%

Town of Reading, Massachusetts
Municipal Light Department
Statement of Revenues, Expenses and Changes in Fund Net Assets
December 31, 2017

	Month Current Year	Month Last Year	Year to Date Current Year	Year to Date Last Year	Percent Change
Other Operating Expenses:					
403 Depreciation	358,832.42	341,775.67	2,152,994.52	2,050,654.02	5.0%
408 Voluntary Payments to Towns	126,851.67	113,372.00	761,110.02	703,372.00	8.2%
Total Other Expenses	485,684.09	455,147.67	2,914,104.54	2,754,026.02	5.8%
Operating Income	(525,246.95)	(462,779.08)	3,002,840.59	4,072,628.70	(26.3%)
Non Operating Revenue (Expenses):					
419 Interest Income	23,123.95	15,485.65	115,182.36	73,472.79	56.8%
419 Other	53,731.57	(1,457.07)	359,411.17	256,154.73	40.3%
426 Return on Investment to Reading	(201,647.50)	(198,722.35)	(1,209,885.00)	(1,192,334.00)	1.5%
431 Interest Expense	(479.05)	(1,960.60)	(2,642.19)	(2,925.91)	(9.7%)
Total Non Operating Revenue (Expenses)	(125,271.03)	(186,654.37)	(737,933.66)	(865,632.39)	(14.8%)
Change in Net Assets	(650,517.98)	(649,433.45)	2,264,906.93	3,206,996.31	(29.4%)
Net Assets at Beginning of Year	109,368,059.44	104,814,487.24	109,368,059.44	104,814,487.24	4.3%
Ending Net Assets	108,717,541.46	104,165,053.79	111,632,966.37	108,021,483.55	3.3%

Town of Reading, Massachusetts
Municipal Light Department
Statement of Budgeted Revenues, Expenses and Changes in Fund Net Assets
December 31, 2017

	Actual Year to Date	Budget Full Year	Remaining Budget	Remaining Budget %
Operating Revenue				
Base Revenue	\$13,398,441.70	\$26,337,621.00	\$12,939,179.30	49.1%
Fuel Revenue	14,509,878.39	32,491,810.00	17,981,931.61	55.3%
Purchased Power Capacity	19,884,640.43	38,088,978.00	18,204,337.57	47.8%
Forfeited Discounts	434,644.57	800,000.00	365,355.43	45.7%
Energy Conservation Revenue	338,748.79	675,000.00	336,251.21	49.8%
NYPA Credit	(494,630.72)	(1,200,000.00)	(705,369.28)	58.8%
Total Operating Revenue	48,071,723.16	97,193,409.00	49,121,685.84	50.5%
Expenses				
Power Expenses:				
547 Purchased Power Fuel Expense	14,709,416.40	31,291,810.00	16,582,393.60	53.0%
555 Purchased Power Capacity	12,662,049.77	24,476,161.00	11,814,111.23	48.3%
565 Purchased Power Transmission	7,458,227.96	13,612,817.00	6,154,589.04	45.2%
Total Purchased Power	34,829,694.13	69,380,788.00	34,551,093.87	49.8%
Operations and Maintenance Expenses:				
580 Supervision and Engineering	283,028.38	764,615.00	481,586.62	63.0%
581 Station Supervisor	74,291.30	130,662.00	56,370.70	43.1%
581 Line General	345,328.77	596,007.00	250,678.23	42.1%
582 Control Room	205,465.95	466,783.00	261,317.05	56.0%
585 Street Lighting	33,021.80	156,893.00	123,871.20	79.0%
586 Meter General	122,653.51	212,909.00	90,255.49	42.4%
588 Materials Management	253,420.38	458,328.00	204,907.62	44.7%
590 Maintenance of Structures and Equipment	225,510.22	494,936.00	269,425.78	54.4%
593 Maintenance of Lines - Overhead	792,414.01	1,980,611.00	1,188,196.99	60.0%
594 Maintenance of Lines - Underground	52,661.45	197,002.00	144,340.55	73.3%
595 Maintenance of Line Transformers	61,284.21	300,000.00	238,715.79	79.6%
Total Operations and Maintenance Expenses	2,449,079.98	5,758,746.00	3,309,666.02	57.5%
General & Administration Expenses:				
902 Meter Reading	17,223.40	37,461.00	20,237.60	54.0%
903 Customer Collection	812,542.44	1,869,393.00	1,056,850.56	56.5%
904 Uncollectible Accounts	75,000.00	150,000.00	75,000.00	50.0%
916 Energy Audit	238,245.60	509,232.00	270,986.40	53.2%
916 Energy Conservation	307,512.61	952,565.00	645,052.39	67.7%
920 Administrative and General Salaries	537,783.16	1,017,151.00	479,367.84	47.1%
921 Office Supplies and Expense	151,195.35	350,000.00	198,804.65	56.8%
923 Outside Services	424,063.31	759,191.00	335,127.69	44.1%
924 Property Insurance	168,893.93	427,200.00	258,306.07	60.5%
925 Injuries and Damages	25,521.25	52,613.00	27,091.75	51.5%
926 Employee Pensions and Benefits	1,549,162.71	3,000,437.00	1,451,274.29	48.4%
930 Miscellaneous General Expense	64,248.23	179,215.00	114,966.77	64.2%
931 Rent Expense	96,079.04	212,000.00	115,920.96	54.7%
933 Transportation Expense	151,704.06	381,116.00	229,411.94	60.2%
933 Transportation Expense Capital Clearing	(175,103.20)	(301,596.00)	(126,492.80)	41.9%
935 Maintenance of General Plant	198,454.02	281,880.00	83,425.98	29.6%
935 Maintenance of Building & Garage	233,478.01	666,457.00	432,978.99	65.0%
Total General & Administration Expenses	4,876,003.92	10,544,315.00	5,668,311.08	53.8%

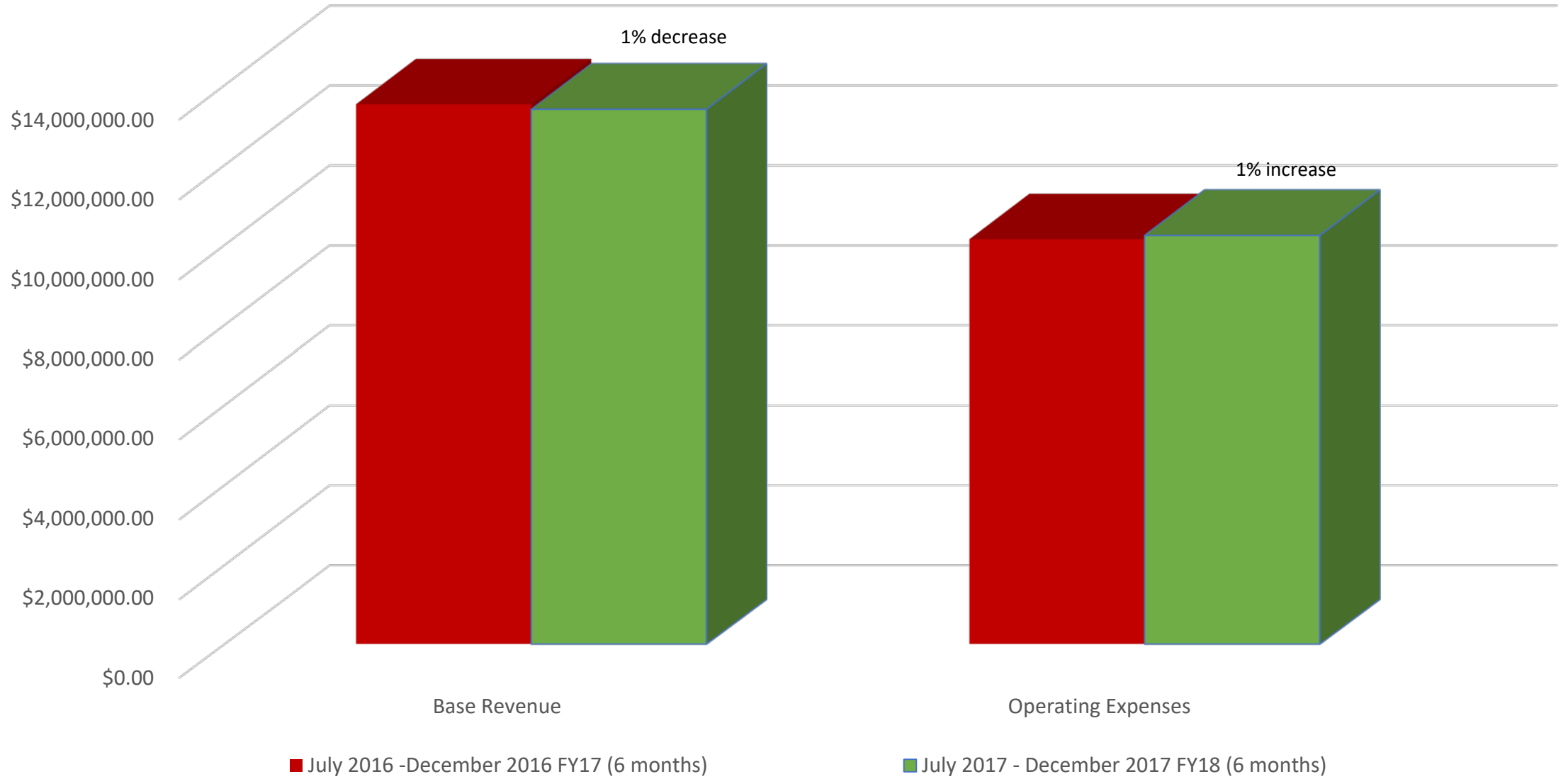
Town of Reading, Massachusetts
Municipal Light Department
Statement of Budgeted Revenues, Expenses and Changes in Fund Net Assets
December 31, 2017

	Actual Year to Date	Budget Full Year	Remaining Budget	Remaining Budget %
Other Operating Expenses:				
403 Depreciation	2,152,994.52	4,362,000.00	2,209,005.48	50.6%
408 Voluntary Payments to Towns	761,110.02	1,500,000.00	738,889.98	49.3%
Total Other Expenses	<u>2,914,104.54</u>	<u>5,862,000.00</u>	<u>2,947,895.46</u>	<u>50.3%</u>
Operating Income	3,002,840.59	5,647,560.00	2,644,719.41	46.8%
Non Operating Revenue (Expenses):				
419 Interest Income	115,182.36	150,000.00	34,817.64	23.2%
419 Other Income	359,411.17	890,000.00	530,588.83	59.6%
426 Return on Investment to Reading/Loss on Disposal	(1,209,885.00)	(2,570,438.00)	(1,360,553.00)	52.9%
431 Interest Expense	(2,642.19)	(2,500.00)	142.19	(5.7%)
Total Non Operating Revenue (Expenses)	<u>(737,933.66)</u>	<u>(1,532,938.00)</u>	<u>(795,004.34)</u>	<u>51.9%</u>
Net Income	<u>2,264,906.93</u>	<u>4,114,622.00</u>	<u>1,849,715.07</u>	<u>45.0%</u>

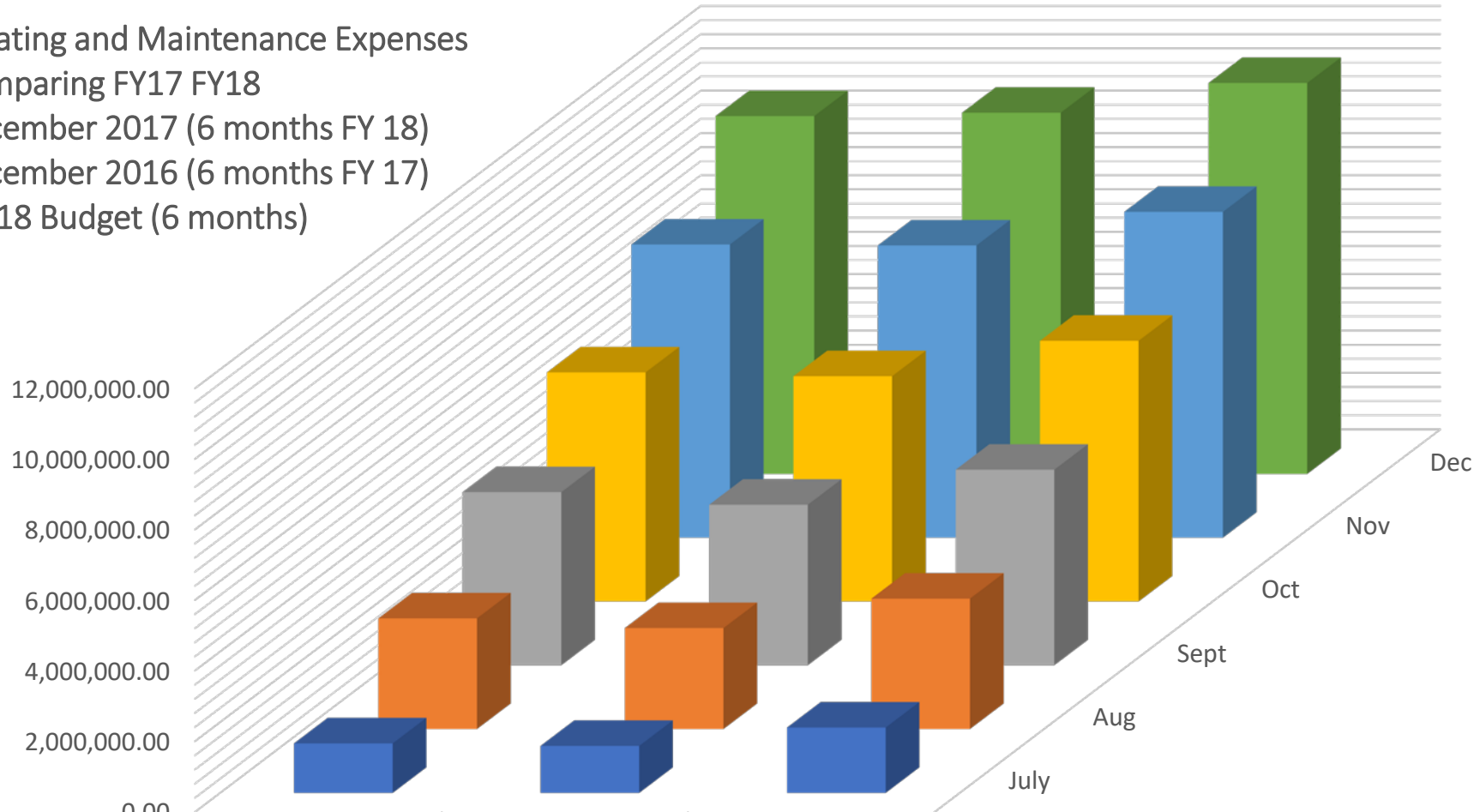
FINANCIAL REPORT DECEMBER, 2017

Base Revenue & Operating Expenses Comparison

July 2016 – December 2016 (6 months FY17) and July 2017 - December 2017 (6 months FY18)



Year to Date Operating and Maintenance Expenses
 Comparing FY17 FY18
 July 2017 – December 2017 (6 months FY 18)
 July 2016 – December 2016 (6 months FY 17)
 and FY18 Budget (6 months)



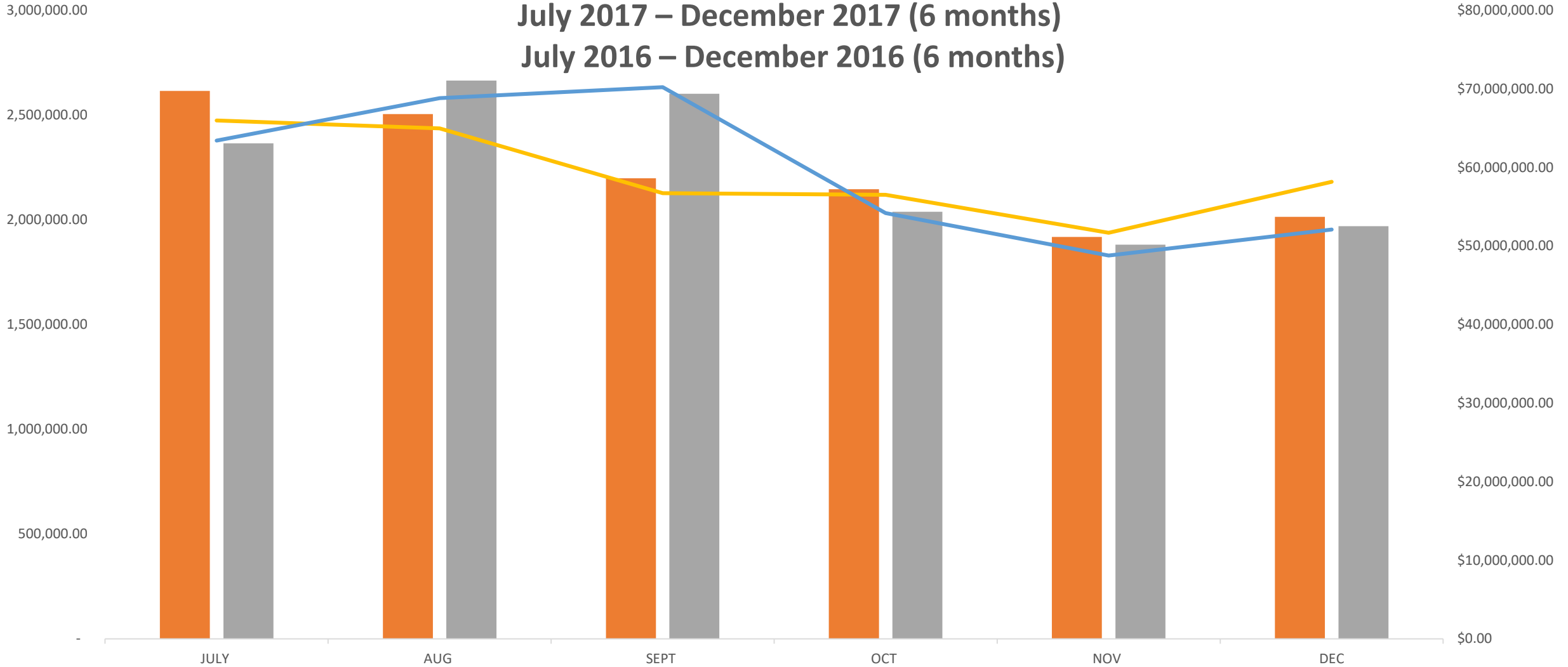
	Year to Date FY17 Actual	Year to Date FY18 Actual	Year to Date Budget
July	1,399,966.01	1,327,675.32	1,847,088.42
Aug	3,134,666.17	2,859,053.02	3,694,176.84
Sept	4,904,753.21	4,548,251.89	5,541,265.26
Oct	6,493,213.21	6,385,101.99	7,388,353.68
Nov	\$8,309,938.86	\$8,282,985.34	\$9,235,442.10
Dec	\$10,144,029.30	\$10,239,188.44	\$11,082,530.52

KWH sold

Base Revenue and KWH Sold by Month Comparison

July 2017 – December 2017 (6 months)
July 2016 – December 2016 (6 months)

Base Rev \$



BASE REV JULY 17-DEC 17 BASE REV JULY 16-DEC 16 KWH SOLD JULY 17-DEC 17 KWH SOLD JULY 16-DEC 16

ENGINEERING & OPERATIONS REPORT
DECEMBER 2017
ATTACHMENT 4



Engineering & Operations Report

RMLD Board of Commissioners Meeting
February 22, 2018

December 2017 Reporting Period

Hamid Jaffari, Director of Engineering & Operations

Engineering & Operations

Capital Improvement Projects

Project #	DESCRIPTION	% COMPLETE	DEC	YTD ACTUAL	BUDGETED	REMAINING BALANCE
100	Distributed Gas Generation Pilot (Demand Management)	100%		186,561	-	(186,561)
102	Pad mount Switchgear Upgrade at Industrial Parks	8%	9,589	244,257	196,285	(47,972)
103	Grid Modernization and Optimization	On-going	34,233	131,544	227,183	95,639
105	New Wilmington Substation	6%	716	19,702	650,000	630,298
106	Underground Facilities Upgrades (URDs, Manholes, etc.)	On-going	14,885	124,382	344,725	220,343
107	13.8kV Upgrade (Step-down Areas, etc.)	On-going	26,721	46,349	70,851	24,502
108	115 kV Transmission Line Upgrade	50%	19,460	29,958	95,098	65,140
109	35 kV Underground Cable Upgrade Station 4, 5 and RR ROW	0%		-	206,817	206,817
110	4W9 Getaway Replacement - Station 4	100%		131,611	-	(131,611)
111	Substation Equipment Upgrade	On-going		-	50,218	50,218
112	AMI Mesh Network Expansion	On-going		-	120,311	120,311
116	Transformers & Capacitors	On-going	104,502	110,145	560,500	450,355
117	Meter Purchases	On-going	12,096	15,963	60,000	44,037
125	GIS	100%		96,802	218,726	121,924
126	Communication Equipment (Fiber Optic)	On-going		-	214,629	214,629
130	Remote Terminal Unit (RTU) Replacement - Station 3	100%		27,164	-	(27,164)
131	LED Street Lights Upgrade - All Towns	87%	66,968	391,148	1,169,332	778,184
133	Station 3: Relay Upgrades and SCADA Integration	100%	675	20,548	76,103	55,555
137	Pole Line Upgrade - Woburn Street (West to Concord), W	10%		1,200	200,284	199,084
138	Station 3 Reactors	20%		157,992	561,347	403,355
175	Pole Replacement Program	On-going		58,868	209,000	150,132
458	Secondary and Main Replacement Program	On-going	15,198	61,198	222,285	161,087
various	New Service Installations (Residential/Commercial/Industrial)	On-going	17,429	69,034	155,936	86,902

Engineering & Operations

Routine Capital Construction

Description	DEC	YTD
Pole Setting/Transfers	25,918	94,776
Overhead/Underground	12,638	146,679
Projects Assigned as Required	-	78,446
Pole Damage/Knockdowns - Some Reimbursable <ul style="list-style-type: none"> Work was done to repair or replace six (6) poles. 	12,933	69,615
Station Group	-	9,991
Hazmat/Oil Spills	-	-
Porcelain Cutout Replacement Program	-	-
Lighting (Street Light Connections)	5,629	22,472
Storm Trouble	4,696	71,813
Underground Subdivisions (new construction) <ul style="list-style-type: none"> Nichols Street Extension, North Reading 	4,762	68,270
Animal Guard Installation	-	415
Miscellaneous Capital Costs	59,517	110,429
TOTAL	<u>\$126,093</u>	<u>\$672,906</u>

Facilities, IRD and IT Capital Projects/Purchases

	DEC	ACTUAL YTD	FY18 BUDGET	REMAINING BALANCE
Facilities	19,142	81,001	657,000	575,999
Integrated Resources Division (IRD)		14,808	35,000	20,192
Information Technology (IT)	31,888	43,417	340,000	296,583

TOTAL CAPITAL SPENDING YTD (All Divisions)

DEC	YTD	FY18 BUDGET	REMAINING BALANCE
\$499,594	\$2,736,558	\$7,685,521	\$4,948,963

Routine Maintenance

- ▶ **Transformer Replacement** (through December 2017)

Pad mount 28.24%

Overhead 18.92%

- ▶ **Pole Inspection** (as of 2/8/2018)

180 poles have been replaced

165 of 180 transfers have been completed

- ▶ **Quarterly Inspection of Feeders** (as of 1/12/2018)

Inspected Circuits (Jan-Mar): 3W7, 3W8, 3W14, 3W18, 4W4, 4W6, 4W9, 4W24, 5W4, 5W5, 5W6, 5W8, 5W9

- ▶ **Manhole Inspection** (through December 2017)

961 of 1,237 manholes have been inspected.

- ▶ **Porcelain Cutout Replacement** (through December 2017)

91% complete

247 remaining to be replaced



Routine Maintenance

(continued)

► Tree Trimming

Dec: 83 spans

YTD: 657 spans through December

► Substation Maintenance

Infrared Scanning – through December complete – no hot spots found

► Underground Subdivisions Upgrade

Recent Completed: Crestwood Estates (NR), Aspen Road (NR), Long Hill Lane (NR)

In Progress: Shasta Drive (NR), Westover Drive (LF), Greenbriar Drive (NR),
Great Neck Drive (W), Gandalf Estates (W), Deerfield Place (NR)

Double Poles

➤ Ownership: 16,000 (approximately)

50% RMLD

50% Verizon

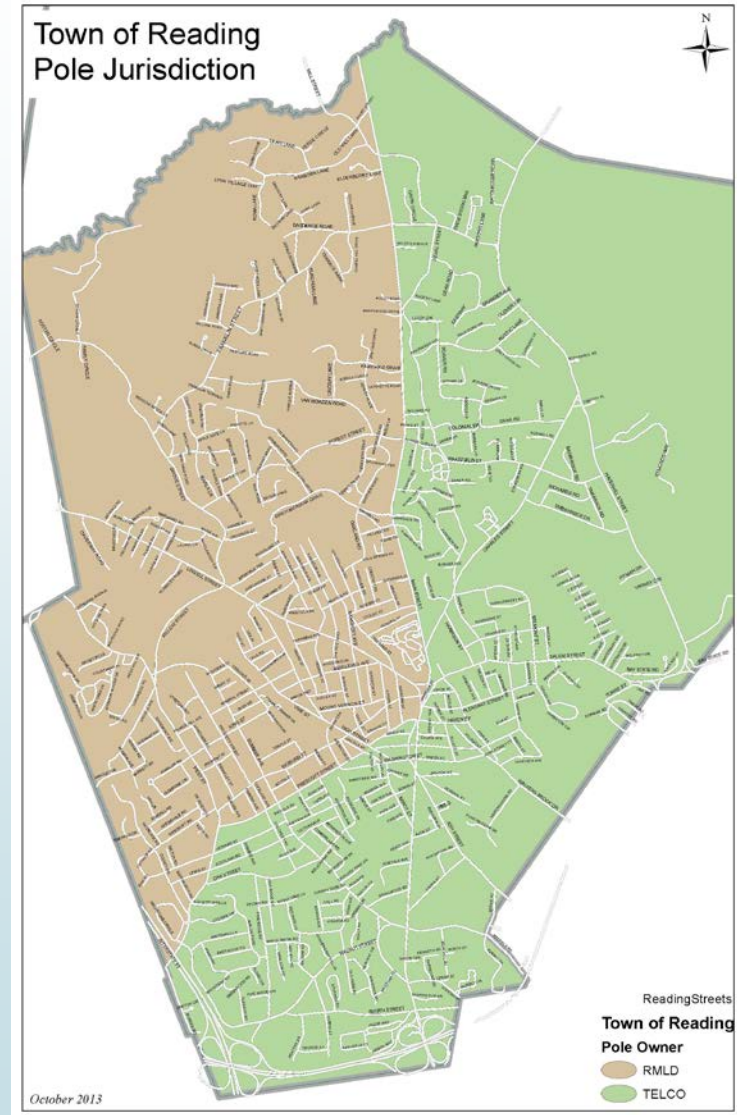
➤ Custodial:

Reading – split (see map) →

North Reading – RMLD

Lynnfield – Verizon

Wilmington - Verizon



NJUNS

"Next to Go" as of February 12, 2018

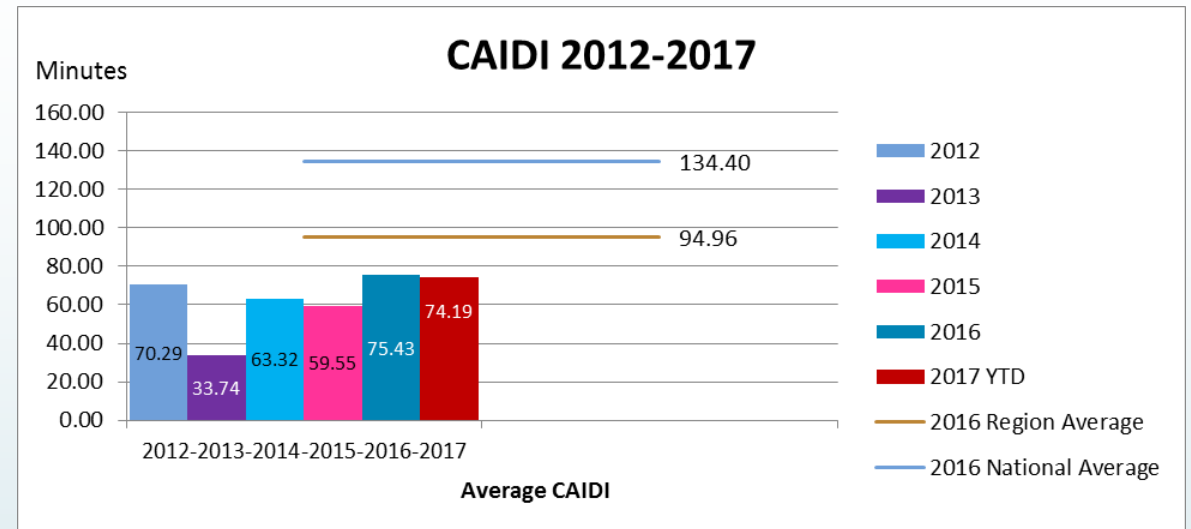
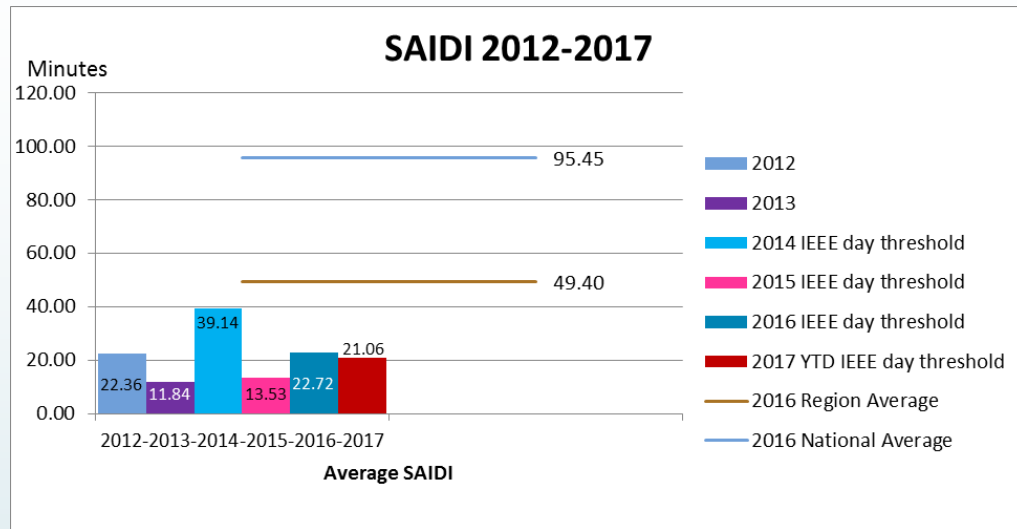
LYNNFIELD		Count of Ticket
NTG Member and JobType		Number
<input type="checkbox"/> LFLDFD		6
<input type="checkbox"/> Lynnfield Fire Department		
TRANSFER		6
<input type="checkbox"/> RMLD		5
<input type="checkbox"/> Reading Municipal Light Department		
TRANSFER		5
<input type="checkbox"/> VZNEA		5
<input type="checkbox"/> Verizon Massachusetts		
TRANSFER		5
<input type="checkbox"/> (blank)		
Grand Total		16

NORTH READING		Count of Ticket
NTG Member and JobType		Number
<input type="checkbox"/> CMCTNR		2
<input type="checkbox"/> Comcast Massachusetts		
TRANSFER		2
<input type="checkbox"/> NRDFD		38
<input type="checkbox"/> North Reading Fire Department		
TRANSFER		38
<input type="checkbox"/> RMLD		29
<input type="checkbox"/> Reading Municipal Light Department		
TRANSFER		12
PULL POLE		17
<input type="checkbox"/> VZNEDR		32
<input type="checkbox"/> Verizon Massachusetts		
TRANSFER		29
PULL POLE		3
<input type="checkbox"/> (blank)		
Grand Total		101

READING		Count of Ticket
NTG Member and Job Type		Number
<input type="checkbox"/> CMCTNR		13
<input type="checkbox"/> Comcast Massachusetts		
TRANSFER		13
<input type="checkbox"/> NP3PMA		4
<input type="checkbox"/> Non-participating 3rd Party Attacher - Massachusetts		
TRANSFER		4
<input type="checkbox"/> RDNGFD		3
<input type="checkbox"/> Reading Fire Department		
TRANSFER		3
<input type="checkbox"/> RMLD		82
<input type="checkbox"/> Reading Municipal Light Department		
TRANSFER		23
PULL POLE		59
<input type="checkbox"/> VZNEA		13
<input type="checkbox"/> Verizon Massachusetts		
TRANSFER		11
PULL POLE		2
<input type="checkbox"/> (blank)		
Grand Total		115

WILMINGTON		Count of Ticket
NTG Member and JobType		Number
<input type="checkbox"/> RMLD		35
<input type="checkbox"/> Reading Municipal Light Department		
TRANSFER		31
PULL POLE		4
<input type="checkbox"/> VZNEDR		50
<input type="checkbox"/> Verizon Massachusetts		
TRANSFER		48
PULL POLE		2
<input type="checkbox"/> WLMFIB		10
<input type="checkbox"/> Town of Wilmington		
TRANSFER		10
<input type="checkbox"/> WMGNFD		80
<input type="checkbox"/> Wilmington Fire Department		
TRANSFER		80
<input type="checkbox"/> (blank)		
Grand Total		175

RMLD Reliability Indices

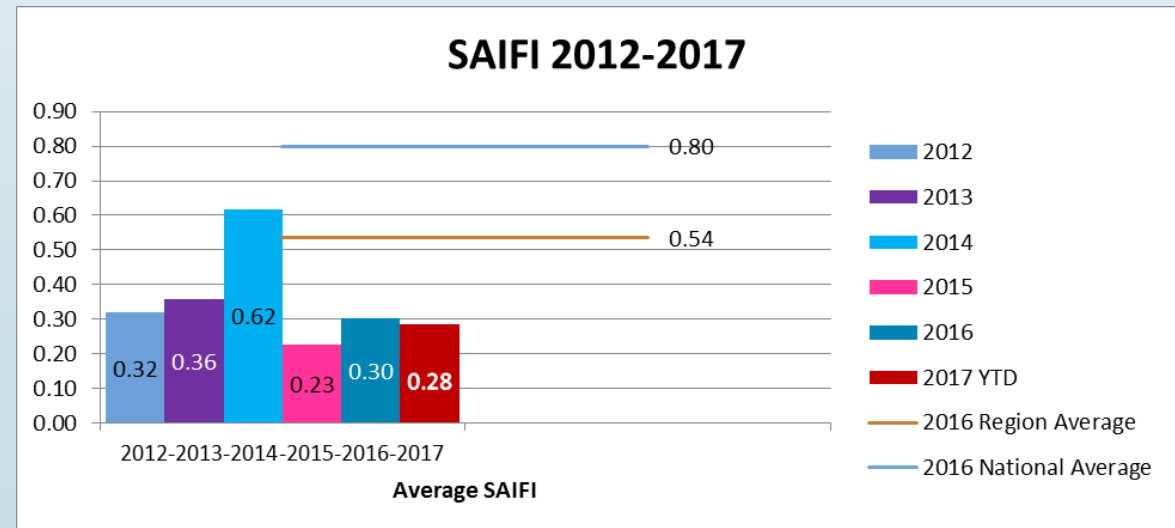


$$SAIDI \text{ (Minutes)} = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customers Served}}$$

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

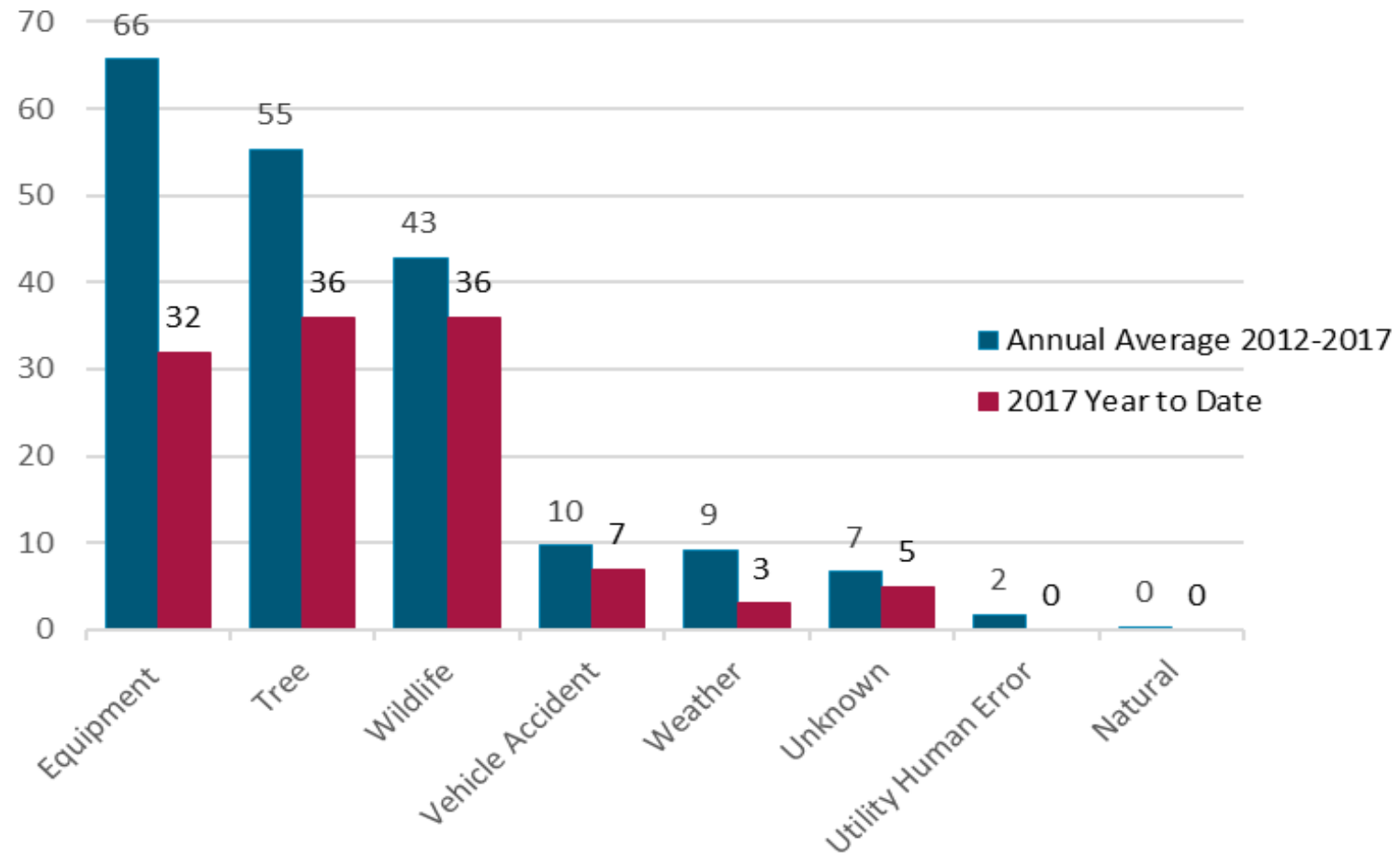
Note: The major event (ME) threshold allows a utility to remove outages that exceed the IEEE 2.5 beta threshold for events. These events could be severe weather, which can lead to unusually long outages in comparison to your distribution system's typical outage.

$$SAIFI = \frac{\text{Total Number of Customer Interruptions}}{\text{Total Number of Customers Served}}$$



Note: Regional and national averages have been updated for 2016.

Causes of Outages - 2017 YTD December



Questions ?



RMLD PROCUREMENT REQUEST
REQUIRING BOARD APPROVAL
ATTACHMENT 5



February 6, 2018

Town of Reading Municipal Light Board

Subject: IFB 2018-34 HVAC and Ice Machine Preventative Maintenance and Repair Service

Pursuant to M.G.L. c. 30, § 39M, on January 17, 2018, an invitation for bid (IFB) requesting sealed bids for HVAC and Ice Machine Preventative Maintenance and Repair Service was advertised in the Commonwealth of Massachusetts Central Register. On January 17, 2018, the IFB was placed as a legal notice in the Middlesex East section of the Daily Times Chronicle, posted on COMMBUYS, the RMLD website, and the RMLD bulletin board.

An invitation for bid was sent to the following twenty-four companies:

Ambient Temperature Corporation	Boston Mechanical Services (Division of NB Kenney)	Breen & Sullivan Mechanical Services, Inc.
Carriere HVAC, Inc.	Central Cooling & Heating, Inc.	Controlled Systems HVAC, Inc.
Cooling & Heating Specialists, Inc.	Cooling Unlimited, Inc.	Cranney Companies, Inc.
Daikin	Enoch C. Shaw Company, Inc.	Falite Bros., Inc.
GovWin+Onvia	Honeywell	Huntington Controls
Johnson Controls, Inc.	Lake Industries, Inc.	Limbach Company
Mechanical Air Controls, Inc.	Prime Vendor, Inc.	Projectdog, Inc.
Siemens Industry, Inc.	Stebbins-Duffy	Total Temperature Control, Inc.

Sealed bids were received from four companies: Ambient Temperature Corporation, Cooling & Heating Specialists, Inc., Johnson Controls, Inc., and Limbach Company.

The sealed bids were publicly opened and read aloud at 11:00 a.m. on January 31, 2018, in the Town of Reading Municipal Light Department's Audio Visual Spurr Room, 230 Ash Street, Reading, Massachusetts.

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

Move that bid 2018-34 for HVAC and Ice Machine Preventative Maintenance and Repair Service be awarded to: **Ambient Temperature Corporation for \$89,808.00**, pursuant to M.G.L. c. 30, § 39M, as the lowest responsible and eligible bidder on the recommendation of the General Manager. This is a three-year contract.

RMLD



Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

These services will be paid from the Operating Budget.

Paul McGonagle

Paul McGonagle

Hamid Jaffari

Hamid Jaffari

Coleen O'Brien

Coleen O'Brien

**HVAC and Ice Machine Preventative Maintenance and
Repair Service
M.G.L. c. 30, § 39M
Bid 2018-34**

<u>Bidder</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Combined 3- Year Total</u>	<u>Responsive Bidder</u>	<u>Exceptions</u>
Ambient Temperature Corporation					Yes	No
PM Service	\$29,936.00	\$29,936.00	\$29,936.00	\$89,808.00		
Hourly Labor Rate Regular	\$130.00	\$133.00	\$136.00			
Hourly Labor Rate Off Hours	\$195.00	\$199.00	\$204.00			
Parts Mark-up %	18%	18%	18%			
Cooling & Heating Specialists, Inc.					Yes	No
PM Service	\$32,958.00	\$32,958.00	\$32,958.00	\$98,874.00		
Hourly Labor Rate Regular	\$118.00	\$120.00	\$122.00			
Hourly Labor Rate Off Hours	\$177.00	\$180.00	\$183.00			
Parts Mark-up %	20%	20%	20%			
Johnson Controls, Inc.					Yes	No
PM Service	\$41,638.22	\$42,054.78	\$42,475.14	\$126,168.14		
Hourly Labor Rate Regular	\$159.25	\$164.03	\$168.95			
Hourly Labor Rate Off Hours	\$238.88	\$246.05	\$253.43			
Parts Mark-up %	15%	15%	15%			
Limbach Company					Yes	No
PM Service	\$29,994.00	\$29,994.00	\$30,943.00	\$90,931.00		
Hourly Labor Rate Regular	\$135.00	\$135.00	\$140.00			
Hourly Labor Rate Off Hours	\$202.50	\$202.50	\$210.00			
Parts Mark-up %	20%	20%	20%			

BOARD MATERIAL AVAILABLE
BUT NOT DISCUSSED

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

February-18

	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	\$122.48	\$213.82	\$149.47	\$1,079.34	\$206.98	\$5,041.05	\$810,855.17
PER KWH CHARGE	\$0.16331	\$0.14255	\$0.14947	\$0.14785	\$0.19165	\$0.14403	\$0.11786
NATIONAL GRID							
TOTAL BILL	\$176.21	\$407.40	\$220.64	\$1,684.69	\$257.76	\$6,411.12	\$1,169,516.60
PER KWH CHARGE	\$0.23494	\$0.27160	\$0.22064	\$0.23078	\$0.23867	\$0.18317	\$0.17000
% DIFFERENCE	43.86%	90.54%	47.61%	56.09%	24.54%	27.18%	44.23%
EVERSOURCE(NSTAR)							
TOTAL BILL	\$179.24	\$291.96	\$236.84	\$1,588.38	\$259.97	\$7,553.17	\$1,383,766.70
PER KWH CHARGE	\$0.23898	\$0.19464	\$0.23684	\$0.21759	\$0.24071	\$0.21580	\$0.20114
% DIFFERENCE	46.34%	36.54%	58.45%	47.16%	25.60%	49.83%	70.66%
PEABODY MUNICIPAL LIGHT PLANT							
TOTAL BILL	\$79.70	\$153.20	\$104.20	\$885.59	\$141.20	\$4,389.33	\$575,406.92
PER KWH CHARGE	\$0.10627	\$0.10213	\$0.10420	\$0.12131	\$0.13074	\$0.12541	\$0.08364
% DIFFERENCE	-34.93%	-28.35%	-30.29%	-17.95%	-31.78%	-12.93%	-29.04%
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	-19.39%	-5.69%	-11.19%	-11.10%	-18.62%	-5.52%	-0.45%
WAKEFIELD MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$132.36	\$247.17	\$166.88	\$1,257.54	\$199.78	\$5,910.58	\$1,007,556.30
PER KWH CHARGE	\$0.17648	\$0.16478	\$0.16688	\$0.17227	\$0.18499	\$0.16887	\$0.14646
% DIFFERENCE	8.06%	15.60%	11.65%	16.51%	-3.48%	17.25%	24.26%

From: [Tracy Schultz](#)
To: [RMLD Board Members Group](#)
Subject: AP Warrants and Payroll
Date: Thursday, February 15, 2018 12:17:00 PM

Good afternoon,
1.19.18, 1.26.18, 2.2.18, and 2.9.18 AP.
1.22.18 and 2.5.18 Payroll.
There were no Commissioner questions. This e-mail will be included in the 2-22-18 Board Book.

Tracy Schultz
Executive Assistant
Reading Municipal Light Department
230 Ash Street. Reading. MA. 01867
Tel: 781.942.6489