

Reading Municipal Light Board of Commissioners
Regular Session
230 Ash Street
Reading, MA 01867
January 31, 2017

Start Time of Regular Session: 7:37 p.m.
End Time of Regular Session: 9:11 p.m.

Commissioners:

Thomas J. O'Rourke, Chairman
Philip B. Pacino, Vice Chair
Dave Hennessy, Commissioner

David Talbot, Commissioner, Secretary, Pro Tem
John Stempeck, Commissioner

Staff:

Coleen O'Brien, General Manager
Hamid Jaffari, Director of Engineering and Operations
Jane Parenteau, Director of Integrated Resources

Wendy Markiewicz, Director of Business Finance
Tracy Schultz, Executive Assistant
Katie Mahan, Operational Assistant

Guest:

Attorney Christopher Pollart

Call Meeting to Order

Chairman O'Rourke called the meeting to order, noted that it is the first Board meeting of the 2017 calendar year, and announced that, due to technical limitations, the meeting is only a live broadcast in the Town of Reading. However, the meeting is also being videotaped for distribution at community television stations in North Reading, Wilmington and Lynnfield.

Opening Remarks

Chairman O'Rourke read the RMLD Board of Commissioners' Code of Conduct and began by offering the Board's condolences on the passing of former Commission member, Frederick J. Nemergut. Mr. Pacino eulogized that Mr. Nemergut was on the Board when he joined in 1986. Mr. Nemergut served on the Board from 1986 to 1987 and was a valuable member, from whom he learned a lot. Mr. Pacino stated that Mr. Nemergut was in the energy field where he worked with municipals. In those days, the Board was referred to as 'Dream Team' because each member had a distinct strength that they brought and they all meshed well together.

Chairman O'Rourke noted that Dennis Kelley had been expected to represent the Citizens' Advisory Board, but had not yet arrived. Chairman O'Rourke asked Mr. Talbot to serve as Board Secretary, to which Mr. Talbot agreed to do so.

There was no public comment, and no Citizens' Advisory Board meeting in December. Mr. Stempeck commented that Neil Cohen had recently been appointed to the vacant Reading spot on the Citizens' Advisory Board.

Chairman O'Rourke announced that some members of the Board would be sending a final communication to NEPPA in regards to their having a climate change denier speak at their last conference. Mr. Talbot thanked the Board for taking a stance on such an important issue.

Report of the Committee

General Manager Committee-Chairman O'Rourke

Chairman O'Rourke began by stating that it is the responsibility of the Board to review the General Manager's contract. Ms. O'Brien joined RMLD in 2013 and her contract needed to be updated. Attorney Pollart's, modifications have been made that protect both the RMLD and Ms. O'Brien. Many of the changes were to wording and language and tightened up the document. However, there were a handful of substantive changes which Chairman O'Rourke invited Attorney Pollart to explain.

Report of the Committee

General Manager Committee – Chairman O'Rourke

Attorney Pollart stated that the clarity and readability of the contract have been improved. Substantive changes that were made were the addition of a car allowance, which grants the General Manager the option to receive a car allowance or to have RMLD provide a car. The notice period required for termination due to convenience was changed to 60 days for the General Manager and the Board. It was previously 30 days for the Board and six months for the General Manager. ICMA contribution was increased from three to four percent, which is consistent with other employees, and instead of the RMLD providing life insurance, Ms. O'Brien will be annually reimbursed \$520 to maintain a policy worth two times her salary. Attorney Pollart then asked if there were any questions.

In the absence of any questions, Chairman O'Rourke briefly explained that the General Manager's Committee met earlier in the evening to look over the updated contract and then summarized the changes that were agreed upon to be presented to the Board for approval: 1. Non-substantive changes to language that improves readability and provide clarification; 2. Including the car allowance that was voted and approved last year, also providing for compensation of mileage outside of the service territory, with Board approval; 3. Changing the noticing period for the RMLD and the General Manager to 60 days in the event that either decides to terminate the contract prior to its expiration; 4. Increase the ICMA contribution to four percent to be consistent with other RMLD employees; and 5. Annually compensating the General Manager \$520 to obtain and maintain a life insurance policy two times her yearly salary, which she will be responsible for submitting for expense reimbursement and also paying applicable taxes on.

Mr. Pacino made a motion, seconded by Mr. Stempeck, that the Board of Commissioners accept the changes to the General Manager's contract, with the changes to incorporate the items that the Chairman just listed.

Motion carried 5:0:0.

Chairman O'Rourke concluded that the Board wants to ensure that the contract is current, enforceable, and fair, as well as being competitive so as to attract the best talent currently and in the future.

Mr. Pacino added that he was not at the last meeting, but he 100 percent agrees with the comments of the other Commissioners in regards to Ms. O'Brien's performance.

Policy Committee – Mr. Hennessy

Mr. Hennessy stated that the Policy Committee voted on updates to five different policies at the last meeting: Policy No. 1 Community Relations; Policy No. 3 Safety Committee; Policy No. 15 Sexual Harassment; Policy No. 16 Violence Prevention in the Workplace; and Policy No. 19 Board of Commissioners. Mr. Hennessy then invited Attorney Pollart to comment on the updates.

Attorney Pollart explained that he worked with the General Manager and the RMLD staff to draft changes to the policies. They have been updated to meet current legal standards and have been made easier to understand.

Mr. Pacino made a motion, seconded by Mr. Stempeck, that the Board of Commissioners approve Policies 1, 3, 15, 16, and 19, as revised, with changes that were made.

Motion carried 5:0:0.

Report RMLD Board Member Attendance at RMLD Citizens' Advisory Board Meeting

Chairman O'Rourke reiterated that there was no CAB Meeting in December.

General Manager's Report – Ms. O'Brien

Ms. O'Brien began by addressing any security concerns raised by malware being discovered on a Burlington Electric Department laptop, and stated that the RMLD wants to assure its customers that the Department takes the threat of cyber-attack very seriously. Protections are in place to ensure that RMLD's system is not compromised, but emphasized that phishing happens constantly and is only able to be deterred by firewalls and how you put together security.

Mr. Talbot inquired as to what security is in place at RMLD, to which Ms. O'Brien replied that was a matter for Executive Session.

General Manager's Report – Ms. O'Brien

Ms. O'Brien then announced that APPA is holding its 2017 Legislative Rally: there are several upcoming legislative issues that are relevant to RMLD's interests, including the Clean Energy Standards Act. Municipals need to be heard and a balance needs to be maintained between municipals and investor-owned utilities. Therefore, Ms. O'Brien requested travel approval to go to Washington D.C. from February 26 to March 1 with area utility managers to meet with legislators. Ms. O'Brien stated that she would provide a report to the Board at the Commission meeting following her trip, and asked the Commissioners to submit any questions to her that they have for the legislators.

Mr. Pacino made a motion, seconded by Mr. Hennessy, that the Board of Commissioners approve the General Manager for travel to the APPA 2017 Legislative Rally on February 26, 2017 through March 1, 2017 in Washington D.C.

Motion carried 5:0:0.

The Art Contest Award Ceremonies will take place on Thursday, February 9 and Thursday, February 16 at 7:00 p.m. Ms. O'Brien lauded Ms. Mahan, stating that she has done an amazing job filling in as the Communications Manager while simultaneously performing her duties as Operational Assistant. So far, the art contest has been a success and many lessons have been learned for next year.

Chairman O'Rourke asked if RMLD would be producing a calendar similar to the ones distributed following the tee shirt contests.

Ms. Parenteau answered that it is being contemplated since RMLD will be keeping the artwork this year. Historically, the t-shirts were returned to the participating children and RMLD therefore had nothing to commemorate the contest. Chairman O'Rourke remarked that if it's feasible it would be nice to have a calendar.

Ms. O'Brien explained that due to the size of the artwork the existing frames at the RMLD will be posted on Municibid.

On March 22, RMLD's IRD will be holding a Lunch & Learn workshop for Peak Demand Reduction customers. All Commissioners are welcome to attend.

Ms. O'Brien concluded by stating that RMLD made a presentation to the Wilmington Board of Selectmen on Monday, January 23. It was a lengthy meeting with a lot of questions and a great dialogue. The Selectmen were very impressed with RMLD's new policies and procedures, maintenance, improved communications and peak shredding. They were very happy with the RMLD. North Reading and Reading are the last towns that needs to be met with and then meetings will start again in the spring.

Power Supply Report – November 2016- Ms. Parenteau (Attachment 1)

Ms. Parenteau began by reporting that November of 2016 was consistent with historical Novembers. When comparing November, 2015 to November, 2016, from an overall energy cost perspective, it was flat. However, there was increased generation from nuclear plants in 2016 due to the Seabrook partial refueling outage that occurred in 2015. Because of RMLD's laddering and layering approach, there was more generation in 2016 than in 2015, so system energy costs decreased from an average of \$55 to \$50 dollars per megawatt hour. These savings were passed through to customers. Renewables were flat, making up 10.4% of energy purchased in 2015 and 10.5% in 2016. There was less hydro, but RMLD picked up some projects in wind. The overall flat cost \$52 to \$51. The spot market decreased in amount purchased, from 6,300 megawatt hours in 2015, to 2,139 megawatt hours in 2016. This was advantageous to RMLD because costs increased from \$45 in 2015 to \$66 in 2016. Buying less as the price increased was effective from a consumer's standpoint. Overall sales decreased by \$2.6 million in November. Overall, the average cost for the month from an energy perspective was 4.8 cents. This was flat and consistent.

Chairman O'Rourke then clarified that Ms. Parenteau was not presenting December's numbers, to which Ms. Parenteau replied that December's numbers were just finalized and will be presented at the next meeting.

Chairman O'Rourke asked if there were any questions.

Mr. Talbot then stated that Pilgrim will be closing in a few years and clarified that RMLD does not purchase power from that plant, to which Ms. Parenteau replied in the affirmative. RMLD's nuclear entitlements are with Seabrook and Millstone.

Power Supply Report – November 2016- Ms. Parenteau (Attachment 1)

Mr. Talbot then asked, despite RMLD not purchasing from Pilgrim, what the impact of Pilgrim closing will be. Ms. Parenteau explained that this should be offset by Footprint Power, which is the refurbishing of the Salem Harbor Plant (from coal to natural gas), which will result in a 600-megawatt plant. From a capacity standpoint, only 100 megawatts were needed.

Mr. Talbot said that he was just wondering if anyone had done a calculation on keeping Pilgrim open another ten years, since it's licensed until 2032. It's supposed to close in 2019. Ms. Parenteau said that it's owned by Entergy. The benefits of nuclear is significant since it's low cost our entitlements at Seabrook and Millstone will be paid off soon, and those have been relicensed, so our customers will benefit. Florida Power & Light owns Pilgrim and Dominion Energy owns Millstone. Because RMLD does not have dealings with Pilgrim, Ms. Parenteau stated that she does not have an answer to Mr. Talbot's question.

Mr. Stempeck inquired where Footprint's natural gas is coming from, since the area's supply is already constrained. Ms. Parenteau explained that a three-mile interconnection was made. However, New England's natural gas supply is constrained during the winter, and this will add to that constraint.

Chairman O'Rourke inquired as to the status of the solar program. Ms. Parenteau explained that the Solar Choice system is ready. RMLD is waiting on legal work between the bank and the developer. It's physically ready to interconnect but can't be activated until the paperwork is completed. March 1 is the anticipated online date.

Chairman O'Rourke asked if the customers who signed up would be getting notifications about the program status. Ms. Parenteau answered in the positive, stating that e-mails with updates have been sent. The developer and bank are supposed to meet tomorrow and RMLD is hoping for some good news.

Mr. Talbot requested a price out to buy solar panels roof for the garage of RMLD. Ms. O'Brien stated that the RMLD roof is leaking and that she has asked the head of Facilities to see if it's feasible to install solar on the RMLD roof.

Financial Report – Ms. Markiewicz (Attachment 2)

Ms. Markiewicz apologized for not having a presentation and asked the Commissioners to refer to the packet that she had distributed. Ms. Markiewicz explained that her department is revisiting processes and procedures and finding areas to improve efficiency. They have preliminary automated financials, but they are not where they want them to be. Cogsdale is coming in to demonstrate different variations of the financials.

Chairman O'Rourke inquired if the business system would be changing. Ms. Markiewicz replied that her department would be staying with Cogsdale and Great Plains, but they are trying to use all the modules that come with the software. She is not sure of the timeframe. Business Finance is doing the best that they can; the handout for the evening is not up to her standards and therefore is marked 'draft.' The November balance sheet shows \$38 million cash, which is comparable to last year. Receivables are doing well. RMLD is still in moratorium so receivables' balances are higher. Payables are a matter of timing and are changed by what's in the queue; it is a constant flow. Sales of kwh were down 16 percent from last year, hence the rate increase. Operating expenses are shown from month to month and year to year. Expenses are higher than last year due to additional maintenance and operating expenses are up because RMLD is starting to fill vacancies. RMLD is right on budget-we're at exactly 58 percent and we are 5/12 through the year so there are no areas that need to be highlighted.

Chairman O'Rourke said that it's probably hard to predict, but do we see revenue staying down 16 percent or will it be offset, and then asked if there's anything that RMLD should be doing. Ms. O'Brien answered that we are hoping for a cold winter and there is still time left to try and recover. RMLD is monitoring and doing a formal cost of service study.

Chairman O'Rourke stated that he wasn't sure, and then asked what could be done if revenue continues to decline. Would system upgrades be slowed down or the business model changed? Ms. O'Brien said that the business model has already been changed to target closer to what RMLD is allowed to make. This was done in anticipation of flat sales. Short and long-term plans for capital and maintenance are considered critical and are staying in priority range. There are currently no steps to curtail anything in priority range. If it's the end of March and there has still been no winter weather, then some decisions may need to be made.

Financial Report – Ms. Markiewicz (Attachment 2)

Ms. Markiewicz apologized for any confusion and stated that the actual base revenue hasn't decreased due to the rate increase.

Chairman O'Rourke reiterated the need for a strategic meeting.

Ms. O'Brien added that RMLD's rate of return was at four; this has been readjusted to give a little more margin. RMLD is still able to make its commitments, such as in lieu of tax payments. RMLD is still on target since the budget is based on flat. Ms. Parenteau's group has all kinds of programs that are all targeted to augment revenue.

Mr. Stempeck asked what the 'other' category is comprised of under assets.

Ms. Markiewicz replied that is the deferred pension liability calculation.

Mr. Stempeck then asked about the increase to accrued liability.

Ms. Markiewicz replied that she believed that was due to the pension but that she would check and follow up.

Engineering and Operations Report – November 2016 – Mr. Jaffari (Attachment 3)

Mr. Jaffari announced that he would be reporting on November, 2016. Capital Improvement Projects, year to date spending totaled \$315,784 as of November 30, 2016. Year to date routine construction \$754,684. Only construction-related-all projects total \$2.4 million. Routine maintenance transformer replacement making progress changed 24% of pad mount transformers about 16% of overhead transformers have been replaced. Pole inspections 204 poles have been replaced to date and 117 out of 204 pole transfers have been completed. Crews are always looking at feeders for signs of trouble. 961 of 1,237 manholes have been inspected and the porcelain cutout replacement program is 91% completed. 188 tree trim spans in November 564 so far fiscal year no hot spots were found during substation scans.

Mr. Jaffari stated that there are 1,600 poles in the service territory. Reading's pole ownership is split in half: 50 percent are owned by Verizon and 50 percent are owned by RMLD. North Reading's poles are owned by RMLD, while Lynnfield and Wilmington's poles are owned by Verizon. Mr. Jaffari then moved on to the NJUNS report for double pole management. In Lynnfield, RMLD has 4 pending transfers. 15 transfers and 58 pull poles in North Reading. In Reading, RMLD has 48 pending transfers and 47 pull poles, and 58 transfers, 1 attachment, 4 pull poles, and 1 guy install in Wilmington.

Continuing, Mr. Jaffari stated that the RMLD reliability indices are under the national average but SAIDI and SAIFI are slightly above the regional average. Equipment failures are decreasing due to maintenance. Trees still storms pine trees shallow roots contribute to SAIDI and SAIFI wildlife has increased wildlife guards but animals make it their mission to destroy equipment

Chairman O'Rourke asked if customers should call in with any safety concerns about poles. Mr. Jaffari answered in the affirmative and explained that RMLD goes by NJUNS and pole inspections are part of scheduled maintenance programs. Every week a crew (sometimes two) is dedicated to poles. Critical locations are put on priority lists. Additionally, RMLD is undertaking lots of construction to improve reliability; Mr. Jaffari asked customers to be patient.

Mr. Stempeck asked if there's anything that can be done for poles that are hit by cars multiple times.

Mr. Hennessy suggested jersey barriers.

Mr. Jaffari referred to Pole 118 on Main Street in Lynnfield. The pole has previously been hit and was moved, and then got hit again. RMLD is approaching the town to see if barriers can be placed; there is a curve and a guardrail.

RMLD Procurement Requests Requiring Board Approval (Attachment 4)

IFP 2017-31 Fiberglass Poles and Spare Handhole Covers

Mr. Jaffari explained that this is for 40 fiberglass poles and 20 handhole covers the last time this went out to bid the poles were \$519, now they are \$660. This increase meant that a formal bid needed to be submitted. RMLD received three bids: Wesco, Arby, and Graybar. Graybar was disqualified because they didn't submit tax compliance certification. Arby was the lowest priced. The fiberglass poles are for areas where composite poles can't be used, or where there are guy issues.

Mr. Pacino made a motion, seconded by Mr. Stempeck, 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

Motion carried 5:0:0.

General Discussion

BOARD MATERIAL AVAILABLE BUT NOT DISCUSSED

RMLD Board Meetings

Art Awards attendance. Mr. Hennessy stated that he and Mr. Stempeck would be attending the Awards on February 9. Chairman O'Rourke and Mr. Pacino will be attending both nights. Mr. Talbot agreed to attend on February 16.

Chairman O'Rourke announced that the Board will next convene on Thursday, February 23, Mr. Stempeck may have to participate remotely. The March meeting will be held on the Thursday, March 30. Budget meetings will be held in May. The next CAB meeting is yet to be determined. Ms. Schultz will email when the date is set. A date has yet to be determined for the strategic meeting, which Ms. Schultz will coordinate with Chairman O'Rourke.

Mr. Pacino stated that, while recently in Florida, he saw a solar canopy over a parking lot. He stated that until you got up to it, you couldn't see the solar panels. It is something for businesses with large parking lots to consider. Mr. Pacino also mentioned that he saw an electric vehicle station in a parking lot in Billerica; and is noticing them in major parking lots.

Chairman O'Rourke asked when RMLD is going to be getting one. Ms. O'Brien answered that the RMLD parking lot needs to be redone, but RMLD is hoping for a spring install.

Ms. O'Brien then stated that RMLD will be meeting with local fire departments to provide updates on what equipment RMLD has, as well as discussing fires in substations and fire suppression with solar equipment-even if you disconnect it, it's still a generator.

Chairman O'Rourke asked if Ms. O'Brien could provide the Commissioners with data regarding customers who have converted to paper and RMLD's social media and mobile app activity. Chairman O'Rourke also asked for dates for a strategy meeting, which Ms. Schultz will coordinate on. Chairman O'Rourke asked Ms. O'Brien how long she thought the meeting should last. Ms. O'Brien responded that a half day should be sufficient.

General Discussion

Mr. Hennessy inquired as to how unusual it was, five months into the year, to see a sixteen percent decrease. Ms. Parenteau answered that RMLD's sales are weather dependent and said that she was just looking at January and the numbers are up. Once we're into March we'll have a much better idea-revenue is more dependent on usage in summer.

Ms. Parenteau then announced that Integrated Resources was recently notified by the DOER that RMLD was selected for a low battery study, with an award of \$150,000. RMLD is still waiting on another application, for a larger award-RMLD submitted ten locations for electric car vehicle storage.

Executive Session

At 8:48 p.m. Mr. Pacino made a motion, seconded by Mr. Hennessy, that the Board go into Executive Session to discuss the deployment of security personnel or devices, to consider the purchase of real property and discuss strategy with respect to collective bargaining, Chapter 164 Section 47D exemption for competitively sensitive or other proprietary information provided in the course of proceedings conducted pursuant to this chapter when such municipal lighting plant board determines that such disclosure will adversely affect its ability to conduct business in relation to other entities making, selling, or distributing electric power and energy pursuant to this chapter and return to Regular Session for the sole purpose of adjournment.

Chairman O'Rourke called for a poll of the vote:

Mr. Pacino: Aye; Mr. Talbot: Aye; Chairman O'Rourke, Aye; Mr. Stempeck, Aye; and Mr. Hennessy: Aye.

Motion carried 5:0:0.

Adjournment

At 9:11 p.m. Mr. Pacino made a motion seconded by Mr. Stempeck to adjourn the Regular Session.

Motion carried 5:0:0.

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

David Talbot, Secretary Pro Tem
RMLD Board of Commissioners

Integrated Resources

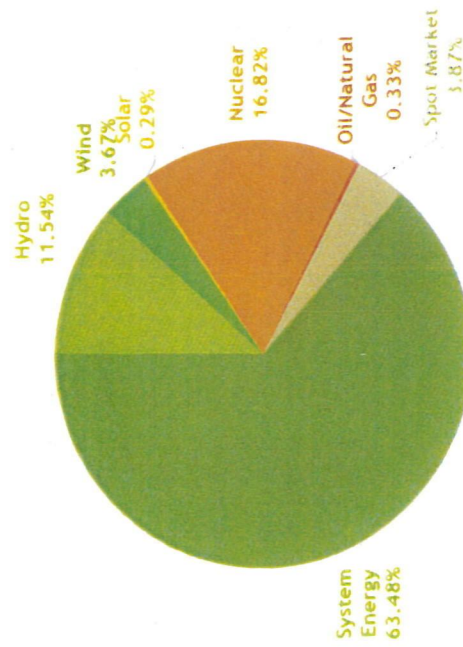
January 31, 2017

RMLD Board of Commissioners Meeting
Reporting for November, 2016

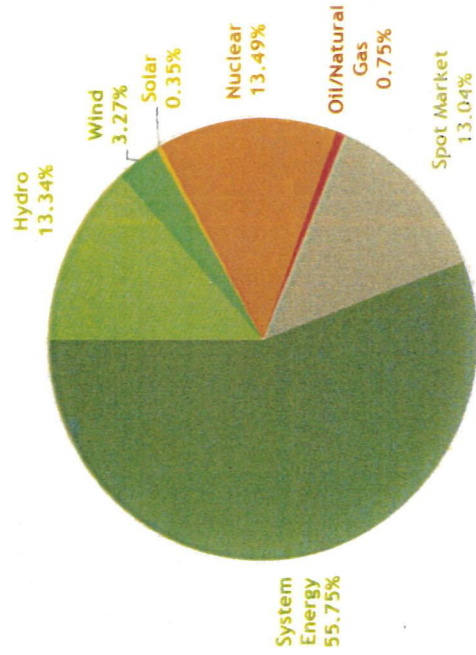
Jane Parenteau
Director of Integrated
Resources

PURCHASE POWER by Resource

November, 2016

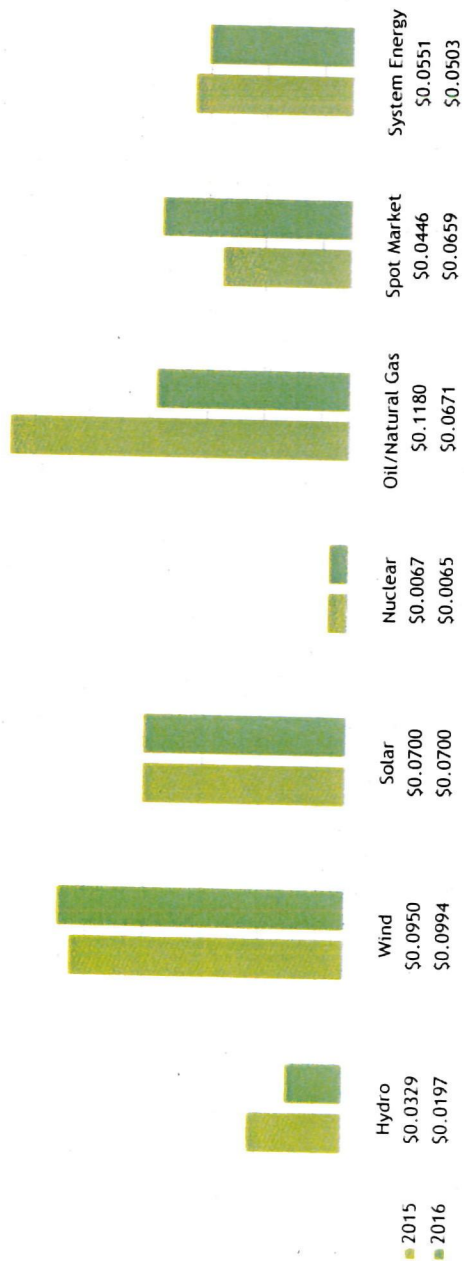


November, 2015



ENERGY COST per Resource

November 2015 vs. November 2016



To: Coleen O'Brien

From: *Maureen* Maureen McHugh, Jane Parenteau *P*

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

Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy	Total \$ Costs	\$ as a %
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/Jencno 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%

*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.

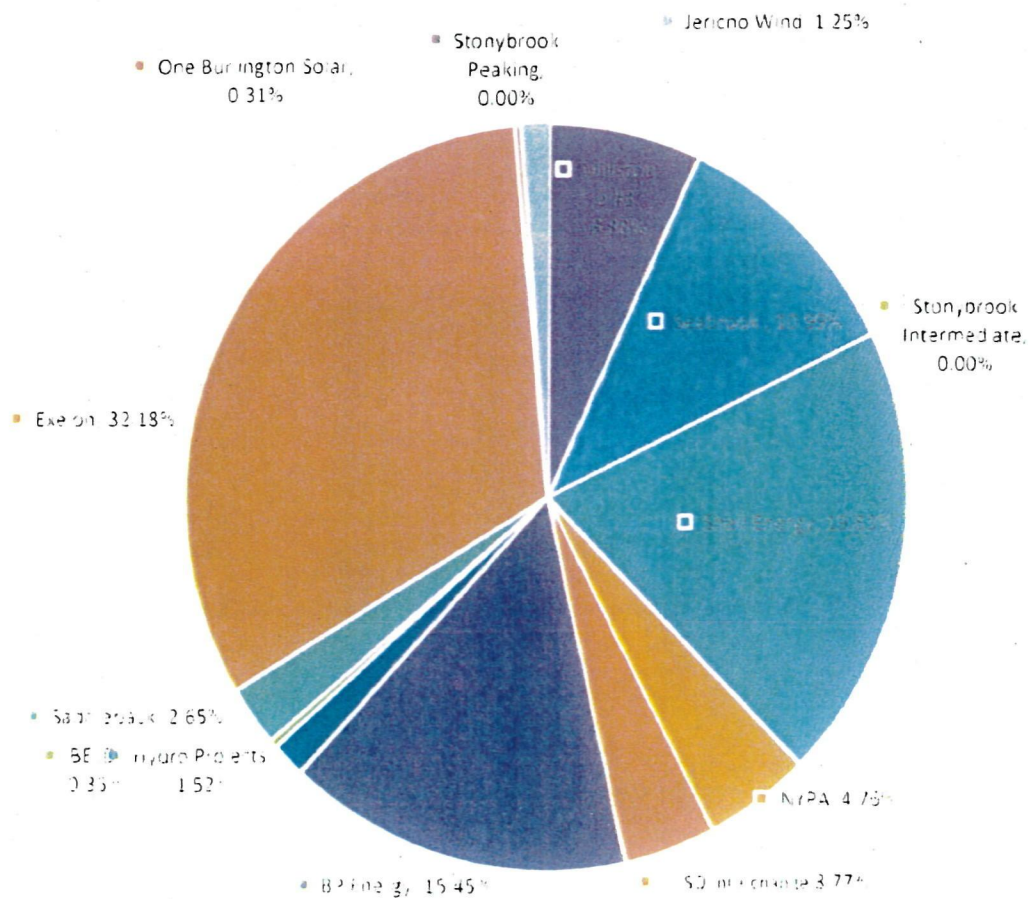
Table 2

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%

* Independent System Operator Day-Ahead Locational Marginal Price

** Real Time Net Energy

NOVEMBER 2016 ENERGY BY RESOURCE



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 kW.

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

Table 3

Source	Amount (kW)	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

Resource	Energy	Capacity	Total cost	% of Total Cost	Amt of Energy (kWh)	Cost of Power (\$/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%	5,721,488	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/Jencho	\$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
* Renewable Resources					10.46%	

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 RECs	Projected RECs	Total RECs	Est. 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
Saddleback	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
Grand Total	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

Reading Municipal Light Department
Statement of Net Assets
November 30, 2016

	<u>2016</u>	<u>2017</u>
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	<u>50,353,013.03</u>	<u>57,478,807.10</u>
NONCURRENT		
INVESTMENT IN ASSOCIATED CO	26,993.75	26,993.75
CAPITAL ASSETS, NET	70,252,378.65	72,873,194.92
TOTAL CAPITAL ASSETS, NET	<u>70,279,372.40</u>	<u>72,900,188.67</u>
TOTAL ASSETS	<u>120,632,385.43</u>	<u>130,378,995.77</u>
LIABILITIES		
CURRENT		
ACCOUNTS PAYABLE	9,514,232.95	6,258,887.39
CUSTOMER DEPOSITS	903,399.18	1,013,683.17
CUSTOMER ADVANCES 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	<u>14,379,893.31</u>	<u>17,567,082.79</u>
NONCURRENT		
ACCRUED EMPLOYEE COMPENSATED BALANCES	3,070,487.93	3,257,809.00
DEFERRED INFLOWS-PENSION PLAN	-	883,172.00
TOTAL NONCURRENT LIABILITIES	<u>3,070,487.93</u>	<u>4,140,981.00</u>
TOTAL LIABILITIES	<u>17,450,381.24</u>	<u>21,708,063.79</u>
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	<u>103,182,004.19</u>	<u>108,670,931.98</u>
TOTAL LIABILITIES AND NET ASSETS	<u>\$ 120,632,385.43</u>	<u>\$ 130,378,995.77</u>

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	13,675,729.91	14,479,164.39
CASH - PETTY CASH	3,000.00	3,000.00
TOTAL UNRESTRICTED CASH	<u>13,678,729.91</u>	<u>14,482,164.39</u>
RESTRICTED CASH		
CASH - DEPRECIATION FUND	6,508,973.15	5,398,965.79
CASH - CONSTRUCTION FUND	0.00	0.00
CASH - TOWN PAYMENT	1,577,685.00	1,583,611.65
CASH - DEFERRED FUEL RESERVE	4,451,648.54	5,040,513.53
CASH - RATE STABILIZATION FUND	6,792,422.72	6,843,853.44
CASH - UNCOLLECTIBLE ACCTS RESERVE	200,000.00	200,000.00
CASH - SICK LEAVE BENEFITS	1,798,459.74	1,933,143.36
CASH - HAZARD WASTE RESERVE	150,000.00	150,000.00
CASH - CUSTOMER DEPOSITS	903,399.18	1,013,683.17
CASH - ENERGY CONSERVATION	730,683.23	790,572.39
TOTAL RESTRICTED CASH	<u>23,113,271.56</u>	<u>22,954,343.33</u>
INVESTMENTS		
SICK LEAVE BUYBACK	<u>1,284,061.45</u>	<u>1,345,663.06</u>
TOTAL CASH BALANCE	<u>38,076,062.92</u>	<u>38,782,170.78</u>

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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	17,009,576	16,690,734	115,575,544	101,099,034	-12.53%
COMM. AND INDUSTRIAL SALES	32,102,880	29,815,636	179,106,929	145,842,269	-18.57%
PRIVATE STREET LIGHTING	79,418	89,171	397,360	365,416	-8.04%
TOTAL PRIVATE CONSUMERS	<u>49,191,874</u>	<u>46,595,541</u>	<u>295,079,833</u>	<u>247,306,719</u>	-16.19%
MUNICIPAL SALES:					
STREET LIGHTING	222,241	186,335	1,159,623	878,561	-24.24%
MUNICIPAL BUILDINGS	752,346	685,159	3,870,941	3,016,961	-22.06%
TOTAL MUNICIPAL CONSUMERS	<u>974,587</u>	<u>871,494</u>	<u>5,030,564</u>	<u>3,895,522</u>	-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	<u>51,629,493</u>	<u>48,800,475</u>	<u>307,485,116</u>	<u>256,800,916</u>	-16.48%

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

	MONTH LY	MONTH CY	YTD LY	YTD CY
OPERATING EXPENSES:				
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
TOTAL PURCHASED POWER	2,362,838.75	2,500,648.16	13,476,140.97	14,698,458.65
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	206,061.34
ADMIN & GEN SALARIES	72,476.27	87,911.57	356,960.00	405,719.33
OFFICE SUPPLIES AND EXPENSE	10,883.75	28,849.77	111,631.94	106,394.17
OUTSIDE SERVICES	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	18,678.49	23,199.77
EMPLOYEES PENSIONS AND BENEFITS	142,683.08	239,841.95	1,062,397.32	1,246,717.32
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
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	-	79,916.66	21,950.95
MAINT OF ST LT & SIG SYSTEM	(60.03)	(55.08)	(304.13)	70,494.45
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
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

	2017 ANNUAL BUDGET	ACTUAL YEAR TO DATE	REMAINING BUDGET BALANCE	REMAINING BUDGET %
OPERATING EXPENSES:				
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	<u>34,322,278.00</u>	<u>14,698,458.65</u>	<u>19,623,819.35</u>	57.18%
OPERATION SUP AND ENGINEERING EXP	655,195.00	201,724.34	453,470.66	69.21%
STATION SUP LABOR AND MISC	91,269.00	60,321.94	30,947.06	33.91%
LINE MISC LABOR AND EXPENSE	901,213.00	254,676.27	646,536.73	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	1,792,724.00	709,476.52	1,083,247.48	60.42%
UNCOLLECTIBLE ACCOUNTS	150,000.00	62,500.00	87,500.00	58.33%
ENERGY AUDIT EXPENSE	1,501,806.00	206,061.34	1,295,744.66	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	57,215.00	23,199.77	34,015.23	59.45%
EMPLOYEES PENSIONS AND BENEFITS	2,922,673.00	1,246,717.32	1,675,955.68	57.34%
MISC GENERAL EXPENSE	219,156.00	57,468.14	161,687.86	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	<u>12,780,581.00</u>	<u>4,490,201.35</u>	<u>8,290,379.65</u>	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	300,000.00	21,950.95	278,049.05	92.68%
MAINT OF ST LT & SIG SYSTEM	10,287.00	70,494.45	(60,207.45)	-585.28%
MAINT OF METERS	44,658.00	-	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	<u>3,717,632.00</u>	<u>1,520,859.18</u>	<u>2,196,772.82</u>	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	<u>\$ 89,574,403.00</u>	<u>\$ 37,197,893.63</u>	<u>\$ 52,376,509.37</u>	58.47%

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READING MUNICIPAL LIGHT DEPARTMENT

FOR PERIOD ENDING NOVEMBER, 2016

PROJ	DESCRIPTION	TOWN	ACTUAL COST NOVEMBER	YTD ADDITIONS	ANNUAL BUDGET	REMAINING BALANCE
CONSTRUCTION:						
106	Underground Facilities Upgrades (URD's, Manholes, etc)	ALL	63,826	251,813	149,965	(101,848)
107	13.8kV Upgrade (Step-down areas, etc)	ALL	328	4,909	105,748	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	-	-	39,330	39,330
133	Station 3 - Relay Upgrades and SCADA Integration	NR	18,889	74,505	252,225	177,720
139	Station 5 - LTC Control Replacement	W	-	-	41,543	41,543
140	Substation Grounding Equipment Upgrade	ALL	-	-	20,671	20,671
	SUB-TOTAL		28,434	113,589	799,355	685,766
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
SPECIAL PROJECTS / CAPITAL PURCHASES:						
100	Distributed Gas Generation (Prior FY16-17)	ALL	1,074	43,175	2,720,409	2,677,234
102	Padmount Switchgear Upgrade at Industrial Parks	W	-	-	194,518	194,518
103	Grid Modernization and Optimization	ALL	115,076	122,242	284,000	161,758
105	New Wilmington Sub-Station	W	-	-	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	Meter Purchases	ALL	-	16,140	80,000	63,860
125	GIS	ALL	-	-	360,000	360,000
126	Communication Equipment (Fiber Optic)	ALL	3,443	4,573	69,173	64,600
131	LED Street Light Implementation	ALL	55,281	315,784	804,070	488,286
134	Substation Test Equipment	ALL	8,030	14,270	30,000	15,730
135	Analog Devices Cap Bank Upgrade	W	-	-	54,188	54,188
136	Voltage Data Recorders	ALL	-	-	25,000	25,000
	SUB-TOTAL		182,903	626,825	5,784,379	5,157,554
OTHER CAPITAL PROJECTS:						
96	Control Center Modifications	ALL	-	-	100,000	100,000
97	HVAC Roof Units - Garage	R	713	41,373	-	(41,373)
98	Carpet Upgrade	R	-	8,430	71,653	63,223
99	Electric Vehicle Supply Equipment	ALL	-	-	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

Construction Projects:				
		% Complete Status	Nov	YTD
100	Distributed Gas Generation Pilot	25%	\$1,074	\$43,175
106	Underground Facilities Upgrades (URDs, Manholes, etc.) - All Towns <ul style="list-style-type: none"> • Lucaya Estates, Wilmington • Crestwood Road, North Reading 	On-going	\$63,826	\$251,813
107	13.8kV Upgrade (Stepdown Areas, etc.) - All Towns <ul style="list-style-type: none"> • 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
Projects Assigned as Required		
• Solar Project, Ballardvale Street, Wilmington		
• Pumping Stations (West Street and Batchelder Road), Reading		
• Wilmington Recreation Center, Wilmington	\$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	-	-
Lighting (Street Light Connections)	\$3,633	\$13,538
Storm Trouble	-	\$10,743
Underground Subdivisions (new construction)		
• McGrane Road Subdivision, Wilmington	\$12,482	\$45,828
• North Wilmington Estates, Wilmington		
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)**
261 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 limmed YTD: 564 spans limmed
- **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

NTG Member and Job Type	Count of Ticket Number
IFLDYD	2
Lynnfield Fire Department TRANSFER	2
RMLD	4
Reading Municipal Light Department TRANSFER	4
VZNESA	14
Verizon	8
TRANSFER	6
PULL POLE	
(blank)	
Grand Total	20

NORTH READING

NTG Member and Job Type	Count of Ticket Number
CMCTNR	3
Comcast	
TRANSFER	3
NGMA	1
National Grid	
TRANSFER	1
NRDGF	44
North Reading Fire Department TRANSFER	44
RMLD	73
Reading Municipal Light Department TRANSFER	15
PULL POLE	58
VZNEDR	97
Verizon	87
TRANSFER	10
PULL POLE	
(blank)	
Grand Total	218

READING

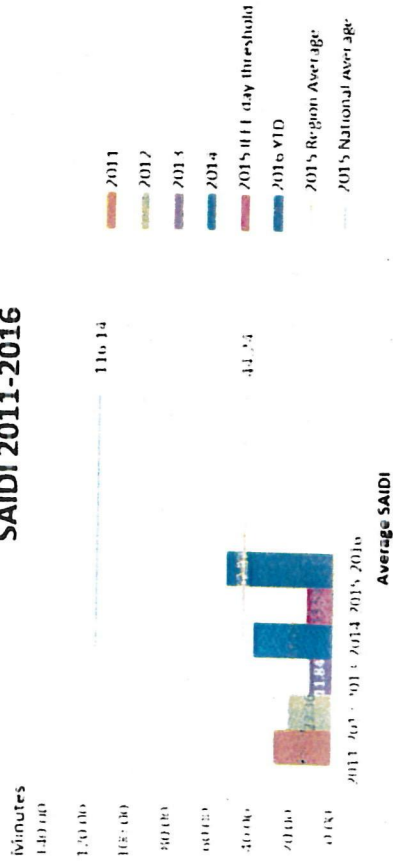
NTG Member and Job Type	Count of Ticket Number
CMCTNR	2
Comcast	
TRANSFER	2
NP3PMA	11
Non-participating 3rd Party Attacher TRANSFER	11
RDRGFD	2
Reading Fire Department TRANSFER	2
RMLD	95
Reading Municipal Light Department TRANSFER	48
PULL POLE	47
VZNEDR	1
Verizon	1
TRANSFER	
VZNESA	110
Verizon	108
TRANSFER	2
PULL POLE	
(blank)	
Grand Total	221

WILMINGTON

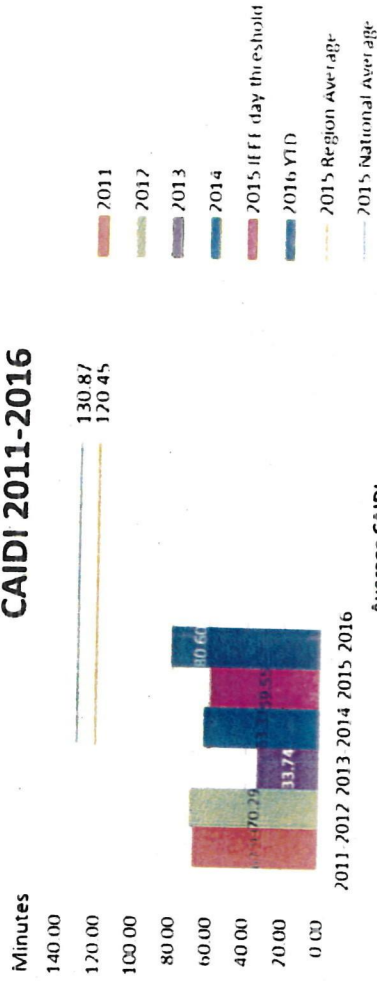
NTG Member and Job Type	Count of Ticket Numbers
CMCTNR	2
Comcast	
TRANSFER	2
NP3PMA	10
Non-participating 3rd Party Attacher TRANSFER	10
RMLD	64
Reading Municipal Light Department TRANSFER	58
ATTACH	1
PULL POLE	4
INSTL GUY	1
VZNEDR	75
Verizon	56
TRANSFER	19
PULL POLE	
WMGNFD	72
Wilmington Fire Department TRANSFER	72
(blank)	
Grand Total	223

RMLD Reliability Indices

SAIDI 2011-2016



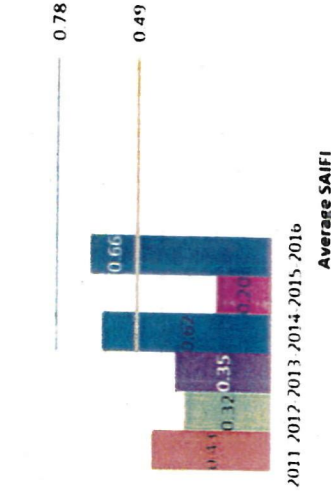
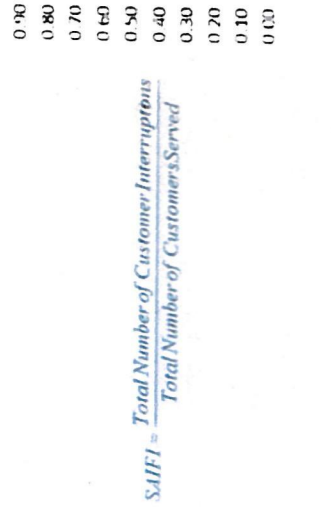
CAIDI 2011-2016



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

$$CAIDI = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customer Interruptions}}$$

SAIFI 2011-2016

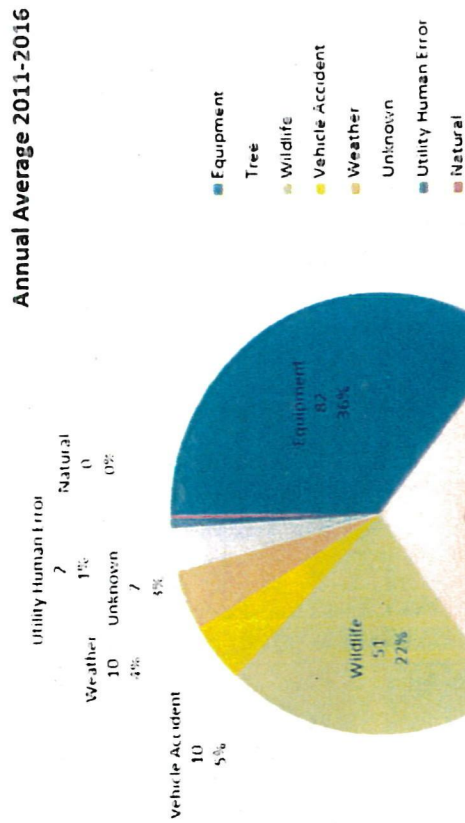
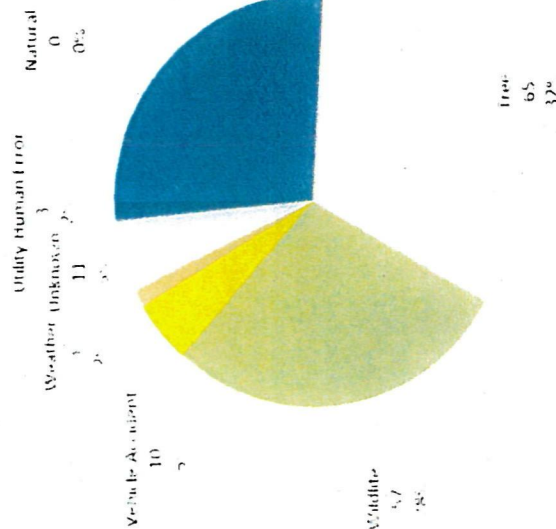


$$SAIFI = \frac{\text{Total Number of Customer Interruptions}}{\text{Total Number of Customers Served}}$$

Outages Causes

Outages Causes YTD (from eReliability website)

2016 YTD
January - November



Questions ?



230 Ash Street
P.O. Box 150
Reading, MA 01867-0250Tel: (781) 944-1340
Fax: (781) 942-2409
Web: www.rmlid.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
Power Tech dba UPSCIrby
Shamrock PowerPower Sales Group
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 Jafari

Coleen O'Brien

**Fiberglass Poles
Bid 2017-31**

Bidder	Manufacturer	Delivery Date	Unit Cost	Qty	Total Net Cost	Meet Specification requirement	Specification Data Sheets	Firm Price	All forms filled out	Certified Check or Bid Bond	Exceptions to stated bid requirements	Authorized signature
Irby												
Item 1	Shakespeare	11 weeks ARO*	\$660.36	40	\$26,414.40	yes	yes	yes	yes	yes	no	yes
Item 2	Shakespeare	11 weeks ARO*	\$16.30	20	\$326.00							
		* subject to change			<u>\$26,740.40</u>							
<hr/>												
WESCO												
Item 1	Shakespeare	11-12 weeks ARO	\$665.00	40	\$26,600.00	yes	yes	yes	yes	yes	no	yes
Item 2	Shakespeare	11-12 weeks ARO	\$16.00	20	\$320.00							
					<u>\$26,920.00</u>							

Non responsive bidders:

Graybar Rejected based on the following:

1. Tax compliance form not submitted.

From: Tracy Schultz
To: RMLD Board Members Group
Cc: Jeanne Foti
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

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

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 3500 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%

