Reading Municipal Light Board of Commissioners Regular Session 230 Ash Street Reading, MA 01867 February 23, 2017

Start Time of Regular Session: 7:33 p.m. End Time of Regular Session: 9:16 p.m.

Commissioners:

Thomas J. O'Rourke, Chairman-Absent Philip B. Pacino, Vice Chair

David Talbot, Commissioner

John Stempeck, Commissioner-Secretary Pro Tem

Dave Hennessy, Commissioner

Staff:

Coleen O'Brien, General Manager Wendy Markiewicz, Director of Business Finance Hamid Jaffari, Director of Engineering and Operations Joyce Mulvaney, Community Relations Manager

Jane Parenteau, Director of Integrated Resources Tracy Schultz, Executive Assistant

Citizens' Advisory Board:

Town of Reading Finance Committee

George Hooper, Chair Peter Lydecker, Member

Call Meeting to Order

Mr. Pacino called the meeting to order and explained that the meeting was not being broadcast live, but was being videotaped for distribution at community television stations in Reading, North Reading, Wilmington and Lynnfield.

Opening Remarks

Mr. Pacino read the RMLD Board of Commissioners' Code of Conduct and explained that due to Chairman O'Rourke's absence he would be Acting Chair for the evening. Mr. Stempeck will be Board Secretary. Mr. Pacino welcomed George Hooper, the representative from the Citizens' Advisory Board, and Peter Lydecker, from the Town of Reading Finance Committee.

Vote to Accept Changes to Section 20 of Chapter 32B, as amended by recent legislation

Mr. Pacino addressed the first item, changes to Section 20 of Chapter 32B as amended by the recent legislation. Mr. Pacino asked Ms. O'Brien to explain what this change is.

Ms. Schultz interjected, stating that additional language was added, which was mentioned during the Audit report a few months ago. The law now states 'A municipal light plant that establishes an OPEB fund shall pay the premiums and assume the liability for the municipal share of retiree healthcare benefits attributable to lighting plant employees and their dependents.' The Town Manager asked that the Board accept the new language.

Mr. Talbot stated that it sounded fine, but was confused about why the Board needed to accept it.

Mr. Stempeck expressed his reluctance to approve the amendment without seeing the change and asked if it needed to be done at that evening's meeting.

Ms. Schultz explained that it needs to be done before the April Town Meeting and offered to send the Board members a copy of the amended legislation, so it could be voted on during the March Board Meeting.

Mr. Pacino suggested taking no action tonight, and circulating the information before the next meeting.

General Manager's Report-Ms. O'Brien

Ms. O'Brien began by stating that it was a pleasure to meet the two new Citizens' Advisory Board members. Neil Cohen, an attorney from Reading, and Jason Small, an Electrical Distribution Engineer from North Reading are great additions. Ms. O'Brien said that she spent a few hours with each last week giving an overview of RMLD and welcomes them as assets to the team.

Ms. O'Brien stated that she is excited to attend the APPA 2017 Legislative Rally, starting February 27. Ms. O'Brien shared that she has never been before and will report back to the Board when she returns.

Regular Session Meeting Minutes February 23, 2017

General Manager's Report-Ms. O'Brien

The Art Contest Award Ceremonies took place on Wednesday, February 15 and Thursday, February 16. The winning artwork will be hanging in the RMLD lobby until May. The ceremonies were quicker than the T-shirt awards, which was much better for the families. It was a great success; Ms. O'Brien hoped everyone enjoyed it and asked for feedback.

Mr. Pacino agreed that it went very well and was surprised by how articulate the children were when describing their artwork. Ms. O'Brien added that she liked the large screen PowerPoint which allowed everyone to see the detail of the artwork.

Ms. O'Brien reiterated that the IRD is having a Lunch 'N Learn workshop on March 22nd for Peak Demand Reduction customers. Twenty customers are signed up.

Presentations to the Board of Selectmen continue. The Reading meeting will take place on Tuesday, March 7. North Reading is in the process of being rescheduled, at the town's request. Ms. O'Brien asked if there were any questions.

Mr. Hennessy asked if the twenty customers attending RMLD's Lunch 'N Learn were the biggest peak customers. Ms. O'Brien answered that she would have to defer to Ms. Parenteau.

Mr. Talbot asked if there is a legislative agenda at APPA, and if there are certain issues that NEPPA will be endorsing.

Ms. O'Brien replied that Ms. Foti received the agenda today, she will forward the agenda to the Board.

Mr. Talbot stated that with Washington rolling back regulations on coal, he wants to know what we're getting behind.

Ms. Parenteau added that one of the things RMLD is dealing with on the ISO front, which dovetails into the Clean Energy Standards Act, is IMAPP (Integrated Market and Public Policy). New England states have RFPs for renewable energy and are trying to figure out a way to incorporate those mandates into the markets. The states are concerned because once they become a part of the ISO markets they lose local control and that goes to FERC jurisdiction. States are deciding whether they want to maintain or relinquish authority to FERC. This issue may arise during Ms. O'Brien's Washington D.C. trip.

Referencing Mr. Hennessy's question about the Lunch 'N Learn participants, Ms. Parenteau reported the twenty attendees come from a spectrum of usages. However, attendees tend towards the higher usage range. They will be taking lessons learned from customers who have achieved financial success by reducing their Peak Share.

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

Ms. Parenteau then transitioned to Purchase Power for the month of December. Even though RMLD operates on a fiscal year budget, the presentation looked at the calendar year from January to December. The first three months of the winter period were considerably milder in 2016 than in 2015. However, December 2016 was much colder than in December 2015. Summer 2016 was slightly hotter so there was an increase in cooling degree days in June, July, and August. This correlates to electricity consumption.

Ms. Parenteau then moved on to purchase power costs, which includes all capacity, transmission, and energy charges, versus the system peak. Calendar Year 2016 purchase power expenses were around \$64.2 million. That was a slight decrease from 2015, which was \$64.5 million. The overall total purchase power cost is down by about \$332,000. Some of that was weather-related, but a lot of that was energy-related. Capacity and transmission continue to increase.

Monthly peak demands in 2015 were typically lower than in 2016 for most the calendar year, except for the peak day in August, 2016. RMLD hit a slightly higher peak in August 2016 than in 2015, and in 2015, peaked in July. Peaks tend to be stable, not huge swings. Ms. Parenteau stated her hope that the new Communications Manager will emphasize educational programs for both commercial and residential customers that show the value of that reduction. Ms. Parenteau then took this opportunity to introduce RMLD's new Communications Manager, Joyce Mulvaney.

Calendar year 2015's capacity costs were \$18.1 million; transmission was \$12.1 million; and energy was around \$34 million. In calendar year 2016, capacity increased by \$1.7 million, to \$19.8 million. Transmission costs increased by \$600,000, to \$12.7 million. Fuel went down \$34 million to \$32 million, offsetting some of the increase in capacity and transmission. kWh sales in 2016 670 million kwh sold. In 2015 691.5 kwh sold. This was a 3% decrease.

Ms. Parenteau then referred to a request that Commissioner O'Rourke had made at the January 31, 2017 Board Meeting. RMLD has accumulated over 18,000 customer e-mail addresses.

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

Summer campaign increased paperless billing to over 7,000 customers. Over 7,000 customers are enrolled in Auto Pay. Customers who sign up for Auto Pay have their payment taken out on the very last day eligible for the discount, which is a 15% reduction of the base portion of their electricity bill. Going to be working on campaigns to increase enrollment.

Mr. Hennessy asked if it was the same 7,000 customers enrolled in both paperless billing and Auto Pay. Ms. Parenteau answered not necessarily and explained that most people do sign up for both but it's up to the customer.

Ms. Parenteau added that customers need to be made aware that when they use their online banking sites to pay their RMLD bill there is a significant delay as to when RMLD receives that payment. There can be a two to five-day period before the payment posts, and the customer may miss the discount window. However, if the customer goes to the RMLD website and uses their checking information or credit card, RMLD will receive that payment that night and the customer won't miss the discount window. RMLD also offers a pay by text option. 800 customers have signed up; 481 are registered for bill-related texts. There have been 494 downloads of the mobile app since its inception. RMLD has 800 followers on Twitter; 200 of those followers signed up after the last storm. Ms. Mulvaney will be starting a Facebook page to increase RMLD's social media presence.

Vote to Accept Changes to Section 20 of Chapter 32B, as amended by recent legislation

Ms. O'Brien requested that the Board return to the OPEB. Section 20 of Chapter 32B the Other Post Employment Benefit liability trust fund has already been established; the board has previously voted on it. The law states that if a trust fund apart from the town has already been established, the Commissioners need to vote on the new language. It is one sentence that says it is RMLD's trust, RMLD is responsible is for it. It is making it clear that the town won't be paying for it. Ms. O'Brien added that she wasn't here for original vote.

Mr. Stempeck stated that he remembers setting up OPEB.

Mr. Talbot asked if Ms. O'Brien was asking the Board to vote on the Motion. Ms. O'Brien replied that she was, if the Board was okay with what she had just explained in reiterating the autonomy of RMLD to pay its premiums and their dependents.

Mr. Stempeck made a motion, seconded by Mr. Hennessy, that the Board of Commissioners accept the provisions of Section 20, Chapter 32B, of the Massachusetts General Laws, as amended by Section 15 of Chapter 218 of the Acts of 2016, establishing an Other Post-Employment Benefits Liability Trust Fund, on the recommendation of the General Manager.

Motion carried 4:0:0.

Financial Report - December 2016 - Ms. Markiewicz (Attachment 2)

Ms. Markiewicz announced that she has been meeting with a Great Plains consultant this week, who is helping build financial reports. Report formats are still being tweaked. A new Staff Accountant has been hired. RMLD participated in a Standard & Poor's Global Study and received an A+ rating, which says that RMLD has a stable outlook. This is good if RMLD needs to go to bond.

Because it's moratorium, receivables are up. Receivables will return to normal when moratorium ends in April. Currently, payables are at \$7 million. These are constantly revolving, but this is right in line with last year. Within liabilities, there will be a \$1.2 million town payment that will be showing up on the January financials. Mr. Stempeck asked about the accrued liability going from \$3 to \$10 million. Ms. Markiewicz explained that was due to the pension and added that will now have a separate line item in her new reports.

Ms. Markiewicz continued, explaining that the schedule of capital assets shows where capital projects are focusing. There is a \$1.6 million increase in structures and improvements; and infrastructure is up \$1 million. Capital projects are focusing on maintenance. Revenues, compared to last year, are a little bit higher due over collecting on fuel, timing of accounts receivables and collecting less due to moratorium. Operating expenses and revenues are in line with the budget.

Total use of Capital Fund is \$2.8 million. kWh sales are just under half a percent. Cash balances shows a stable outlook, considering how many payables we have and the monthly payroll. The detail of sales by class show a slight increase in residential and commercial is stable. There's a slight increase in streetlighting and municipal buildings. Energy conservation revenue is even; it's at net zero. We're at 49.74% of budget at 6 months of year; RMLD is doing as predicted.

Ms. O'Brien commented that Ms. Markiewicz and her group have been attempting to consolidate and capture the paper financials and bring back what is presented to the Board a profit and loss and a balance sheet.

Mr. Stempeck stated that he looks for major differences on large line items and that it seems like we're on track.

Ms. O'Brien explained trying to standardize financials to a limited number of pages. Over years have added more and more pages. RMLD will be transitioning to standard utility financials and adding FERC accounting.

Regular Session Meeting Minutes February 23, 2017

Financial Report – December 2016 – Ms. Markiewicz (Attachment 2)

Mr. Stempeck stated that he likes to see projections on where you want to be at the end of the year, along with trends, sales, and costs to become reactive if needed.Ms. O'Brien added that this is year 3 and the Formal Cost of Service study will be rolled into the budget process.

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

Mr. Jaffari announced that he was reporting on December. Capital Expenditure is right on target, with 50% spent halfway through the fiscal year. \$52,750 was spent in the month of December, bringing year-to-date \$368,534. \$126,809 was spent on Routine Construction in December, making the fiscal year-to-date total \$903,151. \$126,809.

Mr. Hennessy asked what the estimated date of completion is for the LED streetlight conversion project.

Mr. Jaffari explained that it is a 3-year program that is almost 60% done. It will be completed by the end of 2018, with a total cost of \$800,000. Mr. Hennessy clarified that the new lights will use a lot less electricity. Mr. Jaffari affirmed.

Good progress is being made on routine maintenance. As of December 2016, 25% of pad mount transformers have been replaced, and approximately 16% of overhead transformers have been replaced. Pole inspections have resulted in 213 poles being replaced and, of those, 116 transfers have been completed. Mr. Jaffari mentioned that there was a question at the last Board Meeting about the priority of the double poles, and which ones are given priority as they are being inspected. Mr. Jaffari stated that any poles that threaten public safety are the first to be taken care of. The quarterly inspection of feeders showed no problems. As of December 2016, 961 out of 1,237 manholes have been inspected. The porcelain cutout replacement program is 91% complete. There are 256 remaining. 87 spans of trees were trimmed in December, bringing the year-to-date total to 651. Infrared scans showed no substation hot spots.

Mr. Stempeck added that he had recently read in the paper that one of the major investor-owned utilities was implementing a major tree trim program after determining that branches coming down during storms cause outages. Mr. Stempeck then lauded RMLD for being proactive and ahead of the curve.

Mr. Jaffari said that two biggest challenges are animals that are determined to infiltrate equipment and pine trees with shallow roots.

Mr. Hooper asked how the Wildwood substation is holding up. Mr. Jaffari answered that the switchgear is old. Repairs to switchgear is being done in 3 phases: 1. Removed asbestos 2. Reinsulated from bus to transformer 3. In the first week of March the entire bus will be reinsulated. The breakers are okay, so the substation is expected to last a few more years now that maintenance is being performed and repairs are being made, while RMLD looks for suitable land for a new substation. Station 4 is all set; all the breakers are new and improvements have been made. Station 3 maintenance should be done by June.

Mr. Jaffari then discussed double poles. There are 16,000 poles in the service territory. Reading ownership is split 50/50 with Verizon. North Reading poles are RMLD owned. Lynnfield and Wilmington are both owned by Verizon. The NJUNS program shows 1 transfer in Lynnfield, 91 pull poles and 13 transfers in North Reading, 23 transfers and 27 pull poles in Reading, and 59 transfers, 1 attach, 4 pull poles, and 1 guy install in Wilmington. These are being held up by other utilities.

Mr. Jaffari then thanked RMLD customers for being patient and tolerating the ugly double poles. RMLD is making progress. Mr. Jaffari then stated that RMLD's system reliability for the number of storms is just above the regional average and well below the national average. Additionally, Outage caused by equipment is shrinking-maintenance program is paying off.

Ms. O'Brien added that she and Mr. Jaffari had met with fire chiefs from all four towns in the service territory aerial views of substations what type of equipment, fire hazards, what precautions they need to take, especially when dealing with solar equipment.

RMLD Procurement Requests Requiring Board Approval (Attachment 4) IFP 2017-34 Grounds and Landscape Services

Mr. Jaffari explained that this is a Chapter 30B that was presented to 29 bidders. 5 bids were received and the lowest most responsible and responsive was from Greenscape Land Design, Inc. for \$110,952. This is a three-year contract and last time it went to bid at \$160,000. This time RMLD is receiving more services for \$50,000 less. The 3 top bidders 2 had some exceptions.

Mr. Stempeck made a motion, seconded by Mr. Hennessy, that proposal 2017-34 for Grounds and Landscape Services be awarded to Greenscape Land Design Inc. for \$110,952.00 pursuant to Chapter 30B on the recommendation of the General Manager.

Motion carried 4:0:0.

Mr. Talbot clarified there were 5 bidders. Mr. Jaffari affirmed. 3 top bidders were responsive but more expensive.

General Discussion

Mr. Pacino stated, and the Board agreed, that the next Board Meeting will be on Thursday, March 23.

A representative is needed for the March 1 CAB meeting. Mr. Pacino and Mr. Stempeck stated they are unable to attend. Mr. Hennessy volunteered.

Mr. Talbot returned to the time-based incentive commercial rate. Ms. Parenteau stated that she can talk to the Cost of Service consultant. It can be modeled once the budget information is entered. Mr. Talbot also added that Concord Municipal did an RFP for solar and found that it may be cheaper to self-build and asked if RMLD can do n analysis on a flat roof. Ms. Parenteau stated that she can get that information.

Mr. Talbot added that he received an e-mail from the Reading High School Drama Club, who inquired about replacing their incandescent flood lights with LEDs. Ms. Parenteau explained that Reading High School is a customer, we do offer rebate programs, and she can have an engineer reach out to them. Mr. Talbot then explained that it wasn't Reading High School, per se. The high school is not paying for the equipment; rather, the parents club and the student group that run the theatre program use donations to buy the equipment. Ms. Parenteau asked Mr. Talbot to send her a name to contact.

Mr. Pacino remarked that more and more downtown garages are installing electric car charging stations and that it would make sense to install them next to the railroad station.

Ms. O'Brien added that RMLD is waiting for the snow to melt to fix the parking lot pavement issues and install a charging station. RMLD is looking into home charging stations. Mr. Pacino remarked on parking garages using stations as a means to attract customers.

Executive Session

At 8:48 p.m. Mr. Pacino made a motion, seconded by Mr. Talbot, that the Board go into Executive Session 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.

Mr. Pacino called for a poll of the vote:

Mr. Talbot: Aye; Mr. Stempeck, Aye; Mr. Hennessy: Aye; and Mr. Pacino: Aye. **Motion carried 4:0:0.**

Adjournment

At 9:16 p.m. Vice Chair Pacino made a motion seconded by Mr. Stempeck to adjourn the Regular Session. **Motion carried 4:0:0.**

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

John Stempeck, Secretary Pro Tem RMLD Board of Commissioners



February 23, 2017
RMLD Board of Commissioners Meeting
Reporting for December

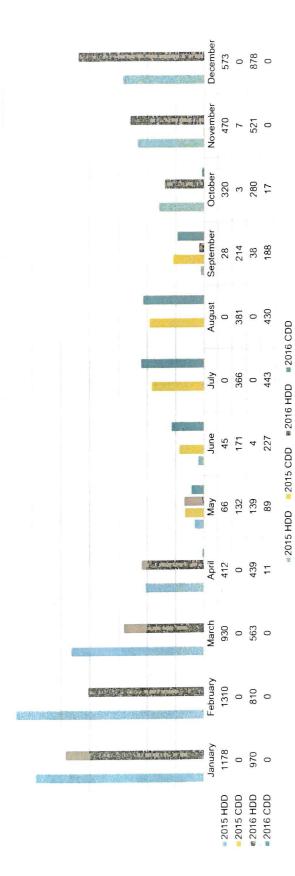


Jane Parenteau Director of Integrated Resources

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2015 vs. 2016





2016 Peak MW

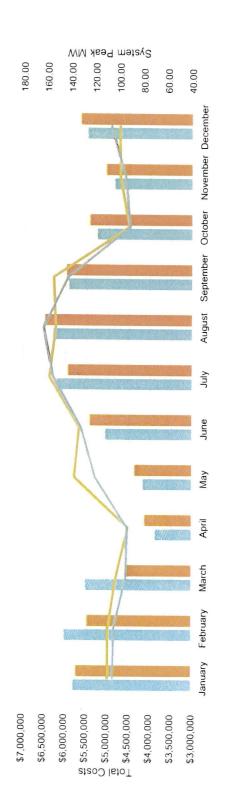
____2015 Peak MW

2016 Cost \$

2015 Costs \$

transmission & other) VS. System peak Purchase power cost (capacity,

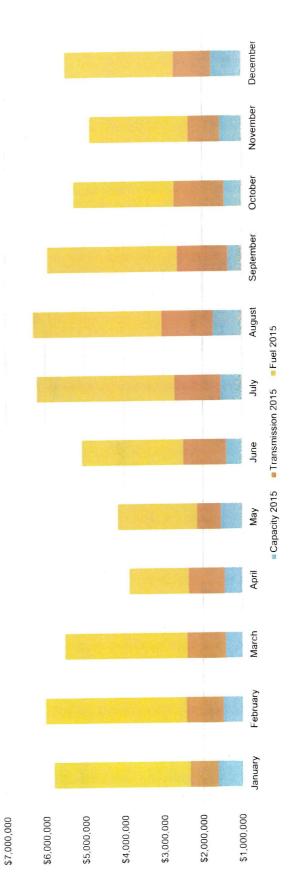




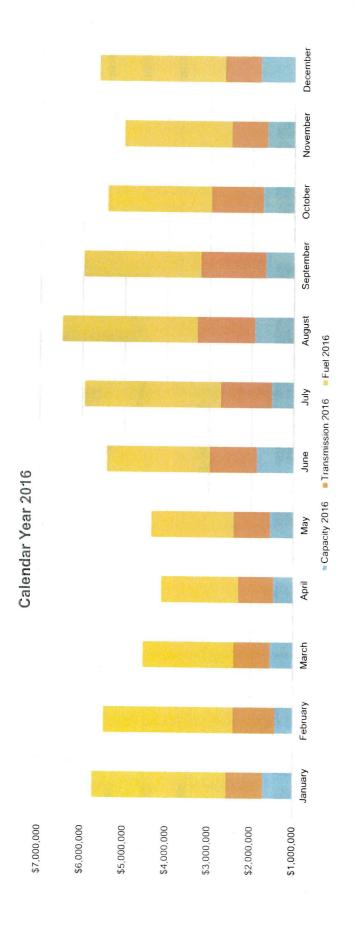


Purchase power costs



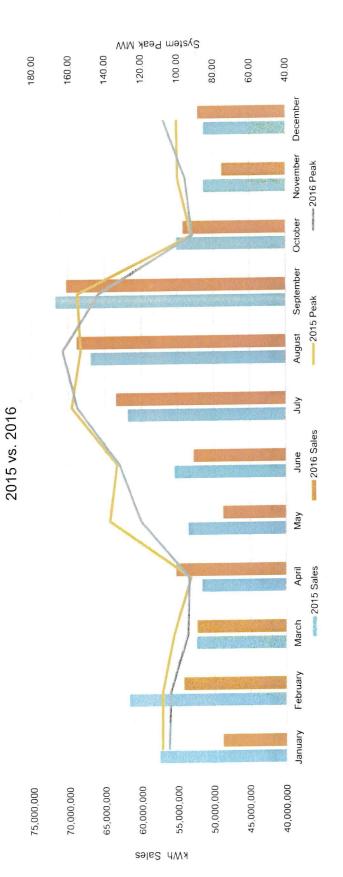


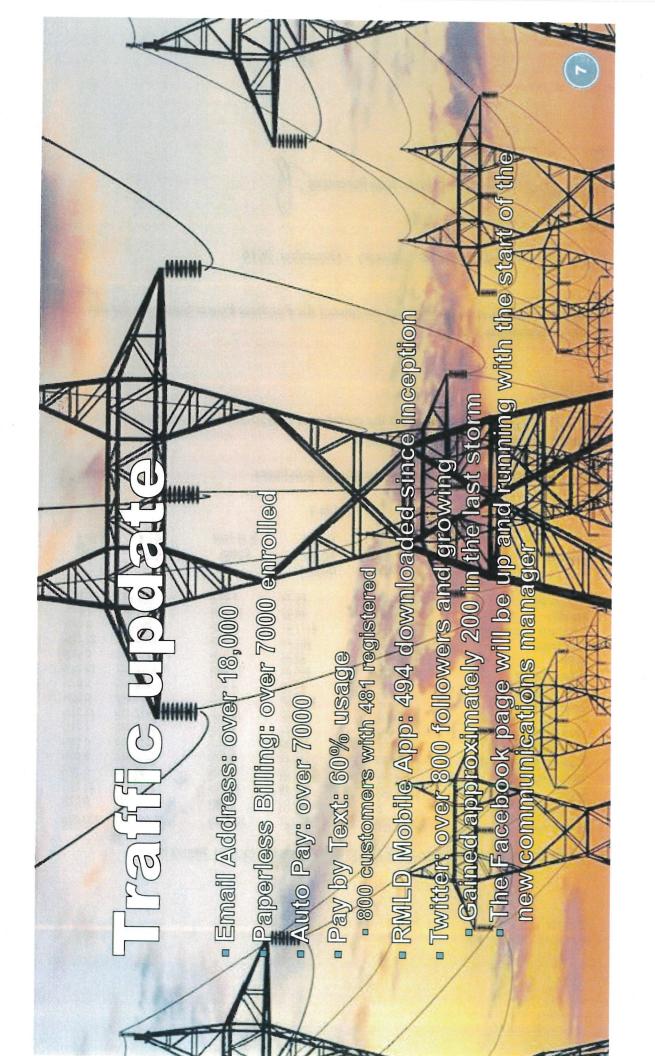
Purchase power costs



(b)

kwh sales vs. system beak





To:

Coleen O'Brien

From Maureen McHugh, Jane Parentean

Date:

February 13, 2017

Subject:

Purchase Power Summary - December, 2016

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

ENERGY

The RMLD's total metered load for the month was 58,436,483 kWh, which is an 3.56% increase from the December, 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	3,702,204	\$6.72	6.32%	\$24,885	0.83%
Seabrook	5,905,327	\$6.32	10.08%	\$37,321	1.25%
Stonybrook Intermediate	355,543	\$171.31	0.61%	\$60,907	2.04%
Shell Energy	10,437,000	\$63.58	17.81%	\$663,632	22.22%
NYPA	2,526,578	\$4.92	4.31%	\$12,431	0.42%
ISO Interchange	8,607,486	\$66.83	14.69%	\$575,202	19.26%
NEMA Congestion	0	\$0.00	0.00%	\$18,190	0.61%
Coop Resales	17,973	\$102.69	0.03%	\$1,846	0.06%
BP Energy	8,893,800	\$46.90	15.18%	\$417,119	13.97%
Hydro Projects*	2,526,792	\$85.23	4.31%	\$215,365	7.21%
Braintree Watson Unit	307,004	\$54.89	0.52%	\$16,853	0.56%
Saddleback/Jericho Wind	2,976,917	\$86.22	5.08%	\$256,681	8.60%
One Burlington Solar	122,432	\$70.00	0.21%	\$8,570	0.29%
Exelon	12,210,600	\$55.46	20.84%	\$677,247	22.68%
Stonybrook Peaking	0	\$0.00	0.00%	\$0	0.00%
Monthly Total	58,589,656	\$50.97	100.00%	\$2,986,249	100.00%

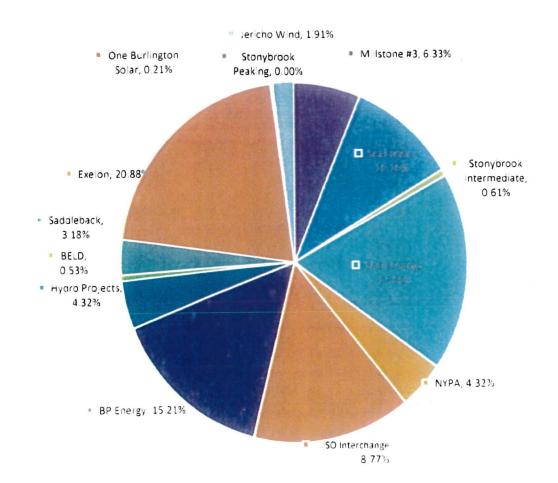
^{*}Pepperell, Woronoco,Indian River, Turner Falls, Collins, Ploneer, Hosiery Mills, Summit Hydro

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

		Table 2	
Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy
ISO DA LMP * Settlement	13,995,321	\$59.18	23.89%
RT Net Energy ** Settlement	(5,387,834)	\$47.00	-9.20%
ISO Interchange (subtotal)	8,607,486	\$66.80	14.69%

^{*} Independent System Operator Day-Ahead Locational Marginal Price

DECEMBER 2016 ENERGY BY RESOURCE



^{**} Real Time Net Energy

CAPACITY

The RMLD hit a demand of 107,565 kW, which occurred on December 19, at 6 pm. The RMLD's monthly UCAP requirement for December, 2016 was 232,355 kWs.

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

Table 3

Source	Amount (kWs)	Cost (\$/kW-month)	Total Cost \$	% of Total Cost
Millstone #3	4,950	33.53	\$165,967	9.20%
Seabrook	7,909	36.43	\$288,110	15.97%
Stonybrook Peaking	24,981	3.15	\$78,780	4.37%
Stonybrook CC	42,925	7.07	\$303,265	16.81%
NYPA	0	0.00	\$6,679	0.37%
Hydro Quebec	0	0	\$583	0.03%
Nextera	60,000	6.15	\$369,000	20.46%
Braintree Watson Unit	0	0.00	\$86,226	4.78%
ISO-NE Supply Auction	91,591	5.52	\$505,230	28.01%
Total	232,356	\$7.73	\$1,803,840	100.00%

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

				Table 4			Cost of
					% of	Amt of Energy	Power
	Resource	Energy	Capacity	Total cost	Total Cost	(kVVh)	(\$/kWh)
	Millstone #3	\$24,885	\$165,967	\$190,852	3.99%	3,702,204	0.0516
	Seabrook	\$37,321	\$288,110	\$325,431	6.81%	5,905,327	0.0551
	Stonybrook Intermediate	\$60,907	\$303,265	\$364,173	7.62%	355,543	1.0243
	Hydro Quebec	\$0	\$583	\$583	0.01%	-	0.0000
	Shell Energy	\$663,632	\$0	\$663,632	13.88%	10,437,000	0.0636
	NextEra	\$0	\$369,000	\$369,000	7.72%		0.0000
ŵ	NYPA	\$12,431	\$6,679	\$19,109	0.40%	2,526,578	0.0076
	ISO interchange	\$575,202	\$505,230	\$1,080,432	22.59%	8,607,486	0.1255
	Nema Congestion	\$18,190	\$ 0	\$18,190	0.38%		0.0000
	BP Energy	\$417,119	\$0	\$417,119	8.72%	8,893,800	0.0469
ŵ	Hydro Projects	\$215,365	-\$8,324	\$207,041	4.33%	2,526,792	0.0819
	Braintree Watson Unit	\$16,853	\$86,226	\$103,078	2.16%	307,004	0.3358
úr	Saddleback/Jericho	\$256,681	\$ 0	\$256,681	5.37%	2,976,917	0.0862
vir	One Burlington Solar	\$8,570	\$0	\$8,570	0.18%	122,432	0.0700
	Coop Resales	\$1,846	\$ 0	\$1,846	0.04%	17,973	0.1027
	Exelon Energy	\$677,247	\$0	\$677,247	14.16%	12,210,600	0.0555
	Stonybrook Peaking	\$0	\$78,780	\$78,780	1.65%		0.0000
		*0.000.0:0		21 701 705	100.000	eo eoo eeo	0.0045
	Monthly Total	\$2,986,249	\$1,795,516	\$4,781,765	100.00%	58,589,656	0.0816

^{*} Renewable Resources

RENEWABLE ENERGY CERTIFICATES (RECs)

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

Table 5 RECs Summary

	Period - January 2016 - December 2016				
	Banked RECs	Projected RECs	Total RECs	Est. Dollars	
Woronoco	0	9,599	9,599	\$177,582	
Pepperell	0	6,217	6,217	\$115,015	
Indian River	0	1,912	1,912	\$35,372	
Turners Falls	0	1,135	1,135	\$20,998	
Saddleback	0	10,539	10,539	\$194,972	
Jericho	0	6,894	6,894	\$127,539	
Sub total	0	36,296	36,296	671,476	
RECs Sold	\$0		0	\$0	
Grand Total	0	36,296	36,296	\$671,476	

TRANSMISSION

The RMLD's total transmission costs for the month of December, 2016 were \$863,599. This is a decrease of .27% from the November transmission cost of \$865,917. In December, 2015 the transmission costs were \$955,262.

Table 6

	Current Month	Last Month	Last Year
Peak Demand (kW)	107,565	95,704	100,307
Energy (kWh)	58,589,656	52,217,414	56,019,481
Energy (\$)	\$2,986,249	\$2,545,398	\$2,757,146
Capacity (\$)	\$1,795,516	\$1,630,243	\$1,578,215
Transmission(\$)	\$863,599	\$865,917	\$955,262
Total	\$5,645,364	\$5,041,558	\$5,290,623

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT BUSINESS-TYPE PROPRIETARY FUND STATEMENT OF NET ASSETS 12/31/16

	PREVIOUS YEAR	CURRENT YEAR
ASSETS		
CURRENT UNRESTRICTED CASH RESTRICTED CASH RESTRICTED INVESTMENTS RECEIVABLES, NET PREPAID EXPENSES OTHER DEFERRED DEBITS INVENTORY	11,358,085.47 21,442,729.78 1,284,061.45 7,501,623.12 2,750,539.26 1,547,815.00 1,674,959.04	15,081,102.32 22,649,697.18 1,345,663.06 9,566,223.57 1,129,845.45 6,338,218.00 1,580,914.77
TOTAL CURRENT ASSETS	47,559,015.12	37,031,004.33
NONCURRENT INVESTMENT IN ASSOCIATED CO CAPITAL ASSETS, NET	26,993.75 70,337,308.32	26,993.75 72,977,009.04
TOTAL NONCURRENT ASSETS	70,364,302.07	73,004,002.79
TOTAL ASSETS	117,924,115.19	130,695,667.14
	:	
LIABILITIES		
CURRENT ACCOUNTS PAYABLE CUSTOMER DEPOSITS CUSTOMER ADVANCES FOR CONSTRUCTION ACCRUED LIABILITIES	7,304,330.51 903,279.18 938,349.15 3,174,618.47	7,209,463.04 1,024,765.67 1,028,449.93 10,153,696.95
TOTAL CURRENT LIABILITIES	12,320,577.31	19,416,374.59
NONCURRENT ACCRUED EMPLOYEE COMPENSATED ABSENCES	3,070,487.93	3,257,809.00
TOTAL NONCURRENT LIABILITIES	3,070,487.93	3,257,809.00
TOTAL LIABILITIES	15,391,065.24	22,674,183.59
NET ASSETS		
INVESTED IN CAPITAL ASSETS, NET OF RELATED DEBT RESTRICTED FOR DEPRECIATION FUND UNRESTRICTED	70,337,308.32 6,426,278.58 25,769,463.05	72,977,009.04 5,298,216.37 29,746,258.14
TOTAL NET ASSETS	102,533,049.95	108,021,483.55
TOTAL LIABILITIES AND NET ASSETS	117,924,115.19	130,695,667.14

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT NONCURRENT ASSET SCHEDULE 12/31/16

SCHEDULE C

SCHEDULE OF INVESTMENTS IN ASSOCIATED COMPANIES	PREVIOUS YEAR	CURRENT YEAR
NEW ENGLAND HYDRO ELECTRIC NEW ENGLAND HYDRO TRANSMISSION	2,975.74 24,018.01	2,975.74 24,018.01
TOTAL INVESTMENTS IN ASSOCIATED COMPANIES	26,993.75	26,993.75
SCHEDULE OF CAPITAL ASSETS		
LAND STRUCTURES AND IMPROVEMENTS EQUIPMENT AND FURNISHINGS INFRASTRUCTURE TOTAL CAPITAL ASSETS, NET	1,265,842.23 6,481,420.15 11,899,631.47 50,690,414.47 70,337,308.32	1,265,842.23 8,148,752.49 11,891,047.99 51,671,366.33 72,977,009.04
TOTAL NONCURRENT ASSETS	70,364,302.07	73,004,002.79

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT BUSINESS-TYPE PROPRIETARY FUND STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS 12/31/16

	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
OPERATING REVENUES:					
BASE REVENUE FUEL REVENUE PURCHASED POWER CAPACITY FORFEITED DISCOUNTS ENERGY CONSERVATION REVENUE NYPA CREDIT	1,759,727.09 2,826,699,78 2,200,292.86 86,146.38 50,272.82 (91,032.01)	1,970,195.55 2,573,056.92 2,453,637.87 66,416.22 51,151.08 (91,202.42)	12,234,940.46 17,625,976.64 15,422,436.34 405,781.68 361,624.05 (520,802.01)	13,522,803.32 17,129,536.64 17,830,948.53 456,872.78 350,942.52 (534,547.18)	10.53% -2.82% 15.62% 12.59% -0.19% 2.64%
TOTAL OPERATING REVENUES	6,832,106.72	7,023,255.22	45,519,957.16	48,756,556.61	7.11%
OPERATING EXPENSES:					
PURCHASED POWER CAPACITY PURCHASED POWER TRANSMISSION PURCHASED POWER FUEL OPERATING MAINTENANCE DEPRECIATION VOLUNTARY PAYMENTS TO TOWNS	1,773,743.78 955,262.13 2,757,146.26 1,090,311.58 287,885.24 328,732.65 106,973.00	1,802,095.92 863,599.00 2,986,248.94 1,094,909.95 289,477.82 341,775.67 113,372.00	9,392,215.65 6,812,931.23 17,855,289.73 5,276,536.93 1,496,627.46 1,972,395.90 696,973.00	10,272,863.98 7,091,289.59 17,175,745.04 5,583,693.84 1,806,309.44 2,050,654.02 703,372.00	9.38% 4.09% -3.81% 5.84% 20.69% 3.97% 0.92%
TOTAL OPERATING EXPENSES	7,300,054.64	7,491,479.30	43,501,969.90	44,683,927.91	2.72%
OPERATING INCOME	(467,947.92)	(468,224.08)	2,017,987.26	4,072,628.70	101.82%
NONOPERATING REVENUES (EXPENSES)				· ·	
CONTRIBUTIONS IN AID OF CONST RETURN ON INVESTMENT TO READING IN TEREST INCOME INTEREST EXPENSE OTHER (MDSE AND AMORT)	(458.39) (197,537.10) 14,139.36 (189.44) 3,039.25	533.93 (198,722.35) 15,485.65 (1,960.60) (1,991.00)	38,444.74 (1,185,222.60) 69,114.38 (1,087.01) 148,729.85	70,421.93 (1,192,334.00) 73,472.79 (2,925.91) 185,732.80	83.18% 0.60% 6.31% 169.17% 24.88%
TOTAL NONOPERATING REV (EXP)	(181,006.32)	(186,654.37)	(930,020.54)	(865,632.39)	-6.92%
CHANGE IN NET ASSETS	(648,954.24)	(654,878.45)	1,087,966.72	3,206,996.31	194.77%
NET ASSETS AT BEGINNING OF YEAR			101,445,083.23	104,814,487.24	3.32%
NET ASSETS AT END OF DECEMBER			102,533,049.95	108,021,483.55	5.35%

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT BUSINESS-TYPE PROPRIETARY FUND STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET ASSETS 12/31/16

OPERATING REVENUES:	2017 BUDGET	ACTUAL YEAR TO DATE	REMAINING BUDGET BALANCE	% CHANGE
BASE REVENUE FUEL REVENUE PURCHASED POWER CAPACITY FORFEITED DISCOUNTS ENERGY CONSERVATION REVENUE NYPA CREDIT	25,500,000.00 34,074,492.00 34,322,278.00 688,500.00 673,000.00 (900,000.00)	13,522,803.32 17,129,536.64 17,830,948.53 456,872.78 350,942.52 (534,547.18)	11,977,196.68 16,944,955.36 16,491,329.47 231,627.22 322,057.48 (365,452.82)	46.97% 49.73% 48.05% 33.64% 47.85% 40.61%
TOTAL OPERATING REVENUES	94,358,270.00	48,756,556.61	45,601,713.39	48.33%
OPERATING EXPENSES:				
PURCHASED POWER - CAPACITY PURCHASED POWER - TRANSMISSION PURCHASED POWER FUEL OPERATING MAINTENANCE DEPRECIATION VOLUNTARY PAYMENTS TO TOWNS TOTAL OPERATING EXPENSES OPERATING INCOME	20,943,651.00 13,378,627.00 33,174,492.00 12;107,583.00 3,717,632.00 4,134,000.00 1,445,420.00 88,901,405.00	10,272,863.98 7,091,289.59 17,175,745.04 5,583,693.84 1,806,309.44 2,050,654.02 703,372.00 44,683,927.91	10,670,787.02 6,287,337.41 15,998,746.96 6,523,889.16 1,911,322.56 2,083,345.98 742,048.00 44,217,477.09	50.95% 47.00% 48.23% 53.88% 51.41% 50.40% 51.34% 49.74%
NONOPERATING REVENUES (EXPENSES)				
CONTRIBUTIONS IN AID OF CONST RETURN ON INVESTMENT TO READING INTEREST INCOME INTEREST EXPENSE OTHER (MDSE AND AMORT)	500,000.00 (2,534,668.00) 125,000.00 (2,100.00) 390,000.00	70,421.93 (1,192,334.00) 73,472.79 (2,925.91) 185,732.80	429,578.07 (1,342,334.00) 51,527.21 825.91 204,267.20	85.92% 52.96% 41.22% -39.33% 52.38%
TOTAL NONOPERATING REV (EXP)	(1,521,768.00)	(865,632.39)	(656,135.61)	43.12%
CHANGE IN NET ASSETS	3,935,097.00	3,206,996.31	728,100.69	18.50%

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT RECONCILIATION OF CAPITAL FUNDS 12/31/16

SOURCE OF CAPITAL FUNDS:

DEPRECIATION FUND BALANCE 7/1/16	4,494,952.86
CONSTRUCTION FUND BALANCE 7/1/16	1,500,000.00
INTEREST ON DEPRECIATION FUND FY 17	15,360.04
DEPRECIATION TRANSFER FY 17	2,050,654.02
LED GRANT PROGRAM	62,500.00
TOTAL SOURCE OF CAPITAL FUNDS	8,123,466.92
USE OF CAPITAL FUNDS:	
LESS PAID ADDITIONS TO PLANT THRU DECEMBER	
TOTAL USE OF CAPITAL FUNDS	2,825,250.55
GENERAL LEDGER CAPITAL FUNDS BALANCE 12/31/16	5,298,216.37

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT SALES OF KILOWATT HOURS 12/31/16

SALES OF ELECTRICITY:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
RESIDENTIAL SALES COMM, AND INDUSTRIAL SALES PRIVATE STREET LIGHTING	18,891,467 29,987,560 79,996	18,657,110 31,062,309 99,677	134,467,011 209,094,489 477,356	136,447,232 206,674,777 552,368	1.47% -1.16% 15.71%
TOTAL PRIVATE CONSUMERS	48,959,023	49,819,096	344,038,856	343,674,377	-0.11%
MUNICIPAL SALES:					
STREET LIGHTING MUNICIPAL BUILDINGS	222,241 733,200	185,163 768,127	1,381,864 4,604,141	1,229,430 4,515,047	-11.03% -1.94%
TOTAL MUNICIPAL CONSUMERS	955,441	953,290	5,986,005	5,744,477	-4.03%
SALES FOR RESALE	203,566	179,911	1,726,301	1,598,470	-7.40%
SCHOOL	1,233,814	1,197,145	7,085,798	6,709,791	-5.31%
TOTAL KILOWATT HOURS SOLD	51,351,844	52,149,442	358,836,960	357,727,115	-0.31%

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TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT SCHEDULE OF CASH AND INVESTMENTS 12/31/16

SCHEDULE A

	PREVIOUS YEAR	CURRENT YEAR
UNRESTRICTED CASH		
CASH - OPERATING FUND CASH - PETTY CASH	11,355,085.47 3,000.00	15,078,102.32 3,000.00
TOTAL UNRESTRICTED CASH	11,358,085.47	15,081,102.32
RESTRICTED CASH		
CASH - DEPRECIATION FUND CASH - TOWN PAYMENT	6,426,278.58 0.00	5,298,216.37 1,900,333.98
CASH - DEFERRED FUEL RESERVE	4,430,170.05	4,536,119.09
CASH - RATE STABILIZATION FUND	6,796,669.46	6,848,427,56
CASH - UNCOLLECTIBLE ACCTS RESERVE	200,000.00	200,000.00
CASH - SICK LEAVE BENEFITS	1,805,599.83	1,940,334.17
CASH - HAZARD WASTE RESERVE	150,000.00	150,000.00
CASH - CUSTOMER DEPOSITS CASH - ENERGY CONSERVATION	903,279.18	1,024,765.67
CASH - ENERGY CONSERVATION	730,732.68	751,500.34
TOTAL RESTRICTED CASH	21,442,729.78	22,649,697.18
INVESTMENTS		
SICK LEAVE BUYBACK	1,284,061.45	1,345,663.06
	0.1.00.1.00.0	
TOTAL CASH BALANCE	34,084,876.70	39,076,462.56

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT SCHEDULE OF OPERATING REVENUE 12/31/16

SCHEDULE D

SALES OF ELECTRICITY:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
RESIDENTIAL SALES COMM AND INDUSTRIAL SALES PRIVATE STREET LIGHTING	1,981,917.70 2,409,026.19 10,569.04	1,957,712.34 2,370,405.21 11,784.26	13,246,809.25 15,380,916.01 60,437.65	13,943,003.82 15,401,032.29 67,825.87	5.26% 0.13% 12.22%
TOTAL PRIVATE CONSUMERS	4,401,512.93	4,339,901.81	28,688,162.91	29,411,861.98	2.52%
MUNICIPAL SALES:					
STREET LIGHTING MUNICIPAL BUILDINGS	(4,604.98) 65,864.54	19,829.34 67,951.40	71,970.65 380,857.53	155,340.74 386,097.04	115.84% 1.38%
TOTAL MUNICIPAL CONSUMERS	61,259.56	87,780.74	452,828.18	541,437.78	19.57%
SALES FOR RESALE	19,010.76	16,618.91	149,317.64	144,198.01	-3.43%
SCHOOL	104,643.62	98,951.01	570,608.37	554,842.19	-2.76%
-			9		
SUB-TOTAL	4,586,426.87	4,543,252.47	29,860,917.10	30,652,339.96	2.65%
FORFEITED DISCOUNTS	86,146.38	66,416.22	405,781.68	456,872.78	12.59%
PURCHASED POWER CAPACITY	2,200,292.86	2,453,637.87	15,422,436.34	17,830,948.53	15.62%
ENERGY CONSERVATION - RESIDENTIAL ENERGY CONSERVATION - COMMERCIAL	18,899.14 31,373.48	18,665.67 32,485.41	134,529.71 217,094.34	136,524,24 214,418.28	1.48% -1.23%
NYPA CREDIT	(91,032.01)	(91,202.42)	(520,802.01)	(534,547.18)	2.64%
TOTAL REVENUE	6,832,106.72	7,023,255.22	45,519,957.16	48,756,556.61	7.11%

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT SCHEDULE OF OPERATING EXPENSES 12/31/16

SCHEDULE E

OPERATION EXPENSES:	MONTH LAST YEAR	MONTH CURRENT YEAR	LAST YEAR TO DATE	CURRENT YEAR TO DATE	YTD % CHANGE
PURCHASED POWER CAPACITY	1,773,743.78	1,802,095,92	9,392,215.65	10,272,863.98	9,38%
PURCHASED POWER TRANSMISSION	955,262.13	863,599.00	6,812,931.23	7,091,289.59	4.09%
TOTAL PURCHASED POWER	2,729,005.91	2,665,694.92	16,205,146.88	17,364,153.57	7.15%
OPERATION SUP AND ENGINEERING EXP	50,646.37	26,893.57	272,264.77	228,617.91	-16.03%
STATION SUP LABOR AND MISC	14,514.87	8,343.42	75,545.30	68,665.36	-9.11%
LINE MISC LABOR AND EXPENSE	75,056.73	56,029.79	381,563.83	310,706.06	-18.57%
STATION LABOR AND EXPENSE	38,871.07	40,903.29	201,987.73 57,133.08	250,883.35	24.21%
STREET LIGHTING EXPENSE	10,887.62 20,955.83	9,256.44 14,507.25	111,130.00	62,368.60	9.16%
METER EXPENSE	39,758.80	49,957.46	219,477.30	101,905.99 213,764.07	-8.30% -2.60%
MISC DISTRIBUTION EXPENSE METER READING LABOR & EXPENSE	1,983.88	1,857.31	14,519.74	13,035.48	-10.22%
ACCT & COLL LABOR & EXPENSE	173,003.27	152,509.46	841,209.15	861,985.96	2.47%
UNCOLLECTIBLE ACCOUNTS	10,000.00	12,500.00	60,000.00	75,000.00	25.00%
ENERGY AUDIT EXPENSE	42,857.32	33,480.54	275,006.58	242,801.94	-11.71%
ADMIN & GEN SALARIES	87,965.26	71,663.53	444,925.26	477,382.86	7.30%
OFFICE SUPPLIES & EXPENSE	46,308.92	44,708.66	157,940.86	151,102.83	-4.33%
OUTSIDE SERVICES	21,578.06	146,099.41	181,123.00	337,474.60	86.32%
PROPERTY INSURANCE	31,242.46	27,650.70	187,454.41	166,286.30	-11.29%
INJURIES AND DAMAGES	5,867.83	3,562.53	24,546.32	26,762.30	9.03%
EMPLOYEES PENSIONS & BENEFITS	337,363.61	273,781.81	1,399,760.93	1,520,499.13	8.63%
MISC GENERAL EXPENSE	17,069.02	15,951.02	78,700.61	73,419.16	-6.71%
RENTEXPENSE	14,157.49	15,030.63	85,750.73	84,171.52	-1.84%
ENERGY CONSERVATION	50,223.17	90,223.13	205,497.33	316,860.42	54.19%
TOTAL OPERATION EXPENSES	1,090,311.58	1,094,909.95	5,275,536.93	5,583,693.84	5.84%
MAINTENANCE EXPENSES:					, ,
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MAINT OF TRANSMISSION PLANT	227.10	8,347.10	1,362.50	9,482.50	595.96%
MAINT OF STRUCT AND EQUIPMT	30,838.27	23,661.36	176,250.76	237,090.12	34.52%
MAINT OF LINES - OH	170,208.97 14,519.35	134,041.87 23,953.09	843,652.77 64,195.11	899,160.99 153,725.35	6.58%
MAINT OF LINES - UG	0.00	464.50	79,916,66	18,387.89	139.47%
MAINT OF LINE TRANSFORMERS	(20.72)	(394.34)	(324.85)	70,100.11	-76.99% -21679.22%
MAINT OF ST LT & SIG SYSTEM MAINT OF GARAGE AND STOCKROOM	57,544.79	35,081.75	268,911.17	249,426.62	-7.25%
MAINT OF GARAGE AND STOCKROOM	0.00	0.00	0.00	0.00	0.00%
MAINT OF GEN PLANT	14,567.48	64,322.49	62,663.34	168,935.86	169.59%
TOTAL MAINTENANCE EXPENSES	287,885.24	289,477.82	1,496,627.46	1,806,309.44	20.69%
7	328,732.65	341,775.67	1,972,395.90	2.050.654.02	2.074/
DEPRECIATION EXPENSE	326,732.65	341,773.07	1,972,393.30	2,050,654.02	3.97%
PURCHASED POWER FUEL EXPENSE	2,757,146.26	2,986,248.94	17,855,289.73	17,175,745.04	-3.81%
VOLUNTARY PAYMENTS TO TOWNS	106,973.00	113,372.00	696,973.00	703,372.00	0.92%
TOTAL OPERATING EXPENSES	7,300,054.64	7,491,479.30	43,501,969.90	44,683,927.91	2.72%

TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT BUDGETED OPERATING EXPENSE VARIANCE REPORT 12/31/16

	2017	ACTUAL	REMAINING BUDGET	REMAINING
OPERATION EXPENSES:	ANNUAL BUDGET	YEAR TO DATE	BALANCE	BUDGET %
PURCHASED POWER CAPACITY	20,943,651.00	10,272,863.98	10,670,787.02	50.95%
PURCHASED POWER TRANSMISSION	13,378,627.00	7,091,289.59	6,287,337.41	47.00%
TOTAL PURCHASED POWER	34,322,278.00	17,364,153.57	16,958,124.43	49.41%
OPERATION SUP AND ENGINEERING EXP	655,195.00	228,617,91	426,577.09	65,11%
STATION SUP LABOR AND MISC	91,269.00	68,665.36	22,603,64	24.77%
LINE MISC LABOR AND EXPENSE	901,213.00	310,706.06	590,506.94	65.52%
STATION LABOR AND EXPENSE	472,879.00 102,402.00	250,883.35 62,368.60	221,995.65 40,033.40	46.95%
STREET LIGHTING EXPENSE METER EXPENSE	205,717.00	101,905,99	103,811.01	39.09% 50.46%
MISC DISTRIBUTION EXPENSE	464,418.00	213,764.07	250,653.93	53.97%
METER READING LABOR & EXPENSE	32,640.00	13,035.48	19,604.52	60.06%
ACCT & COLL LABOR & EXPENSE	1,792,724.00	861,985.96	930,738.04	51.92%
UNCOLLECTIBLE ACCOUNTS	150,000.00	75,000.00	75,000.00	50.00%
ENERGY AUDIT EXPENSE	630,232.00	242,801.94	387,430.06 657,291.14	61.47%
ADMIN & GEN SALARIES OFFICE SUPPLIES & EXPENSE	1,134,674.00 349,000.00	477,382.86 151,102.83	197,897.17	57.93% 56.70%
OUTSIDE SERVICES	418,100.00	337,474.60	80,625.40	19.28%
PROPERTY INSURANCE	424,500.00	166,286.30	. 258,213.70	60.83%
INJURIES AND DAMAGES	57,215.00	26,762.30	30,452.70	53.23%
EMPLOYEES PENSIONS & BENEFITS	2,922,673.00	1,520,499.13	1,402,173.87	47.98%
MISC GENERAL EXPENSE	219,156.00	73,419.16	145,736.84	66.50%
RENT EXPENSE	212,000.00 871,574.00	84,171.52 316,860.42	127,828.48 554,713.58	60.30%
ENERGY CONSERVATION	0/1/5/4.00	310,000.42	054,715.56	63.65%
TOTAL OPERATION EXPENSES	12,107,581.00	5,583,693.84	6,523,887.16	53.88%
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MAINTENANCE EXPENSES:	,		*	
MAINT OF TRANSMISSION PLANT	3,000.00	9,482.50	(6,482.50)	-216.08%
MAINT OF STRUCT AND EQUIPMT	419,599.00	237,090.12	182,508.88	43.50%
MAINT OF LINES - OH	2,044,499.00	899,160.99	1,145,338.01	56.02%
MAINT OF LINES - UG MAINT OF LINE TRANSFORMERS	125,066.00 300,000.00	153,725.35 18,387.89	(28,659.35) 281,612.11	-22.92% 93.87%
MAINT OF LINE TRANSPORMERS MAINT OF ST LT & SIG SYSTEM	10,287.00	70,100.11	(59,813.11)	-581.44%
MAINT OF GARAGE AND STOCKROOM	590,523.00	249,426.62	341,096.38	57.76%
MAINT OF METERS	44,658.00	0.00	44,658.00	100.00%
MAINT OF GEN PLANT	180,000.00	168,935.86	11,064.14	6.15%
TOTAL MAINTENANCE EXPENSES	3,717,632.00	1,806,309.44	1,911,322.56	51.41%
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DEPRECIATION EXPENSE	4,134,000.00	2,050,654.02	2,083,345.98	50.40%
,				
PURCHASED POWER FUEL EXPENSE	33,174,492.00	17,175,745.04	15,998,746.96	48.23%
FORGRASED FOWER FOEL EXPENSE	55,174,452.00	17,170,143.04	10,000,740.00	40.23/0
VOLUNTARY PAYMENTS TO TOWNS	1,445,420.00	703,372.00	742,048.00	51.34%
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TOTAL OPERATING EXPENSES	88,901,403.00	44,683,927.91	44,217,475.09	49.74%

READING MUNICIPAL LIGHT DEPARTMENT

FOR PERIOD ENDING DECEMBER, 2016

STATIK	NSTRUCTION: derground Facilities Upgrades (URD's, Mannoles, etc.) 8kV Upgrade (Step-down areas, etc.) SUB-TOTAL ATION UPGRADES: tion 4 (GAW) Relay Replacement Project tion 4 35kV Potential Transformer Replacement 9 Getaway Replacement-Station 4 ostation Equipment Upgrade (ail) tion 4 (GAW) Battery Bank Upgrade ton 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	ALL R R R ALL R	11,168 11,168 87,079	262,981 4,909 267,890	149,965 105,748 255,713	(113,016) 100,839 - (12,177)
13.8kV SUE	SUB-TOTAL ATION UPGRADES: tion 4 (GAW) Relay Replacement Project tion 4 35kV Potential Transformer Replacement 9 Getaway Replacement-Station 4 ostation Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade tion 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R R R ALL	11,168	4,909 - 267,890	105,748 255,713	100,839
SUE	ATION UPGRADES: tion 4 (GAW) Relay Replacement Project tion 4 35kV Potential Transformer Replacement 9 Getaway Replacement-Station 4 ostation Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade ton 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R R R ALL	-	267,890	255,713	
STATIK	tion 4 (GAW) Relay Replacement Project tion 4 35kV Potential Transformer Replacement 9 Getaway Replacement-Station 4 botation Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade ton 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R R ALL	-	101,845		(12,177)
108 Station 109 Station 110 4W9 G 111 Substa 113 Station 120 Station 130 Station 133 Station 139 Station 140 Substa SUE New C New Se SUE ROUTI SPECI 100 Distrib 102 Padmo 103 Grid Me 105 New W 112 AMI Me 115 Fault r 116 Transfe 117 Meter F 125 G S 126 Commi 131 LED St 134 Substa 135 Ana og 136 Votage SUE OTHER 96 Control 97 HVAC 98 Carpet 99 E'ectric 104 RMLD 118 Rolling	tion 4 (GAW) Relay Replacement Project tion 4 35kV Potential Transformer Replacement 9 Getaway Replacement-Station 4 station Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade t on 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R R ALL	87,079			
109	tion 4 35kV Potential Transformer Replacement 9 Getaway Replacement-Station 4 ostation Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade t on 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R R ALL	87,079			
110 4W9 G 111 Substa 113 Station 120 Station 130 Station 133 Station 133 Station 134 Substa 135 Substa 140 Substa 140 Substa 140 Substa 140 Distribut 140 Distribut 141 AMI Meter F 142 G S 143 Substa 144 Substa 155 Ana og 156 Common 157 Ana og 158 Substa 158 Ana og 159 Substa 159 Carpet 159 Carpet 159 Carpet 150 RMLD 150 RMLD 151 RMLD 151 RMLD 152 RMLD 153 RMLD 154 RMLD 155 RMLD 155 RMLD 156 RMLD 157 RMLD 158 RMLD	9 Getaway Replacement-Station 4 ostation Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade t on 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R ALL			48,904	(52,941)
111 Substa 113 Station 120 Station 120 Station 131 Station 133 Station 139 Station 140 Substa SUE New Column New Column New William New William	ostation Equipment Upgrade (all) tion 4 (GAW) Battery Bank Upgrade t on 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	ALL		57	•	(57)
113	tion 4 (GAW) Battery Bank Upgrade tion 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration				234,747	234,747
120 Station 130 Station 131 Station 140 Substa SUE	tion 4 - Relay/SCADA Integration for Bus A&B tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration		24,000	24,000	74,590 17,037	74,590
130 Station 133 Station 134 Station 140 Substa SUE	tion 3 - Remote Terminal Unit (RTU) Replacement tion 3 - Relay Upgrades and SCADA Integration	R	24,000	24,000	70.308	(6,963) 46,047
New Color	tion 3 - Relay Upgrades and SCADA Integration	NR		24.201	39.330	39.330
New Color	No. 5 LTC Control Dunland	NR	20,793	95,298	252.225	156,927
NEW C New Se SUE	tion 5 - LTC Control Replacement	W			41,543	41,543
NEW C New Set SUE	ostation Grounding Equipment Upgrade	ALL		-	20,671	20,671
New Se SUE	SUB-TOTAL	9	131,872	245,461	799,355	553,894
New Se SUE	W CUSTOMER SERVICES:					
ROUTI	w Service Installations (Commercial / Industrial)	ALL	10,363	62,814	139,570	76,756
SPECI.	SUB-TOTAL		10,363	62,814	139,570	76,756
100 Distribution 102 Padmo 103 Grid Me 105 New W 112 AMI Me 115 Fault in 116 Transfor 117 Meter F 125 G S 126 Commit 131 LED St 134 Substa 135 Ana og 136 Voitage SUB OTHER 96 Control 97 HVAC 198 Carpet 199 Electric 104 RMLD 118 Rolling	UTINE CONSTRUCTION:	ALL	126,809	881,493	1,012,962	131,469
96 Control 97 HVAC 98 Carpet 99 Electric 104 RMLD 118 Rolling	tributed Gas Generation (Pilot FY16-17) dimount Switchgear Upgrade at Industrial Parks di Modernization and Opitmization w Wilmington Sub-Station if Mesh Network Expansion sit indicators insformers and Capacitors liter Purchases communication Equipment (Fiber Optic) Distrect Light Implementation sistation Test Equipment and Devices Cap Bank Upgrade tage Data Recorders SUB-TOTAL	ALL W ALL ALL ALL ALL ALL ALL ALL ALL AL	2,097 4,845 2,491 52,750	43,175 124,339 105,045 1,340 9,102 16,140 7,064 368,534 14,270	2,720,409 194,518 284,000 250,000 220,021 25,000 668,000 80,000 69,173 804,070 30,000 54,188 25,000 5,784,379	2,677,234 194,518 159,661 250,000 114,976 23,660 658,898 63,860 360,000 62,109 435,536 15,730 54,188 25,000 5,095,371
97 HVAC 98 Carpet 99 Electric 104 RMLD 118 Rolling	HER CAPITAL PROJECTS:					
98 Carpet 99 Electric 104 RMLD 118 Rolling	ntrol Center Modifications	ALL			100,000	100,000
99 Electric 104 RMLD 118 Rolling	AC Roof Units - Garage pet Upgrade	R R	3.111	44,484	71.053	(44,484)
104 RMLD 118 Rolling	rpet Upgrade ctric Venicle Supply Equipment	ALL	1.303	8.430 1.303	71,653 10,000	63,223 8,697
118 Rolling	LD Lighting (LED) Upgrade	,,,,,	1,303	1,303	25,000	25,000
	ling Stock Replacement	A		30 477	310,000	279,523
	curity Upgrades All Sites	A	27.840	34 684	5,000	(29.684)
	AC System Upgrade - 230 Asn Street	R	52,214	467.785	500,000	32,215
	dware Upgrades	ALL	18,727	57.078	112,065	54,987
	tware and Licens ng	ALL		12.687	230.519	217,833
		R	103,195	656,927	50.000 1,414,237	50.000 757,310
	ster Facilities Site P an SUB-TOTAL					
	SUB-TOTAL					
ROUTI (~J'y-N			\$ 445,590 21,658	\$ 2,825,251	\$ 9,406,216	\$ 6,602,623

Engineering & Operations Report

RMLD Board of Commissioners Meeting February 23, 2017

December 2016 Reporting Period

Hamid Jaffari, Director of Engineering & Operations

Capital Improvement Projects

	Con	Construction Projects:	% Complete Status	Dec	YTD
	106	Underground Facilities Upgrades (URDs, Manholes, etc.) - All Towns • Lucaya Estates, Wilmington • Crestwood Road, North Reading	On- going	\$11,168	\$262,982
	108	Relay Replacement – Station 4 (GAW)	100%	\$87,079	\$101,846
	113	Station 4: Battery Bank Upgrade	10%	\$24,000	\$24,000
	133	Station 3: Relay Upgrades and SCADA Integration	%01	\$20,793	\$95,298
\					
		Service Installations – Residential and Commercial: This item includes new or upgraded overhead and underground services.	On- going	\$10,363	\$62,814
	103	Grid Modernization and Optimization	On- going	\$2,097	\$124,339
	112	112 AMI Mesh Network Expansion	On- going	\$4,845	\$105,045
	131	131 LED Street Light Conversion	28%	\$52,750	\$368,534

Routine Construction

	CLC	ATA
	DEC	
Pole Setting/Transfers	\$31,263	\$158,698
Overhead/Underground	\$19,492	\$254,884
Projects Assigned as Required High Street, Reading (Service upgrade) Solar Project – 326 Ballardvale Street, Wilmington Pumping Stations, Reading AT&T Appl, Wilmington	\$10,167	\$114,213
Pole Damage/Knockdowns	\$13,109	\$61,096
Station Group	\$32,329	\$108,230
Hazmat/Oil Spills	The state of the s	\$5,296
Porcelain Cutout Replacement Program		-
Lighting (Street Light Connections)	\$1,906	\$15,444
Storm Trouble	\$2,554	\$13,297
Underground Subdivisions (new construction)		\$45,828
Animal Guard Installation	1	\$795
Miscellaneous Capital Costs	\$15,991	\$125,371
TOTAL:	\$126,809	\$903,151

Routine Maintenance

Transformer Replacement (through December 2016)

Pad mount 25.13%

Overhead 15.88%

Pole Inspection (as of 2/15/17)

116 of 213 transfers have been completed Quarterly Inspection of Feeders (as of 2/15/17) 213 poles have been replaced

Inspected circuits (Jan-Mar): 3W5, 3W6, 3W7, 3W8, 3W13, 4W5, 4W6, 4W7, 4W23, 4W24, 5W9, 4P9, 4P2

Manhole Inspection (through December 2016)

961 of 1,237 manholes have been inspected.

Porcelain Cutout Replacements (through December 2016)

91% complete

256 remaining to be replaced

Tree Trimming

651 spans trimmed YTD:

Substation Maintenance

December: 87 spans trimmed

Infrared Scanning - December complete - no hot spots found

Double Poles

Ownership: 16,000 (approximately)

50% RMLD

50% Verizon

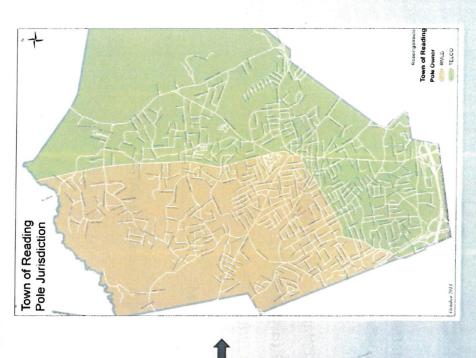
Custodial:

Reading – split (see map)

North Reading – RMLD

Lynnfield – Verizon

Wilmington - Verizon



NJUNS
"Next to Go" as of February 16, 2017

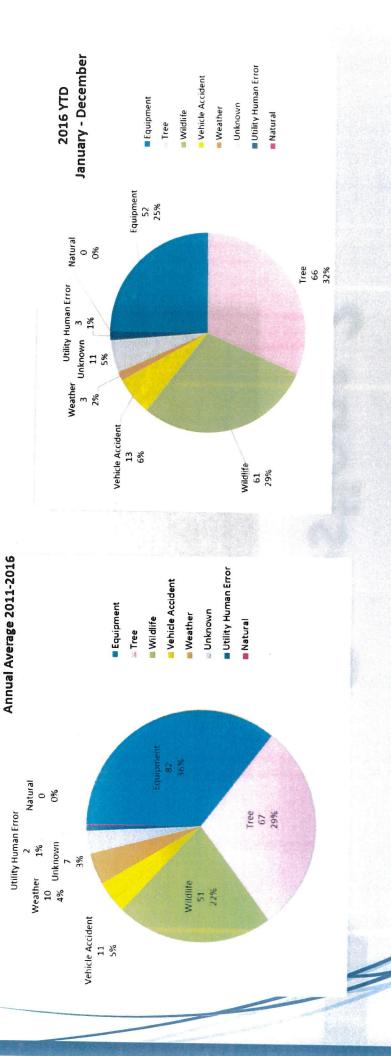
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		Non-participating 3rd Party Attacher-		RMID	
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	TRANSFER	20 IRANSTH	1	HOMESTER	
	PULLPOLE	7 JYZNESA	111	WWGNFD	n
	±(biank)	Verizon		Wilmington Fire Department	
		TRANSFIR	107	TRANSFER	7
	Grand Total 199		,		
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			STATE OF THE PERSON NAMED IN	Grand Total	****

RMLD Reliability Indices



Outages Causes





Questions?





February 13, 2017

Town of Reading Municipal Light Board

Subject: IFB 2017-34 Grounds and Landscape Services

Pursuant to M.G.L. e. 30B, on January 16, 2017 IFB 2017-34 was advertised in the Goods and Services Bulletin and on January 18, 2017 an invitation for bid was placed as a legal notice in the Middlesex East Section of the Daily Chronicle, on COMMBUYS, on the RMLD website and posted on the RMLD lobby bulletin board requesting sealed bids for Grounds and Landscape Services.

An invitation for bid was sent to the following thirty companies:

Dill's Company	BHD	Com	pany
----------------	-----	-----	------

Burns Landscaping Construction,

Ciro Carbone and Sons

ConstructConnect

LLC Earthworks Landscaping Co., Inc.

Landscaping, Inc. EZ Landscaping Inc.

Ferrari Landscaping

Gerrior Masonry & Landscape

Greenscape Land Design, Inc.

Ground Masters Corporation

GroundMasters Landscape

GTA Landscaping

Hummer's Lawn Care

JR's Landscaping & Sons

K.M. Earle Landscaping

Leahy Landscaping Inc.

Linnehan Landscaping and Fuel

Mac's Landscaping

Mayer Tree Service, Inc.

MFB, Inc.

Corporation

NECC Corp.

NETCO Construction Project

ONVIA

Pathfinder Tree Service, LLC

Managers

ProScape Landscape LLC

Sawyer Landscaping

Schulte Grounds Management,

Inc

Shady Tree Landscaping, Inc.

Strong Landscaping Inc.

Tompkins Landscape

Sealed bids were received from five companies: Ferrari Landscaping, Earthworks Landscaping Co., Inc., Greenscape Land Design, Inc., GroundMasters Landscape Corporation, and Tim Zanelli Excavating, LLC.

The sealed bids were publicly opened and read aloud at 11:00 a.m. on February 8, 2017 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 2017-34 for: Grounds and Landscape Services be awarded to: Greenscape Land Design, Inc. for \$110,952.00 as the lowest responsive and responsible bidder on the recommendation of the General Manager.



The FY2017 Operating Budget amount for this item is \$45,000.00.

Paul M. Sonagle	
Department Manager	
Brown Dufler	·
Department Director	

General Manager

Grounds and Landscaping Services

Bid 2017-34

Exceptions	°,	o N	S.
<u>Responsive</u> <u>Bidder</u>	Yes	Yes	Yes
<u>Three-Year</u> Total Price	\$195,583.00	\$110,952.00	\$166,579.89
<u>Year 3 - 2019</u> <u>Services</u>	\$66,167.00	\$36,984.00	\$55,913.63
Year 2 - 2018 Services	\$65,182.00	\$36,984.00	\$55,508.63
Year 1 - 2017 Services	\$64,234.00	\$36,984.00	\$55,157.63
Bidder	Earthworks Landscaping Co., Inc.	Greenscape Land Design, Inc.	GroundMasters Landscape Corporation

Notes:

Ferrari Landscaping and Tim Zanelli Excavating, LLC were rejected due to not submitting a Comprehensive Application Plan and Schedule with bid.

From:

Tracy Schultz

To:

RMLD Board Members Group

Cc:

Jeanne Foti

Subject: Date: Account Payable and Payroll Questions Thursday, February 16, 2017 4:38:00 PM

Good afternoon,

There were no Account Payable Warrant questions for the following dates: January 20, January 27, February 3, and February 10.

There were no Payroll questions for the following date: February 6.

This message will be printed for the Board Packet for the RMLD Board Meeting on Thursday February 16, 2017.

Tracy Schultz

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

Tel: (781) 942-6489

Ext: 489

INDUSTRIAL - TOU 250.000 kW Demand \$1,568,918.65 \$0.22805 107.68% \$755,449.20 \$0.10981 109,500 kWh's \$807,171.40 **\$887,163.30** \$0.12896 17.44% **\$672,615.67** \$0.09777 \$882,679.70 80/20 Split \$0.12830 16.84% -10.96% 6.85% SCHOOL RATE 35000 kWh's 130.5 kW Demand **\$4,876.20** \$0.13932 **\$5,877.72** \$0.16793 20.54% \$6,692.17 \$0.19120 37.24% **\$4,883.88** \$0.13954 **\$4,762.93** \$0.13608 **\$5,298.08** \$0.15137 8.65% -2.32% 0.16% SMALL COMMERCIAL 10.000 kW Demand 1,080 kWh's \$204.73 \$0.18956 -0.27% \$308.49 \$0.28564 50.28% \$156.46 \$0.14487 -23.78% \$168.44 \$0.15596 -17.95% **\$205.28** \$0.19007 **\$180.88** \$0.16749 -11.88% 25.000 kW Demand February-17 COMMERCIAL 7,300 kWh's \$1,129.79 \$0.15477 7.78% \$1,048.25 \$959.51 \$0.13144 -8.47% \$988.74 \$0.13544 -5.68% \$0.14360 \$2,027.57 \$0.27775 \$1,233.41 \$0.16896 17.66% 93.42% RES. HOT WATER **\$182.69** \$0.18269 \$132.75 \$0.13275 -6.42% \$149.38 \$0.14938 5.31% 1000 kWh's **\$141.85** \$0.14185 **\$120.42** \$0.12042 \$0.18919 \$189.19 28.79% -15.11% 33.37% RESIDENTIAL-TOU 1500 kWh's \$311.18 \$201.66 \$0.13444 0.46% **\$220.92** \$0.14728 10.05% \$200.74 \$0.13383 75/25 Split \$0.11835 \$0.16901 26.29% \$177.53 55.01% \$253.51 -11.56% RATE COMPARISONS READING & SURROUNDING TOWNS RESIDENTIAL **\$89.37** \$0.11916 -23.03% **\$146.32** \$0.19509 **\$143.50** \$0.19133 \$0.13165 -14.96% \$119.24 \$0.15898 2.69% TOWN OF READING MUNICIPAL LIGHT DEPARTMENT 750 kWh's **\$116.11** \$0.15481 23.59% \$98.74 26.02% MIDDLETON MUNICIPAL LIGHT DEPT. WAKEFIELD MUNICIPAL LIGHT DEPT. PEABODY MUNICIPAL LIGHT PLANT READING MUNICIPAL LIGHT DEPT. EVERSOURCE(NSTAR) PER KWH CHARGE NATIONAL GRID % DIFFERENCE % DIFFERENCE % DIFFERENCE % DIFFERENCE % DIFFERENCE TOTAL BILL TOTAL BILL TOTAL BILL TOTAL BILL TOTAL BILL TOTAL BILL