

**READING MUNICIPAL
LIGHT DEPARTMENT**

BOARD OF COMMISSIONERS

REGULAR SESSION

TUESDAY, APRIL 17, 2018

APPROVAL OF BOARD MINUTES
FEBRUARY 22, 2018, MARCH 12, 2018,
MARCH 15, 2018, AND ~~APRIL 5, 2018~~
ATTACHMENT 1

READING MUNICIPAL LIGHT DEPARTMENT
BOARD OF COMMISSIONERS MEETING
230 Ash Street
Reading, MA 01867
February 22, 2018

Start Time of Regular Session: 7:30 p.m.

End Time of Regular Session: 9:30 p.m.

Commissioners:

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

John Stempeck, Commissioner-Remote Participant
Dave Talbot, Commissioner-Remote Participant

Staff:

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

Joyce Mulvaney, Communications Manager
Tracy Schultz, Executive Assistant
Tyler Abregg, Systems Administrator
Paul McGonagle, Facilities Manager

Citizens Advisory Board:

George Hooper, Chair

Reading Board of Selectmen:

John Arena, Chair
Barry Berman, Vice Chair
Dan Ensminger, Secretary
Andrew Friedmann, Member

Reading Finance Committee:

Peter Lydecker, Chair
Paula Perry, Vice Chair
Vanessa Alvarado, Member
Anne Landry, Member
Mark Dockser, Member

Public:

John Halsey, 75 Beaver Road, Reading
Bill Brown, 28 Martin Road, Reading
Jack Devir, 38 Tamarack Road, Reading

Bob Holmes, 123 Gleason Road, Reading
John Rogers, 39 Tower Hill Road, North Reading
Karla Doukas, Rubin and Rudman

Call Meeting to Order

Chair Pacino called the meeting to order.

Mr. Arena called the Board of Selectmen meeting to order.

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

Opening Remarks

Chair Pacino read the RMLD Board of Commissioners' Code of Conduct and explained Mr. Stempeck and Mr. Talbot were participating remotely via call-in. Chair Pacino announced that he would be reading a statement about the Sub-Committee, then would allow the Commissioners to comment, and then the floor would be open for public comment. Chair Pacino asked that the proceedings be orderly.

Chair Pacino read the April 2017 Town Meeting instructional motion. Chair Pacino stated that it took time to assemble the Sub-Committee. The Sub-Committee met on September 27, 2017 and discussed general ideas. The members were tasked with going back to their respective groups for input. No numbers were discussed. Chair Pacino stated he gave a presentation to the CAB on RMLD's financial structure on October 27, 2017. November was the Town Meeting. December was Christmas. The Sub-Committee attempted to meet in early January but a mutually agreed upon date couldn't be determined. The Sub-Committee met in February, where RMLD made a proposal, and the Board of Selectmen made a counter-proposal. That was the first-time numbers had been discussed.

Opening Remarks

Chair Pacino asked that the parties work together to get this resolved. The Department has worked through numerous iterations of worksheets and analysis and arrived at what they feel is a good solution that will work for Reading and the ratepayers. However, there is no intent to debate or resolve the issue tonight. The Committee has been tasked with that and is meeting on March 12, at which time a refined and expanded version of RMLD's solution will be presented. It is believed that it will benefit both the ratepayers, Reading, and the other towns. If accepted by all parties, the Committee will recommend that the RMLD Board of Commissioners approve and implement this approach. Therefore, the RMLD Board of Commissioners will be meeting at 7:30 that same night. RMLD must vet the proposed approach and test it against the capital needs of the organization. RMLD has been working with a consultant to determine revenue erosion and its future impact. RMLD has OPEB and pension funding contributions. Ratepayers deserve a well-thought out and deliberated outcome, which the Committee will provide.

Vice Chair Hennessy echoed that as a citizen of Reading, and a Commissioner, it is important that they do whatever they can to help address the fiscal pressures on Reading, without impacting all four towns.

Mr. Stempeck thanked the Selectmen for their attendance. Mr. Stempeck explained that RMLD's partnership with all four towns is what enables its low rates. Agreements with the other towns necessitate a fair and equitable solution. RMLD wants to help the Town of Reading but also wants to preserve its charter and its constituency. RMLD cannot show favoritism to Reading. Mr. Stempeck stated that everyone needs to take a deep breath and let the Committee do its job.

Mr. O'Rourke stated that a number of the Commissioners are also Town Meeting members and thinks the solution can be a win/win.

Mr. Lydecker called the Finance Committee to order.

Mr. Talbot was not available. Mr. Stempeck explained Mr. Talbot was driving and may have lost reception.

Chair Pacino opened the floor for public comment.

Public Comment

Mr. Arena, Reading Board of Selectmen, thanked the Commission for their comments. Mr. Arena then stated that it is February and the commitment to assemble the Sub-Committee was made in April. Mr. Arena then stated that the override question on the upcoming ballot has nothing to do with tonight and clarified that the events at RMLD will have no effect on the override vote. Mr. Arena then volunteered himself to serve on the Sub-Committee and stated that he wanted to have a status report by the annual Town Meeting and have the issue wrapped up no later than June.

Mr. Lydecker, Finance Committee, asked if a member of the Finance Committee can serve on the Sub-Committee. Chair Pacino replied that they can't be a member, but can be a non-voting liaison. Ms. Alverado volunteered to serve as such.

Mr. Berman, Reading Board of Selectmen, commented on the budget struggles that Reading is facing. The Commonwealth of Massachusetts used to fund 25 percent of the Town's revenue; now it's down to 15 percent. The Town is going to the tax payers again to support public safety and education. Mr. Berman stated that he wants to make sure it's not implied that RMLD is being stingy. The Town of Reading is grateful to have RMLD. Mr. Berman reaffirmed that the intention is to have the Sub-Committee meet on March 12 and asked if the Sub-Committee votes.

Chair Pacino explained that the Sub-Committee members make recommendations to their respective Boards for a vote (the CAB, the Board of Selectmen, and the RMLD Board of Commissioners). Mr. Berman stated that there is a Board of Selectmen meeting on the 13th. This issue could be resolved a month before the Town Meeting.

Mr. Arena requested that a second Sub-Committee date be scheduled in case there's a need for one. March 19 was decided on.

Public Comment

Mr. Rogers stated that he would return on another night to discuss solar, but stated that RMLD should see new technologies as a potential boon.

The Board took a five-minute recess, at which point most attendees left.

Citizens' Advisory Board

Mr. Hooper stated that he had nothing to add.

Chair Pacino explained that the remote participation of two Commissioners means that all votes must be roll call.

Approval of Board Minutes-December 14, 2017 (Attachment 1)

Mr. O'Rourke made a motion, seconded by Vice Chair Hennessy, to approve the minutes of the December 14, 2017 Board meeting.

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

Motion Carried. 5:0:0.

Financial Report- December 2017-Ms. Markiewicz- (Attachment 3)

Ms. O'Brien requested that Ms. Markiewicz present first. Ms. Markiewicz stated that in December RMLD moved \$1.2 million to the Capital fund, which our rate of return allows us to do. Capital assets are up \$3.7 million from last year, which shows that we're continuing to build on our capital infrastructure. Accounts receivable are about the same as this time last year, running 93.8 percent current. Last year was 93.7 percent current. Accounts payable is up about \$1.1 million, which is due to timing. The cash operating fund is up \$1.4 million from last year. The depreciation fund and the construction fund together are down \$78,000. This is insignificant. There is \$33,000 earned interest on the depreciation fund. The depreciation is transferred from the operating fund monthly, so it doesn't skew the financials. The depreciation transfer was \$2.1 million. The total source of capital funds is \$8.3 million. \$2.7 million has been used, which leaves \$5.5 million. Base revenue has a one percent decrease, while there's a one percent increase in operating expenses. \$13.5 million revenue in 2016 is down to \$13.4 million in 2017. Operating expenses were \$10.1 million in 2016, currently \$10.2 million. Overall, Operating and Maintenance expenses are under budget is under budget. Base revenue and kwh sold by month in the first six months of the fiscal year 2017 and 2018 are both down. The spike in December 2017 was due to a 16 percent increase in heating degree days. The YTD financials compared to budget should be at 50 percent because we're half way through the year. RMLD is at 46.8 percent, which is slightly over budget, which is related to power costs.

General Manager's Report - Ms. O'Brien

Ms. O'Brien reported back on the opportunity she had to attend the Public Power Summit that was a nationwide networking session put on by NextEra Energy and Florida Power and Light. Training sessions included the future of worldwide energy resources, gas pricing and energy pricing, operations of larger utilities, and Human Resources strategies for new generations. Ms. O'Brien had the opportunity to tour NextEra's solar energy lab and their wind operation center. RMLD is working with NextEra on risk management and our strategic plan, and it really put it into perspective how many people are involved. Ms. O'Brien thanked the Commissioners for allowing her to attend.

Integrated Resources Division

a. Community Engagement-Ms. Parenteau

Ms. Parenteau stated that 21 students have signed up for the high school art contest, and will be submitting their entries by April 13. RMLD is working to make its website mobile friendly. In April RMLD will be hosting Save Energy and Money sessions at the town libraries. One was held at the RMLD in January and 50 people attended.

b. Power Supply Report-December 2017-Ms. Parenteau (Attachment 2)

Because it was the end of the year, Ms. Parenteau stated that she looked at CY 2016 versus 2017. The fuel charge adjustment averaged 4.9 cents/kwh in 2016. In 2017 that dropped about 5 percent to 4.6 cents/kwh.

Power Supply Report-December 2017-Ms. Parenteau (Attachment 2)

The fuel charge is a pass through to the customer. The monthly purchase power capacity transmission charge is being driven up by capacity costs. Between 2018 and 2017 there is a \$5 million increase in capacity alone. The New York Power Authority credit that residential customers receive remained fairly flat. In 2016 it was 4.8 cents and in 2017 it increased 4.7 cents. The fuel charge plus the PPCT charge subtracting the NYPA credit in CY 2016 averaged 9.448 cents and in CY 2017 averaged 9.46.

Engineering and Operations Report-December 2017-Mr. Jaffari (Attachment 4)

Mr. Jaffari announced that he would be reporting on the month of December. Routine capital construction non-project December spent \$126,093 bringing the YTD to \$672,906. Total capital spending, across all categories, was \$499,594, bringing YTD to \$2,736,558, with a remaining balance of \$4,948,963. There are two large projects getting started next week: Station 3 reactors and upgrading the infrastructure on Woburn Street in Wilmington. RMLD is making good progress on routine maintenance: 165 out of 180 pole transfers have been completed. Tree trimming is going well. Substation maintenance showed no hot spots. Underground subdivision upgrades are being done to address aging underground facilities. Mr. Jaffari then moved on to double poles: Lynnfield has 5 transfers pending; North Reading has 12 transfers pending and 17 pole butts; Reading has 23 transfers pending and 59 pole butts; Wilmington has 10 transfers pending. Mr. Jaffari announced that the reliability indices show that for the entire year of 2017, RMLD was below national and regional averages. All causes of outages are going down. Ms. O'Brien added that the new GIS System validates data that RMLD was unsure about. RMLD recently found out that there are 212 underground subdivisions that are over forty years old. It confirms what we thought about the aging infrastructure, and the costs of these replacements will be reflected in the capital budget.

RMLD Procurement Request Requiring Board Approval (Attachment 5) 2018-34 HVAC and Ice Machine Preventative Maintenance and Repair Service

Mr. Jaffari explained that the request to bid was sent to 24 contractors. Four responded, with no exceptions. Last time this contract went out to bid it was awarded for \$71,368. The increase is due to labor costs.

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

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

Motion Carried 5:0:0.

General Discussion

Executive Session

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

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

Motion Carried 3:0:0.

Adjournment

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

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

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

**READING MUNICIPAL LIGHT DEPARTMENT
BOARD OF COMMISSIONERS MEETING
230 Ash Street
Reading, MA 01867
March 12, 2018**

Start Time of Regular Session: 7:30 p.m.

End Time of Regular Session: 8:01 p.m.

Commissioners:

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

John Stempeck, Commissioner
Dave Talbot, 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
Joyce Mulvaney, Communications Manager
Tracy Schultz, Executive Assistant

Citizens Advisory Board:

George Hooper, Chair

Public:

Dan Ensminger, Secretary, Board of Selectmen
Neil Cohen, Member, Citizens' Advisory Board
Chris Pollart

Call Meeting to Order

Chair Pacino called the meeting to order and announced that there is only one item on the Agenda and stated that all the members had not seen the proposal that was presented earlier in the evening; he had been misinformed. Chair Pacino then opened the floor to Commissioner comments.

Discussion of Return on Investment to the Town of Reading

Mr. O'Rourke stated that his current assessment is that he is not prepared to vote. While looking at the Town payment, it was discovered a few things along the way. One of these is the outcome of the White Paper, which clarifies what RMLD's obligations are. Secondly, when looking at the financials that were prepared in advance of an offer to the Town, there are several areas of concern. One of these is declining revenues. Mr. O'Rourke stated that he is concerned if RMLD can't afford to pay Reading, giving more to the other Towns isn't going to help matters. Mr. O'Rourke stated he wants to go on record as saying he's not against doing something; he wants to clearly think the matter through. The fundamental issue is the payment to the Town is a significant amount of money. Mr. O'Rourke stated that as a Reading resident he understands Reading's needs but would like to understand the motivation for the money better. Is it for a particular purpose? Want to do what's right for Reading, but as Commissioners responsible for doing the right thing for the ratepayers, and the ratepayers include three other communities. It's a complicated issue. Mr. O'Rourke stated that he knows some of us feel obligated to push this through because we've been portrayed as being unresponsive. Mr. O'Rourke applauded Chair Pacino and Mr. Stempeck for all the work they've done, but stated this issue needs the input of all the Commissioners.

Mr. O'Rourke stated that as a Commissioner, he's concerned that they don't know what the Town is looking for. Are they looking for payment because it's an entitlement or because they feel that we should help them in time of need? That need must be quantified. The Board Members are commissioned to do the right thing by the ratepayers. The profit and loss for the Light Department is enviable; anything that changes that should not be done. Tough times are ahead; revenue is declining, and the Board has an obligation to protect the RMLD. Mr. O'Rourke asked that the Board not vote tonight.

Chair Pacino asked if there were other comments.

Mr. Stempeck stated that part of the issue is the process. Having the Sub-Committee Meeting and then the Board Meeting has not given enough time for discussion without a potential violation of Open Meeting Laws. Mr. Stempeck stated that he sees this as a narrative process. RMLD came up with trial balloon tonight. The Town will respond, and it will go back and forth. Mr. Stempeck said that he agrees with Mr. O'Rourke, that they want to understand what the money is for and why those needs are there. The Board commissioned the White Paper-it

Discussion of Return on Investment to the Town of Reading

lays out what a complicated situation was created. RMLD is a very economically conservative organization that services four towns. The White Paper makes it clear that selling the RMLD is not a possibility. There are too many complications because of existing partnerships and the assets are not what you think they are.

Vice Chair Hennessy stated that he has a son in the school system and understands the financial pressure that Reading is under. Vice chair Hennessy stated that he would like to see an option that is a function of RMLD's operating profit, rather than the CPI.

Mr. Talbot clarified that members of the Sub-Committee introduced a trial balloon as a viable contribution to the discussion. The Sub-Committee hasn't voted. One of RMLD's values is economic development due to its low electricity rates. Wilmington is trying to grow its industrial zone and is responsible for 56 percent of RMLD's electricity sales. Mr. Talbot stated that RMLD doesn't want to hurt the region's economic attractiveness with higher rates. Mr. Talbot then expressed his interest in what Mr. Hooper's views are.

Mr. Hooper future growth of Wilmington. The Town has great exposure off 93 and having low utility costs helps a lot. Mr. Hooper doesn't want to see anything negatively impact rate payers. Mr. Talbot asked if Mr. Hooper had any thoughts on the trial balloon? Mr. Hooper responded that the Sub-Committee still needs to do some work. It's a starting point.

Chair Pacino stated yes, this is a starting point, but he is committed to moving this forward. What was presented is fair. Hear what the Commissioners are saying; that they want to think about this. Don't want to drag this on forever. Mr. O'Rourke stated that it would be useful to hear back from the Town before a vote.

Chair Pacino stated that a proposal was put forward tonight. At the next meeting, the Board of Selectmen will say whether they agree or disagree, and whether they have any changes. Hopefully, the Sub-Committee will have a meeting of the minds and a final proposal that can go forward.

Mr. Ensminger stated that the next scheduled Board of Selectmen meeting is March 27th. The next Sub-Committee meeting will happen before the Selectmen will have had a chance to meet. However, three members attended the Sub-Committee meeting earlier in the evening, and Mr. Ensminger is sure they'll have some thoughts.

Mr. O'Rourke expressed concern that the offer will be taken as official; Commission hasn't voted on it. Mr. O'Rourke stated that if you look at RMLD's financials, it gives an idea of what we're up against. Per the White Paper, we're not required by law to give more. What is the specific need for the money? What makes this so compelling?

Mr. Ensminger stated that this was due to an Instructional Motion; would have to ask the maker of the motion what he or she had in mind. We're the agent to carry out the Motion. Chair Pacino suggested assembling the Sub-Committee. Mr. Ensminger said that he can't really answer beyond what was said at Town Meeting.

Mr. O'Rourke stated he hopes the Board of Selectmen will read the White Paper.

There was discussion of forming another sub-committee because Ms. O'Brien's meeting one-on-one with the Commissioners was time consuming and only provided the input of one person. Mr. Talbot stated the Commission should stick with public meetings and that it's better to discuss in open session from this point forward. Mr. Stempeck brought up the idea of a discussion document that is put out before a Commission meeting but is only for deliberation at the meeting. All agreed to continue as a group.

Adjournment

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

5:0:0.

Motion Carried.

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

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

READING MUNICIPAL LIGHT DEPARTMENT
BOARD OF COMMISSIONERS MEETING
230 Ash Street
Reading, MA 01867
March 15, 2018

Start Time of Regular Session: 7:30 p.m.

End Time of Regular Session: 9:30 p.m.

Commissioners:

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

John Stempeck, Commissioner
Dave Talbot, 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

Joyce Mulvaney, Communications Manager
Tracy Schultz, Executive Assistant

Citizens Advisory Board:

Jason Small, Vice Chair

Reading Board of Selectmen:

John Arena, Chair
Barry Berman, Vice Chair
Dan Ensminger, Secretary

Reading Finance Committee:

Peter Lydecker, Chair
Vanessa Alvarado, Member
Mark Dockser, Member

Call Meeting to Order

Chair Pacino called the meeting to order.

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

Chair Pacino read the RMLD's Code of Conduct.

Public Comment

Mr. Cohen did not have any comment.

Mr. Berman stated that, as a ratepayer, he wants to thank the RMLD for its tireless and tremendous work to restore power through three storms. Mr. Berman stated that he has friends outside the service territory who still do not have electricity and thanked the RMLD for a job well done.

Approval of Board Minutes (Attachment 1)

Mr. O'Rourke made a motion, seconded by Vice Chair Hennessy, to approve the January 25, 2018 minutes.

Motion Carried.

5:0:0.

RMLD Board Member Attendance at Citizens' Advisory Board Meeting Report – Chair Pacino

Chair Pacino reported on the February 28th CAB meeting. The CAB approved minutes, received an update from Ms. O'Brien about the LED streetlight program. Ms. Markiewicz presented the financial report and Mr. Ollila made a presentation on the North Reading energy storage project. There was general discussion regarding the payment to the Town. Chair Pacino stated that the members of the CAB requested that the Board of Commissioners schedule their meetings from now until December.

Report of the Chair - Chair Pacino

Meeting of the Sub-Committee on the Payment to the Town of Reading

Chair Pacino remarked that all the Board members attended that meeting. A presentation was made of what is being referred to as a 'trial balloon.' Mr. Talbot clarified that there was no vote taken by the Sub-Committee or the Board of Commissioners.

Mr. Dockser asked what the next steps are. Chair Pacino replied that the Sub-Committee will meet on Wednesday, March 21 at 5:30 and the members will exchange ideas and get input from all the different parties and go from there.

Mr. Ensminger explained that the Board of Selectmen wanted to follow up and answer Mr. O'Rourke's question about the defined need for the money.

Mr. O'Rourke if there isn't an obligation to pay, which the White Paper dealt with, is there something driving the request for more money?

Mr. Ensminger stated that there is a real financial need and then read the Instructional Motion that was passed at the Town Meeting in April. Mr. Ensminger stated that the intent was a more predictable stream of money. State aid has been cut and the CPI has been low. Mr. Ensminger thanked the RMLD for its storm response.

General Manager's Report – Ms. O'Brien

RMLD Response to March 2, 2018, March 7-8, 2018, and March 13, 2018 Storms

Mr. Jaffari stated that 3,000 customers lost service during the first storm. Most of them had power restored within three hours. Because of the second storm, approximately 6,000 customers lost power between Wednesday night and Thursday. Most of the service was restored by Saturday. Mutual aid was activated on Thursday. Mr. Jaffari stated that RMLD is grateful for the help and that thanked the crews, staff, and customers for being patient.

Mr. Jaffari explained that on a typical day RMLD receives about 321 calls. The first storm resulted in 2,167 calls; the second storm in 5,388 calls, and the third storm in 317 calls.

Mr. Jaffari announced that a new outage management system will be operational by April 16. Currently, RMLD receives calls and runners go out and investigate each call. They then report back if a crew needs to be dispatched. The outages are prioritized according to safety concerns and then restoring the main lines, followed by the secondaries.

Mr. O'Rourke thanked Ms. Mulvaney for doing a great job communicating storm updates.

Report on APPA Legislative Rally

Ms. O'Brien thanked the Board for letting her attend the APPA Legislative Rally in Washington D.C. Ms. Parenteau also attended this year. It which provides an opportunity for municipals to appeal to their state representatives. This year's appeal addressed short and long-term planning for capacity, transmission, and fuel in this area. It's important to speak on behalf of public power; a lot of the time investor-owned utilities can drown out municipals.

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

Ms. O'Brien explained that the organizational study is down to a handful of things; the majority are ongoing or completed. RMLD will be assessing employee culture in the fall of this year. Ms. Mulvaney will be distributing internal and external surveys to measure customer satisfaction. The other item on the list is an asset management/work order system. A few vendors have come in. Ms. Markiewicz has it in the budget for next year. It will make RMLD more efficient.

Mr. O'Rourke stated that he and Vice Chair Hennessy both have survey experience and offered up their collective expertise if assistance is needed. Mr. O'Rourke then asked what the headcount of the RMLD is, and what it should be. Ms. Markiewicz answered that RMLD currently has 73 employees. Ms. O'Brien explained that she's hesitant to give a target number. As each Department is looked at and as employees retire, they may not be replaced with the exact job description. Currently, there are seven or eight vacancies. There are three more divisions to look at.

**Integrated Resources Division - Ms. Parenteau
Power Supply Report – January 2018 (Attachment 3)**

Ms. Parenteau reported on January 2018 Purchase Power. The first week and a half of January was extremely cold. ISO had a lack of Liquid Natural Gas (LNG), which caused some of our oil units to run, including the Stonybrook Plant. To compare, last year the fuel cost for that unit was less than \$10,000. This year, our fuel cost for the same plant was over \$975,000. 2018 was colder than 2017 and 2016. kWh sales in January 2016 were 48.8 million. 56.8 million in January 2017, and 58.2 million in January 2018. When it's significantly colder, people use more electricity, hence their electric bills being higher. Our deferred fuel cash reserve allowed us to flatten the curve for our customers so that they don't see price spikes. We had anticipated taking \$600,000 out of the deferred fuel cash reserve. In January we took out about \$1.3 million. We will replenish that. Mr. Stempeck clarified that the fund works as a buffer, which Ms. Parenteau verified.

Ms. Parenteau then presented a snapshot of ISO markets, day ahead and real time. 2017 was relatively uneventful. 2018 was more volatile and consistently higher than 2017. The real time prices were just below \$300 a megawatt hour during the cold snap and remained relatively high the rest of the month.

Vice Chair Hennessy asked what percentage of RMLD customers have electric heat? Ms. Parenteau answered: less than 10 percent. Mr. Hennessy asked why then, was there such a spike in kWh? Ms. Parenteau explained that furnaces are running, more people are utilizing electricity via motors and fans, and space heaters are being used.

Financial Report- January 2018 - Ms. Markiewicz - (Attachment 4)

Ms. Markiewicz reported on the financials through January 31, 2018, which covers the first seven months of FY 2018. Unrestricted cash is \$250,000. The restricted cash is up about \$6 million but that's mostly due to the pension trust that has been added onto the books. Receivables are up \$1.6 million from last year and are 94 percent current. Capital assets have increased \$3.7 million from the prior year.

Ms. Markiewicz reviewed the twelve restricted cash funds. To determine the operating cash in relation to monthly expenses, Ms. Markiewicz took the total operating expense for the year, and divided it by 12. Using that formula, RMLD generally has two months to one-and-a-half months reserved. RMLD is not the same as a regular business. Mr. Stempeck stated that RMLD has been here for over one hundred years because it's a conservative organization. It is an excellent way to handle the volatility of the business.

Ms. Markiewicz then looked at net income and the rate of return. Net income has consistently been reinvested in capital infrastructure for the past five years.

\$8.6 million was allocated for capital projects; \$3.5 million has been spent. There is a little over \$5 million left in capital funds. We're \$510,000 under budget for collecting on base revenue, which is almost two percent down, currently. We have under-collected approximately \$1.8 million in power expenses. RMLD should have 41.6 percent remaining as of January 31, 2018. We are currently under budget.

Engineering and Operations Report – January 2018 - Mr. Jaffari (Attachment 5)

Mr. Jaffari stated that \$132,888 was spent on capital construction in January, bringing the YTD total to \$805,795. Total capital spending in January was \$756,962, bringing the YTD total to \$3,493,520. There is \$4,192,001 remaining. When this is spent the total will be \$7,685,521.

Mr. Jaffari stated that great progress is on routine maintenance. 71 tree spans in January for a total of 128 through December. Mr. Jaffari listed the underground subdivision upgrades that are completed or are in progress.

Mr. Stempeck asked if RMLD uses its own crews for underground work. Mr. Jaffari answered yes, the crews have been trained in underground splicing. However, RMLD has limited crews so they need to be augmented with contractors for the next 10 to 15 years.

Mr. Jaffari then reviewed the double poles: Lynnfield has seven transfers and two pole butts to remove; North Reading has 12 transfers and 35 pull poles; Reading has 24 pole transfers and 59 pull poles; Wilmington has 32 pending transfers and four pull poles. The large number of poles shows that RMLD is upgrading; it's a good thing.

Engineering and Operations Report – January 2018 - Mr. Jaffari (Attachment 5)

Mr. Jaffari explained that outages caused by major storms are not included in the reliability indices; they are taken out of the calculations because it skews the numbers. It is unfair to compare the reliability of a system that suffered massive storm damage and one that did not. Every other outage is included. Mr. Jaffari explained that the graph showing outage causes is for the month of January, so recent storms aren't reflected in the numbers.

RMLD Procurement Requests Requiring Board Approval - Mr. Jaffari (Attachment 6)

IFP 2018-37 Pole Mounted Transformers

Mr. Jaffari stated that the Invitation for Proposals was sent to 14 vendors. Four responses were received. Overhead transformers are heavily used during system upgrades.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that proposal 2018-37 for Pole Mounted Transformers be awarded to:

WESCO Distribution, Inc. for **\$91,628.00** and **Graybar Electric** for **\$9,040.00**, for a total of **\$100,668.00**, pursuant to M.G.L. c. 164 Section 56D on the recommendation of the General Manager.

IFP 2018-39 Capacitor Banks

Mr. Jaffari explained that the Invitation for Proposals was sent to 16 vendors. Two responded. The next lowest was WESCO. Capacitor banks are used to regulate voltage and minimize system losses.

Mr. Stempeck made a motion, seconded by Mr. O'Rourke, that proposal 2018-39 for Capacitor Banks be awarded to: **Graybar Electric** for **\$24,314.60**, pursuant to M.G.L. c. 164 Section 56D on the recommendation of the General Manager.

Adjournment

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

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

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

QUARTERLY UPDATE:
RELIABILTY REPORT
ATTACHMENT 2

BOOTH AND ASSOCIATES - 2015 RELIABILITY STUDY - RECOMMENDATIONS

CONSULTANT RECOMMENDATION			YEAR	COST (Booth Estimate)	RECOMMENDATION		STATUS	RMLD WORK PLAN
					ACCEPTED	ALTERNATE SOLUTION		
1	BOOTH	Replace cable trench covers at Sub 4 (should be expense, but most put large investments in capital)	2015-16	\$100,000	✓		completed	
2	BOOTH	Sub 5 bus duct from transformer to switchgear has reached the end of useful life and should be replaced with the switchgear replacement	2015-16	\$400,000		✓	completed	
3	BOOTH	Replace fence at Sub 4 and fix grounding issues	2015-16	\$100,000	✓		completed	
4	BOOTH	Rebuild pole line along Lowell Street	2015-16	\$375,000	✓		completed	
5	BOOTH	Complete AMI Upgrade and RF Mesh Network	2015-16	\$350,000	✓		in progress	Five gateways installed. Relays installed. Additional meters in stock. Working on communicating issue with (1) deployed meter. System consists of 300+ meters. Working to establish end of line voltage for all RMLD circuits.
6	BOOTH	Implement GIS Upgrade Program	2015-16	\$350,000 - \$750,000	✓		in progress	GIS asset survey is completed.
7	BOOTH	Implement Arc Flash Study Analysis	2015-16	\$30,000	✓		completed	
8	BOOTH	Develop construction standards	2015-16	in-house	✓		in progress	
9	BOOTH	Update Joint-Use Agreement with Verizon	2015-16	in-house	✓		in progress	
10	BOOTH	Replace bushings on Sub 4 transformer.	2015-16	\$150,000	✓		completed	
11	BOOTH	CT wiring at Sub 3 should be fixed. The CT circuits should only be bonded on grounding in exactly one spot	2015-16	O&M	✓		completed	CT's are grounded in only one location.
12	BOOTH	Sub 3 has NO under-frequency trips. Relay is not programmed to trip.	2015-16	O&M		✓	completed	Station 3 has UF capability. RMLD is in compliance with ISO's UF requirement.
13	BOOTH	Fence grounding is not up to code@ Station 4. Fabric and barbed wire should be grounded.	2015-16	O&M	✓		completed	
14	BOOTH	Earth/gravel around fence at Sub 5	2015-16	O&M	✓		completed	
15	BOOTH	Interface CIS with GIS platform	2015-16	in-house	✓		in progress	Cogsdale CIS automation script is being tested.
16	BOOTH	Create Milsoft Windmil® model	2015-16	in-house	✓		in progress	The model has been created from updated GIS and is being tested.
17	BOOTH	Complete SCADA software and hardware upgrade	2015-17	\$350,000	✓		in progress	nDimensions cyber security software complete.
18	BOOTH	Upgrade main feeder of Circuit 5W9 to 795 to address voltage and conductor capacity issues (1.6 miles)	2015-17	\$240,000	✓		in progress	The first 3000' has been reconducted. May have a hurdle with Verizon and pole replacements. The remaining is scheduled for FY20-21.
19 (1)	BOOTH	Upgrade UG circuit 3W5, 3W13, 4W9, 3W14, 4W14, 4W16, 4W23, 4W24, 4W28, 4W30, 5W4 exits to parallel 750 Cu	2015-19	\$850,000		✓	in planning	Can't parallel up the feeder getaways at Station 4 and Station 5, no spare conduits available. Can't parallel up the feeder getaways at Station 3, no room for the second set of cables in the back of the switchgear. Solution: Load relief by feeder switching and/or new Wilmington Substation.
20	BOOTH	Replace breakers at Sub 4 due to age and condition	2015-20	\$3,000,000	✓		completed	All 26 breakers were replaced by 1/10/2016.
21	BOOTH	Pole inspection and replacement program. RMLD currently inspects 10% of RMLD-owned poles per year. Negotiate with Verizon to address Verizon-owned poles. Total 13,000 poles.	2015-24	\$9,000,000	✓		in progress	FY: 2015 /2016/2017/2018 inspections completed. Pole replacement in-progress.
22	BOOTH	Continued implementation of Grid Modernization Plan (GMP)	2015-24					
		• Outage Management (OMS)		\$100,000	✓		in progress	OMS is being installed the week of 4/16/2018.
		• Transformer Loading Management (TLM)		\$100,000	✓		in progress	
		• Demand Response (DR)		\$100,000	✓		in progress	
		• Demand Side Management (DSM)		\$100,000	✓		in progress	
• Distributed Generation Program	\$11,000,000	✓		in planning	New 4.5 MW battery storage unit will be installed in 2018 (\$1M DOER Grant)			
23 (1)	BOOTH	Upgrade UG circuit exit 4W7 to parallel 750 Cu	2016	\$70,000		✓	in planning	Can't parallel up the feeder getaway at Station 4, no spare conduits available. Solution: Load relief by feeder switching and/or new Wilmington Substation.
24	BOOTH	Upgrade main feeder for Circuit 5W5 to 795 to address voltage and conductor capacity issues (2.5 miles)	2016-17	\$375,000	✓		in planning	Change construction years to FY21-23. Hurdle: Verizon pole replacement area
25	BOOTH	New Wilmington Substation (land acquisition and design)	2016-17	\$750,000	✓		in progress	Searching for land in Wilmington

CONSULTANT RECOMMENDATION			YEAR	COST (Booth Estimate)	RECOMMENDATION		STATUS	RMLD WORK PLAN
					ACCEPTED	ALTERNATE SOLUTION		
26	BOOTH	Upgrade main feeder of Circuit 4W24 to 795 to address voltage and conductor capacity issues (1.5 miles)	2016-17	\$225,000	✓		in planning	Scheduled for upgrade in FY20-FY21
27	BOOTH	Complete comprehensive distribution system analysis upon GIS completion	2016-17	in-house	✓		ongoing	GIS overhaul was completed in 2017. Milsoft model will be completed in May 2018. Since Booth study in 2015 a number of engineering reliability studies has been conducted to improve voltage in Wilmington and Lynnfield end-of-line feeders.
28	BOOTH	Complete the 4 kV Conversion Program	2016-19	\$1,500,000	✓		in progress	Ongoing since 2015: Multiple year project. 32+/- stepdown areas in the service territory. Converted the Burroughs Road area, North Reading, October 22, 2015. Anthony Road, Wilmington will be completed in 2018
29	BOOTH	Sub 3 does have SEL relays but they are all legacy models that don't provide the function (especially communication) of today's versions. If the plan is to have a fully-automated system then: replace the SEL relays with the modern version. Should be able to replace in existing hole and wiring.	2016-19	\$200,000	✓		completed	
30	BOOTH	New Wilmington Substation (procurement, design, construction and commission)	2017-19	\$4,250,000	✓		in progress	Searching for land near 115 kV lines in Ballardvale/Upton Rd area
31 (1)	BOOTH	Sub 5 Switchgear is at the end of useful life. The relaying needs to be updated for the system automation project. The existing breakers are 2008 vintage but should not be reused. They can be sold on the open market.	2017-19	\$1,200,000		✓	in planning	As part of the planning for the proposed substation in Wilmington the need for the Wildwood Substation will be reviewed.
32 (1)	BOOTH	Upgrade UG circuit exits 3W7, 4W5, 5W5, 5W9 to parallel 750 Cu to increase circuit capacity	2017-19	\$280,000		✓	in planning	Can't parallel up the feeder getaways at Station 4 and Station 5, no spare conduits available. Can't parallel up the feeder getaways at Station 3, no room for the second set of cables in the back of the switchgear. Solution: Load relief by feeder switching and/or new Wilmington Substation.
33	BOOTH	Feeder Automation - complete System Coordination Study in conjunction	2017-24	\$4,000,000	✓		ongoing	Substation Automation at Substations 3 and 4 are completed.
34	BOOTH	Upgrade main feeder of Circuit 4W28 to 1000 Cu to address voltage and conductor capacity issues (0.3 miles)	2018	\$60,000		✓	in planning	4W28 is the dedicated circuit for Analog Devices. Any type of load relief for feeder 4W28 will require the reconfiguration of ADI distribution system or an additional RMLD feeder to the site. Analog to transfer some load from 4W28 to 4W12 to provide load relief.
35	BOOTH	Substation automation	2019	\$112,000	✓		complete	Completed as part of relay upgrade project at Station 3 and Station 4.
36 (1)	BOOTH	Upgrade UG circuit exits 4W6, 5W8 to parallel 750 to increase circuit capacity.	2019	\$120,000		✓	in planning	Can't parallel up the feeder getaways at Station 4 and Station 5, no spare conduits available. Can't parallel up the feeder getaways at Station 3, no room for the second set of cables in the back of the switchgear. Solution: Load relief by feeder switching and/or new Wilmington Substation.
37	BOOTH	Upgrade main feeder of Circuit 4W23 to 795 to address voltage and conductor capacity issues (1.1 miles)	2020	\$165,000	✓		in planning	Change construction years to FY20-21. Hurdle: Verizon pole replacement area.
38 (1)	BOOTH	Upgrade UG circuit exits 3W18, 4W4, 4W10, 4W18 to parallel 750 to increase circuit capacity.	2021-23	\$370,000		✓	in planning	Can't parallel up the feeder getaways at Station 4 and Station 5, no spare conduits available. Can't parallel up the feeder getaways at Station 3, no room for the second set of cables in the back of the switchgear. Solution: Load relief by feeder switching and/or new Wilmington Substation.
39	BOOTH	Upgrade main feeder of Circuit 4W9 to 795 to address voltage and conductor capacity issues.	2021-23	\$75,000	✓		in planning	This plan is on hold until the new Wilmington substation is constructed.
40	BOOTH	Review and upgrade electric system comprehensive analysis	2024	\$100,000	✓		ongoing	
41	BOOTH	Transformer D and E replacement at both Sub 4 and Sub 5. They are approaching their end of useful life.	2024-25	\$3,400,000	✓		in planning	RMLD is planning to construct a new substation at Ballardvale Street, Wilmington to transfer load and provide some load relief for both Substation 4 and Substation 3.
42	BOOTH	Install oil containment for Transformer D and E at Sub 4	2024-25	\$100,000	✓		completed	
43 (1)	BOOTH	Upgrade UG circuit exits 3W8, 4W12 to parallel 750 Cu to increase circuit capacity.	2024-26	\$180,000		✓	in planning	Can't parallel up the feeder getaways at Station 4, no spare conduits available. Can't parallel up the feeder getaways at Station 3, no room for the second set of cables in the back of the switchgear. Solution: Load relief by feeder switching and/or new Wilmington Substation.
44	BOOTH	Upgrade main feeder of Circuit 4W30 to 795 to address voltage and conductor capacity issues.	2024-26	\$165,000	✓		in planning	RMLD is working with Analog to balance the load and increase the back-up feeder rating. The new Wilmington substation will also provide some load relief for all feeders out of Substation 4.

CONSULTANT RECOMMENDATION			YEAR	COST (Booth Estimate)	RECOMMENDATION		STATUS	RMLD WORK PLAN
					ACCEPTED	ALTERNATE SOLUTION		
45	BOOTH	Replace control panels for Ring bus at Sub 4	2024-26	\$200,000	✓		completed	Design Complete. Construction 100% completed in early March 2017.
46	UPG	Station 3 Transformers: #3. Adjust timing delay on the winding temperature trip.			✓		in progress	Work to be complete during reactor installation outage.
47	UPG	Station 3 Transformers: #4. Add a low oil trip to transformers so they trip before any winding damage can occur.			✓		in progress	Work to be complete during reactor installation outage.
48	UPG	Station 3 Transformers: #5. Replace LTC main braking rollers with the new design that has a brass sleeve for the roller to ride on.			✓		completed	
49	UPG	Station 3 Transformers: #6. Repair LTC control displays for #TA and #TB			✓		completed	LTC controls repaired and installed.
50	UPG	Station 3 Transformers: #7. Replace or repair the Trans-TB Hydran unit.			✓			
51	UPG	Station 3 Transformers: #8. Repair the Trans TB temperature differential unit which is in failure mode.			✓		completed	Unit replaced.
52	UPG	Station 3 15 kV Breakers #2: the close spring assembly needs to be replaced.			✓		completed	
53	UPG	Station 3 15 kV Breakers: #3. DC control power fuses for trip, close, motor should be separated.			✓		completed	
54	UPG	Station 3 15 kV Breakers: #4. Control handle trip should be separated from relay and should trip breaker directly.			✓		completed	
55	UPG	Station 3 Relays: #1. The DC negative feed to the differential relay for the digital inputs should be altered to tie a DC negative via a fuse.			✓		completed	
56	UPG	Station 3 Relays: #2. Review and alter the under voltage transfer scheme so that it operates like the same schemes at the other stations.			✓		completed	
57	UPG	Station 4 115 kV Breakers: #1 (GCB1). Replace the breaker.			✓		completed	
58	UPG	Station 4 Transformers: #1. Repair trans #110D cooling contactor for stage #2.					in planning	Needs to follow-up with UPG for more information.
59	UPG	Station 4 Transformers: #2. Replace the trans #110D main tank pressure relief device contact.			✓		completed	
60	UPG	Station 4 Transformers: #3. Replace the trans #110D main tank low oil gauge.			✓		completed	
61	UPG	Station 4 Transformers: #4. Repair the DC control power supply control cabling.			✓		completed	
62	UPG	Station 4 Transformers: #5. Replace the trans 110E main tank low oil and pressure relief device cables from the devices to the conduit bodies.			✓		completed	
63	UPG	Station 4 Transformers: #6. Replace the trans 110E cooling fan mounted top left.			✓		completed	
64	UPG	Station 4 Transformers: #7. Replace all four bushings of Trans #110E and #110D.			✓		completed	See Item #10 (Booth Recommendation)
65	UPG	Station 4 15kV Breakers: #2. check circuit 4W11 on a normal basis to insure that the heaters remain on to keep the breakers above ambient temperature so that no moisture condenses on the breaker insulation.			✓		completed	
66	UPG	Station 4 Breakers: #4. Replace the ground stab on 4W22.			✓		completed	
67	UPG	Station 5 Transformers: #1. Replace the trans #D main tank low oil and pressure relief divide output cable. Reconnect the LTC low oil level gauge wiring in the conduit body where the device cable terminates.					completed	
68	UPG	Station 5 15kV Breakers: #1. Take bus out of service and check alignment and correct if possible.			✓		completed	
69	UPG	Station 5 15kV Breakers: #2. Remove breaker 5W9, inspect for corrosions, and correct misalignment of the Breaker contact Rosette and cell stab during maintenance cycle.			✓		completed	

CONSULTANT RECOMMENDATION			YEAR	COST (Booth Estimate)	RECOMMENDATION		STATUS	RMLD WORK PLAN
					ACCEPTED	ALTERNATE SOLUTION		
70	UPG	Station 5 15kV Breakers: #3. Take bus out of service and check alignment and correct if possible.			✓		completed	
71	UPG	Station 5 15kV Breakers: #4. Take bus tie breaker out of service and check alignment and correct if possible.			✓		completed	

Note: Recommendations and priorities are based on existing system conditions. Should conditions change, these priorities will likely require re-evaluation.

(1) New Substation in Wilmington will address these recommendations; alternate solution provided in the meantime.

POWER SUPPLY REPORT
FEBRUARY 2018
ATTACHMENT 3

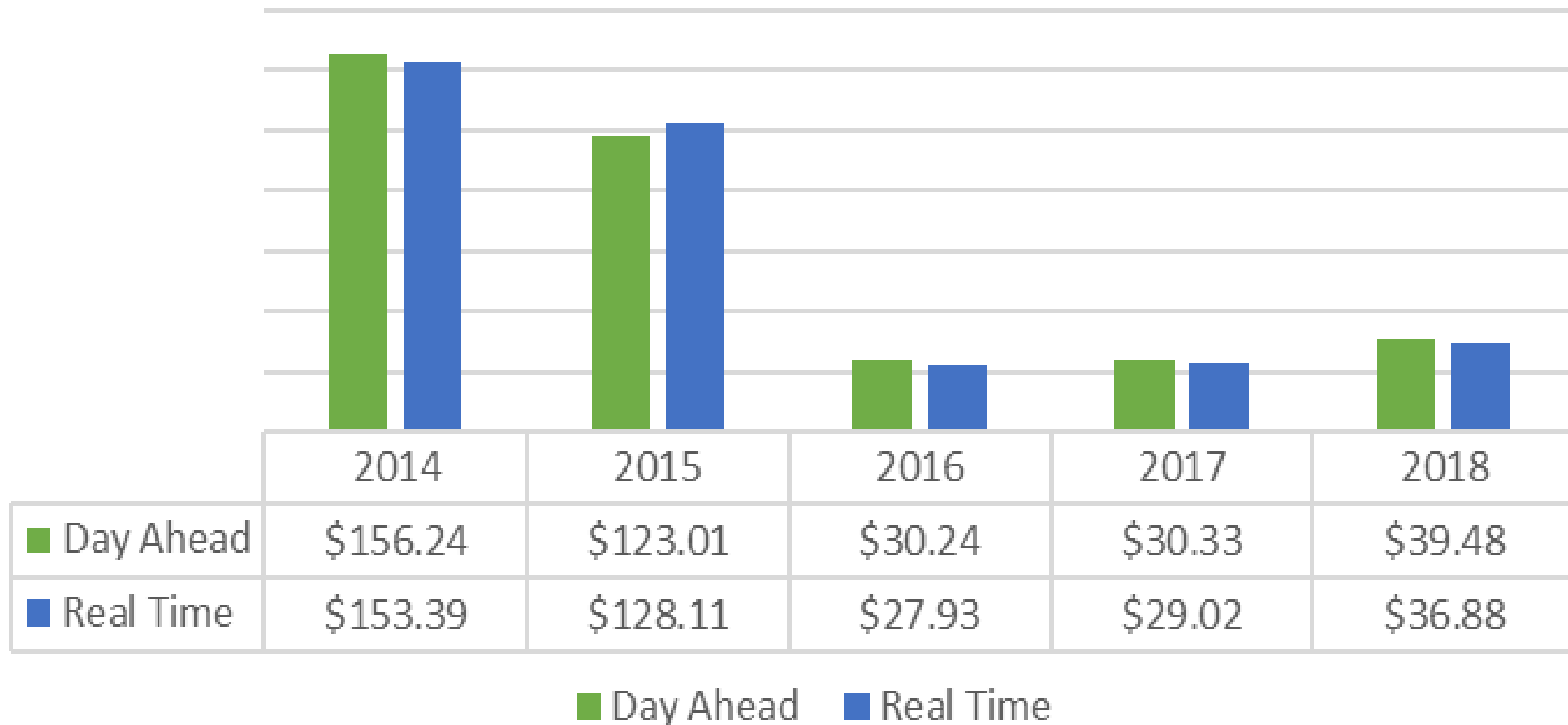
BOARD OF COMMISSIONERS MEETING

April 17, 2018

Jane Parenteau, Director of Integrated Resources

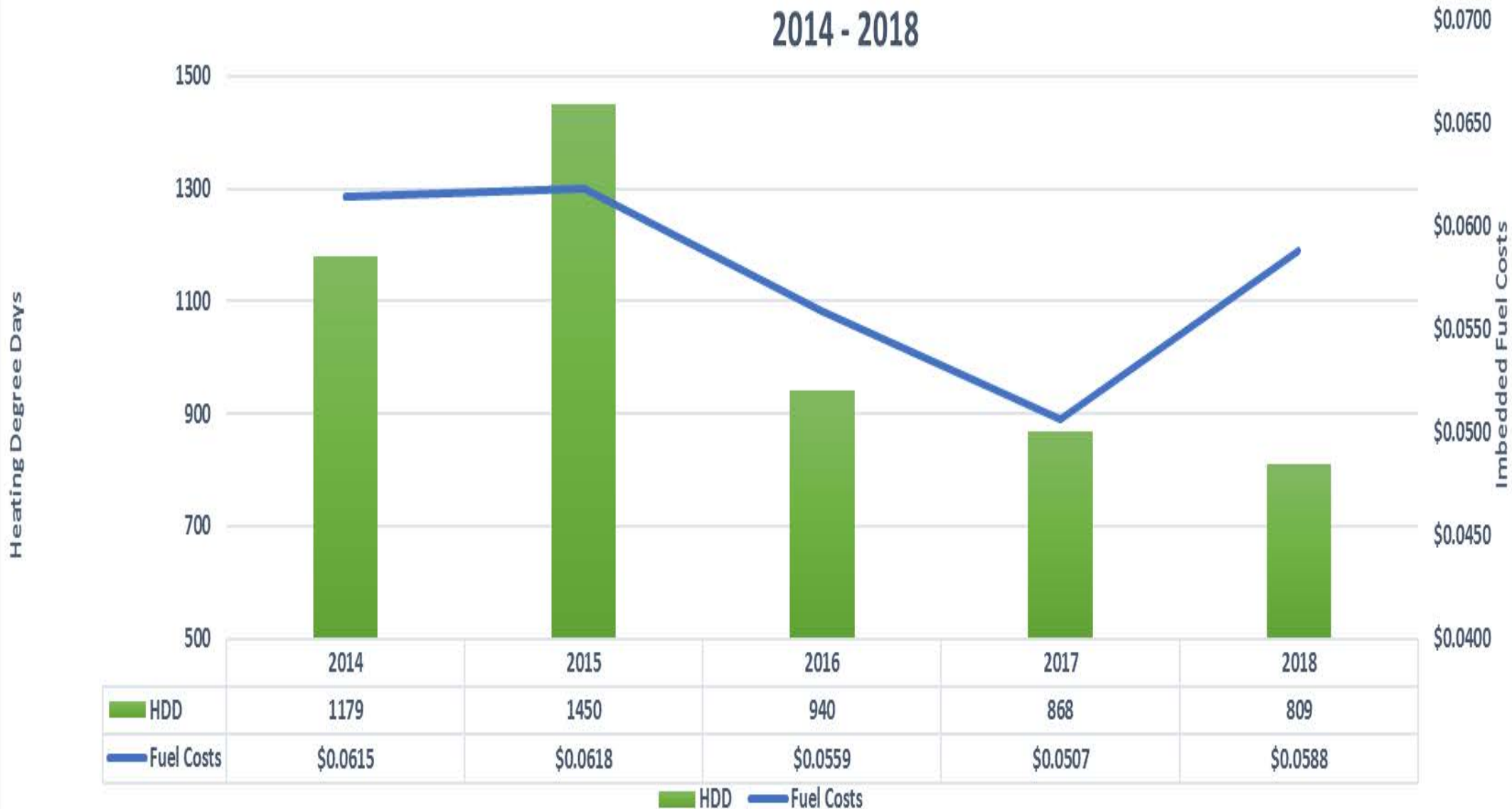
Reporting for February, 2018

Spot Market Prices February Averages 2014 - 2018

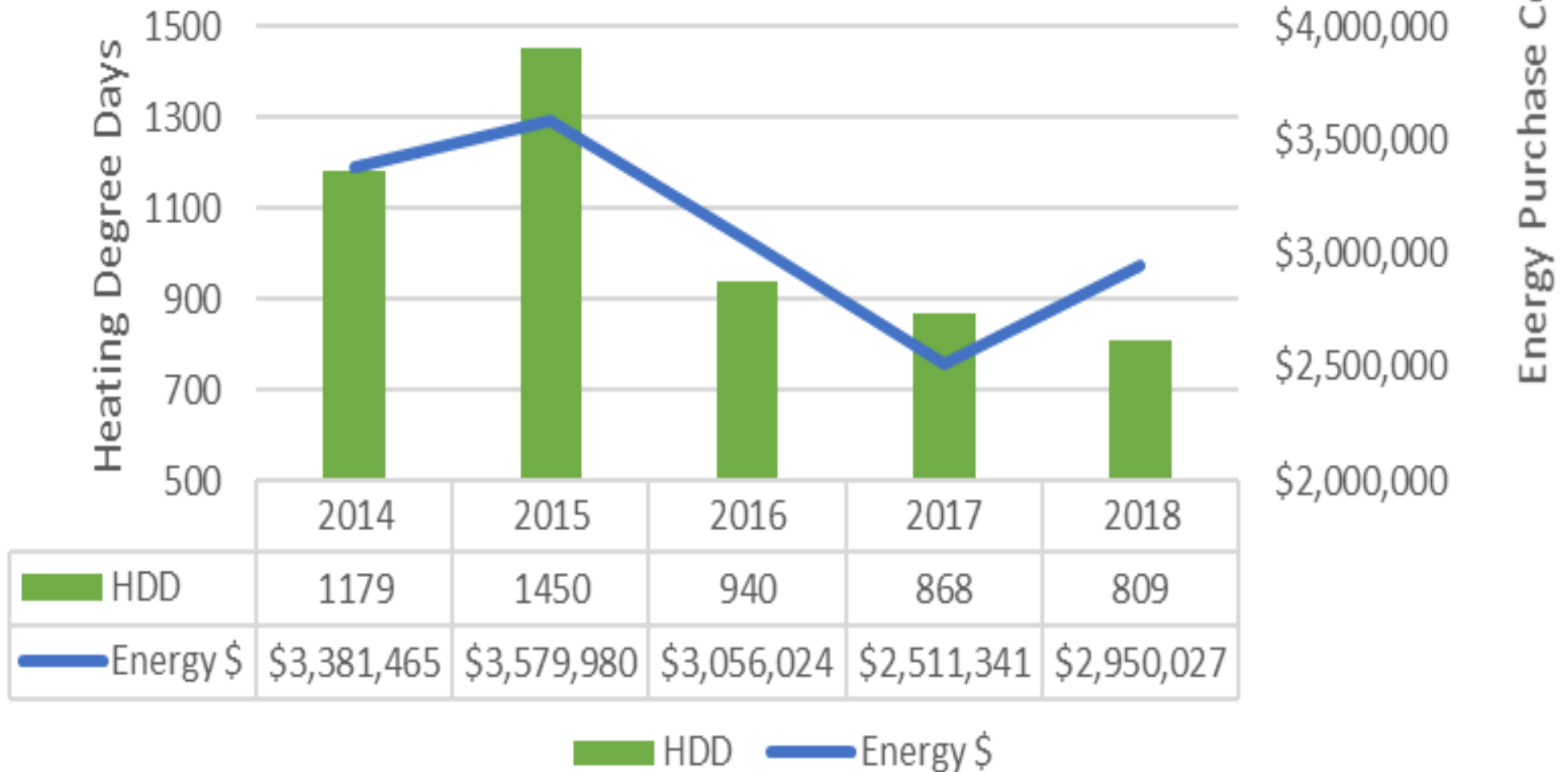


Imbedded Fuel Costs vs. Heating Degree Days

February
2014 - 2018



Heating Degree Days vs. Energy Purchase Costs February 2014 - 2018



To: Coleen O'Brien

From:  Maureen McHugh, Jane Parenteau 

Date: April 10, 2018

Subject: Purchase Power Summary – February, 2018

Energy Services Division (ESD) has completed the Purchase Power Summary for the month of February, 2018.

ENERGY

The RMLD's total metered load for the month was 49,758,543 kWh, which is a 2.46% decrease from the February, 2017 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	3,360,152	\$6.38	6.69%	\$21,432	0.73%
Seabrook	5,338,787	\$5.92	10.63%	\$31,606	1.07%
Stonybrook Intermediate	0	\$0.00	0.00%	\$0	0.00%
Shell Energy	8,098,400	\$57.40	16.13%	\$464,884	15.76%
NYPA	2,488,282	\$4.92	4.96%	\$12,242	0.41%
Nextera	5,792,000	\$93.00	11.54%	\$538,656	18.26%
ISO Interchange	5,909,449	\$58.97	11.77%	\$348,490	11.81%
Nema Congestion	-	\$0.00	0.00%	\$19,315	0.65%
Coop Resales	3,562	\$184.34	0.01%	\$657	0.02%
EDF	4,246,400	\$63.30	8.46%	\$268,794	9.11%
Hydro Projects*	5,258,394	\$70.05	10.47%	\$368,370	12.49%
Braintree Watson Unit	87,109	\$279.12	0.17%	\$24,314	0.82%
Saddleback/Jericho Wind	2,286,969	\$91.28	4.55%	\$208,755	7.08%
One Burlington & Comm. Solar	347,204	\$73.48	0.69%	\$25,513	0.86%
Exelon	6,995,200	\$88.20	13.93%	\$616,998	20.92%
Stonybrook Peaking	0	\$0.00	0.00%	\$0	0.00%
Monthly Total	50,211,908	\$58.75	100.00%	\$2,950,027	100.00%

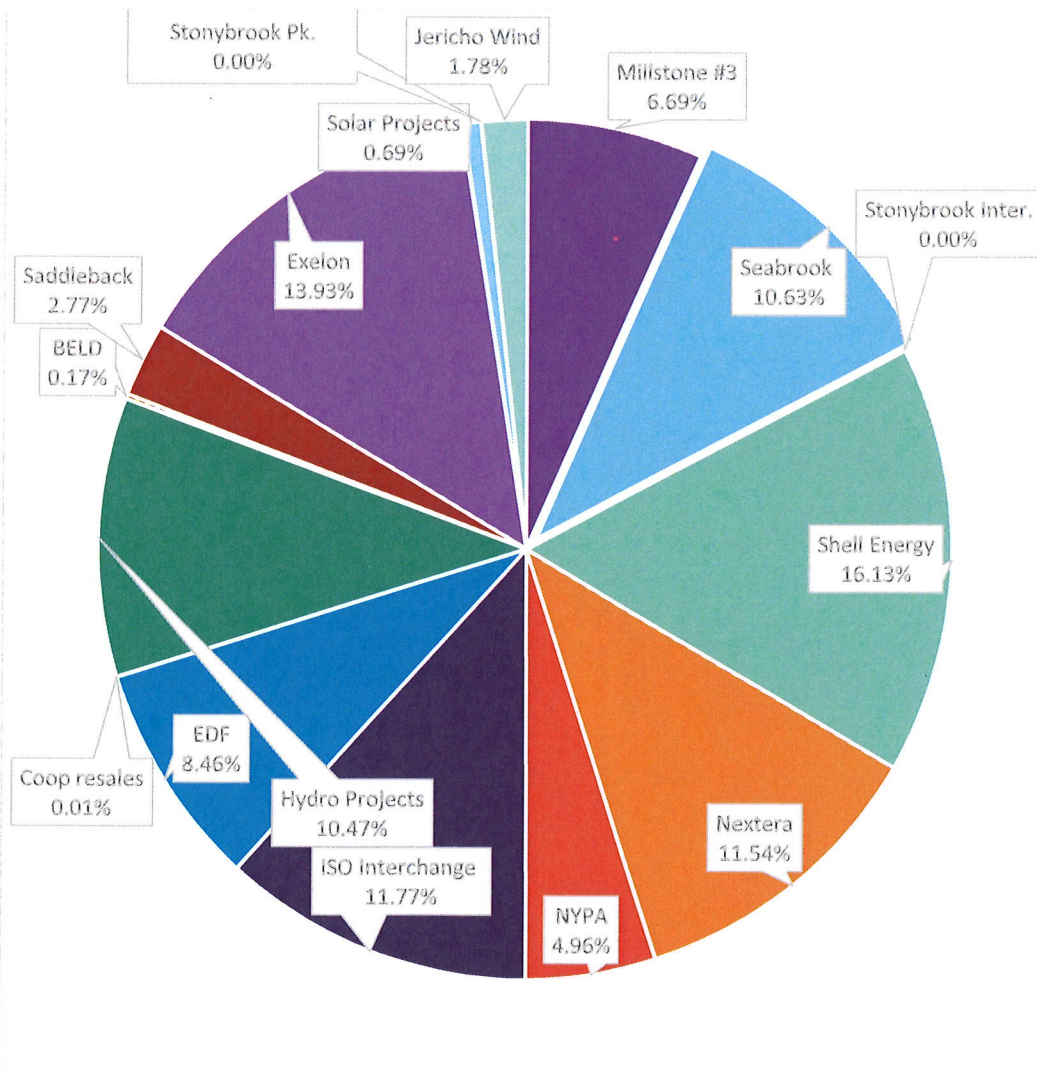
**Pepperell, Woronoco, Indian River, Turner Falls, Collins, Pioneer, Hosiery Mills, Aspinook Hydro*

Table 2 breaks down the ISO interchange between the DA LMP Settlement and the RT Net Energy for the month of February, 2018.

Table 2			
Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy
ISO DA LMP *	14,804,702	\$42.71	29.48%
RT Net Energy **	8,895,253	\$31.90	17.72%
ISO Interchange (subtotal)	5,909,449	\$58.97	11.77%

* Independent System Operator Day-Ahead Locational Marginal Price

FEBRUARY 2018 ENERGY BY RESOURCE



CAPACITY

The RMLD hit a demand of 96,259 kW, which occurred on February, at 6 pm. The RMLD's monthly UCAP requirement for February, 2018 was 222,643 kW.

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

Source	Amount (kW)	Cost (\$/kW-month)	Total Cost \$	% of Total Cost
Millstone #3	4,950	24.69	\$122,231	4.89%
Seabrook	7,909	18.92	\$149,619	5.99%
Stonybrook Peaking	24,980	1.98	\$49,350	1.97%
Stonybrook CC	42,925	3.19	\$136,856	5.48%
NYPA	0	0.00	-\$12,032	-0.48%
Hydro Quebec	0	0	\$16,555	0.66%
Braintree Watson Unit	0	0.00	\$358,106	14.33%
ISO-NE Supply Auction	141,879	11.83	\$1,678,736	67.17%
Total	222,643	\$11.23	\$2,499,420	100.00%

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

Resource	Energy	Capacity	Total cost	% of Total Cost	Amt of Energy (kWh)	Cost of Power (\$/kWh)
Millstone #3	\$21,432	\$122,231	\$143,663	2.64%	3,360,152	0.0428
Seabrook	\$31,606	\$149,619	\$181,225	3.33%	5,338,787	0.0339
Stonybrook Intermediate	\$0	\$136,856	\$136,856	2.51%	-	0.0000
Hydro Quebec	\$0	\$16,555	\$16,555	0.30%	-	0.0000
Shell Energy	\$464,884	\$0	\$464,884	8.53%	8,098,400	0.0574
NextEra/EDF	\$538,656	\$0	\$538,656	9.88%	5,792,000	0.0930
* NYPA	\$12,242	-\$12,032	\$210	0.00%	2,488,282	0.0001
ISO Interchange	\$348,490	\$1,678,736	\$2,027,227	37.20%	5,909,449	0.3430
Nema Congestion	\$19,315	\$0	\$19,315	0.35%	-	0.0000
EDF	\$268,794	\$0	\$268,794	4.93%	4,246,400	0.0633
* Hydro Projects	\$368,370	\$0	\$368,370	6.76%	5,258,394	0.0701
Braintree Watson Unit	\$24,314	\$358,106	\$382,420	7.02%	87,109	4.3901
* Saddleback/Jericho	\$208,755	\$0	\$208,755	3.83%	2,286,969	0.0913
* Burlington & Community Solar	\$25,513	\$0	\$25,513	0.47%	347,204	0.0735
Coop Resales	\$657	\$0	\$657	0.01%	3,562	0.1843
Exelon Energy	\$616,998	\$0	\$616,998	11.32%	6,995,200	0.0882
Stonybrook Peaking	\$0	\$49,350	\$49,350	0.91%	-	0.0000
Monthly Total	\$2,950,027	\$2,499,420	\$5,449,447	100.00%	50,211,908	0.1085

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

RENEWABLE ENERGY CERTIFICATES (RECs)

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

Table 5				
RECs Summary				
Period - July 2017 - February 2018				
	Banked	Projected	Total	Est.
	RECs	RECs	RECs	Dollars
Woronoco	1,044	946	1,990	\$19,899
Pepperell	461	1,190	1,651	\$16,510
Indian River	350	489	839	\$8,390
Turners Falls	202	422	624	\$6,240
Saddleback	2,800	5,904	8,704	\$87,040
Jericho	1760	4,012	5,772	\$57,720
Sub total	6,617	12,963	19,580	195,799
RECs Sold	\$0		0	\$0
Grand Total	6,617	12,963	19,580	\$195,799

TRANSMISSION

The RMLD's total transmission costs for the month of February, 2018 were \$1,233,987. This is an increase of 4.86% from the January transmission cost of \$1,176,742. In February, 2017 the transmission costs were \$1,023,048.

Table 6			
	Current Month	Last Month	Last Year
Peak Demand (kW)	96,259	108,096	100,242
Energy (kWh)	50,211,908	60,368,297	49,552,206
Energy (\$)	\$2,950,027	\$3,811,502	\$2,511,341
Capacity (\$)	\$2,499,420	\$2,109,761	\$1,470,957
Transmission(\$)	\$1,233,987	\$1,176,742	\$1,023,048
Total	\$6,683,434	\$7,098,005	\$5,005,347

FINANCIAL REPORT
FEBRUARY 2018
ATTACHMENT 4

Town of Reading, Massachusetts
Municipal Light Department
Statement of Net Assets
February 28, 2018

	<i>2018</i>	<i>2017</i>
ASSETS		
Current:		
Unrestricted Cash	\$15,362,658.67	\$14,441,834.89
Restricted Cash	28,679,908.58	23,348,675.42
Restricted Investments	1,329,906.48	1,345,663.06
Receivables, Net	9,949,739.23	10,913,294.84
Prepaid Expenses	943,930.87	1,733,867.40
Inventory	1,567,050.70	1,592,500.33
Total Current Assets	57,833,194.53	53,375,835.94
Noncurrent:		
Investment in Associated Companies	212,427.92	26,993.75
Capital Assets, Net	77,176,923.62	73,463,081.75
Total Noncurrent Assets	77,389,351.54	73,490,075.50
Deferred Outflows - Pension Plan	4,135,078.00	6,338,218.00
TOTAL ASSETS	139,357,624.07	133,204,129.44
 LIABILITIES		
Current		
Accounts Payable	8,354,927.33	7,535,693.41
Accrued Liabilities	593,571.10	705,718.62
Customer Deposits	1,159,877.00	1,082,519.81
Customer Advances for Construction	1,313,671.28	1,125,355.53
Total Current Liabilities	11,422,046.71	10,449,287.37
Non-current		
Accrued Employee Compensated Absences	3,150,134.05	3,257,809.00
Net OPEB Obligation	138,068.00	0.00
Net Pension Liability	13,076,538.00	8,833,549.00
Total Non-current Liabilities	16,364,740.05	12,091,358.00
Deferred Inflows - Pension Plan	714,888.00	883,172.00
TOTAL LIABILITIES	28,501,674.76	23,423,817.37
 NET POSITION		
Invested in Capital Assets, Net of Related Debt	77,176,923.62	73,463,081.75
Restricted for Depreciation Fund	5,124,886.19	4,817,143.26
Restricted for Pension Trust	5,683,014.26	0.00
Unrestricted	22,871,125.24	31,500,087.06
TOTAL NET POSITION	110,855,949.31	109,780,312.07
 Total Liabilities and Net Assets	 \$139,357,624.07	 \$133,204,129.44

Town of Reading, Massachusetts
Municipal Light Department
Schedule of Cash and Investments
February 28, 2018

	<u>2018</u>	<u>2017</u>
Unrestricted Cash		
Cash - Operating Fund	\$15,359,158.67	\$14,438,834.89
Cash - Petty Cash	3,500.00	3,000.00
Total Unrestricted Cash	<u>15,362,658.67</u>	<u>14,441,834.89</u>
Restricted Cash		
Cash - Depreciation Fund	5,124,886.19	4,817,143.26
Cash - Town Payment	2,627,993.36	2,533,778.64
Cash - Deferred Fuel Reserve	3,668,288.42	5,150,862.32
Cash - Rate Stabilization Fund	6,946,108.58	6,857,027.56
Cash - Pension Trust	5,683,014.26	0.00
Cash - Uncollectible Accounts Receivable	200,000.00	200,000.00
Cash - Sick Leave Benefits	1,864,092.78	1,948,734.17
Cash - Hazard Waste Reserve	750,000.00	150,000.00
Cash - Customer Deposits	1,157,139.00	986,734.14
Cash - Energy Conservation	658,385.99	704,395.33
Total Restricted Cash	<u>28,679,908.58</u>	<u>23,348,675.42</u>
Investments		
Sick Leave Buyback	1,329,906.48	1,345,663.06
Total	<u><u>\$45,372,473.73</u></u>	<u><u>\$39,136,173.37</u></u>

Town of Reading, Massachusetts
Municipal Light Department
Capital Funds
February 28, 2018

SOURCE OF CAPITAL FUNDS:

DEPRECIATION FUND BALANCE 7/1/17	\$	2,406,969.15
CONSTRUCTION FUND BALANCE 7/1/17		2,500,000.00
ADDITIONAL FUNDS ADDED TO CONSTRUCTION FUND BALANCE 12/31/17		1,200,000.00
INTEREST ON DEPRECIATION FUND FY 18		40,847.82
DEPRECIATION TRANSFER FY 18		2,870,659.36
WEST STREET - MASS DOT FINAL PAYMENT		43,056.31
TOTAL SOURCE OF CAPITAL FUNDS		9,061,532.64

USE OF CAPITAL FUNDS:

ADDITIONS TO PLANT THRU FEBRUARY 2018		
TOTAL USE OF CAPITAL FUNDS		3,936,646.45
GENERAL LEDGER CAPITAL FUNDS BALANCE 2/28/18	\$	5,124,886.19

Town of Reading, Massachusetts
Municipal Light Department
Statement of Budgeted Revenues, Expenses and Changes in Fund Net Assets
February 28, 2018

	Actual Year to Date	Budget Full Year	Remaining Budget	Remaining Budget %
Operating Revenue				
Base Revenue	\$17,926,813.07	\$26,337,621.00	\$8,410,807.93	31.9%
Fuel Revenue	20,024,405.36	32,491,810.00	12,467,404.64	38.4%
Purchased Power Capacity	26,802,000.07	38,088,978.00	11,286,977.93	29.6%
Forfeited Discounts	585,829.35	800,000.00	214,170.65	26.8%
Energy Conservation Revenue	450,899.09	675,000.00	224,100.91	33.2%
NYPA Credit	(735,702.26)	(1,200,000.00)	(464,297.74)	38.7%
Total Operating Revenue	65,054,244.68	97,193,409.00	32,139,164.32	33.1%
Expenses				
Power Expenses:				
547 Purchased Power Fuel Expense	21,489,435.33	31,291,810.00	9,802,374.67	31.3%
555 Purchased Power Capacity	17,344,829.00	24,476,161.00	7,131,332.00	29.1%
565 Purchased Power Transmission	9,868,956.50	13,612,817.00	3,743,860.50	27.5%
Total Purchased Power	48,703,220.83	69,380,788.00	20,677,567.17	29.8%
Operations and Maintenance Expenses:				
580 Supervision and Engineering	382,419.58	764,615.00	382,195.42	50.0%
581 Station Supervisor	100,923.59	130,662.00	29,738.41	22.8%
581 Line General	486,153.03	596,007.00	109,853.97	18.4%
582 Control Room	272,569.41	466,783.00	194,213.59	41.6%
585 Street Lighting	72,599.14	156,893.00	84,293.86	53.7%
586 Meter General	169,998.44	212,909.00	42,910.56	20.2%
588 Materials Management	376,443.03	458,328.00	81,884.97	17.9%
590 Maintenance of Structures and Equipment	313,864.39	494,936.00	181,071.61	36.6%
593 Maintenance of Lines - Overhead	1,018,475.48	1,980,611.00	962,135.52	48.6%
594 Maintenance of Lines - Underground	54,249.14	197,002.00	142,752.86	72.5%
595 Maintenance of Line Transformers	83,063.72	300,000.00	216,936.28	72.3%
Total Operations and Maintenance Expenses	3,330,758.95	5,758,746.00	2,427,987.05	42.2%
General & Administration Expenses:				
902 Meter Reading	28,529.82	37,461.00	8,931.18	23.8%
903 Customer Collection	1,133,568.63	1,869,393.00	735,824.37	39.4%
904 Uncollectible Accounts	100,000.00	150,000.00	50,000.00	33.3%
916 Energy Audit	316,128.67	509,232.00	193,103.33	37.9%
916 Energy Conservation	395,456.25	952,565.00	557,108.75	58.5%
920 Administrative and General Salaries	740,886.49	1,017,151.00	276,264.51	27.2%
921 Office Supplies and Expense	208,468.39	350,000.00	141,531.61	40.4%
923 Outside Services	575,079.04	759,191.00	184,111.96	24.3%
924 Property Insurance	225,225.68	427,200.00	201,974.32	47.3%
925 Injuries and Damages	44,566.69	52,613.00	8,046.31	15.3%
926 Employee Pensions and Benefits	2,408,984.21	3,000,437.00	591,452.79	19.7%
930 Miscellaneous General Expense	71,783.81	179,215.00	107,431.19	59.9%
931 Rent Expense	124,018.30	212,000.00	87,981.70	41.5%
933 Vehicle Expense	192,105.83	381,116.00	189,010.17	49.6%
933 Vehicle Expense - Capital	(223,734.95)	(301,596.00)	(77,861.05)	25.8%
935 Maintenance of General Plant	235,064.49	281,880.00	46,815.51	16.6%
935 Maintenance of Building & Garage	342,828.51	666,457.00	323,628.49	48.6%
Total General & Administration Expenses	6,918,959.86	10,544,315.00	3,625,355.14	34.4%

Town of Reading, Massachusetts
Municipal Light Department
Statement of Budgeted Revenues, Expenses and Changes in Fund Net Assets
February 28, 2018

	Actual Year to Date	Budget Full Year	Remaining Budget	Remaining Budget %
Other Operating Expenses:				
403 Depreciation	2,870,659.36	4,362,000.00	1,491,340.64	34.2%
408 Voluntary Payments to Towns	983,472.34	1,500,000.00	516,527.66	34.4%
Total Other Expenses	<u>3,854,131.70</u>	<u>5,862,000.00</u>	<u>2,007,868.30</u>	<u>34.3%</u>
Operating Income	2,247,173.34	5,647,560.00	3,400,386.66	60.2%
Non Operating Revenue (Expenses):				
419 Interest Income	156,981.82	150,000.00	(6,981.82)	(4.7%)
419 Other Income	706,663.48	890,000.00	183,336.52	20.6%
426 Return on Investment to Reading/Loss on Disposal	(1,613,180.00)	(2,570,438.00)	(957,258.00)	37.2%
431 Interest Expense	(9,748.77)	(2,500.00)	7,248.77	(290.0%)
Total Non Operating Revenue (Expenses)	<u>(759,283.47)</u>	<u>(1,532,938.00)</u>	<u>(773,654.53)</u>	<u>50.5%</u>
Net Income	<u>\$ 1,487,889.87</u>	<u>\$ 4,114,622.00</u>	<u>\$ 2,626,732.13</u>	<u>63.8%</u>

Town of Reading, Massachusetts
Municipal Light Department
Statement of Revenues, Expenses and Changes in Fund Net Assets
February 28, 2018

	Month Current Year	Month Last Year	Year to Date Current Year	Year to Date Last Year	Percent Change
Operating Revenue					
Base Revenue	\$2,189,844.29	\$2,122,036.44	\$17,926,813.07	\$17,726,858.70	1.1%
Fuel Revenue	2,784,277.72	3,117,313.52	20,024,405.36	23,396,684.32	(14.4%)
Purchased Power Capacity	3,291,698.81	2,740,693.44	26,802,000.07	23,476,617.51	14.2%
Forfeited Discounts	61,966.83	49,723.67	585,829.35	582,950.47	0.5%
Energy Conservation Revenue	55,046.36	55,966.81	450,899.09	462,616.15	(2.5%)
NYPA Credit	(122,537.34)	(122,453.60)	(735,702.26)	(778,364.96)	(5.5%)
Total Operating Revenue	8,260,296.67	7,963,280.28	65,054,244.68	64,867,362.19	0.3%
Expenses					
Power Expenses:					
547 Purchased Power Fuel Expense	2,964,416.33	2,511,340.83	21,489,435.33	22,598,629.05	(4.9%)
555 Purchased Power Capacity	2,540,740.82	1,514,067.41	17,344,829.00	13,299,947.06	30.4%
565 Purchased Power Transmission	1,233,986.69	1,023,048.37	9,868,956.50	9,133,837.84	8.0%
Total Purchased Power	6,739,143.84	5,048,456.61	48,703,220.83	45,032,413.95	8.2%
Operations and Maintenance Expenses:					
580 Supervision and Engineering	46,710.39	34,223.47	382,419.58	270,070.56	41.6%
581 Station Supervision	12,171.09	12,036.99	100,923.59	93,801.81	7.6%
581 Line General	53,493.08	67,488.07	486,153.03	444,439.03	9.4%
582 Control Room	29,489.83	28,586.92	272,569.41	311,651.49	(12.5%)
585 Street Lighting	15,408.40	7,392.30	72,599.14	148,173.23	(51.0%)
586 Meter General	14,875.14	17,053.79	169,998.44	140,367.83	21.1%
588 Materials Management	66,323.79	40,376.52	376,443.03	297,301.93	26.6%
590 Maintenance of Structures and Equipment	43,788.47	39,188.79	313,864.39	313,050.60	0.3%
593 Maintenance of Lines - Overhead	105,543.28	221,697.23	1,018,475.48	1,352,568.66	(24.7%)
594 Maintenance of Lines - Underground	1,302.10	6,145.78	54,249.14	195,626.56	(72.3%)
595 Maintenance of Line Transformers	11,508.76	3,445.31	83,063.72	23,558.20	252.6%
Total Operations and Maintenance Expenses	400,614.33	477,635.17	3,330,758.95	3,590,609.90	(7.2%)
General & Administration Expenses:					
902 Meter Reading	4,710.86	815.79	28,529.82	16,878.14	69.0%
903 Customer Collections	164,883.71	105,041.27	1,133,568.63	1,051,735.92	7.8%
904 Uncollectible Accounts	12,500.00	12,500.00	100,000.00	100,000.00	0.0%
916 Energy Audit	37,896.28	44,769.97	316,128.67	333,796.26	(5.3%)
916 Energy Conservation	42,942.85	75,857.98	395,456.25	475,639.06	(16.9%)
920 Administrative and General Salaries	89,526.74	71,368.25	740,886.49	624,920.84	18.6%
921 Office Supplies and Expense	30,017.72	27,409.02	208,468.39	186,212.44	12.0%
923 Outside Services	82,749.34	40,555.13	575,079.04	336,648.97	70.8%
924 Property Insurance	28,372.95	49,573.69	225,225.68	223,044.85	1.0%
925 Injuries and Damages	14,312.76	5,071.09	44,566.69	41,066.63	8.5%
926 Employee Pensions and Benefits	427,201.33	160,805.84	2,408,984.21	2,444,042.52	(1.4%)
930 Miscellaneous General Expense	2,925.92	22,511.38	71,783.81	107,672.90	(33.3%)
931 Rent Expense	14,493.63	15,944.59	124,018.30	116,514.40	6.4%
933 Vehicle Expense	18,506.60	0.00	192,105.83	0.00	(100.0%)
933 Vehicle Expense - Capital	(27,101.75)	0.00	(223,734.95)	0.00	100.0%
935 Maintenance of General Plant	21,072.23	14,405.36	235,064.49	196,667.81	19.5%
935 Maintenance of Building & Garage	51,462.58	58,241.64	342,828.51	355,323.50	(3.5%)
Total General & Administration Expenses	1,016,473.75	704,871.00	6,918,959.86	6,610,164.24	4.7%

Town of Reading, Massachusetts
Municipal Light Department
Statement of Revenues, Expenses and Changes in Fund Net Assets
February 28, 2018

	Month Current Year	Month Last Year	Year to Date Current Year	Year to Date Last Year	Percent Change
Other Operating Expenses:					
403 Depreciation	358,832.42	341,775.67	2,870,659.36	2,734,205.36	5.0%
408 Voluntary Payments to Towns	(634,258.35)	118,000.00	983,472.34	939,372.00	4.7%
Total Other Expenses	<u>(275,425.93)</u>	<u>459,775.67</u>	<u>3,854,131.70</u>	<u>3,673,577.36</u>	<u>4.9%</u>
Operating Income	379,490.68	1,272,541.83	2,247,173.34	5,960,596.74	(62.3%)
Non Operating Revenue (Expenses):					
419 Interest Income	20,988.73	11,598.83	156,981.82	96,717.59	62.3%
419 Other	64,904.99	42,697.57	706,663.48	501,578.27	40.9%
426 Return on Investment to Reading	(201,647.50)	(198,722.33)	(1,613,180.00)	(1,589,778.66)	1.5%
431 Interest Expense	(407.61)	(180.81)	(9,748.77)	(3,289.11)	196.4%
Total Non Operating Revenue (Expenses)	<u>(116,161.39)</u>	<u>(144,606.74)</u>	<u>(759,283.47)</u>	<u>(994,771.91)</u>	<u>(23.7%)</u>
Change in Net Assets	263,329.29	1,127,935.09	1,487,889.87	4,965,824.83	(70.0%)
Net Assets at Beginning of Year	109,368,059.44	104,814,487.24	109,368,059.44	104,814,487.24	4.3%
Ending Net Assets	<u>\$109,631,388.73</u>	<u>\$105,942,422.33</u>	<u>\$110,855,949.31</u>	<u>\$109,780,312.07</u>	<u>1.0%</u>

ENGINEERING & OPERATIONS REPORT
FEBRUARY 2018
ATTACHMENT 5

A dark grey arrow points to the right from the left edge of the slide. Several thin, light blue lines curve upwards from the bottom left corner towards the main title.

Engineering & Operations Report

RMLD Board of Commissioners Meeting
April 17, 2018

February 2018 Reporting Period

Hamid Jaffari, Director of Engineering & Operations

Engineering & Operations

Capital Improvement Projects

Project #	DESCRIPTION	% COMPLETE	FEB	YTD ACTUAL	BUDGETED	REMAINING BALANCE
100	Distributed Gas Generation Pilot (Demand Management)	100%	1,225	187,786	-	(187,786)
102	Pad-mount Switchgear Upgrade at Industrial Parks	8%	3,404	251,221	196,285	(54,936)
103	Grid Modernization and Optimization	On-going	3,097	270,551	227,183	(43,368)
105	New Wilmington Substation	6%	7,578	33,396	650,000	616,604
106	Underground Facilities Upgrades (URDs, Manholes, etc.)	On-going	290	124,797	344,725	219,928
107	13.8kV Upgrade (Step-down Areas, etc.)	On-going	4,250	69,622	70,851	1,229
108	115 kV Transmission Line Upgrade	50%		145,028	95,098	(49,930)
109	35 kV Underground Cable Upgrade Station 4, 5 and RR ROW	0%		-	206,817	206,817
110	4W9 Getaway Replacement - Station 4	100%		131,611	-	(131,611)
111	Substation Equipment Upgrade	On-going		-	50,218	50,218
112	AMI Mesh Network Expansion	On-going	65	65	120,311	120,246
116	Transformers & Capacitors	On-going		273,509	560,500	286,991
117	Meter Purchases	On-going		15,963	60,000	44,037
125	GIS	100%	23,374	139,989	218,726	78,737
126	Communication Equipment (Fiber Optic)	On-going		-	214,629	214,629
130	Remote Terminal Unit (RTU) Replacement - Station 3	100%		27,164	-	(27,164)
131	LED Street Lights Upgrade - All Towns	92%	76,931	568,002	1,169,332	601,330
133	Station 3: Relay Upgrades and SCADA Integration	100%		20,548	76,103	55,555
137	Pole Line Upgrade - Woburn Street (West to Concord), W	42%		1,200	200,284	199,084
138	Station 3 Reactors	80%	2,900	160,892	561,347	400,455
175	Pole Replacement Program	On-going	2,679	61,546	209,000	147,454
458	Secondary and Main Replacement Program	On-going	8,851	76,520	222,285	145,765
various	New Service Installations (Residential/Commercial/Industrial)	On-going	10,537	93,902	155,936	62,034

Engineering & Operations

Routine Capital Construction

Description	FEB	YTD
Pole Setting/Transfers	\$53,169	\$185,402
Overhead/Underground	\$26,031	\$216,910
Projects Assigned as Required <ul style="list-style-type: none"> Voltage Regulators 	\$52,958	\$146,679
Pole Damage/Knockdowns- Some Reimbursable <ul style="list-style-type: none"> Work was done to repair or replace four (4) poles. 	\$4,169	\$83,001
Station Group	\$854	\$12,721
Hazmat/Oil Spills <ul style="list-style-type: none"> Cherokee Lane, W 	\$4,770	\$6,735
Porcelain Cutout Replacement Program	-	-
Lighting (Street Light Connections)	\$106	\$22,578
Storm Trouble	-	\$79,988
Underground Subdivisions (new construction) <ul style="list-style-type: none"> Martins Landing, Lowell Road, North Reading Barton Estates, Reading 	\$4,305	\$73,238
Animal Guard Installation	-	\$415
Miscellaneous Capital Costs <ul style="list-style-type: none"> Capital Equipment Durham Drive, Lynnfield, New Pole 	\$26,440	\$150,931
TOTAL	<u>\$172,803</u>	<u>\$978,598</u>

Facilities, IRD and IT Capital Projects/Purchases

	FEB	ACTUAL YTD	FY18 BUDGET	REMAINING BALANCE
Facilities	\$70,739	\$152,996	\$657,000	\$504,004
Integrated Resources Division (IRD)	\$23,458	\$40,078	\$35,000	(\$5,078)
Information Technology (IT)	\$29,945	\$111,662	\$340,000	\$228,338

TOTAL CAPITAL SPENDING YTD (All Divisions)

FEB	YTD	FY18 BUDGET	REMAINING BALANCE
\$443,124	\$3,936,645	\$7,685,521	\$3,748,876



Routine Maintenance

- **Transformer Replacement (through February 2018)**

Pad mount 28.50%

Overhead 19.86%

- **Pole Inspection (as of 4/10/2018)**

193 poles have been replaced

178 of 193 transfers have been completed

- **Quarterly Inspection of Feeders (as of 4/10/2018)**

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

- **Manhole Inspection (through February 2018)**

961 of 1,237 manholes have been inspected.

- **Porcelain Cutout Replacement (through February 2018)**

91% complete

242 remaining to be replaced



Routine Maintenance

(continued)

► Tree Trimming

Feb: 85 spans

YTD: 813 spans through February

► Substation Maintenance

Infrared Scanning – through February complete – no hot spots found

► Underground Subdivisions Upgrade

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

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

Double Poles

➤ Ownership: 16,000 (approximately)

50% RMLD

50% Verizon

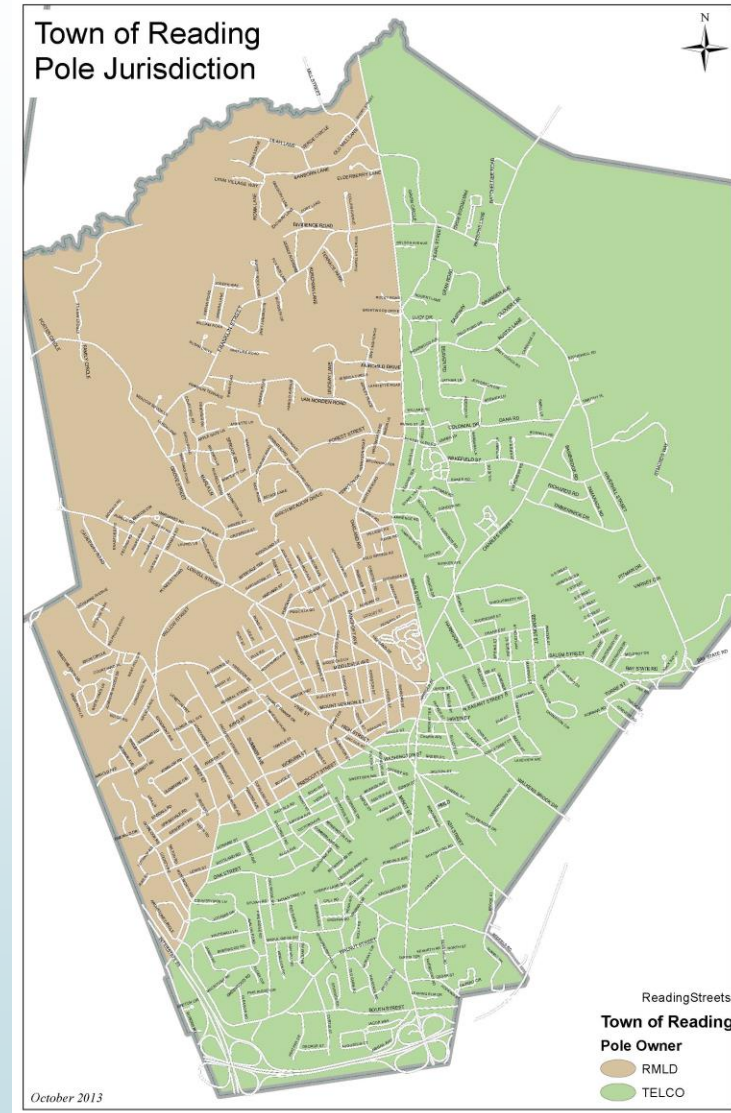
➤ Custodial:

Reading – split (see map) →

North Reading – RMLD

Lynnfield – Verizon

Wilmington - Verizon



NJUNS

“Next to Go” as of April 10, 2018

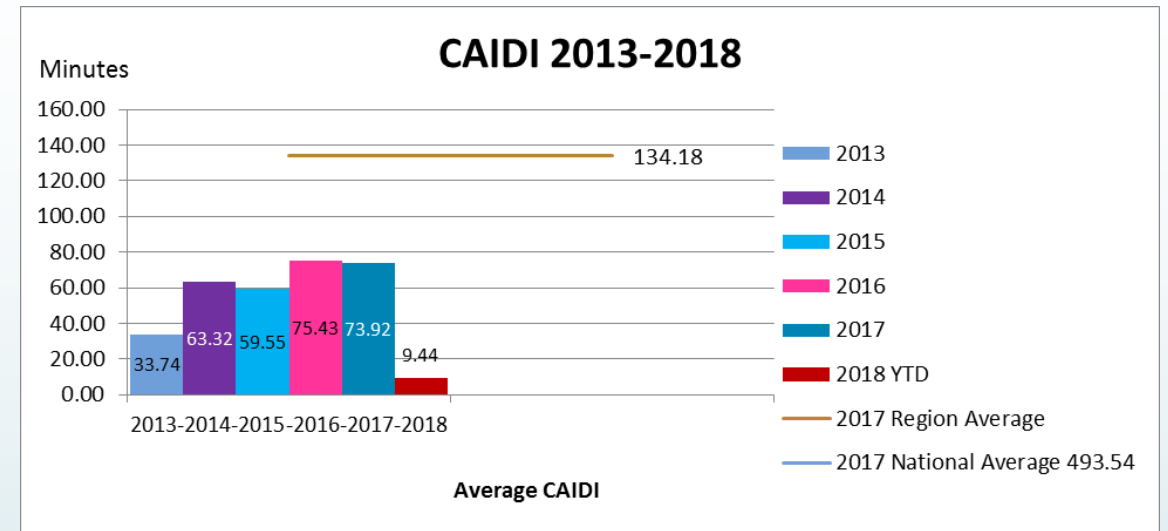
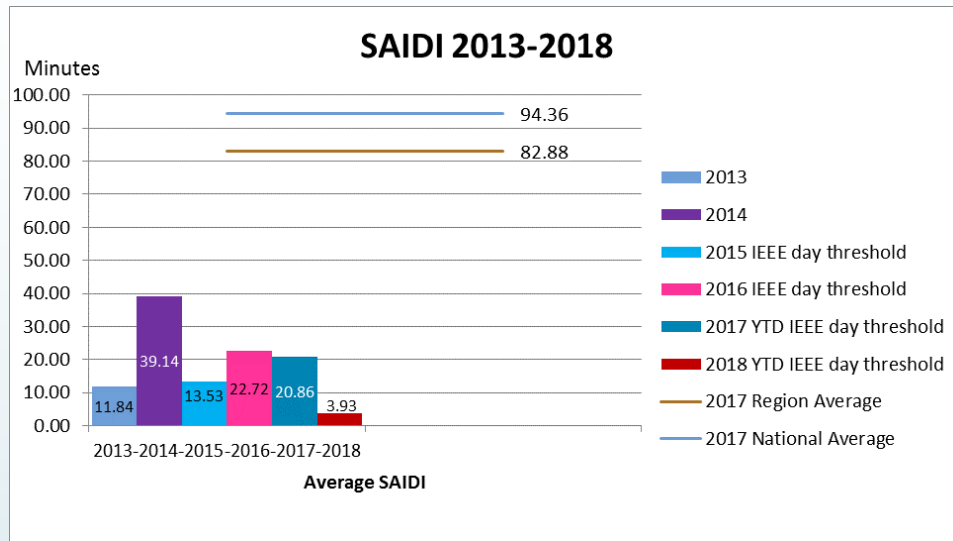
LYNNFIELD		Count of Ticket
NTG Member and JobType		Number
[-] CMCTNR		2
[-] Comcast Massachusetts	TRANSFER	2
[-] LFLDFD		6
[-] Lynnfield Fire Department	TRANSFER	6
[-] RMLD		6
[-] Reading Municipal Light Department	TRANSFER	6
[-] VZNESEA		1
[-] Verizon Massachusetts	PULL POLE	1
[+] (blank)		
Grand Total		15

NORTH READING		Count of Ticket
NTG Member and JobType		Number
[-] CMCTNR		18
[-] Comcast Massachusetts	TRANSFER	18
[-] NRDGFD		38
[-] North Reading Fire Department	TRANSFER	38
[-] RMLD		45
[-] Reading Municipal Light Department	TRANSFER	10
	PULL POLE	35
[-] VZNEDR		7
[-] Verizon Massachusetts	TRANSFER	6
	PULL POLE	1
[+] (blank)		
Grand Total		108

READING		Count of Ticket
NTG Member and JobType		Number
[-] CMCTNR		3
[-] Comcast Massachusetts	TRANSFER	3
[-] NP3PMA		4
[-] Non-participating 3rd Party		
[-] Attacher - Massachusetts	TRANSFER	4
[-] RDNGFD		4
[-] Reading Fire Department	TRANSFER	4
[-] RMLD		77
[-] Reading Municipal Light Department	TRANSFER	25
	PULL POLE	52
[-] VZNESEA		7
[-] Verizon Massachusetts	TRANSFER	5
	PULL POLE	2
[+] (blank)		
Grand Total		95

WILMINGTON		Count of Ticket
NTG Member and JobType		Number
[-] CMCTNR		1
[-] Comcast Massachusetts	TRANSFER	1
[-] NP3PMA		3
[-] Non-participating 3rd Party		
[-] Attacher - Massachusetts	TRANSFER	3
[-] RMLD		36
[-] Reading Municipal Light Department	TRANSFER	32
	PULL POLE	4
[-] VZNEDR		8
[-] Verizon Massachusetts	TRANSFER	8
[-] WLMFIB		11
[-] Town of Wilmington	TRANSFER	11
[-] WMGNFD		88
[-] Wilmington Fire Department	TRANSFER	88
[+] (blank)		
Grand Total		147

RMLD Reliability Indices

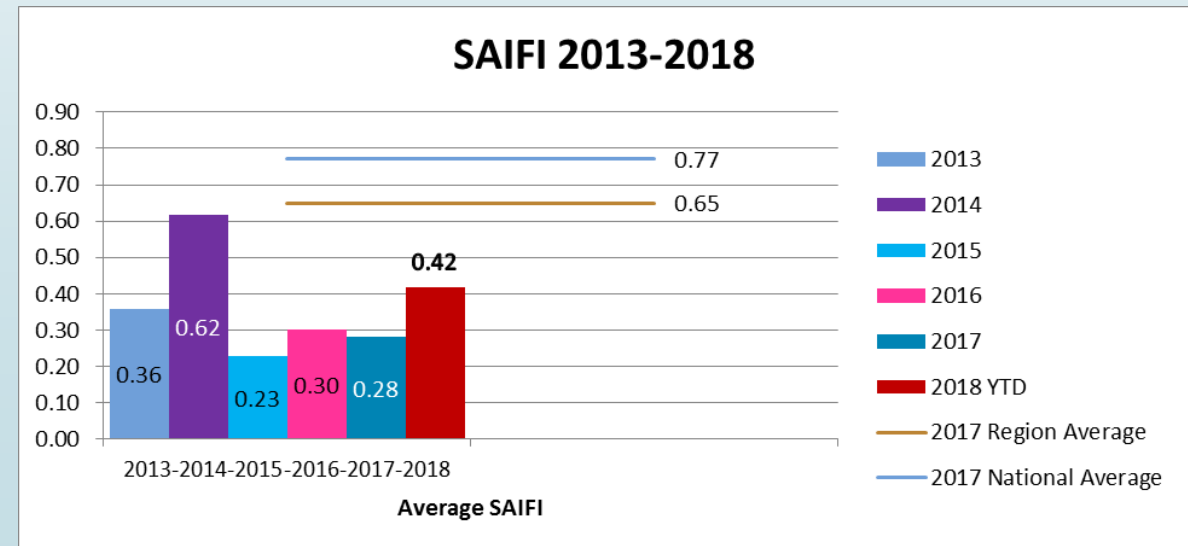


$$SAIDI \text{ (Minutes)} = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customers Served}}$$

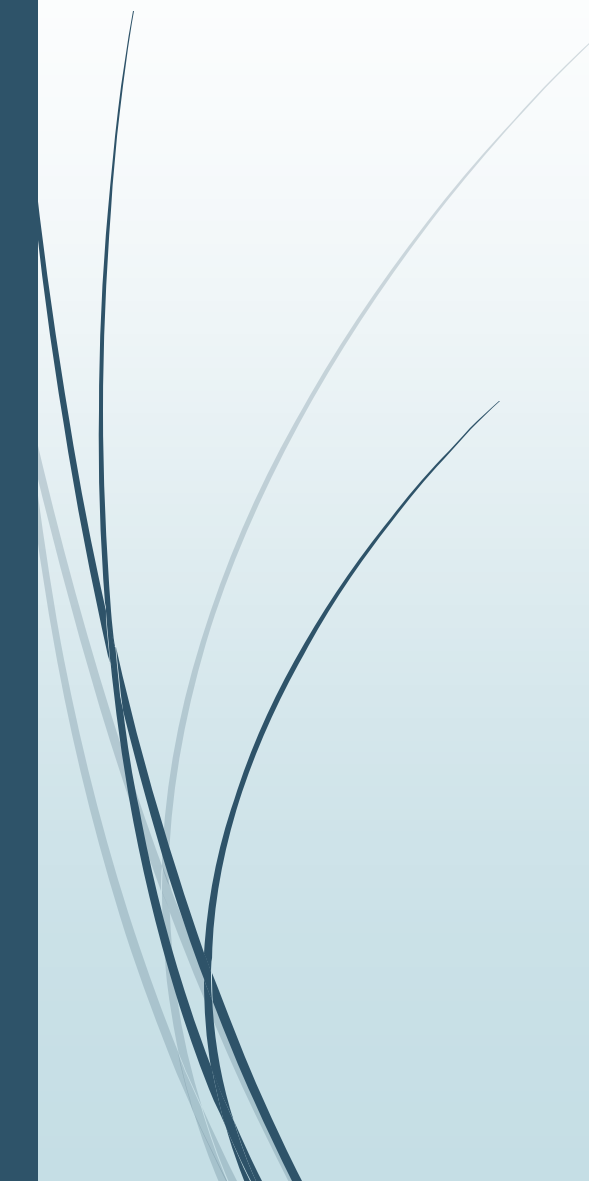
$$CAIDI \text{ (Minutes)} = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customers Interruptions}}$$

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

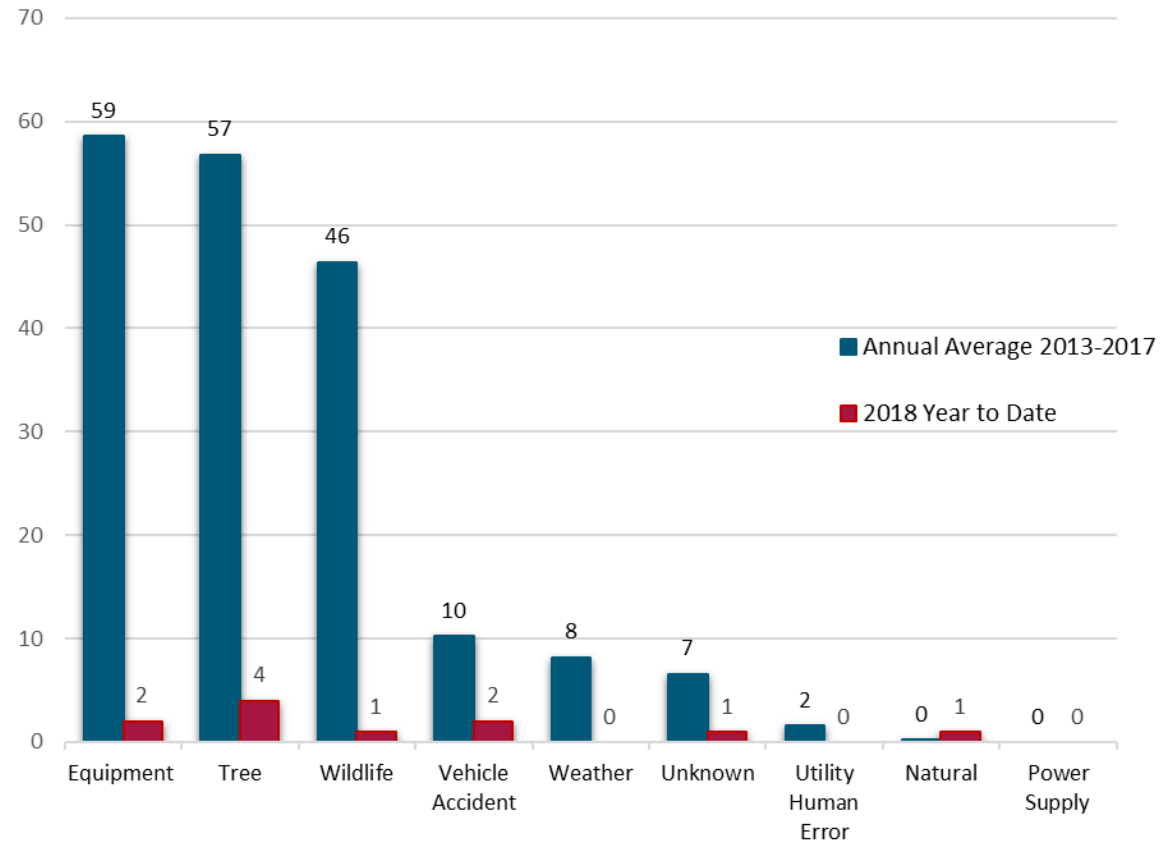
$$SAIFI = \frac{\text{Total Number of Customer Interruptions}}{\text{Total Number of Customers Served}}$$



Note: Regional and national averages have been updated for 2017.



Causes of Outages as of February 2018



Questions ?



RMLD PROCUREMENT REQUESTS
REQUIRING BOARD APPROVAL
ATTACHMENT 6

RMLD



Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

April 17, 2018

Town of Reading Municipal Light Board

Subject: IFB 2018-36 Residential Energy Audits

Pursuant to M.G.L. c. 30B, on March 26, 2018, an invitation for bid (IFB) requesting sealed bids for Residential Energy Audits was advertised in the Commonwealth of Massachusetts Goods and Services Bulletin. On March 21, 2018, the IFB was placed as a legal notice in the Middlesex East section of the Daily Chronicle, and on March 26, 2018, it was posted on COMMBUYS, the RMLD website, and the RMLD bulletin board.

An invitation for bid was sent to the following 17 companies:

Ace Energy Services, Inc.

Advanced Building Analysis, LLC

Atlas Glen-mor

Central Home Energy Experts

EBI Consulting

Energy New England

Energy & Resource Solutions, Inc. (ERS)

EnSave, Inc.

Franklin Energy Services, LLC

GDS Associates Inc.

Greentek Energy, Inc.

Healthy Homes Energy

Infrared Diagnostic LLC

Loureiro Engineering Associates, Inc.

Prime Vendor, Inc.

Strategic Serendipity LLC

Total Green Energy Solution

Sealed proposals were received from 3 companies: Energy New England, Health Homes Energy, Strategic Serendipity LLC

The sealed bids were publicly opened and read aloud at 11:00 a.m., April 9, 2018, in the Town of Reading Municipal Light Department's Audio Visual Spurr Room, 230 Ash Street, Reading, Massachusetts.


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

Move that proposal 2018-36 for Residential Energy Audits be awarded to: **Energy New England for \$176,400.00** pursuant to M.G.L. c. 30B, as the lowest responsive and responsible bidder, on the recommendation of the General Manager. This is a three-year contract.


These services will be paid from the fiscal year Operating Budget.



Ben Thivierge



Jane Parenteau



Coleen O'Brien



March 28, 2018

Town of Reading Municipal Light Board

Subject: IFP 2018-38 Pad Mounted Transformers

Pursuant to M.G.L. c. 164 § 56D, on February 14, 2018, a bid invitation was placed as a legal notice in the Middlesex East section of the Daily Times Chronicle requesting sealed proposals for Pole Mounted Transformers.

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

EDI	Graybar Electric	Hasgo Power
IF Gray	Stuart C. Irby Company	Power Sales Group
Power Tech-UPSC	Prime Vendor, Inc.	Robinson Sales
Shamrock Power Sales, Inc.	Transformer Exchange	Ward Transformer Sales
Weidmann Electrical Technology	WESCO Distribution, Inc.	Yale Electric Supply

Sealed proposals were received from four companies: Stuart C. Irby Company, Graybar Electric, Howard Industries, Inc. c/o Power Sales Group and WESCO Distribution, Inc.

The sealed proposals were publicly opened and read aloud at 11:00 a.m., February 28, 2018, 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 2018-38 for Pad Mounted Transformers be awarded to: **WESCO Distribution for \$33,540.00 and Howard Industries, Inc., c/o Power Sales Group for \$74,089.00, for a total of \$107,629.00**, pursuant to M.G.L. c. 164 § 56D on the recommendation of the General Manager.

The remaining FY18 Capital Budget amount (\$93,804) for Transformers and Capacitors will be used for this purchase. The difference between the total bid and the remaining Capital Budget amount will be paid with funds collected from a new underground subdivision customer (Martins Landing, North Reading).



Vaughan Bryan



Hamid Jaffari



Coleen O'Brien

**Pad Mounted Transformers
IFB 2018-38**

<u>Bidder</u>	<u>Manufacturer</u>	<u>Delivery Date</u>	<u>Unit Cost</u>	<u>Qty</u>	<u>Total Net Cost</u>	<u>Net Cost Awarded</u>	<u>Meet Specification requirement</u>
WESCO Distribution, Inc.							item 1 only
Item 1 75 kVa 1Ø FR3 240/120	ERMCO	8 - 10 weeks	\$2,795.00	12	\$33,540.00	\$33,540.00	
Item 2 300 kVa 3Ø DF 120/208	ERMCO	8 - 10 weeks	\$7,580.00	3	\$22,740.00		
Item 3 225 kVa 3Ø DF 120/208	ERMCO	8 - 10 weeks	\$6,775.00	3	\$20,325.00		
Item 4 500 kVa 3Ø DF 277/480	ERMCO	8 - 10 weeks	\$8,623.00	1	\$8,623.00		
					<u>\$85,228.00</u>	<u>\$33,540.00</u>	
Graybar Electric - Non Responsive							no
Item 1 75 kVa 1Ø FR3 240/120	GE	10 weeks	\$2,983.00	12	\$35,796.00		
Item 2 300 kVa 3Ø DF 120/208	GE	10 weeks	\$8,345.00	3	\$25,035.00		
Item 3 225 kVa 3Ø DF 120/208	GE	10 weeks	\$7,877.00	3	\$23,631.00		
Item 4 500 kVa 3Ø DF 277/480	GE	10 weeks	\$9,797.00	1	\$9,797.00		
					<u>\$94,259.00</u>	<u>\$0.00</u>	
Howard Industries, Inc., c/o Power Sales Group							yes
Item 1 75 kVa 1Ø FR3 240/120	Howard Industries, Inc	8 - 10 weeks	\$3,594.00	12	\$43,128.00		
Item 2 300 kVa 3Ø DF 120/208	Howard Industries, Inc	8 - 10 weeks	\$10,727.00	3	\$32,181.00	\$32,181.00	
Item 3 225 kVa 3Ø DF 120/208	Howard Industries, Inc	8 - 10 weeks	\$9,210.00	3	\$27,630.00	\$27,630.00	
Item 4 500 kVa 3Ø DF 277/480	Howard Industries, Inc	8 - 10 weeks	\$14,278.00	1	\$14,278.00	\$14,278.00	
					<u>\$117,217.00</u>	<u>\$74,089.00</u>	
Stuart C. Irby Company - Non Responsive							no
Item 1 75 kVa 1Ø FR3 240/120	ABB	6 - 10 weeks	\$4,712.00	12	\$56,544.00		
Item 2 300 kVa 3Ø DF 120/208	ABB	8 - 12 weeks	\$9,136.00	3	\$27,408.00		
Item 3 225 kVa 3Ø DF 120/208	ABB	8 - 12 weeks	\$8,351.00	3	\$25,053.00		
Item 4 500 kVa 3Ø DF 277/480	ABB	8 - 12 weeks	\$11,099.00	1	\$11,099.00		
					<u>\$120,104.00</u>	<u>\$0.00</u>	
						\$107,629.00	

RMLD



Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

April 10, 2018

Town of Reading Municipal Light Board

Subject: IFB 2018-40 Janitorial Services

Pursuant to M.G.L. c. 30B, on March 6, 2018, an invitation for bid (IFB) requesting sealed bids for Janitorial Services was posted on COMMBUYS. On March 7, 2018, the IFB was placed as a legal notice in the Middlesex East section of the Daily Times Chronicle, and posted on the RMLD website, and the RMLD bulletin board.

An invitation for bid was sent to the following forty-two companies:

A.C.P. Cleaning, Inc.	ABM Janitorial Northeast, Inc.	Advanced Maintenance Solutions, Inc.
All Pro Cleaning Systems	American Cleaning Co.	AMPM Facility Services
Brenner Facility Services	Compass Facility Services	Complete Cleaning Co., Inc.
Empire Cleaning, Inc.	Express Janitorial Service	FM&M, Inc.
FMN Services, Inc.	G Associates Corporation	Greenlife Janitorial Corp.
GSG – Cleaning Services Group, Inc.	Harvard Maintenance, Inc.	Integrity Services
Janitronics Incorporated	Jan-Pro Cleaning Systems of Massachusetts	M&M Cleaning, Inc.
M&M Contract Cleaning, Inc.	McGarr Service Corp.	Metro Facility Maintenance & Management
MP Building Services	National Facility Services, Inc.	NECC Corp.
ONVIA	PBSC Prospect Building Services Corporation	Prime-Vendor, Inc.
Pro City Facilities Services, Inc.	ResourceOne	S.J. Services, Inc.
Service Master	Star Building Services, Incorporated	State Cleaning Svc., Inc.
Swilley's Commercial Cleaning	T & T Janitorial Services & Sales, Inc.	T & S Professional Cleaning Service, Inc.
The Cleaning Crew	Tidy Cleaning Service	Transcend Maintenance Services, Inc.

Sealed bids were received from four companies: Advanced Maintenance Solutions, Inc., M&M Cleaning, Inc., S.J. Services, Inc., and Transcend Maintenance Services, Inc.

File: Bid/FY18/2018-40 Janitorial Services

RMLD



Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

The sealed bids were publicly opened and read aloud at 11:00 a.m. on March 28, 2018, in the Town of Reading Municipal Light Department's Audio Visual Spurr Room, 230 Ash Street, Reading, Massachusetts.

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

Move that bid 2018-40 for Janitorial Services be awarded to: **S.J. Services, Inc., for \$101,424.00**, pursuant to M.G.L., c. 30B, as the lowest responsive and responsible bidder, on the recommendation of the General Manager. This is a three-year contract.

These services will be paid from the Operating Budget.

Paul McGonagle

Paul McGonagle

Hamid Jaffari

Hamid Jaffari

Coleen O'Brien

Coleen O'Brien

**Janitorial Services
M.G.L. Chapter 30B
Bid 2018-40**

<u>Bidder</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Combined 3- Year Total</u>	<u>Responsive Bidder</u>	<u>Exceptions</u>
Advanced Maintenance Solutions, Inc.	\$30,939.00	\$31,396.20	\$31,852.56	\$94,187.76	Yes	No
M&M Cleaning, Inc.	\$101,000.18	\$101,000.18	\$101,000.18	\$303,000.54	Yes	No
S.J. Services, Inc.	\$32,880.00	\$33,840.00	\$34,704.00	\$101,424.00	Yes	No
Transcend Maintenance Services, Inc.	\$26,496.00	\$26,496.00	\$26,496.00	\$79,488.00	Yes	No

BOARD MATERIAL AVAILABLE
BUT NOT DISCUSSED

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

April-18

	RESIDENTIAL 750 kWh's	RESIDENTIAL-TOU 1500 kWh's 75/25 Split	RES. HOT WATER 1000 kWh's	COMMERCIAL 7,300 kWh's 25.000 kW Demand	SMALL COMMERCIAL 1,080 kWh's 10.000 kW Demand	SCHOOL RATE 35000 kWh's 130.5 kW Demand	INDUSTRIAL - TOU 109,500 kWh's 250.000 kW Demand 80/20 Split
READING MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$131.08	\$231.02	\$160.94	\$1,176.43	\$221.34	\$5,506.55	\$845,635.68
PER KWH CHARGE	\$0.17478	\$0.15402	\$0.16094	\$0.16115	\$0.20495	\$0.15733	\$0.12292
NATIONAL GRID							
TOTAL BILL	\$176.21	\$382.26	\$220.64	\$1,692.65	\$258.94	\$6,411.12	\$1,167,900.33
PER KWH CHARGE	\$0.23494	\$0.25484	\$0.22064	\$0.23187	\$0.23976	\$0.18317	\$0.16976
% DIFFERENCE	34.42%	65.46%	37.09%	43.88%	16.99%	16.43%	38.11%
EVERSOURCE(NSTAR)							
TOTAL BILL	\$185.81	\$289.07	\$245.41	\$1,451.50	\$263.82	\$7,573.12	\$1,105,148.27
PER KWH CHARGE	\$0.24774	\$0.19272	\$0.24541	\$0.19884	\$0.24428	\$0.21637	\$0.16064
% DIFFERENCE	41.75%	25.13%	52.49%	23.38%	19.19%	37.53%	30.69%
PEABODY MUNICIPAL LIGHT PLANT							
TOTAL BILL	\$81.53	\$154.13	\$104.71	\$906.76	\$144.33	\$4,490.83	\$595,357.76
PER KWH CHARGE	\$0.10871	\$0.10275	\$0.10471	\$0.12421	\$0.13364	\$0.12831	\$0.08654
% DIFFERENCE	-37.80%	-33.29%	-34.94%	-22.92%	-34.79%	-18.45%	-29.60%
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	-24.68%	-12.71%	-17.52%	-18.44%	-23.90%	-13.50%	-4.55%
WAKEFIELD MUNICIPAL LIGHT DEPT.							
TOTAL BILL	\$132.36	\$247.17	\$166.88	\$1,257.54	\$199.78	\$5,910.58	\$1,007,556.30
PER KWH CHARGE	\$0.17648	\$0.16478	\$0.16688	\$0.17227	\$0.18499	\$0.16887	\$0.14646
% DIFFERENCE	0.97%	6.99%	3.69%	6.89%	-9.74%	7.34%	19.15%

From: [Tracy Schultz](#)
To: [RMLD Board Members Group](#)
Subject: AP Warrants and Payroll
Date: Wednesday, April 11, 2018 1:45:00 PM

Good afternoon,

3.16.18, 3.23.18, 3.30.18, and 4.6.18 AP.

3.19.18 and 4.2.18 Payroll.

There were no Commissioner questions. This e-mail will be included in the 4-17-18 Board Book.

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