

**READING MUNICIPAL
LIGHT DEPARTMENT**

**BOARD
OF
COMMISSIONERS**

REGULAR SESSION

FEBRUARY 23, 2017

**POWER SUPPLY REPORT
DECEMBER, 2016
ATTACHMENT 1**

Integrated resources

February 23, 2017

RMLD Board of Commissioners Meeting

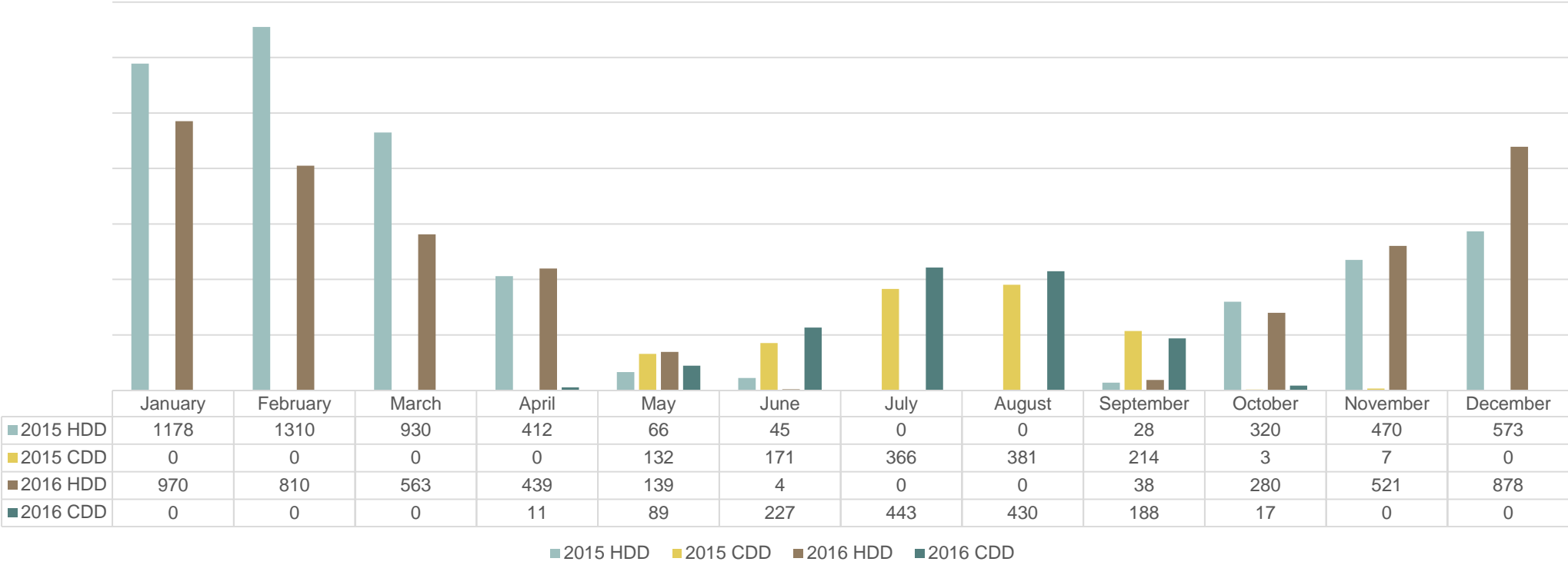
Reporting for December



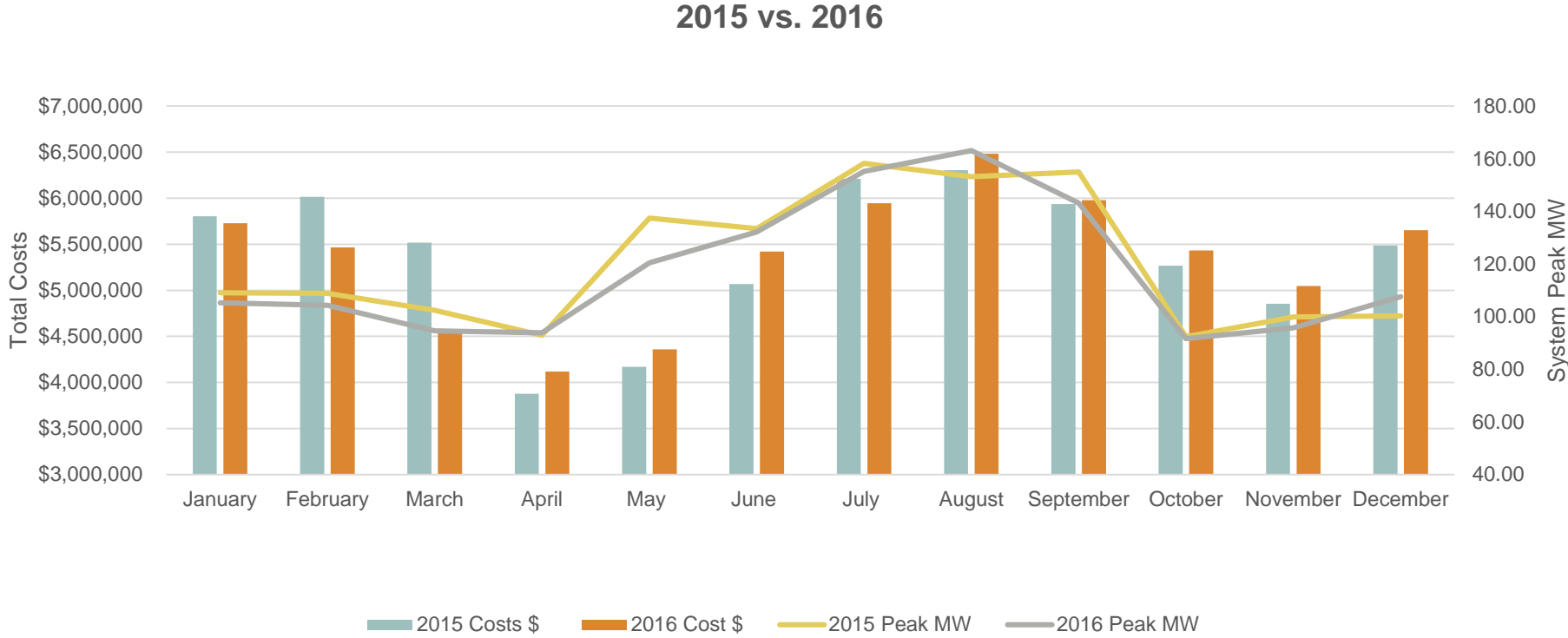
Jane Parenteau
Director of Integrated Resources

Heating and cooling degree days

2015 vs. 2016

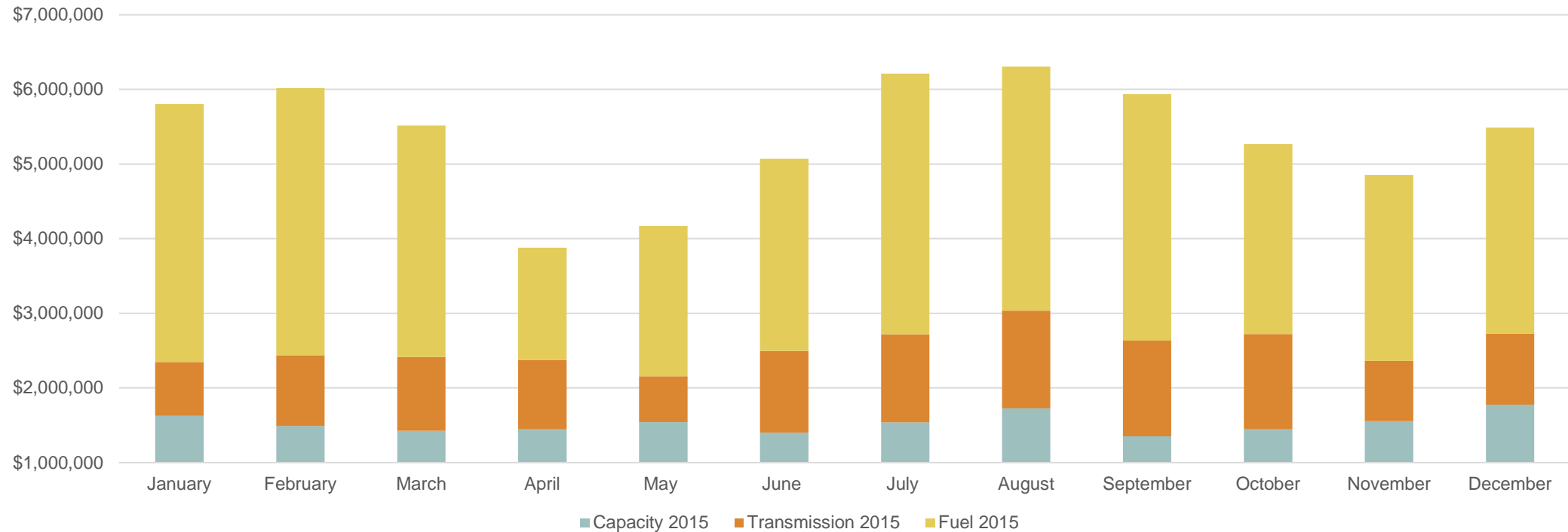


Purchase power cost (capacity, transmission & other) vs. system peak



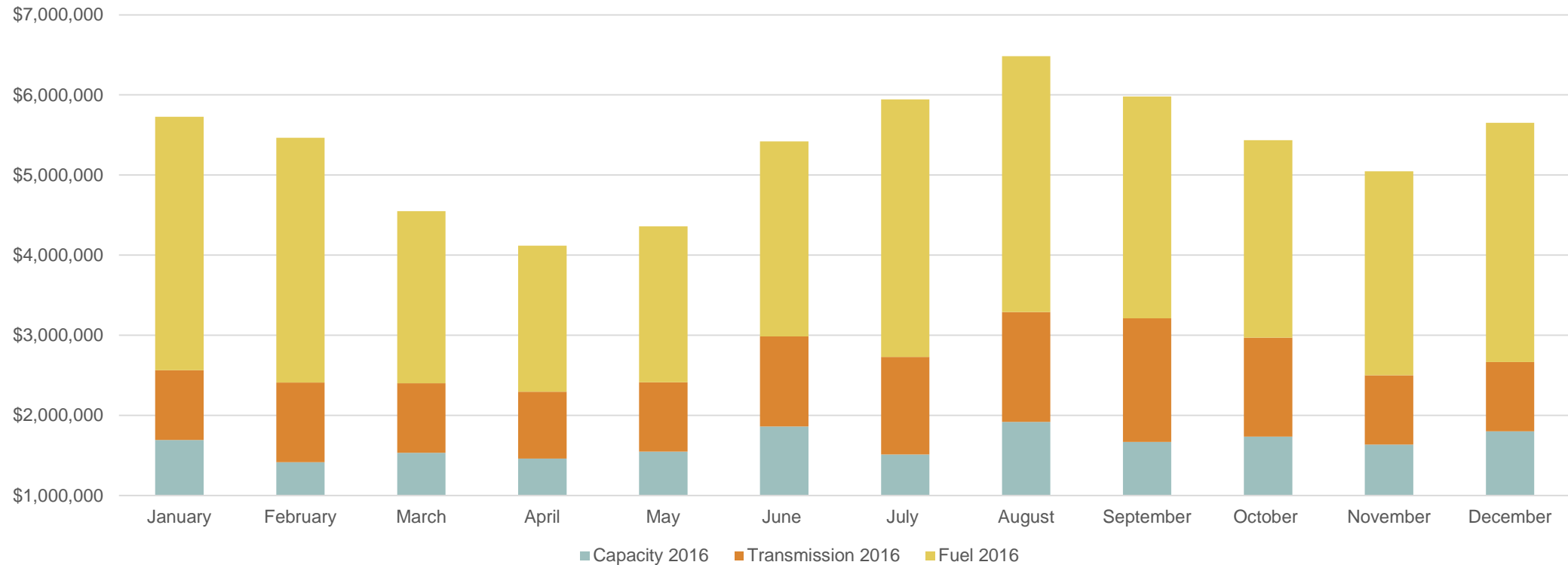
Purchase power costs

Calendar Year 2015

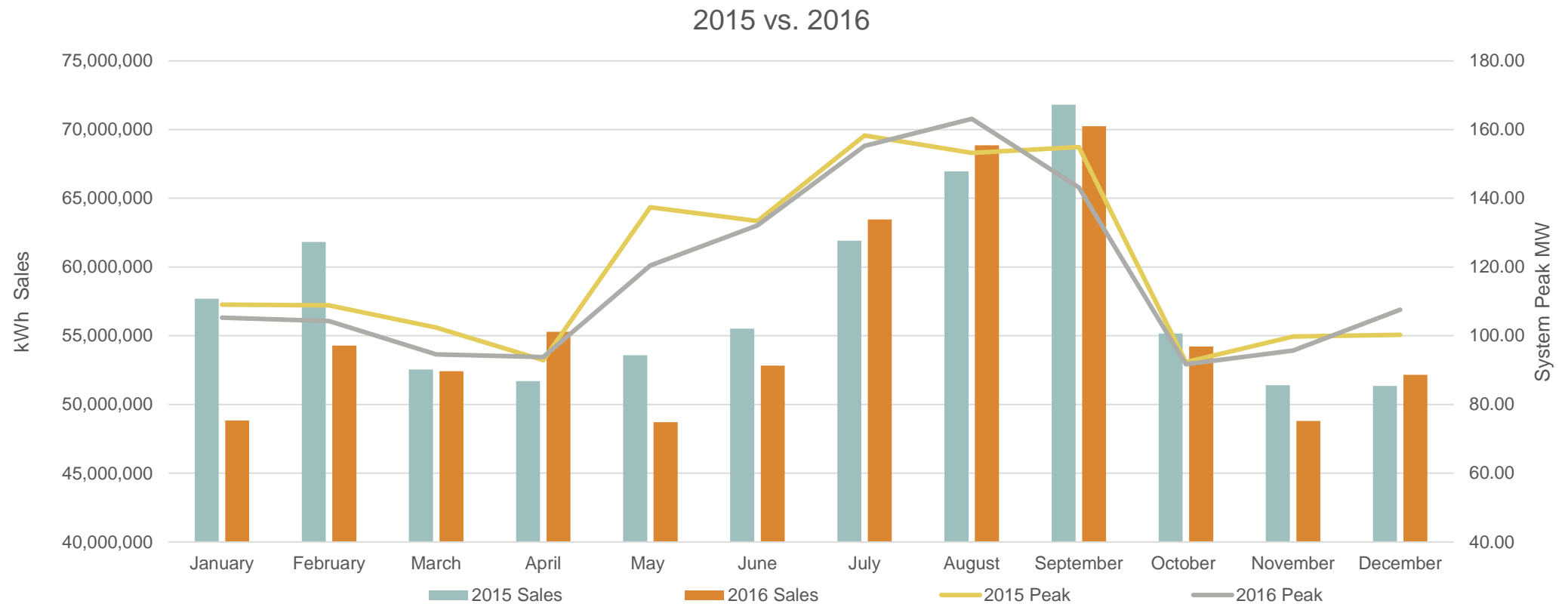


Purchase power costs

Calendar Year 2016



kWh sales vs. system peak



Traffic update

- Email Address: over 18,000
- Paperless Billing: over 7000 enrolled
- Auto Pay: over 7000
- Pay by Text: 60% usage
 - 800 customers with 481 registered
- RMLD Mobile App: 494 downloaded since inception
- Twitter: over 800 followers and growing
 - Gained approximately 200 in the last storm
 - The Facebook page will be up and running with the start of the new communications manager

To: Coleen O'Brien

From:  Maureen McHugh, Jane Parenteau 

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, Pioneer, Hosiery Mills, Summit Hydro

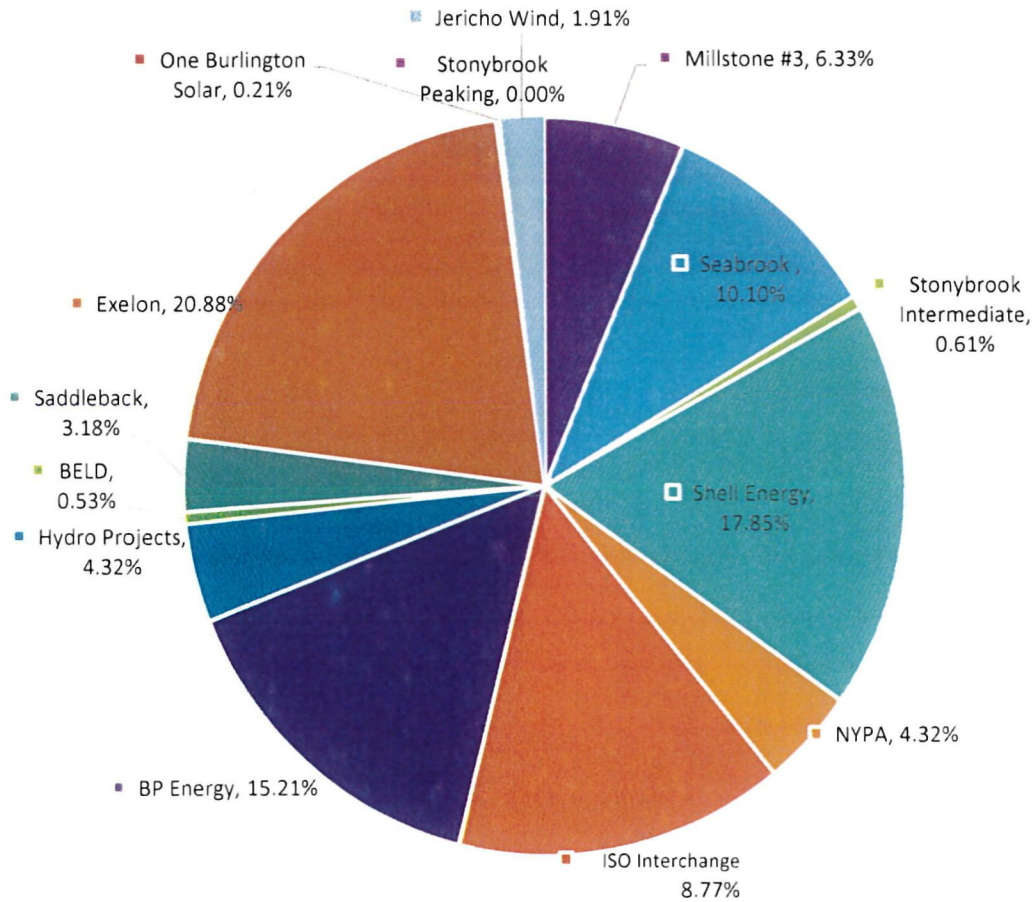
Table 2 breaks down the ISO interchange between the DA LMP Settlement and the RT Net Energy for the month of December, 2016.

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
 ** Real Time Net Energy

DECEMBER 2016 ENERGY BY RESOURCE



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 kW.

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

Table 3

| Source | Amount (kW) | Cost (\$/kW-month) | Total Cost \$ | % of Total Cost |
|-----------------------|----------------|--------------------|--------------------|-----------------|
| Millstone #3 | 4,950 | 33.53 | \$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

| Resource | Energy | Capacity | Total cost | % of Total Cost | Amt of Energy (kWh) | Cost of Power (\$/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 |
| * 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 |
| * 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 |
| * Saddleback/Jericho | \$256,681 | \$0 | \$256,681 | 5.37% | 2,976,917 | 0.0862 |
| * 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 |
| Monthly Total | \$2,986,249 | \$1,795,516 | \$4,781,765 | 100.00% | 58,589,656 | 0.0816 |
| * Renewable Resources | | | | | 13.91% | |

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 |

**FINANCIAL REPORT
DECEMBER, 2016
ATTACHMENT 2**

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 | 11,358,085.47 | 15,081,102.32 |
| RESTRICTED CASH | 21,442,729.78 | 22,649,697.18 |
| RESTRICTED INVESTMENTS | 1,284,061.45 | 1,345,663.06 |
| RECEIVABLES, NET | 7,501,623.12 | 9,566,223.57 |
| PREPAID EXPENSES | 2,750,539.26 | 1,129,845.45 |
| OTHER DEFERRED DEBITS | 1,547,815.00 | 6,338,218.00 |
| INVENTORY | 1,674,959.04 | 1,580,914.77 |
| TOTAL CURRENT ASSETS | 47,559,813.12 | 57,691,664.35 |
| 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 | 7,304,330.51 | 7,209,463.04 |
| CUSTOMER DEPOSITS | 903,279.18 | 1,024,765.67 |
| CUSTOMER ADVANCES FOR CONSTRUCTION | 938,349.15 | 1,028,449.93 |
| ACCRUED LIABILITIES | 3,174,618.47 | 10,153,695.95 |
| 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

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

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 | 1,759,727.09 | 1,970,195.55 | 12,234,940.46 | 13,522,803.32 | 10.53% |
| FUEL REVENUE | 2,826,699.78 | 2,573,056.92 | 17,625,976.64 | 17,129,536.64 | -2.82% |
| PURCHASED POWER CAPACITY | 2,200,292.86 | 2,453,637.87 | 15,422,436.34 | 17,830,948.53 | 15.62% |
| FORFEITED DISCOUNTS | 86,146.38 | 66,416.22 | 405,781.68 | 456,872.78 | 12.59% |
| ENERGY CONSERVATION REVENUE | 50,272.62 | 51,151.08 | 351,624.05 | 350,942.52 | -0.19% |
| NYPA CREDIT | (91,032.01) | (91,202.42) | (520,802.01) | (534,547.18) | 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 | 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% |
| PURCHASED POWER FUEL | 2,757,146.26 | 2,986,248.94 | 17,855,289.73 | 17,175,745.04 | -3.81% |
| OPERATING MAINTENANCE | 1,090,311.58 | 1,094,909.95 | 5,275,536.93 | 5,583,693.84 | 5.84% |
| DEPRECIATION | 287,885.24 | 289,477.82 | 1,496,627.46 | 1,806,309.44 | 20.69% |
| VOLUNTARY PAYMENTS TO TOWNS | 328,732.65 | 341,775.67 | 1,972,395.90 | 2,050,654.02 | 3.97% |
| | 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% |
| 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 | (458.39) | 533.93 | 38,444.74 | 70,421.93 | 83.18% |
| RETURN ON INVESTMENT TO READING | (197,537.10) | (198,722.35) | (1,185,222.50) | (1,192,334.00) | 0.60% |
| INTEREST INCOME | 14,139.36 | 15,485.65 | 69,114.38 | 73,472.79 | 6.31% |
| INTEREST EXPENSE | (189.44) | (1,960.60) | (1,087.01) | (2,925.91) | 169.17% |
| OTHER (MDSE AND AMORT) | 3,039.25 | (1,991.00) | 148,729.85 | 185,732.80 | 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

| | 2017 BUDGET | ACTUAL YEAR TO DATE | REMAINING BUDGET BALANCE | % CHANGE |
|---|-----------------------|------------------------|--------------------------------|-------------|
| OPERATING REVENUES: | | | | |
| BASE REVENUE | 25,500,000.00 | 13,522,803.32 | 11,977,196.68 | 46.97% |
| FUEL REVENUE | 34,074,492.00 | 17,129,536.64 | 16,944,955.36 | 49.73% |
| PURCHASED POWER CAPACITY | 34,322,278.00 | 17,830,948.53 | 16,491,329.47 | 48.05% |
| FORFEITED DISCOUNTS | 688,500.00 | 456,872.78 | 231,627.22 | 33.64% |
| ENERGY CONSERVATION REVENUE | 673,000.00 | 350,942.52 | 322,057.48 | 47.85% |
| NYPA CREDIT | (900,000.00) | (534,547.18) | (365,452.82) | 40.61% |
| TOTAL OPERATING REVENUES | <u>94,358,270.00</u> | <u>48,756,556.61</u> | <u>45,601,713.39</u> | 48.33% |
| OPERATING EXPENSES: | | | | |
| 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% |
| PURCHASED POWER FUEL | 33,174,492.00 | 17,175,745.04 | 15,998,746.96 | 48.23% |
| OPERATING MAINTENANCE | 12,107,583.00 | 5,583,693.84 | 6,523,889.16 | 53.88% |
| DEPRECIATION | 3,717,632.00 | 1,806,309.44 | 1,911,322.56 | 51.41% |
| VOLUNTARY PAYMENTS TO TOWNS | 4,134,000.00 | 2,050,654.02 | 2,083,345.98 | 50.40% |
| | 1,445,420.00 | 703,372.00 | 742,048.00 | 51.34% |
| TOTAL OPERATING EXPENSES | <u>88,901,405.00</u> | <u>44,683,927.91</u> | <u>44,217,477.09</u> | 49.74% |
| OPERATING INCOME | 5,456,865.00 | 4,072,628.70 | 1,384,236.30 | 25.37% |
| NONOPERATING REVENUES (EXPENSES) | | | | |
| CONTRIBUTIONS IN AID OF CONST | 500,000.00 | 70,421.93 | 429,578.07 | 85.92% |
| RETURN ON INVESTMENT TO READING | (2,534,668.00) | (1,192,334.00) | (1,342,334.00) | 52.96% |
| INTEREST INCOME | 125,000.00 | 73,472.79 | 51,527.21 | 41.22% |
| INTEREST EXPENSE | (2,100.00) | (2,925.91) | 825.91 | -39.33% |
| OTHER (MDSE AND AMORT) | 390,000.00 | 185,732.80 | 204,267.20 | 52.38% |
| TOTAL NONOPERATING REV (EXP) | <u>(1,521,768.00)</u> | <u>(865,632.39)</u> | <u>(656,135.61)</u> | 43.12% |
| CHANGE IN NET ASSETS | <u>3,935,097.00</u> | <u>3,206,996.31</u> | <u>728,100.69</u> | 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 | <u>62,500.00</u> |
| | |
| 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 | <u><u>5,298,216.37</u></u> |

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 | 18,891,467 | 18,657,110 | 134,467,011 | 136,447,232 | 1.47% |
| COMM. AND INDUSTRIAL SALES | 29,987,560 | 31,062,309 | 209,094,489 | 206,674,777 | -1.16% |
| PRIVATE STREET LIGHTING | 79,996 | 99,677 | 477,356 | 552,368 | 15.71% |
| TOTAL PRIVATE CONSUMERS | <u>48,959,023</u> | <u>49,819,096</u> | <u>344,038,856</u> | <u>343,674,377</u> | -0.11% |
| MUNICIPAL SALES: | | | | | |
| STREET LIGHTING | 222,241 | 185,163 | 1,381,864 | 1,229,430 | -11.03% |
| MUNICIPAL BUILDINGS | 733,200 | 768,127 | 4,604,141 | 4,515,047 | -1.94% |
| TOTAL MUNICIPAL CONSUMERS | <u>955,441</u> | <u>953,290</u> | <u>5,986,005</u> | <u>5,744,477</u> | -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 | <u>51,351,844</u> | <u>52,149,442</u> | <u>358,836,960</u> | <u>357,727,115</u> | -0.31% |

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 | 11,355,085.47 | 15,078,102.32 |
| CASH - PETTY CASH | 3,000.00 | 3,000.00 |
| TOTAL UNRESTRICTED CASH | <u><u>11,358,085.47</u></u> | <u><u>15,081,102.32</u></u> |
| RESTRICTED CASH | | |
| CASH - DEPRECIATION FUND | 6,426,278.58 | 5,298,216.37 |
| CASH - TOWN PAYMENT | 0.00 | 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 | 903,279.18 | 1,024,765.67 |
| CASH - ENERGY CONSERVATION | 730,732.68 | 751,500.34 |
| TOTAL RESTRICTED CASH | <u><u>21,442,729.78</u></u> | <u><u>22,649,697.18</u></u> |
| INVESTMENTS | | |
| SICK LEAVE BUYBACK | <u><u>1,284,061.45</u></u> | <u><u>1,345,663.06</u></u> |
| TOTAL CASH BALANCE | <u><u>34,084,876.70</u></u> | <u><u>39,076,462.56</u></u> |

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 | 1,981,917.70 | 1,957,712.34 | 13,246,809.25 | 13,943,003.82 | 5.26% |
| COMM AND INDUSTRIAL SALES | 2,409,026.19 | 2,370,405.21 | 15,380,916.01 | 15,401,032.29 | 0.13% |
| PRIVATE STREET LIGHTING | 10,569.04 | 11,784.26 | 60,437.65 | 67,825.87 | 12.22% |
| TOTAL PRIVATE CONSUMERS | <u>4,401,512.93</u> | <u>4,339,901.81</u> | <u>28,688,162.91</u> | <u>29,411,861.98</u> | 2.52% |
| MUNICIPAL SALES: | | | | | |
| STREET LIGHTING | (4,604.98) | 19,829.34 | 71,970.65 | 155,340.74 | 115.84% |
| MUNICIPAL BUILDINGS | 65,864.54 | 67,951.40 | 380,857.53 | 386,097.04 | 1.38% |
| TOTAL MUNICIPAL CONSUMERS | <u>61,259.56</u> | <u>87,780.74</u> | <u>452,828.18</u> | <u>541,437.78</u> | 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% |
| 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 | 18,899.14 | 18,665.67 | 134,529.71 | 136,524.24 | 1.48% |
| ENERGY CONSERVATION - COMMERCIAL | 31,373.48 | 32,485.41 | 217,094.34 | 214,418.28 | -1.23% |
| NYPA CREDIT | (91,032.01) | (91,202.42) | (520,802.01) | (534,547.18) | 2.64% |
| TOTAL REVENUE | <u>6,832,106.72</u> | <u>7,023,255.22</u> | <u>45,519,957.16</u> | <u>48,756,556.61</u> | 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 | 250,883.35 | 24.21% |
| STREET LIGHTING EXPENSE | 10,887.62 | 9,256.44 | 57,133.08 | 62,368.60 | 9.16% |
| METER EXPENSE | 20,955.83 | 14,507.25 | 111,130.00 | 101,905.99 | -8.30% |
| MISC DISTRIBUTION EXPENSE | 39,758.80 | 49,957.46 | 219,477.30 | 213,764.07 | -2.60% |
| 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% |
| RENT EXPENSE | 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: | | | | | |
| 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 | 134,041.87 | 843,652.77 | 899,160.99 | 6.58% |
| MAINT OF LINES - UG | 14,519.35 | 23,953.09 | 64,195.11 | 153,725.35 | 139.47% |
| MAINT OF LINE TRANSFORMERS | 0.00 | 464.50 | 79,916.66 | 18,387.89 | -76.99% |
| MAINT OF ST LT & SIG SYSTEM | (20.72) | (394.34) | (324.85) | 70,100.11 | -21679.22% |
| MAINT OF GARAGE AND STOCKROOM | 57,544.79 | 35,081.75 | 268,911.17 | 249,426.62 | -7.25% |
| MAINT OF METERS | 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% |
| DEPRECIATION EXPENSE | 328,732.65 | 341,775.67 | 1,972,395.90 | 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

| OPERATION EXPENSES: | 2017 ANNUAL BUDGET | ACTUAL YEAR TO DATE | REMAINING BUDGET BALANCE | REMAINING 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 | 250,883.35 | 221,995.65 | 46.95% |
| STREET LIGHTING EXPENSE | 102,402.00 | 62,368.60 | 40,033.40 | 39.09% |
| METER EXPENSE | 205,717.00 | 101,905.99 | 103,811.01 | 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 | 61.47% |
| ADMIN & GEN SALARIES | 1,134,674.00 | 477,382.86 | 657,291.14 | 57.93% |
| OFFICE SUPPLIES & EXPENSE | 349,000.00 | 151,102.83 | 197,897.17 | 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 | 84,171.52 | 127,828.48 | 60.30% |
| ENERGY CONSERVATION | 871,574.00 | 316,860.42 | 554,713.58 | 63.65% |
| TOTAL OPERATION EXPENSES | 12,107,581.00 | 5,583,693.84 | 6,523,887.16 | 53.88% |
| 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 | 125,066.00 | 153,725.35 | (28,659.35) | -22.92% |
| MAINT OF LINE TRANSFORMERS | 300,000.00 | 18,387.89 | 281,612.11 | 93.87% |
| 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% |
| 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% |
| VOLUNTARY PAYMENTS TO TOWNS | 1,445,420.00 | 703,372.00 | 742,048.00 | 51.34% |
| TOTAL OPERATING EXPENSES | 88,901,403.00 | 44,683,927.91 | 44,217,475.09 | 49.74% |

**ENGINEERING & OPERATIONS REPORT
DECEMBER, 2016
ATTACHMENT 3**

READING MUNICIPAL LIGHT DEPARTMENT

FOR PERIOD ENDING DECEMBER, 2016

| PROJ | DESCRIPTION | TOWN | ACTUAL COST DECEMBER | YTD ADDITIONS | ANNUAL BUDGET | REMAINING BALANCE |
|--|--|------|----------------------------|---------------------|---------------------|----------------------|
| CONSTRUCTION: | | | | | | |
| 106 | Underground Facilities Upgrades (URD's, Manholes, etc) | ALL | 11,168 | 262,981 | 149,965 | (113,016) |
| 107 | 13.8kV Upgrade (Step-down areas, etc.) | ALL | | 4,909 | 105,748 | 100,839 |
| | SUB-TOTAL | | 11,168 | 267,890 | 255,713 | (12,177) |
| STATION UPGRADES: | | | | | | |
| 108 | Station 4 (GAW) Relay Replacement Project | R | 87,079 | 101,845 | 48,904 | (52,941) |
| 109 | Station 4 35kV Potential Transformer Replacement | R | | 57 | - | (57) |
| 110 | 4W9 Getaway Replacement-Station 4 | R | | - | 234,747 | 234,747 |
| 111 | Substation Equipment Upgrade (all) | ALL | | - | 74,590 | 74,590 |
| 113 | Station 4 (GAW) Battery Bank Upgrade | R | 24,000 | 24,000 | 17,037 | (6,963) |
| 120 | Station 4 - Relay/SCADA Integration for Bus A&B | R | | 24,261 | 70,308 | 46,047 |
| 130 | Station 3 - Remote Terminal Unit (RTU) Replacement | NR | | - | 39,330 | 39,330 |
| 133 | Station 3 - Relay Upgrades and SCADA Integration | NR | 20,793 | 95,298 | 252,225 | 156,927 |
| 139 | Station 5 - LTC Control Replacement | W | | - | 41,543 | 41,543 |
| 140 | Substation Grounding Equipment Upgrade | ALL | | - | 20,671 | 20,671 |
| | SUB-TOTAL | | 131,872 | 245,461 | 799,355 | 553,894 |
| NEW CUSTOMER SERVICES: | | | | | | |
| | New Service Installations (Commercial / Industrial) | ALL | 10,363 | 62,814 | 139,570 | 76,756 |
| | SUB-TOTAL | | 10,363 | 62,814 | 139,570 | 76,756 |
| | ROUTINE CONSTRUCTION: | ALL | 126,809 | 881,493 | 1,012,962 | 131,469 |
| SPECIAL PROJECTS / CAPITAL PURCHASES: | | | | | | |
| 100 | Distributed Gas Generation (Pilot FY16-17) | ALL | | 43,175 | 2,720,409 | 2,677,234 |
| 102 | Padmount Switchgear Upgrade at Industrial Parks | W | | - | 194,518 | 194,518 |
| 103 | Grid Modernization and Optimization | ALL | 2,097 | 124,339 | 284,000 | 159,661 |
| 105 | New Wilmington Sub-Station | W | | - | 250,000 | 250,000 |
| 112 | AMI Mesh Network Expansion | ALL | 4,845 | 105,045 | 220,021 | 114,976 |
| 115 | Fault Indicators | ALL | | 1,340 | 25,000 | 23,660 |
| 116 | Transformers and Capacitors | ALL | | 9,102 | 668,000 | 658,898 |
| 117 | Meter Purchases | ALL | | 16,140 | 80,000 | 63,860 |
| 125 | GIS | ALL | | - | 360,000 | 360,000 |
| 126 | Communication Equipment (Fiber Optic) | ALL | 2,491 | 7,064 | 69,173 | 62,109 |
| 131 | LED Street Light Implementation | ALL | 52,750 | 368,534 | 804,070 | 435,536 |
| 134 | Substation Test Equipment | ALL | | 14,270 | 30,000 | 15,730 |
| 135 | Analog Devices Cap Bank Upgrade | W | | - | 54,188 | 54,188 |
| 136 | Voltage Data Recorders | ALL | | - | 25,000 | 25,000 |
| | SUB-TOTAL | | 62,183 | 689,008 | 5,784,379 | 5,095,371 |
| OTHER CAPITAL PROJECTS: | | | | | | |
| 96 | Control Center Modifications | ALL | | - | 100,000 | 100,000 |
| 97 | HVAC Roof Units - Garage | R | 3,111 | 44,484 | - | (44,484) |
| 98 | Carpet Upgrade | R | | 8,430 | 71,653 | 63,223 |
| 99 | Electric Vehicle Supply Equipment | ALL | 1,303 | 1,303 | 10,000 | 8,697 |
| 104 | RMLD Lighting (LED) Upgrade | | | - | 25,000 | 25,000 |
| 118 | Rolling Stock Replacement | ALL | | 30,477 | 310,000 | 279,523 |
| 119 | Security Upgrades All Sites | ALL | 27,840 | 34,684 | 5,000 | (29,684) |
| 121 | HVAC System Upgrade - 230 Ash Street | R | 52,214 | 467,785 | 500,000 | 32,215 |
| 127 | Hardware Upgrades | ALL | 18,727 | 57,078 | 112,065 | 54,987 |
| 128 | Software and Licensing | ALL | | 12,687 | 230,519 | 217,833 |
| 129 | Master Facilities Site Plan | R | | - | 50,000 | 50,000 |
| | SUB-TOTAL | | 103,195 | 656,927 | 1,414,237 | 757,310 |
| TOTAL CAPITAL BUDGET | | | \$ 445,590 | \$ 2,825,251 | \$ 9,406,216 | \$ 6,602,623 |
| ROUTINE CONST ADJ FOR WO MISPOSTING | | | 21,658 | | | |
| (July-November) | | | | | | |



Engineering & Operations Report

RMLD Board of Commissioners Meeting

February 23, 2017

December 2016 Reporting Period

Hamid Jaffari, Director of Engineering & Operations

Capital Improvement Projects

| Construction Projects: | | % Complete Status | Dec | YTD |
|------------------------|--|-------------------|----------|-----------|
| 106 | Underground Facilities Upgrades (URDs, Manholes, etc.) - All Towns <ul style="list-style-type: none"> 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 | 10% | \$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 | AMI Mesh Network Expansion | On-going | \$4,845 | \$105,045 |
| 131 | LED Street Light Conversion | 58% | \$52,750 | \$368,534 |

Routine Construction

| | DEC | YTD |
|--|-------------------------|-------------------------|
| Pole Setting/Transfers | \$31,263 | \$158,698 |
| Overhead/Underground | \$19,492 | \$254,884 |
| Projects Assigned as Required <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Work was done to repair or replace seven (7) damaged poles. | \$13,109 | \$61,096 |
| Station Group | \$32,329 | \$108,230 |
| Hazmat/Oil Spills | - | \$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 | - | \$795 |
| Miscellaneous Capital Costs | \$15,991 | \$125,371 |
| TOTAL: | <u>\$126,809</u> | <u>\$903,151</u> |

Routine Maintenance

► Transformer Replacement (through December 2016)

Pad mount 25.13% Overhead 15.88%

► Pole Inspection (as of 2/15/17)

213 poles have been replaced 116 of 213 transfers have been completed

► Quarterly Inspection of Feeders (as of 2/15/17)

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

December: 87 spans trimmed YTD: 651 spans trimmed

► Substation Maintenance

Infrared Scanning – December complete - no hot spots found

Double Poles

➤ Ownership: 16,000 (approximately)

50% RMLD

50% Verizon

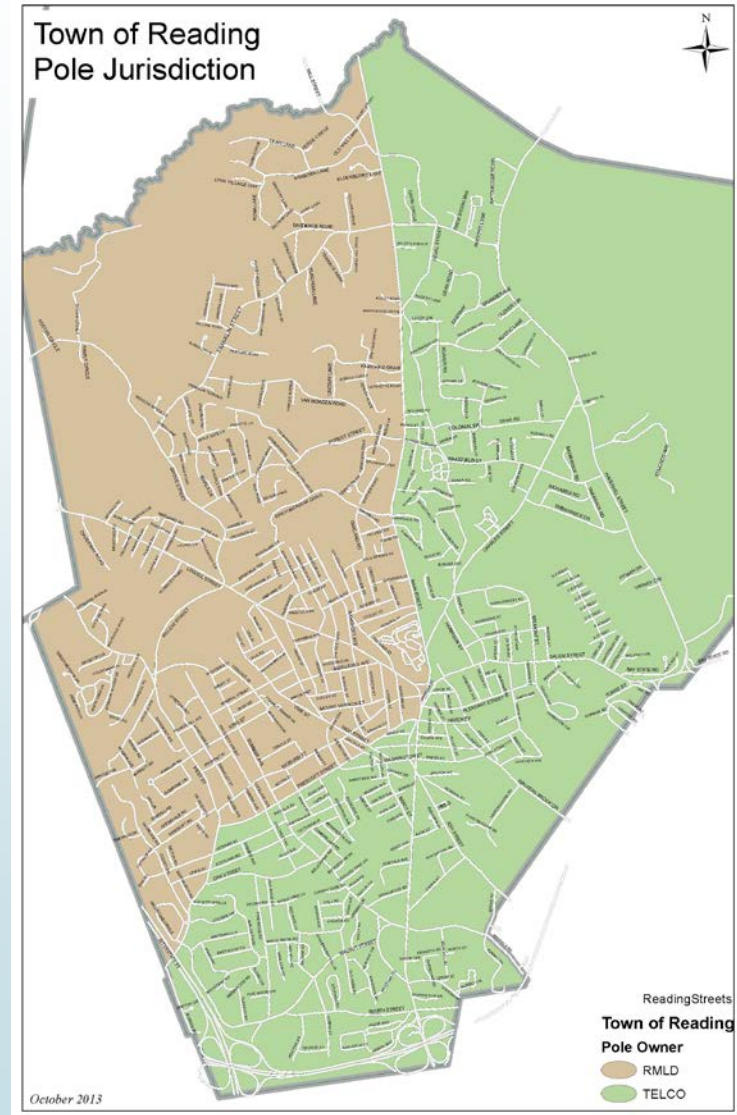
➤ Custodial:

Reading – split (see map) →

North Reading – RMLD

Lynnfield – Verizon

Wilmington - Verizon



NJUNS

"Next to Go" as of February 16, 2017

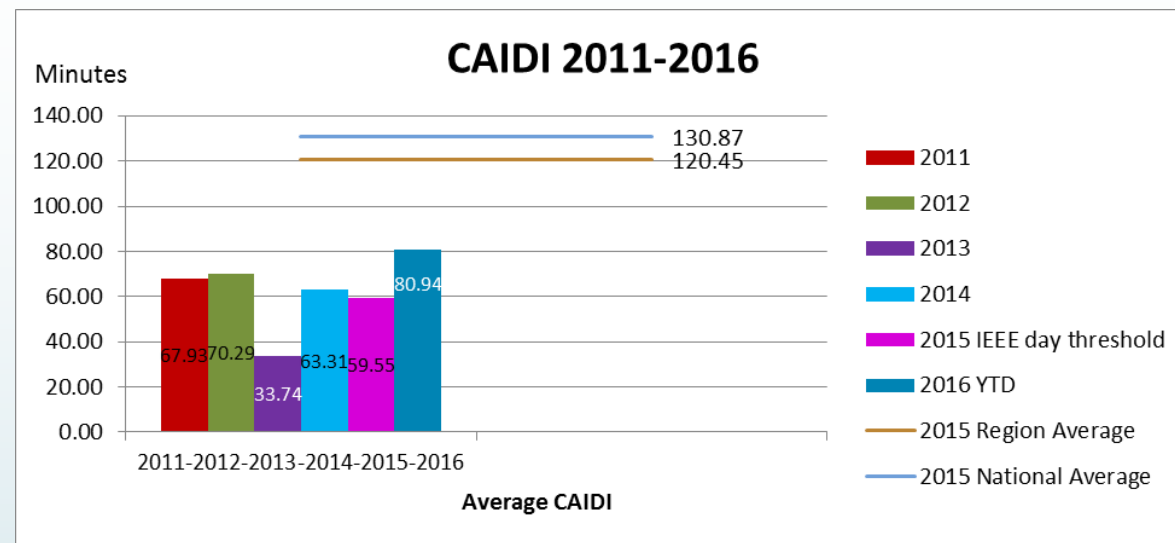
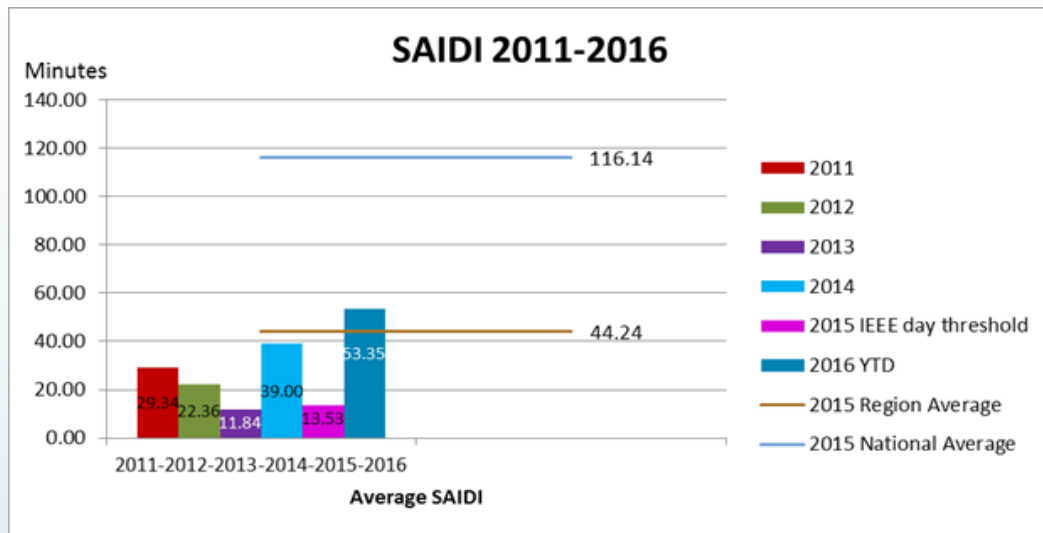
| LYNNFIELD | |
|---|------------------------|
| NTG Member and JobType | Count of Ticket Number |
| <input type="checkbox"/> LFLDFD | 3 |
| <input type="checkbox"/> Lynnfield Fire Department TRANSFER | 3 |
| <input type="checkbox"/> RMLD | 1 |
| <input type="checkbox"/> Reading Municipal Light Department TRANSFER | 1 |
| <input type="checkbox"/> VZNESA | 14 |
| <input type="checkbox"/> Verizon TRANSFER | 8 |
| <input type="checkbox"/> Verizon PULL POLE | 6 |
| <input type="checkbox"/> (blank) | |
| Grand Total | 18 |

| NORTH READING | |
|--|-----------------|
| NTG Member and JobType | Count of Ticket |
| <input type="checkbox"/> CMCTNR | 4 |
| <input type="checkbox"/> Comcast TRANSFER | 4 |
| <input type="checkbox"/> NGMA | 1 |
| <input type="checkbox"/> National Grid TRANSFER | 1 |
| <input type="checkbox"/> NRDGFD | 44 |
| <input type="checkbox"/> North Reading Fire Department TRANSFER | 44 |
| <input type="checkbox"/> RMLD | 104 |
| <input type="checkbox"/> Reading Municipal Light Department TRANSFER | 13 |
| <input type="checkbox"/> Reading Municipal Light Department PULL POLE | 91 |
| <input type="checkbox"/> VZNEDR | 46 |
| <input type="checkbox"/> Verizon TRANSFER | 39 |
| <input type="checkbox"/> Verizon PULL POLE | 7 |
| <input type="checkbox"/> (blank) | |
| Grand Total | 199 |

| READING | |
|--|------------------------|
| NTG Member and JobType | Count of Ticket Number |
| <input type="checkbox"/> CMCTNR | 9 |
| <input type="checkbox"/> Comcast TRANSFER | 9 |
| <input type="checkbox"/> LTFMA | 1 |
| <input type="checkbox"/> Lighttower Fiber Networks TRANSFER | 1 |
| <input type="checkbox"/> NP3PMA | 11 |
| <input type="checkbox"/> Non-participating 3rd Party Attacher - Massachusetts TRANSFER | 11 |
| <input type="checkbox"/> RDNGFD | 8 |
| <input type="checkbox"/> Reading Fire Department TRANSFER | 8 |
| <input type="checkbox"/> RMLD | 50 |
| <input type="checkbox"/> Reading Municipal Light Department TRANSFER | 23 |
| <input type="checkbox"/> Reading Municipal Light Department PULL POLE | 27 |
| <input type="checkbox"/> VZNEDR | 1 |
| <input type="checkbox"/> Verizon TRANSFER | 1 |
| <input type="checkbox"/> VZNESA | 111 |
| <input type="checkbox"/> Verizon TRANSFER | 107 |
| <input type="checkbox"/> Verizon PULL POLE | 4 |
| <input type="checkbox"/> (blank) | |
| Grand Total | 191 |

| WILMINGTON | |
|--|------------------------|
| NTG Member and JobType | Count of Ticket Number |
| <input type="checkbox"/> CMCTNR | 3 |
| <input type="checkbox"/> Comcast TRANSFER | 3 |
| <input type="checkbox"/> NP3PMA | 7 |
| <input type="checkbox"/> Non-participating 3rd Party Attacher - Massachusetts TRANSFER | 7 |
| <input type="checkbox"/> RMLD | 65 |
| <input type="checkbox"/> Reading Municipal Light Department TRANSFER | 59 |
| <input type="checkbox"/> Reading Municipal Light Department ATTACH | 1 |
| <input type="checkbox"/> Reading Municipal Light Department PULL POLE | 4 |
| <input type="checkbox"/> Reading Municipal Light Department INSTLGUY | 1 |
| <input type="checkbox"/> VZNEDR | 71 |
| <input type="checkbox"/> Verizon TRANSFER | 56 |
| <input type="checkbox"/> Verizon PULL POLE | 15 |
| <input type="checkbox"/> WLMFIB | 3 |
| <input type="checkbox"/> Town of Wilmington TRANSFER | 3 |
| <input type="checkbox"/> WMGNFD | 72 |
| <input type="checkbox"/> Wilmington Fire Department TRANSFER | 72 |
| <input type="checkbox"/> (blank) | |
| Grand Total | 221 |

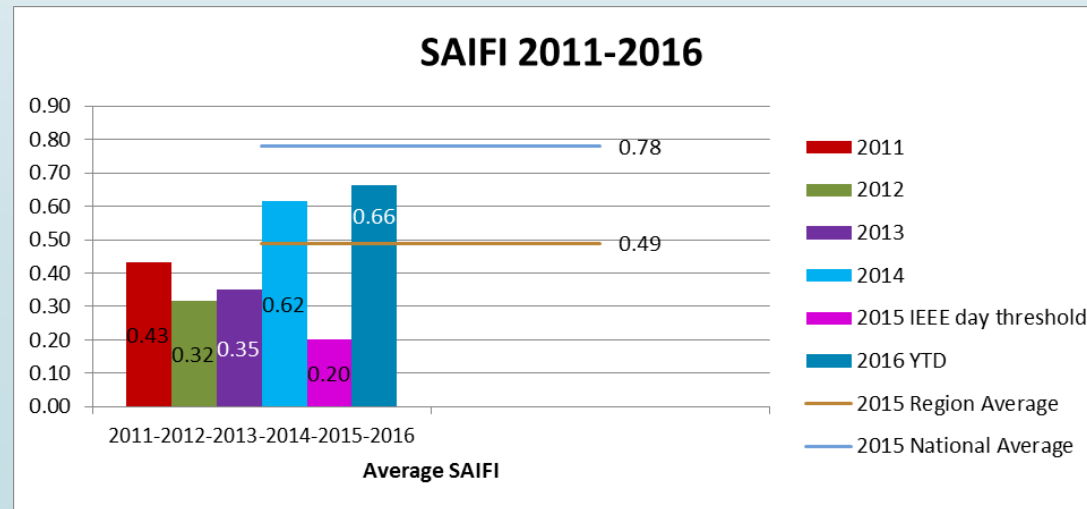
RMLD Reliability Indices



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

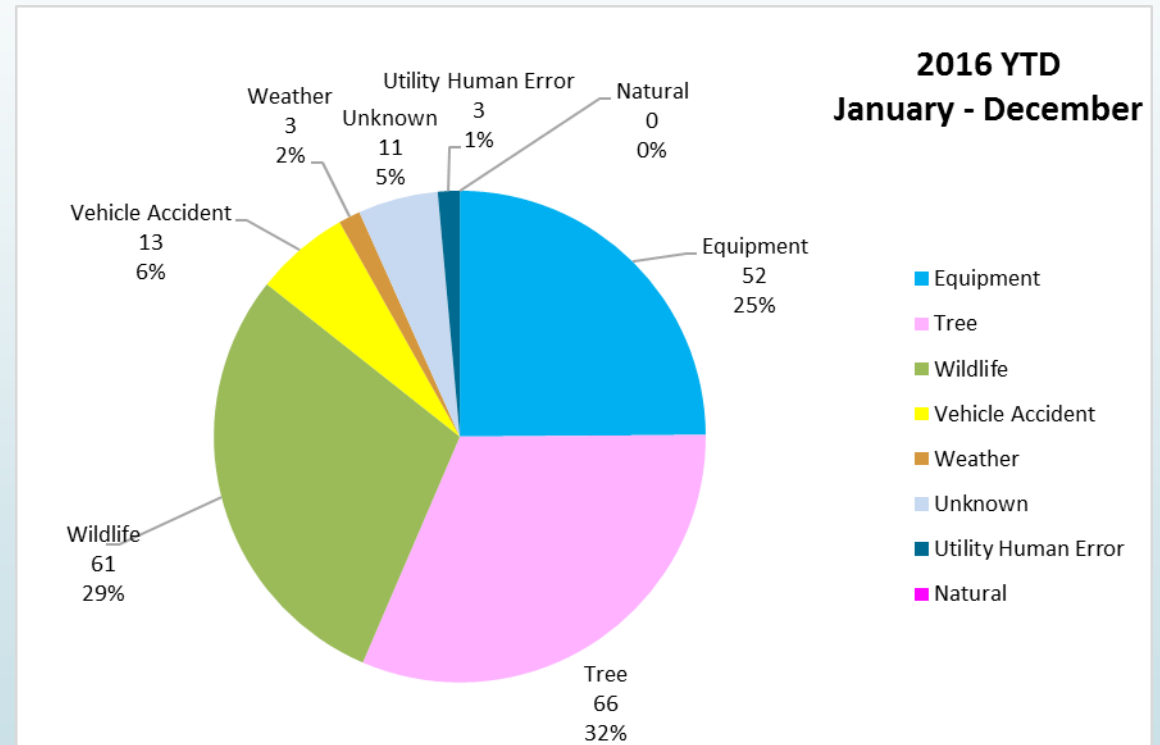
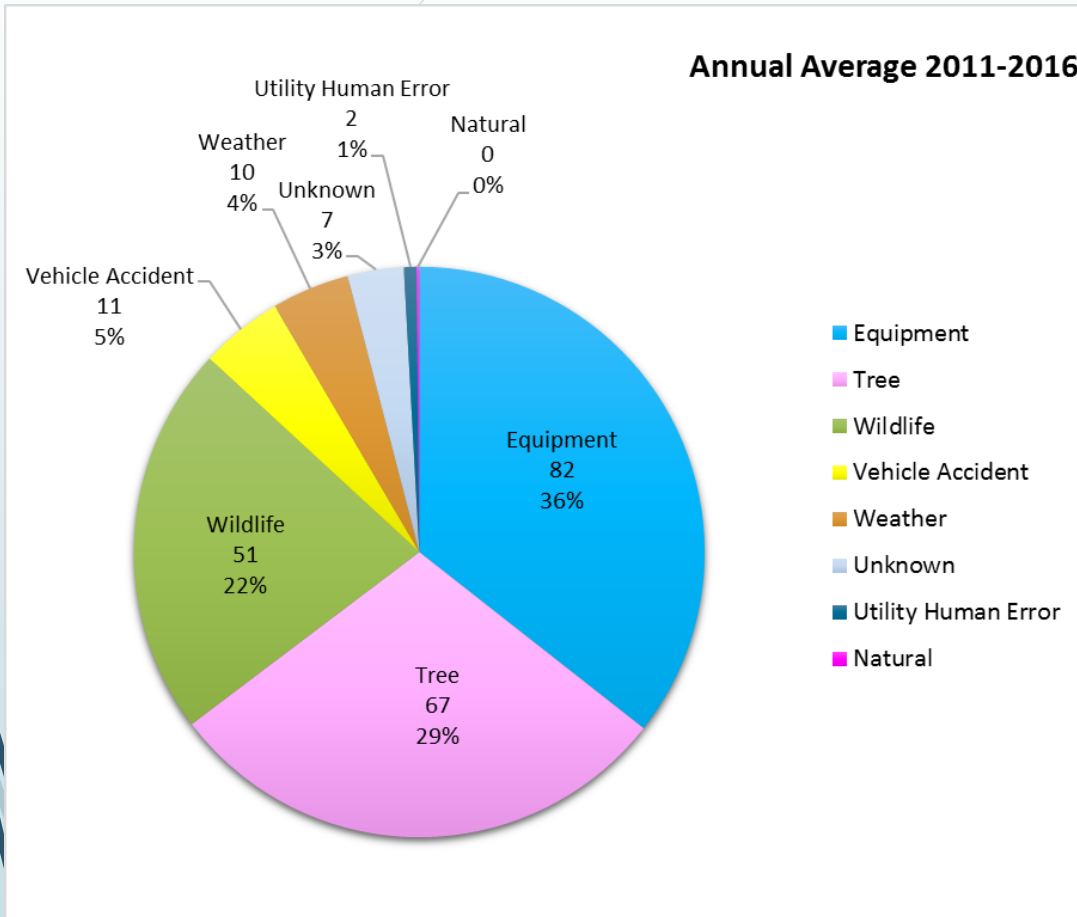
$$CAIDI \text{ (Minutes)} = \frac{\text{Total Duration of Customer Interruptions}}{\text{Total Number of Customers Interruptions}}$$

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



Outages Causes

Outages Causes YTD (from eReliability website)



Questions ?



**RMLD PROCUREMENT REQUEST
REQUIRING BOARD APPROVAL
ATTACHMENT 4**



February 13, 2017

Town of Reading Municipal Light Board

Subject: IFB 2017-34 Grounds and Landscape Services

Pursuant to M.G.L. c. 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:

| | | |
|-------------------------------------|-------------------------------------|---|
| BHD Company | Burns Landscaping Construction, LLC | Ciro Carbone and Sons Landscaping, Inc. |
| ConstructConnect | Earthworks Landscaping Co., Inc. | EZ Landscaping Inc. |
| Ferrari Landscaping | Gerrior Masonry & Landscape | Greenscape Land Design, Inc. |
| Ground Masters Corporation | GroundMasters Landscape Corporation | 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. | NECC Corp. |
| NETCO Construction Project Managers | ONVIA | Pathfinder Tree Service, LLC |
| 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.

RMLD



Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

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

Paul M. Donagle

Department Manager

Jim Duffin

Department Director

C. J. ...

General Manager

Grounds and Landscaping Services

Bid 2017-34

| <u>Bidder</u> | <u>Year 1 - 2017 Services</u> | <u>Year 2 - 2018 Services</u> | <u>Year 3 - 2019 Services</u> | <u>Three-Year Total Price</u> | <u>Responsive Bidder</u> | <u>Exceptions</u> |
|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------|-------------------|
| Earthworks Landscaping Co., Inc. | \$64,234.00 | \$65,182.00 | \$66,167.00 | \$195,583.00 | Yes | No |
| Greenscape Land Design, Inc. | \$36,984.00 | \$36,984.00 | \$36,984.00 | \$110,952.00 | Yes | No |
| GroundMasters Landscape Corporation | \$55,157.63 | \$55,508.63 | \$55,913.63 | \$166,579.89 | Yes | No |

Notes:

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

**BOARD MATERIAL AVAILABLE
BUT NOT DISCUSSED**

From: [Tracy Schultz](#)
To: [RMLD Board Members Group](#)
Cc: [Jeanne Foti](#)
Subject: Account Payable and Payroll Questions
Date: 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

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

February-17

| | RESIDENTIAL 750 kWh's | RESIDENTIAL-TOU 1500 kWh's 75/25 Split | RES. HOT WATER 1000 kWh's | COMMERCIAL 7,300 kWh's 25,000 kW Demand | SMALL COMMERCIAL 1,080 kWh's 10,000 kW Demand | SCHOOL RATE 35000 kWh's 130.5 kW Demand | INDUSTRIAL - TOU 109,500 kWh's 250,000 kW Demand 80/20 Split |
|--|--------------------------|--|------------------------------|---|---|---|---|
| READING MUNICIPAL LIGHT DEPT. | | | | | | | |
| TOTAL BILL | \$116.11 | \$200.74 | \$141.85 | \$1,048.25 | \$205.28 | \$4,876.20 | \$755,449.20 |
| PER KWH CHARGE | \$0.15481 | \$0.13383 | \$0.14185 | \$0.14360 | \$0.19007 | \$0.13932 | \$0.10981 |
| NATIONAL GRID | | | | | | | |
| TOTAL BILL | \$146.32 | \$311.18 | \$182.69 | \$2,027.57 | \$308.49 | \$5,877.72 | \$1,568,918.65 |
| PER KWH CHARGE | \$0.19509 | \$0.20745 | \$0.18269 | \$0.27775 | \$0.28564 | \$0.16793 | \$0.22805 |
| % DIFFERENCE | 26.02% | 55.01% | 28.79% | 93.42% | 50.28% | 20.54% | 107.68% |
| EVERSOURCE(NSTAR) | | | | | | | |
| TOTAL BILL | \$143.50 | \$253.51 | \$189.19 | \$1,233.41 | \$204.73 | \$6,692.17 | \$882,679.70 |
| PER KWH CHARGE | \$0.19133 | \$0.16901 | \$0.18919 | \$0.16896 | \$0.18956 | \$0.19120 | \$0.12830 |
| % DIFFERENCE | 23.59% | 26.29% | 33.37% | 17.66% | -0.27% | 37.24% | 16.84% |
| PEABODY MUNICIPAL LIGHT PLANT | | | | | | | |
| TOTAL BILL | \$89.37 | \$177.53 | \$120.42 | \$988.74 | \$156.46 | \$4,883.88 | \$672,615.67 |
| PER KWH CHARGE | \$0.11916 | \$0.11835 | \$0.12042 | \$0.13544 | \$0.14487 | \$0.13954 | \$0.09777 |
| % DIFFERENCE | -23.03% | -11.56% | -15.11% | -5.68% | -23.78% | 0.16% | -10.96% |
| 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 | -14.96% | 0.46% | -6.42% | -8.47% | -17.95% | -2.32% | 6.85% |
| WAKEFIELD MUNICIPAL LIGHT DEPT. | | | | | | | |
| TOTAL BILL | \$119.24 | \$220.92 | \$149.38 | \$1,129.79 | \$180.88 | \$5,298.08 | \$887,163.30 |
| PER KWH CHARGE | \$0.15898 | \$0.14728 | \$0.14938 | \$0.15477 | \$0.16749 | \$0.15137 | \$0.12896 |
| % DIFFERENCE | 2.69% | 10.05% | 5.31% | 7.78% | -11.88% | 8.65% | 17.44% |