

## **READING MUNICIPAL LIGHT DEPARTMENT**

## BOARD OF COMMISSIONERS

**REGULAR SESSION** 

MARCH 23, 2017

## POWER SUPPLY REPORT JANUARY 2017 ATTACHMENT 1

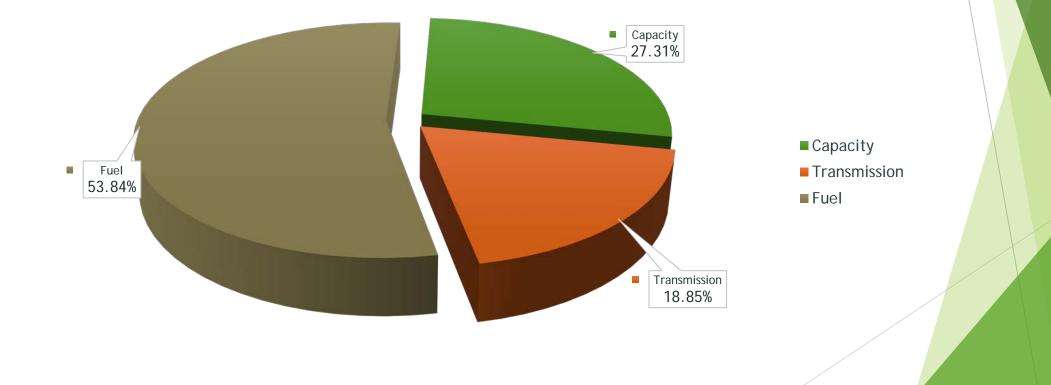
## Integrated Resources

March 23, 2017

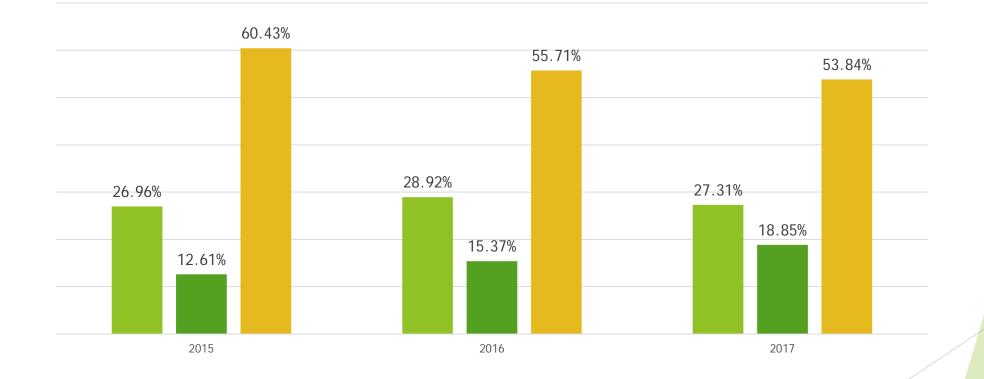
RMLD Board of Commissioners Meeting Reporting for January

Jane Parenteau Director of Integrated Resources

## Purchase Power Allocated Costs January 2017



## Purchase Power Allocations January 2015-2017



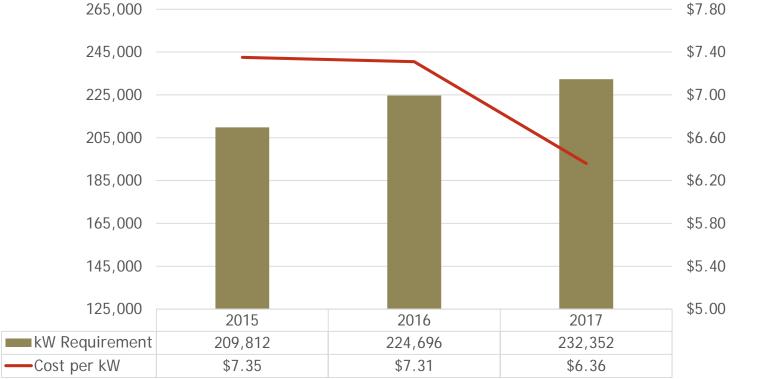
■ Capacity ■ Transmission ■ Energy

## Transmission Costs January 2015-2017



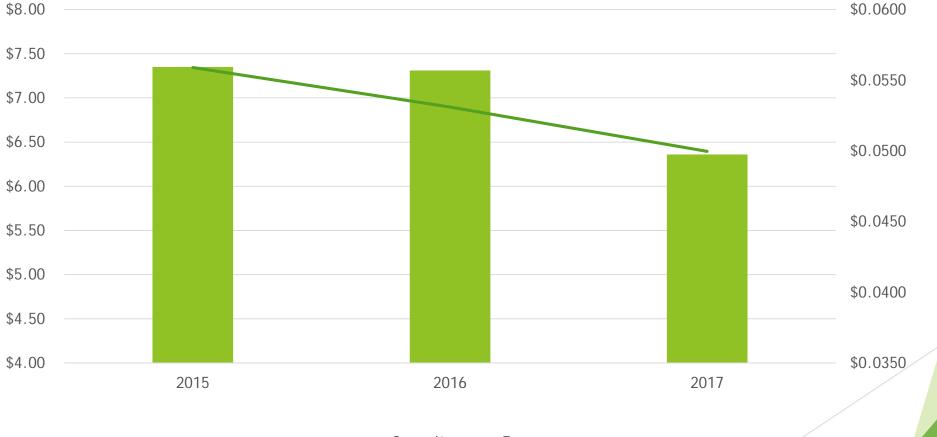
## Capacity Requirement vs Imbedded Capacity Cost January 2015-2017





Imbedded Cost per kW

## Imbedded Fuel & Capacity Costs January 2015-2017



Capacity — Energy

To:	Coleen O'Brien
From:	Coleen O'Brien Maureen McHugh, Jane Parenteau WGJ Fr Jan Januar
Date:	March 9, 2017
Subject:	Purchase Power Summary – January, 2017

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

#### ENERGY

The RMLD's total metered load for the month was 57,580,442 kWh, which is a 2.59% decrease from the January, 2016 figures.

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

		Table 1			
	Amount of	Cost of	% of Total	Total \$	\$ as a
Resource	Energy	Energy	Energy	Costs	%
	(kWh)	(\$/Mwh)			
Millstone #3	3,703,589	\$6.72	6.36%	\$24,894	0.86%
Seabrook	5,908,402	\$6.32	10.14%	\$37,341	1.28%
Stonybrook Intermediate	0	\$0.00	0.00%	\$0	0.00%
Shell Energy	8,772,600	\$59.53	15.06%	\$522,247	17.94%
EDF	4,675,200	\$57.16	8.02%	\$267,225	9.18%
NYPA	2,353,452	\$4.92	4.04%	\$11,579	0.40%
ISO Interchange	9,774,137	\$52.88	16.77%	\$516,871	17.75%
NEMA Congestion	0	\$0.00	0.00%	-\$192,620	-6.62%
Coop Resales	6,888	\$165.09	0.01%	\$1,137	0.04%
BP Energy	9,460,200	\$46.78	16.24%	\$442,548	15.20%
Hydro Projects*	4,617,134	\$83.77	7.92%	\$386,766	13.28%
Braintree Watson Unit	622,800	\$113.86	1.07%	\$70,913	2.44%
Saddleback/Jericho Wind	2,424,030	\$100.19	4.16%	\$242,856	8.34%
One Burlington Solar	122,231	\$70.00	0.21%	\$8,556	0.29%
Exelon	5,791,200	\$97.04	9.94%	\$561,971	19.30%
Stonybrook Peaking	38,252	\$242.04	0.07%	\$9,258	0.32%
Monthly Total	58,270,115	\$49.97	100.00%	\$2,911,543	100.00%

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

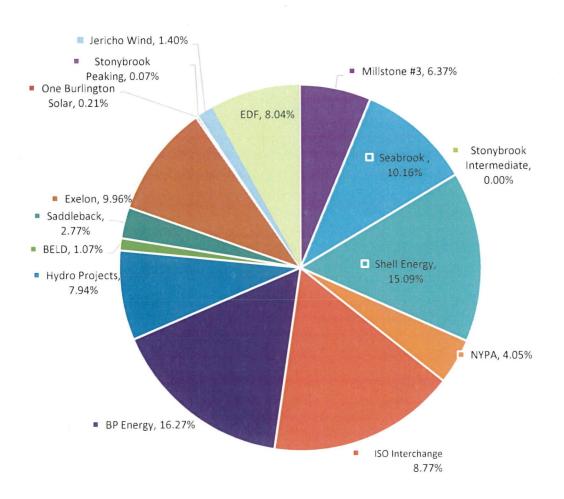
Table 2 breaks down the ISO interchange between the DA LMP Settlement and the RT Net Energy for the month of January, 2017.

		Table 2			
Resource	Amount of Energy (kWh)	Cost of Energy (\$/Mwh)	% of Total Energy		
ISO DA LMP * Settlement	17,101,952	\$44.47	29.35%		
RT Net Energy ** Settlement	(7,327,815)	\$33.13	-12.58%		
ISO Interchange (subtotal)	9,774,137	\$52.88	16.77%		

\* Independent System Operator Day-Ahead Locational Marginal Price

\*\* Real Time Net Energy

#### JANUARY 2017 ENERGY BY RESOURCE



#### **CAPACITY**

The RMLD hit a demand of 105,335 kW, which occurred on January 9, at 7 pm. The RMLD's monthly UCAP requirement for January, 2017 was 232,352 kWs.

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

Source	Amount (kWs)	Cost (\$/kW-month)	Total Cost \$	% of Total Cost
Millstone #3	4,950	28.03	\$138,728	9.44%
Seabrook	7,909	22.69	\$179,450	12.22%
Stonybrook Peaking	24,981	1.74	\$43,508	2.96%
Stonybrook CC	42,925	3.33	\$142,825	9.72%
NYPA	0	0.00	\$7,252	0.49%
Hydro Quebec	0	0	\$1,790	0.12%
Nextera	60,000	6.15	\$369,000	25.12%
Braintree Watson Unit	0	0.00	\$81,700	5.56%
ISO-NE Supply Auction	91,587	5.51	\$504,623	34.35%
Total	232,352	\$6.36	\$1,468,876	100.00%

#### Table 3

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

			Table 4			Cost of
Resource	Energy	Capacity	Total cost	% of Total Cost	Amt of Energy (kWh)	Power (\$/kWh)
Millstone #3	\$24,894	\$138,728	\$163,622	3.73%	3,703,589	0.0442
Seabrook	\$37,341	\$179,450	\$216,791	4.94%	5,908,402	0.0367
Stonybrook Intermediate	\$0	\$142,825	\$142,825	3.25%	-	0.0000
Hydro Quebec	\$0	\$1,790	\$1,790	0.04%	-	0.0000
EDF	\$267,225	\$0	\$267,225	6.09%	4,675,200	0.0572
Shell Energy	\$522,247	\$0	\$522,247	11.90%	8,772,600	0.0595
NextEra	\$0	\$369,000	\$369,000	8.41%	-	0.0000
* NYPA	\$11,579	\$7,252	\$18,831	0.43%	2,353,452	0.0080
ISO Interchange	\$516,871	\$504,623	\$1,021,494	23.28%	9,774,137	0.1045
Nema Congestion	-\$192,620	\$0	-\$192,620	-4.39%	-	0.000
BP Energy	\$442,548	\$0	\$442,548	10.08%	9,460,200	0.0468
* Hydro Projects	\$386,766	\$8,324	\$395,090	9.00%	4,617,134	0.0856
Braintree Watson Unit	\$70,913	\$81,700	\$152,613	3.48%	622,800	0.2450
* Saddleback/Jericho	\$242,856	\$0	\$242,856	5.53%	2,424,030	0.1002
* One Burlington Solar	\$8,556	\$0	\$8,556	0.19%	122,231	0.0700
Coop Resales	\$1,137	\$0	\$1,137	0.03%	6,888	0.1651
Exelon Energy	\$561,971	\$0	\$561,971	12.80%	5,791,200	0.0970
Stonybrook Peaking	\$9,258	\$43,508	\$52,767	1.20%	38,252	1.3794
Monthly Total	\$2,911,543	\$1,477,200	\$4,388,743	100.00%	58,270,115	0.0753

\* Renewable Resources

16.33%

#### **RENEWABLE ENERGY CERTIFICATES (RECs)**

Table 5 shows the amount of banked and projected RECs for the Swift River Hydro Projects through January 2017, as well as their estimated market value.

		Tab	e 5	
		RECs Si	ummary	
	P	eriod - January	2016 - January 2	2017
	Banked	Projected	Total	Est.
	RECs	RECs	RECs	Dollars
Woronoco	0	10,715	10,715	\$198,228
Pepperell	0	6,895	6,895	\$127,558
Indian River	0	2,103	2,103	\$38,906
Turners Falls	0	1,135	1,135	\$20,998
Saddleback	0	12,148	12,148	\$224,738
Jericho	0	6,894	6,894	\$127,539
Sub total	0	39,890	39,890	737,965
RECs Sold	\$0		0	\$0
Grand Total	0	39,890	39,890	\$737,965

#### TRANSMISSION

The RMLD's total transmission costs for the month of January, 2017 were \$1,019,500. This is an increase of 18.05% from the December transmission cost of \$863,599. In January, 2016 the transmission costs were \$873,184.

Table 6

Current Month Last Month Last Year Peak Demand (kW) 105,335 107,565 105,260 Energy (kWh) 58,270,115 58,589,656 59,610,620 \$2,986,249 Energy (\$) \$2,911,543 \$3,163,762 Capacity (\$) \$1,477,200 \$1,795,516 \$1,642,335 Transmission(\$) \$1,019,500 \$863,599 \$873,184 Total \$5,408,243 \$5,645,364 \$5,679,280

## FINANCIAL REPORT JANUARY 2017 ATTACHMENT 2

#### Town of Reading, Massachusetts Municipal Light Department Statement of Net Assets 1/31/2017

	2017	2016
ASSETS		
Current:		
Unrestricted Cash	\$15,850,224.24	\$10,898,477.11
Restricted Cash	22,605,998.32	21,091,052.83
Restricted Investments	1,345,663.06	1,284,061.45
Receivables, Net	8,285,113.20	8,362,181.76
Prepaid Expenses	1,937,910.40	2,641,259.88
Inventory	1,568,809.91	1,729,535.24
Total Current Assets	51,593,719.13	46,006,568.27
Noncurrent:		
Investment in Associated Companies	26,993.75	26,993.75
Capital Assets, Net	73,414,409.00	70,413,182.84
Total Noncurrent Assets	73,441,402.75	70,440,176.59
Deferred Outflows - Pension Plan	6,338,218.00	1,547,815.00
TOTAL ASSETS	131,373,339.88	117,994,559.86
LIABILITIES		
Current		
Accounts Payable	6,939,310.44	7,684,893.28
Accrued Liabilities	710,032.79	(1,122,646.20)
Customer Deposits	986,734.14	905,204.18
Customer Advances for Construction	1,110,355.53	967,879.15
Total Current Liabilities	9,746,432.90	8,435,330.41
Non-current		
Accrued Employee Compensated Absences	3,257,809.00	3,070,487.93
Net Pension Liability	8,833,549.00	4,524,191.00
Total Non-current Liabilities	12,091,358.00	7,594,678.93
Deferred Inflows - Pension Plan	883,172.00	0.00
TOTAL LIABILITIES	22,720,962.90	16,030,009.34
NET POSITION		
Invested in Capital Assets, Net of Related Debt	73,414,409.00	70,413,182.84
Restricted for Depreciation Fund	4,863,316.41	6,350,404.06
Unrestricted	30,374,651.57	25,200,963.62
TOTAL NET POSITION	108,652,376.98	101,964,550.52
Total Liabilities and Net Assets	131,373,339.88	117,994,559.86

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#### TOWN OF READING, MASSACHUSETTS MUNICIPAL LIGHT DEPARTMENT RECONCILIATION OF CAPITAL FUNDS 1/31/17

SOURCE OF CAPITAL FUNDS:

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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	17,860.04
DEPRECIATION TRANSFER FY 17	2,392,429.69
LED GRANT PROGRAM	62,500.00
TOTAL SOURCE OF CAPITAL FUNDS	8,467,742.59
USE OF CAPITAL FUNDS:	
LESS PAID ADDITIONS TO PLANT THRU JANUARY	
TOTAL USE OF CAPITAL FUNDS	3,604,426.18

GENERAL LEDGER CAPITAL FUNDS BALANCE 1/31/17

4,863,316.41

#### Town of Reading, Massachusetts Municipal Light Department Business Type Proprietary Fund Statement of Revenues, Expenses and Changes in Fund Net Assets 1/31/2017

Current Year         Last Year         Current Year         Last Year         Chast		110112	017			
Operating Revenues:         (Sch D p. 11)           Base Revenue         \$2,082,018,94         \$1,864,067,44         \$15,604,822,26         \$14,099,007,90         1           Fuel Revenue         3,149,834,16         2,666,333,87         20,279,370,80         20,282,310,51         (C)           Purchased Power Capacity         2,904,975,54         2,075,758,47         20,279,370,80         20,282,310,51         (C)           Foreited Discounts         76,354,02         68,040,93         533,226,80         473,822,61         1           Energy Conservation Revenue         55,706,82         47,810,39         406,649,34         399,434,44           NYPA Credit         (121,364,18)         (108,747,38)         (655,911,36)         (629,549,39)           Total Operating Revenues         8,147,525,30         6,603,263,72         56,904,081,91         52,123,220,88           Operating Expenses: (Sch E p. 12)         Purchased Power Capacity         1,513,015,67         1,691,412,49         11,785,879,65         11,083,628,14           Purchased Power Fuel         2,911,543,18         3,163,761,69         20,087,288,22         21,019,051,422         (2,09,781,10)         6,851,912,93         6,053,646,951         1,321,208         20,01,128,55         20,01,128,55         20,01,128,55         20,000,00         77,810		Month	Month	Year to Date	Year to Date	Percent
Operating Revenues: (Sch D p. 11)         \$2,082,018.94         \$1,864,067.44         \$15,604,822.26         \$14,099,007.90         1           Base Revenue         3,149,834.16         2,656,333.87         20,279,370.80         20,282,310.51         (C)           Purchased Power Capacity         2,904,975.54         2,075,758.47         20,739,370.80         20,282,310.51         (C)           Forfeited Discounts         76,354.02         68,040.93         533,228.80         473,822.61         1           Energy Conservation Revenue         55,706.82         47,810.39         406,649.34         399,434.44           NYPA Credit         (121,364.18)         (108,747.38)         (655,911.36)         (629,549.39)           Total Operating Revenues         8,147,525.30         6,603,263.72         56,904,081.91         52,123,220.88           Operating Expenses: (Sch E p. 12)         1         1,513,015.67         1.691,412.49         11,785,879.65         11,083,628.14           Purchased Power Transmission         1,019,499.88         873,183.82         8,110,789.47         7,686,115.05           Purchased Power Fuel         2,911,543.18         3,163,761.69         20,087,288.22         1,019,051.42         (4           Operating         1,267,600.09         778,110.02         6,851,293.93		Current Year	Last Year	Current Year	Last Year	Change
Fuel Revenue       3,149,834.16       2,656,333.87       20,279,370.80       20,282,310.51       (C         Purchased Power Capacity       2,904,975.54       20,775,758.47       20,735,924.07       17,498,194.81       1         Forfieted Discounts       55,706.82       47,810.39       406,649.34       399,434.44         NYPA Credit       (121,364.18)       (108,747.38)       (655,911.36)       (629,549.39)         Total Operating Revenues       8,147,525.30       6,603,263.72       56,904,081.91       52,123,220.88         Operating Expenses: (Sch E p. 12)       1,019,499.88       873,183.82       8,110,789.47       7,686,115.05         Purchased Power Capacity       1,019,499.88       873,183.82       8,110,789.47       7,686,115.05         Purchased Power Fuel       2,911,543.18       3,163,761.69       20,087,288.22       21,019,051.42       (4         Operating       1,267,600.09       778,110.02       6,851,293.93       6,053,846.95       1         Maintenance       360,664.60       235,465.37       2,166,974.04       1,732,112.83       2         Depreciation       341,775.67       328,732.65       2,392,429.69       2,301,128.55       Voluntary Payments to Towns       118,000.00       821,372.00       814,973.00         Total	Operating Revenues: (Sch D p. 11)					
Purchased Power Capacity         2,904,975.54         2,075,758.47         20,735,924.07         17,498,194.81         1           Forfeited Discounts         76,354.02         66,040.93         533,226.80         473,822.61         1           Energy Conservation Revenue         55,706.82         47,810.39         406.649.34         399,434.44           NYPA Credit         (121,364.18)         (108,747.38)         (655,911.36)         (629,549.39)           Total Operating Revenues         8,147,525.30         6,603,263.72         56,904,081.91         52,123,220.88           Operating Expenses: (Sch E p. 12)         Purchased Power Capacity         1,513,015.67         1,691,412.49         11,785,879.65         11,083,628.14           Purchased Power Transmission         1,019,499.88         373,183.82         8,110,799.47         7,686,115.05         6           Purchased Power Fuel         2,911,543.18         3,63,761.69         2,910,901.42         1,732,112.83         2           Depreciation         341,775.67         326,732.65         2,392.429.69         2,301,128.55         2,392.429.69         2,301,128.55           Voluntary Payments to Towns         118,000.00         181,000.00         821,372.00         814,973.00           Total Operating Expenses)         7,532,099.09         7,188,	Base Revenue	\$2,082,018.94	\$1,864,067.44	\$15,604,822.26	\$14,099,007.90	10.7%
Purchased Power Capacity         2.904.975.54         2.075,758.47         20,735,924.07         17,498,194.81         1           Forfeited Discounts         76,354.02         68,040.93         533,226.80         473,822.61         1           Energy Conservation Revenue         55,706.82         47,810.39         406.649.34         399,434.44           NYPA Credit         (121,364.18)         (108,747.38)         (655,911.36)         (629,549.39)           Total Operating Revenues         8,147,525.30         6,603,263.72         56,904,081.91         52,123,220.88           Operating Expenses: (Sch E p. 12)         1,513,015.67         1,691,412.49         11,785,879.65         11,083,628.14           Purchased Power Capacity         1,513,015.67         1,691,412.49         11,785,879.65         11,083,628.14           Purchased Power Transmission         1,019,499.88         873,183.82         8,110,789.47         7,686,115.05           Purchased Power Fuel         2,911,543.18         3,163,761.69         20,067,288.22         1,019,051.42         (4           Operating         1,267,600.09         778,110.02         6,851,293.93         6,053,646.95         1           Maintenance         360,664.60         235,485.37         2,166,974.04         1,732,112.83         2	Fuel Revenue	3,149,834.16	2,656,333.87	20,279,370.80	20,282,310.51	(0.0%)
Forfeited Discounts         76.354.02         68.04.03         533.226.80         473.822.61         1           Energy Conservation Revenue         55.706.82         47,810.39         4006,649.34         399.434.44           NYPA Credit         (121.364.18)         (108,747.38)         (655,911.36)         (629,549.39)           Total Operating Revenues         8,147,525.30         6,603.263.72         56,904,081.91         52,123,220.88           Operating Expenses:         (SE E p. 12)         1.513.015.67         1.691.412.49         11.785.879.65         11,083,628.14           Purchased Power Capacity         1.513.015.67         1.691.412.49         11.785.879.65         10.083,628.14           Purchased Power Transmission         1.019.499.88         873.183.82         8,110.789.47         7,686,115.05           Purchased Power Fuel         2.911.543.18         3.163.761.69         20.087,288.22         21.019.051.42         (4           Operating         1.267.600.09         778.110.02         6.851.293.93         6.053.646.95         1           Maintenance         360.664.60         235.485.37         2.166.974.04         1.732.112.83         2           Depreciation         341.775.67         328.732.65         2.392.429.69         2.301.128.55           Voluntary	Purchased Power Capacity	2,904,975.54	2,075,758.47			18.5%
Energy Conservation Revenue         55,706.82         47,810.39         406,649.34         399,434.44           NYPA Credit         (121,364.18)         (108,747.38)         (655,911.36)         (629,549.39)           Total Operating Revenues         8,147,525.30         6,603,263.72         56,904,081.91         52,123,220.88           Operating Expenses:         (Sch E p. 12)         1.513,015.67         1.691,412.49         11,785,879.65         11,083,628.14           Purchased Power Capacity         1.513,015.67         1.691,412.49         11,785,879.65         11,083,628.14           Purchased Power Transmission         1,019,499.88         873,183.82         8,110,789.47         7,686,115.05           Purchased Power Fuel         2.911,543.18         3,163,761.69         20,087,288.22         21,019,051.42         (4           Operating         1,267,600.09         778,110.02         6,851,293.93         6,053,646.95         1           Maintenance         360,664.60         235,485.37         2,166,974.04         1,732,112.83         2           Depreciation         341,775.67         328,732.65         2,392,429.69         2,301,128.55           Voluntary Payments to Towns         118,000.00         118,000.00         821,372.00         50,690,655.94           Operating Reve	Forfeited Discounts	76,354.02	68,040.93			12.5%
NYPA Credit         (121,364.18)         (108,747.38)         (655,911.36)         (629,549.39)           Total Operating Revenues         8,147,525.30         6,603,263.72         56,904,081.91         52,123,220.88           Operating Expenses: (Sch E p. 12)         Purchased Power Capacity         1,513,015.67         1,691,412.49         11,785,879.65         11,083,628.14           Purchased Power Transmission         1,019,499.88         87,183.82         8,110,789.47         7,686,115.05           Purchased Power Fuel         2,911,543.18         3,163,761.69         20,087,288.22         21,019,051.42         (4           Operating         1,267,600.09         778,110.02         6,851,293.93         6,053,646.95         1           Maintenance         360,664.60         235,485.37         2,166,974.04         1,732,112.83         2           Depreciation         341,775.67         328,732.65         2,392,429.69         2,301,128.55         Voluntary Payments to Towns         118,000.00         821,372.00         814,973.00           Total Operating Revenues (Expenses)         Contribution in Aid of Construction         (198,722.33)         (197,537.08)         (1,391,056.33)         (1,382,759.58)           Operating Revenues (Expenses)         (182.39)         (1,156.02)         (3,108.30)         (2,243.03)	Energy Conservation Revenue	55,706.82	47,810.39	406,649.34		1.8%
Operating Expenses: (Sch E p. 12)         Purchased Power Capacity       1,513,015.67       1,691,412.49       11,785,879.65       11,083,628.14         Purchased Power Transmission       1,019,499.88       873,183.82       8,110,789.47       7,686,115.05         Purchased Power Fuel       2,911,543.18       3,163,761.69       20,087,288.22       21,019,051.42       (4         Operating       1,267,600.09       778,110.02       6,851,293.93       6,053,646.95       1         Depreciation       341,775.67       328,732.65       2,392,429.69       2,301,128.55       2         Voluntary Payments to Towns       118,000.00       118,000.00       821,372.00       814,973.00         Total Operating Expenses       7,532,099.09       7,188,686.04       52,216,027.00       50,690,655.94         Operating Income       615,426.21       (585,422.32)       4,688,054.91       1,432,564.94       22         Non Operating Revenues (Expenses)       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)       1         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33       1         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other	NYPA Credit	(121,364.18)	(108,747.38)	(655,911.36)	(629,549.39)	4.2%
Purchased Power Capacity       1,513,015.67       1,691,412.49       11,785,879.65       11,083,628.14         Purchased Power Transmission       1,019,499.88       873,183.82       8,110,789.47       7,686,115.05         Purchased Power Fuel       2,911,543.18       3,163,761.69       20,087,288.22       21,019,051.42       (4         Operating       360,664.60       235,485.37       2,166,974.04       1,732,112.83       2         Depreciation       341,775.67       328,732.65       2,392,429.69       2,301,128.55         Voluntary Payments to Towns       118,000.00       118,000.00       821,372.00       814,973.00         Total Operating Expenses       7,532,099.09       7,188,686.04       52,216,027.00       50,690,655.94         Operating Income       615,426.21       (585,422.32)       4,688,054.91       1,432,564.94       22         Non Operating Revenues (Expenses)       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63	Total Operating Revenues	8,147,525.30	6,603,263.72	56,904,081.91	52,123,220.88	9.2%
Purchased Power Transmission         1,019,499.88         873,183.82         8,110,789.47         7,686,115.05           Purchased Power Fuel         2,911,543.18         3,163,761.69         20,087,288.22         21,019,051.42         (z           Operating         1,267,600.09         778,110.02         6,851,293.93         6,053,646.95         1           Maintenance         360,664.60         235,485.37         2,166,974.04         1,732,112.83         2           Depreciation         341,775.67         328,732.65         2,392,429.69         2,301,128.55         Voluntary Payments to Towns         118,000.00         118,000.00         821,372.00         814,973.00           Total Operating Expenses         7,532,099.09         7,188,686.04         52,216,027.00         50,690,655.94           Operating Income         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         (198,722.33)         (197,537.08)         (1,391,056.33)         (1,382,759.58)           Interest Income         (182.39)         (1,156.02)         (3,108.30)         (2,243.03)         3           Other         202,725.97         205,484.04         458,880.70         392,658.63         1           Total Non Operating Revenues (E	Operating Expenses: (Sch E p. 12)					
Purchased Power Transmission       1,019,499.88       873,183.82       8,110,789.47       7,686,115.05         Purchased Power Fuel       2,911,543.18       3,163,761.69       20,087,288.22       21,019,051.42       (4         Operating       1,267,600.09       778,110.02       6,851,293.93       6,053,646.95       1         Maintenance       360,664.60       235,485.37       2,166,974.04       1,732,112.83       2         Depreciation       341,775.67       328,732.65       2,392,429.69       2,301,128.55         Voluntary Payments to Towns       118,000.00       118,000.00       821,372.00       814,973.00         Total Operating Expenses       7,532,099.09       7,188,686.04       52,216,027.00       50,690,655.94         Operating Income       615,426.21       (585,422.32)       4,688,054.91       1,432,564.94       22         Non Operating Revenues (Expenses)       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33       1         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63	Purchased Power Capacity	1,513,015.67	1,691,412.49	11,785,879.65	11,083,628,14	6.3%
Purchased Power Fuel       2,911,543.18       3,163,761.69       20,087,288.22       21,019,051.42       (4         Operating       1,267,600.09       778,110.02       6,851,293.93       6,053,646.95       1         Maintenance       360,664.60       235,485.37       2,166,974.04       1,732,112.83       2         Depreciation       341,775.67       328,732.65       2,392,429.69       2,301,128.55         Voluntary Payments to Towns       118,000.00       118,000.00       821,372.00       814,973.00         Total Operating Expenses       7,532,099.09       7,188,686.04       52,216,027.00       50,690,655.94         Operating Income       615,426.21       (585,422.32)       4,688,054.91       1,432,564.94       22         Non Operating Revenues (Expenses)       615,426.21       (585,422.32)       4,688,054.91       1,432,564.94       22         Non Operating Revenues (Expenses)       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63 <td>Purchased Power Transmission</td> <td>1,019,499.88</td> <td>873,183.82</td> <td>8,110,789.47</td> <td></td> <td>5.5%</td>	Purchased Power Transmission	1,019,499.88	873,183.82	8,110,789.47		5.5%
Operating         1,267,600.09         778,110.02         6,851,293.93         6,053,646.95         1           Maintenance         360,664.60         235,485.37         2,166,974.04         1,732,112.83         2           Depreciation         341,775.67         328,732.65         2,392,429.69         2,301,128.55           Voluntary Payments to Towns         118,000.00         118,000.00         821,372.00         814,973.00           Total Operating Expenses         7,532,099.09         7,188,686.04         52,216,027.00         50,690,655.94           Operating Income         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         (198,722.33)         (197,537.08)         (1,391,056.33)         (1,382,759.58)           Interest Income         11,645.97         10,131.95         85,118.76         79,246.33           Interest Expense         (182.39)         (1,156.02)         (3,108.30)         (2,243.03)         3           Other         202,725.97         205,484.04         458,880.70         392,658.63         1           Total Non Operating Revenues (Expenses)         15,467.22         16,922.89         (850,165.17)         (913,097.65)         (6           Change in Net Assets <td>Purchased Power Fuel</td> <td></td> <td></td> <td></td> <td></td> <td>(4.4%)</td>	Purchased Power Fuel					(4.4%)
Maintenance       360,664,60       235,485,37       2,166,974,04       1,732,112,83       2         Depreciation       341,775,67       328,732,65       2,392,429,69       2,301,128,55       2         Voluntary Payments to Towns       118,000.00       118,000.00       821,372.00       814,973.00         Total Operating Expenses       7,532,099.09       7,188,686.04       52,216,027.00       50,690,655.94         Operating Income       615,426.21       (585,422.32)       4,688,054.91       1,432,564.94       22         Non Operating Revenues (Expenses)       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33       1         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63	Operating	1,267,600.09				13.2%
Depreciation         341,775.67         328,732.65         2,392,429.69         2,301,128.55           Voluntary Payments to Towns         118,000.00         118,000.00         821,372.00         814,973.00           Total Operating Expenses         7,532,099.09         7,188,686.04         52,216,027.00         50,690,655.94           Operating Income         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         Contribution in Aid of Construction         (198,722.33)         (197,537.08)         (1,391,056.33)         (1,382,759.58)           Interest Income         11,645.97         10,131.95         85,118.76         79,246.33           Interest Expense         (182.39)         (1,156.02)         (3,108.30)         (2,243.03)         3           Other         202,725.97         205,484.04         458,880.70         392,658.63         1           Total Non Operating Revenues (Expenses)         15,467.22         16,922.89         (850,165.17)         (913,097.65)         (6           Change in Net Assets         630,893.43         (568,499.43)         3,837,889.74         519,467.29         63		360,664.60				25.1%
Voluntary Payments to Towns         118,000.00         118,000.00         821,372.00         814,973.00           Total Operating Expenses         7,532,099.09         7,188,686.04         52,216,027.00         50,690,655.94           Operating Income         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         (198,722.33)         (197,537.08)         (1,391,056.33)         (1,382,759.58)           Interest Income         11,645.97         10,131.95         85,118.76         79,246.33           Interest Expense         (182.39)         (1,156.02)         (3,108.30)         (2,243.03)         3           Other         202,725.97         205,484.04         458,880.70         392,658.63         1           Total Non Operating Revenues (Expenses)         15,467.22         16,922.89         (850,165.17) <td< td=""><td>Depreciation</td><td>341,775.67</td><td></td><td></td><td></td><td>4.0%</td></td<>	Depreciation	341,775.67				4.0%
Operating Income         615,426.21         (585,422.32)         4,688,054.91         1,432,564.94         22           Non Operating Revenues (Expenses)         Contribution in Aid of Construction         (198,722.33)         (197,537.08)         (1,391,056.33)         (1,382,759.58)           Interest Income         11,645.97         10,131.95         85,118.76         79,246.33           Interest Expense         (182.39)         (1,156.02)         (3,108.30)         (2,243.03)         3           Other         202,725.97         205,484.04         458,880.70         392,658.63         1           Total Non Operating Revenues (Expenses)         15,467.22         16,922.89         (850,165.17)         (913,097.65)         (6           Change in Net Assets         630,893.43         (568,499.43)         3,837,889.74         519,467.29         63	Voluntary Payments to Towns					0.8%
Non Operating Revenues (Expenses)         Contribution in Aid of Construction         Return on Investment to Reading       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63	Total Operating Expenses	7,532,099.09	7,188,686.04	52,216,027.00	50,690,655.94	3.0%
Contribution in Aid of Construction       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63	Operating Income	615,426.21	(585,422.32)	4,688,054.91	1,432,564.94	227.2%
Return on Investment to Reading       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63	Non Operating Revenues (Expenses)					
Return on Investment to Reading       (198,722.33)       (197,537.08)       (1,391,056.33)       (1,382,759.58)         Interest Income       11,645.97       10,131.95       85,118.76       79,246.33         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63	Contribution in Aid of Construction					
Interest Income       11,645.97       10,131.95       85,118.76       79,246.33         Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63		(198.722.33)	(197.537.08)	(1,391,056,33)	(1.382 759 58)	0.6%
Interest Expense       (182.39)       (1,156.02)       (3,108.30)       (2,243.03)       3         Other       202,725.97       205,484.04       458,880.70       392,658.63       1         Total Non Operating Revenues (Expenses)       15,467.22       16,922.89       (850,165.17)       (913,097.65)       (6         Change in Net Assets       630,893.43       (568,499.43)       3,837,889.74       519,467.29       63			· · · /			7.4%
Other         202,725.97         205,484.04         458,880.70         392,658.63         1           Total Non Operating Revenues (Expenses)         15,467.22         16,922.89         (850,165.17)         (913,097.65)         (6           Change in Net Assets         630,893.43         (568,499.43)         3,837,889.74         519,467.29         63	Interest Expense		12 Prode Spacery Laborationers	the second		38.6%
Change in Net Assets 630,893.43 (568,499.43) 3,837,889.74 519,467.29 63						16.9%
	Total Non Operating Revenues (Expenses)	15,467.22	16,922.89	(850,165.17)	(913,097.65)	(6.9%)
Net Assets at Beginning of Year 104,814,487.24 101,445,083.23 104,814,487.24 101,445,083.23	Change in Net Assets	630,893.43	(568,499.43)	3,837,889.74	519,467.29	638.8%
	Net Assets at Beginning of Year	104,814,487.24	101,445,083.23	104,814,487.24	101,445,083.23	3.3%
Ending Net Assets 105,445,380.67 100,876,583.80 108,652,376.98 101,964,550.52	Ending Net Assets	105,445,380.67	100,876,583.80	108,652,376.98	101,964,550,52	6.6%

#### Town of Reading, Massachusetts Municipal Light Department Business Type Proprietary Fund Statement of Revenues, Expenses and Changes in Fund Net Assets 1/31/2017

	Month Current Year	Month Last Year	Year to Date Current Year	Year to Date Last Year	Percent
Operating Revenues	Guilent Tear	Last Teal	Current real	Last fear	Change
Base Revenue	\$2,082,018.94	\$1,864,067.44	\$15,604,822.26	\$14,099,007.90	10.7%
Fuel Revenue Purchased Power Capacity	3,149,834.16 2,904,975.54	2,656,333.87 2,075,758.47	20,279,370.80	20,282,310.51	(0.0%)
Forfeited Discounts	76,354.02	68,040.93	20,735,924.07 533,226.80	17,498,194.81 473,822.61	18.5% 12.5%
Energy Conservation Revenue	55,706.82	47,810.39	406,649.34	399,434.44	1.8%
NYPA Credit Total Operating Revenues	(121,364.18) 8,147,525.30	(108,747.38) 6,603,263.72	(655,911.36) 56,904,081.91	(629,549.39) 52,123,220.88	4.2% 9.2%
Expenses					01270
Power Expenes:					
Purchased Power Capacity	1,513,015.67	1,691,412,49	11,785,879.65	11,083,628.14	6.3%
Purchased Power Transamission	1,019,499.88	873,183.82	8,110,789.47	7,686,115.05	5.5%
Total Purchased Power	2,532,515.55	2,564,596.31	19,896,669.12	18,769,743.19	6.0%
Operations Expenses:					
Operation Supervision and Engineering	4,015.60	44,754.63	232,633.51	317,019.40	(26.6%)
Station Supervison Labor and Misc Expense Line Miscellaneous Labor and Expense	13,099.46 66,244.90	13,167.24 29,845.60	81,764.82 376,950.96	88,712.54 411,409.43	(7.8%)
Station Labor and Expense	32,181.22	30,836.07	283,064.57	232,823.80	(8.4%) 21.6%
Street Lighting Expense	8,323.09	13,381.99	70,691.69	70,515.07	0.3%
Meter Expense	21,408.05	19,008.17	123,314.04	130,138.17	(5.2%)
Miscellaneous Distribution Expense	43,161.34	38,932.31	256,925.41	258,409.61	(0.6%)
Meter Reading Labor and Expense Accounting and Collection Labor and Expense	3,026.87 84,708.69	1,924.89 122,199.73	16,062.35 946,694.65	16,444.63 963,408.88	(2.3%) (1.7%)
Uncollectible Accounts	12,500.00	10,000.00	87,500.00	70,000.00	25.0%
Energy Audit Expense	46,224.35	55,715.28	289,026.29	330,721.86	(12.6%)
Administrative and General Salaries	76,169.73	69,962.35	553,552.59	514,887.61	7.5%
Office Supplies and Expense Outside Services	7,700.59 (41,380.76)	30,608.74 10,530.85	158,803.42	188,549.60	(15.8%)
Property Insurance	7,184.86	30,594.30	296,093.84 173,471.16	191,653.85 218,048.71	54.5% (20.4%)
Injuries and Damages	9,233.24	3,627.56	35,995.54	28,173.88	27.8%
Employee Pensions and Benefits	762,737.55	193,472.01	2,283,236.68	1,593,232.94	43.3%
Miscellaneous General Expense	11,742.36	10,263.60	85,161.52	88,964.21	(4.3%)
Rent Expense Energy Conservation	16,398.29 82,920.66	14,385.08 34,899.62	100,569.81 399,781.08	100,135.81 240,396.95	0.4% 66.3%
Total Operations Expenses	1,267,600.09	778,110.02	6,851,293.93	6,053,646.95	13.2%
Maintenance Expenses:					
Transmission Plant	(6,268.92)	227.08	3,213.58	1,589.58	102.2%
Structures and Equipment	36,771.69	41,190.66	273,861.81	217,441.42	25.9%
Lines - Overhead	231,710.44	125,439.45	1,130,871.43	969,092.22	16.7%
Lines - Underground Line Transformers	35,755.43 1,725.00	4,704.68 7,752.67	189,480.78 20,112.89	68,899,79 87,669,33	175.0%
Street Lights and Signal Systems	(10.87)	(44.05)	70,089.24	(368.90)	(77.1%)
Garage and Stockroom	47,655.24	44,240.70	297,081.86	313,151.87	(5.1%)
Meters General Plant	13,326.59	11,974.18	182,262.45	74,637.52	144.2%
Total Maintenance Expenses	360,664.60	235,485.37	2,166,974.04	1,732,112.83	25.1%
Other Operating Expenses:					
Depreciation	341,775.67	328,732.65	2,392,429.69	2,301,128.55	4.0%
Purchased Power Fuel Expense	2,911,543.18	3,163,761.69	20 087 288.22	21,019,051.42	(4.4%)
Voluntary Payments to Towns Total Other Expenses	118,000.00 3,371,318.85	118,000.00 3,610,494.34	821,372.00 23,301,089.91	814,973.00 24,135,152.97	0.8%
Operating Income	615,426.21	(585,422.32)	4.688.054.91	1,432,564.94	227.2%
Non Operating Revenues (Expenses):	010,120.21	(000,122.02)	4,000,004.01	1,402,004.04	221.270
Contribution in Aid of Construction					
Return on Investment to Reading	(198,722.33)	(197,537.08)	(1,391,056.33)	(1,382,759.58)	0.6%
Interest Income	11,645.97	10,131.95	85,118.76	79,246.33	7.4%
Interest Expense	(182.39)	(1,156.02)	(3,108.30)	(2,243.03)	38.6%
Other	202,725.97	205,484.04	458,880.70	392,658.63	16.9%
Total Non Operating Revenues (Expenses)	15,467.22	16,922.89	(850,165.17)	(913,097.65)	(6.9%)
Change in Net Assets	630,893.43	(568,499.43)	3,837,889.74	519,467.29	638.8%
Net Assets at Beginning of Year	104,814,487.24	101,445,083.23	104,814,487.24	101,445,083.23	3.3%
Ending Net Assets	105,445,380.67	100,876,583.80	108,652,376.98	101,964,550.52	6.6%

\* New project started this fiscal year

0

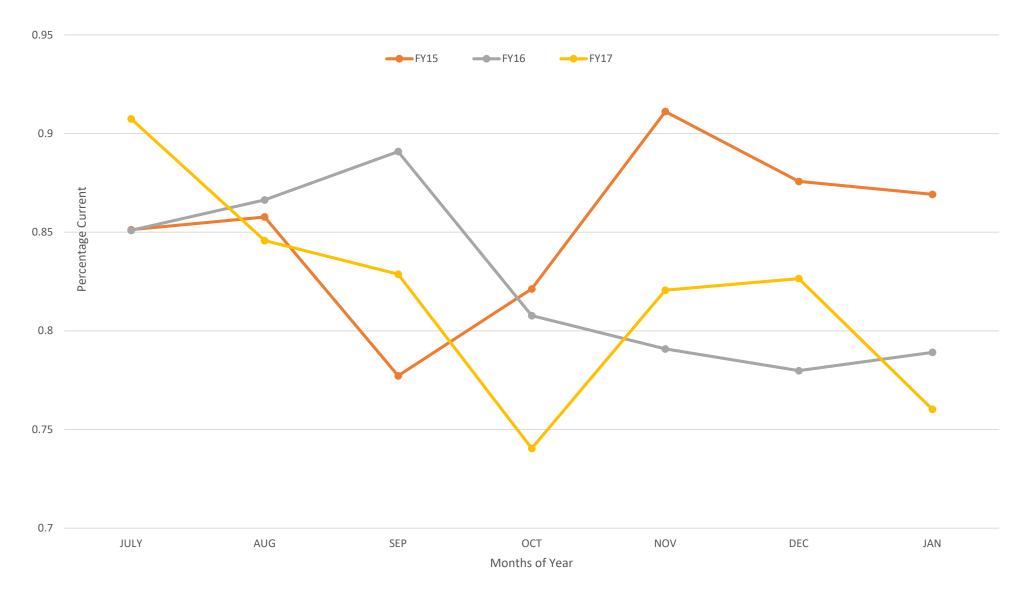
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## Town of Reading, Massachusetts Municipal Light Department Business Type Proprietary Fund Statement of Revenues, Expenses and Changes in Fund Net Assets 1/31/2017

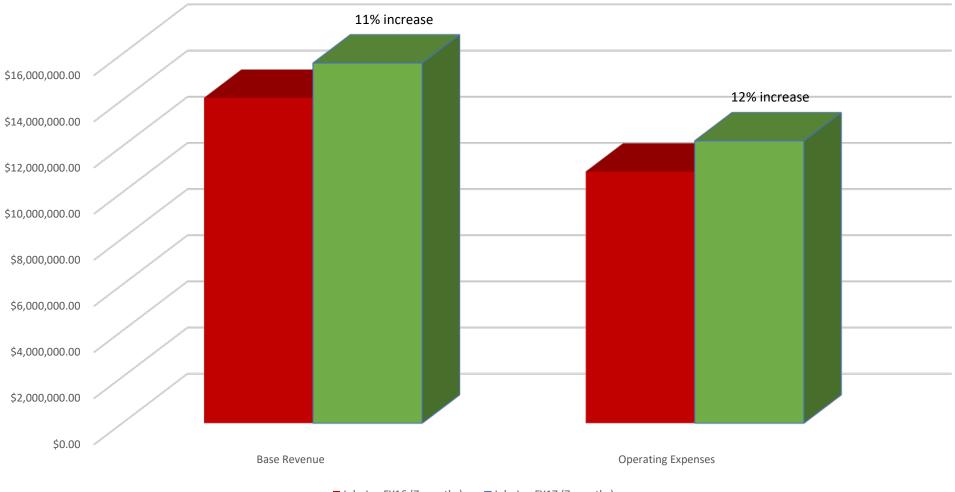
	Bus	siness Type Proprie	tany Fund			
A.	Statement of Revenues, Expenses and Changes in Fund Net Assets					
		1/31/2017				
	Actual	Budget	Remaining	Remaining		
Operating Revenues	Year to Date	Full Year	Budget	Budget %		
Base Revenue	\$15,604,822.26	\$25,500,000.00	\$9,895,177.74	38.8		
Fuel Revenue	20,279,370.80	34,074,492.00	13,795,121.20	40.5		
Purchased Power Capacity	20,735,924.07	34,322,278.00	13,586,353.93	39.6		
Forfeited Discounts	533,226.80	688,500.00	155,273.20	22.6		
Energy Conservation Revenue	406,649.34	673,000.00	266,350.66	39.6		
NYPA Credit	(655,911.36)	(900,000.00)	(244,088.64)	27.1		
Total Operating Revenues	56,904,081.91	94,358,270.00	37,454,188.09	39.7		
Expenses						
Power Expenes:						
Purchased Power Capacity	11,785,879.65	20,943,651.00	9,157,771.35	43.7		
Purchased Power Transamission	8,110,789.47	13,378,627.00	5,267,837.53	39.4		
Total Purchased Power	19,896,669.12	34,322,278.00	14,425,608.88	42.0		
Operations Expenses:						
Operation Supervision and Engineering	232,633.51	655,196.00	422,562.49	64.5		
Station Supervison Labor and Miscellaneou		A. A				
Expense	81,764.82	91,269.00	9,504.18	10.4		
Line Miscellaneous Labor and Expense	376,950.96	901,213.00	524,262.04	58.2		
Station Labor and Expense	283,064.57	472,879.00	189,814.43	40.1		
Street Lighting Expense	70,691.69	102,402.00	31,710.31	31.0		
Meter Expense	123,314.04	205,717.00	82,402.96	40.1		
Miscellaneous Distribution Expense	256,925.41	464,418.00	207,492.59	44.7		
Meter Reading Labor and Expense	16,062.35	32,641.00	16,578.65	50.8		
Accounting and Collection Labor and Expe		1,792,724.00	846,029.35	47.2		
Uncollectible Accounts	87,500.00	150,000.00	62,500.00	41.7		
Energy Audit Expense	289,026.29	630,232.00	341,205.71	54.1		
Administrative and General Salaries	553,552.59	1,134,674.00	581,121.41	51.2		
Office Supplies and Expense	158,803.42	349,000.00	190,196.58	54.5		
Outside Services	296,093.84	418,100.00	122,006.16	29.2		
Property Insurance	173,471.16	424,500.00	251,028.84	59.1		
Injuries and Damages	35,995.54	57,215.00	21,219.46	37.1		
Employee Pensions and Benefits	2,283,236.68	2,922,673.00	639,436.32	21.9		
Miscellaneous General Expense	85,161.52	217,956.00	132,794.48	60.9		
Rent Expense	100,569.81	212,000.00	111,430.19	52.6		
Energy Conservation Total Operations Expenses	<u>399,781.08</u> 6,851,293.93	871,575.00	471,793.92	54.1		
	0,001,200.00	12,100,004.00	5,255,090.07	43.4		
Maintenance Expenses:	0.040.50	0.000.00	(0.10.50)	-		
Transmission Plant	3,213.58	3,000.00	(213.58)	(7.1		
Structures and Equipment	273,861.81	414,599.00	140,737.19	33.9		
Lines - Overnead	1,130,871.43	2,044,499.00	913,627.57	44.7		
Lines - Underground	189,480.78	125,066.00	(64,414.78)	(51.5		
Line Transformers	20,112.89	300,000.00	279,887.11	93.3		
Street Lights and Signal Systems	70,089.24	10,287.00	(59,802.24)	(581.3		
Garage and Stockroom	297,081.86	590,523.00	293,441.14	49.7		
Meters Concret Plant	100 000 45	44,658.00	44,658.00	100.0		
General Plant Total Maintenance Expenses	<u>182,262.45</u> 2,166,974.04	180,000.00 3,712,632.00	(2,262.45) 1,545,657.96	(1.3		
Other Operating Expenses:						
Depreciation	2,392,429.69	4,134,000.00	1,741,570.31	42.1		
Purchased Power Fuel Expense	20,087,288.22	33,174,492.00	13,087,203.78	39.4		
Voluntary Payments to Towns	821,372.00	1,445,420.00	624,048.00	43.2		
voluntary rayments to rowins	23,301,089.91	38,753,912.00	15,452,822.09	39.9		
Total Other Expenses		00,000,012.00				
Total Otner Expenses	4,688,054.91	5,463,064.00	775,009.09	14.2		
Total Otner Expenses Operating Income			775,009.09	14.2		
Total Other Expenses Operating Income Non Operating Revenues (Expenses): Contribution in Aid of Construction	4,688,054.91	5,463,064.00	150,000.00	100.0		
Total Otner Expenses Operating Income Non Operating Revenues (Expenses): Contribution in Aid of Construction Return on Investment to Reading	4,688,054.91 (1.391,056.33)	5,463,064.00 150,000.00 (2,534,668.00)	150,000.00 (1,143,611.67)	100.0 45.1		
Total Other Expenses Operating Income Non Operating Revenues (Expenses): Contribution in Aid of Construction Return on Investment to Reading Interest Income	4,688,054.91 (1,391,056.33) 85,118.76	5,463,064.00 150,000.00 (2,534,668.00) 125,000.00	150,000.00 (1,143,611.67) 39,881.24	100.0 45.1 31.9		
Total Other Expenses Operating Income Non Operating Revenues (Expenses): Contribution in Aid of Construction Return on Investment to Reading Interest Income Interest Expense	4,688,054.91 (1,391,056,33) 85,118.76 (3,108,30)	5,463,064.00 150,000.00 (2,534,668.00) 125,000.00 (2,100.00)	150,000.00 (1,143,611.67) 39,881.24 1,008.30	100.0 45.1 31.9 (48.0		
Total Other Expenses Operating Income Non Operating Revenues (Expenses): Contribution in Aid of Construction Return on Investment to Reading Interest Income	4,688,054.91 (1,391,056.33) 85,118.76	5,463,064.00 150,000.00 (2,534,668.00) 125,000.00	150,000.00 (1,143,611.67) 39,881.24	100.0 45.1 31.9 (48.0		
Total Other Expenses Operating Income Non Operating Revenues (Expenses): Contribution in Aid of Construction Return on Investment to Reading Interest Income Interest Expense	4,688,054.91 (1,391,056.33) 85,118.76 (3,108.30) 458,880.70	5,463,064.00 150,000.00 (2,534,668.00) 125,000.00 (2,100.00)	150,000.00 (1,143,611.67) 39,881.24 1,008.30	14.2 100.0 45.1 31.9 (48.0) 38.0 44.1		

# FINANCIAL REPORT JANUARY 31, 2017

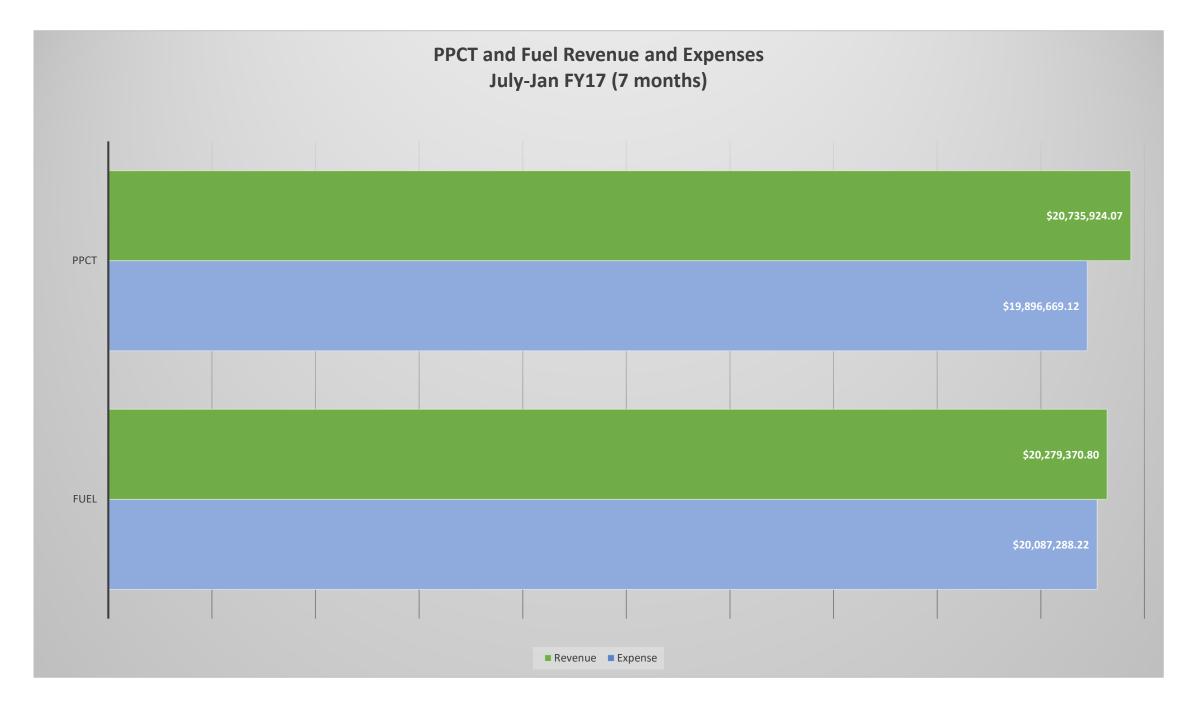
#### Accounts Receivable Aging by Months

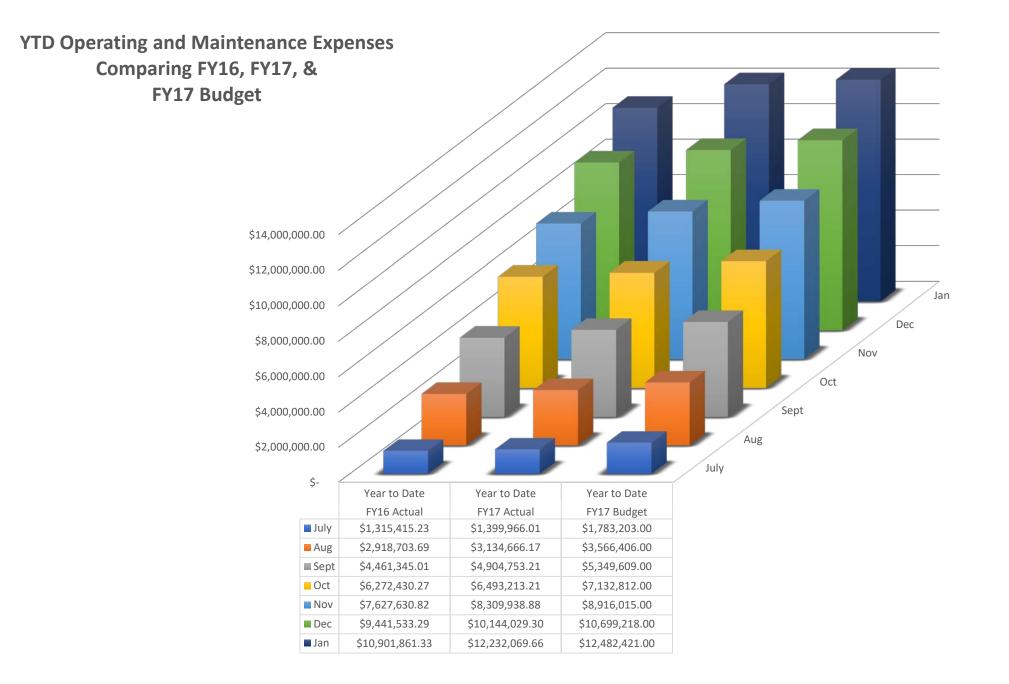


#### Base Revenue & Operating Expenses Comparison FY16 and FY17



■ July-Jan FY16 (7 months) ■ July-Jan FY17 (7 months)





## ENGINEERING & OPERATIONS REPORT JANUARY 2017 ATTACHMENT 3

#### READING MUNICIPAL LIGHT DEPARTMENT

#### FOR PERIOD ENDING JANUARY 2017

PROJ	DESCRIPTION	TOWN	ACTUAL COST	YTD ADDITIONS	ANNUAL BUDGET	REMAINING BALANCE
	CONSTRUCTION:					
106 107	Underground Facilities Upgrades (URD's, Manholes, etc) 13.8kV Upgrade (Step-down areas, etc.)	ALL ALL	1,934	264,915 4,909	149,965 105,748	(114,950) 100,839
	SUB-TOTAL	-	1,934	269,824	255,713	(14,111)
	STATION UPGRADES:					
108	Station 4 (GAW) Relay Replacement Project	R	864	102,709	48,904	- (53,805)
109	Station 4 35kV Potential Transformer Replacement	R	-	57	-	(57)
110	4W9 Getaway Replacement-Station 4	R		-	234,747	234,747
111 113	Substation Equipment Upgrade (all) Station 4 (GAW) Battery Bank Upgrade	ALL R		- 24,000	74,590 17,037	74,590
120	Station 4 - Relay/SCADA Integration for Bus A&B	R		24,000	70,308	(6,963) 46,047
130	Station 3 - Remote Terminal Unit (RTU) Replacement	NR		24,201	39,330	39,330
133	Station 3 - Relay Upgrades and SCADA Integration	NR	153,697	248,995	252,225	3,230
139	Station 5 - LTC Control Replacement	W	6,187	6,187	41,543	35,356
140	Substation Grounding Equipment Upgrade	ALL _		-	20,671	20,671
	SUB-TOTAL	_	160,748	406,209	799,355	393,146
	NEW CUSTOMER SERVICES:					
	New Service Installations (Commercial / Industrial)	ALL _	6,929	69,743	139,570	69,827
	SUB-TOTAL	-	6,929	69,743	139,570	69,827
	ROUTINE CONSTRUCTION:	ALL -	158,863	1,062,014	1,012,962	(49,052)
			· · · · ·			
	SPECIAL PROJECTS / CAPITAL PURCHASES:					
100	Distributed Gas Generation (Pilot FY16-17)	ALL	43,132	86,307	2,720,409	2,634,102
102	Padmount Switchgear Upgrade at Industrial Parks	W	2,286	2,286	194,518	192,232
103	Grid Modernization and Opitmization	ALL	79,693	204,032	284,000	79,968
105	New Wilmington Sub-Station	W		-	250,000	250,000
112	AMI Mesh Network Expansion	ALL	20,349	125,394	220,021	94,627
115 116	Fault Indicators	ALL ALL		1,340	25,000	23,660
117	Transformers and Capacitors Meter Purchases	ALL	12,096	9,102 28,236	668,000 80,000	658,898 51,764
125	GIS	ALL	134,595	134,595	360,000	225,405
126	Communication Equipment (Fiber Optic)	ALL	101,000	7,064	69,173	62,109
131	LED Street Light Implementation	ALL	61,737	430,271	804,070	373,799
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	-	353,888	1,042,896	5,784,379	4,741,483
	OTHER CAPITAL PROJECTS:					
96	Control Center Modifications	ALL		-	100,000	100,000
97	HVAC Roof Units - Garage	R		44,484	-	(44,484)
98	Carpet Upgrade	R		8,430	71,653	63,223
99	Electric Vehicle Supply Equipment	ALL		1,303	10,000	8,697
104	RMLD Lighting (LED) Upgrade	A1.1	22 606	- -	25,000	25,000
118 119	Rolling Stock Replacement Security Upgrades All Sites	ALL ALL	22,606	53,083 34,684	310,000 5,000	256,917 (29,684)
121	HVAC System Upgrade - 230 Ash Street	R	51,765	519,550	500,000	(19,550)
127	Hardware Upgrades	ALL	5,943	63,021	112,065	49,044
128	Software and Licensing	ALL	16,500	29,187	230,519	201,333
129	Master Facilities Site Plan	R		-	50,000	50,000
	SUB-TOTAL	-	96,814	753,741	1,414,237	660,496
	TOTAL CAPITAL BUDGE	т –	\$ 779,176	\$ 3,604,426	\$ 9,406,216	\$ 5,801,790
	TOTAL CAPITAL BUDGE		<i>y</i> 119,110	J,004,420	\$ 5,400,210	\$ 3,601,790

# Engineering & Operations Report

RMLD Board of Commissioners Meeting March 23, 2017 January 2017 Reporting Period

Hamid Jaffari, Director of Engineering & Operations

## **Capital Improvement Projects**

	Cons	truction Projects:	% Complete Status	DEC	YTD
	100	Distributed Gas Generator Pilot	15%	\$43,132	\$86,307
	106	Underground Facilities Upgrades (URDs, Manholes, etc.) - All Towns <ul> <li>Crestwood Road, North Reading</li> </ul>	On- going	\$1,934	\$264,916
	133	Station 3: Relay Upgrades and SCADA Integration	15%	\$153,697	\$248,995
	139	Station 5: LTC Control Replacement	20%	\$6,187	\$6,187
/	,	Service Installations – Residential and Commercial: This item includes new or upgraded overhead and underground services.	On- going	\$6,929	\$69,743
	103	Grid Modernization and Optimization	On- Going	\$79,693	\$204,032
	112	AMI Mesh Network Expansion	On- going	\$20,349	\$125,394
	117	Meter Purchases	n/a	\$12,096	\$28,236
	125	GIS	40%	\$134,594	\$134,594
	131	LED Street Light Conversion	61.5%	\$61,737	\$430,271

## **Routine Construction**

,		JAN	YTD
Pole	Setting/Transfers	\$44,577	\$203,275
Over	head/Underground	\$10,155	\$265,038
Proje	<ul> <li>ects Assigned as Required</li> <li>Solar Project 326 Ballardvale Street, Wilmington</li> <li>AT&amp;T Appl, Wilmington</li> <li>Lightower, 600 Research Drive, Wilmington</li> </ul>	\$19 <i>,</i> 059	\$133,271
Pole	Damage/Knockdowns - Some Reimbursable Work was done to repair or replace seven (7) poles.	\$15,190	\$76,286
Stati	on Group	\$59,789	\$168,019
Hazr	nat/Oil Spills	-	\$5,296
Porc	elain Cutout Replacement Program	-	-
Light	ing (Street Light Connections)	-	\$15,444
Stor	n Trouble	\$4,685	\$17,981
Und	erground Subdivisions (new construction)	-	\$45,828
Anin	nal Guard Installation	-	\$795
Misc	ellaneous Capital Costs	\$5,410	\$130,781
	TOTAL:	<u>\$158,863</u>	<u>\$1,062,014</u>

## **Routine Maintenance**

Transformer Replacement (through January 2017)

Pad mount 25.39% Overhead 16.08%

• Pole Inspection (as of 3/10/17)

219 poles have been replaced 123 of 219 transfers have been completed

Quarterly Inspection of Feeders (as of 3/10/17)

Inspected circuits (Jan-Mar): 3W5, 3W6, 3W7, 3W8, 3W13, 3W14, 3W15, 3W18, 4W4, 4W5, 4W6, 4W7, 4W9, 4W23, 4W24, 5W9, 4P9, 4P2

Manhole Inspection (through January 2017)

961 of 1,237 manholes have been inspected.

Porcelain Cutout Replacements (through January 2017)

91% complete 256 remaining to be replaced

### Tree Trimming

January: 105 spans trimmed YTD: 756 spans trimmed

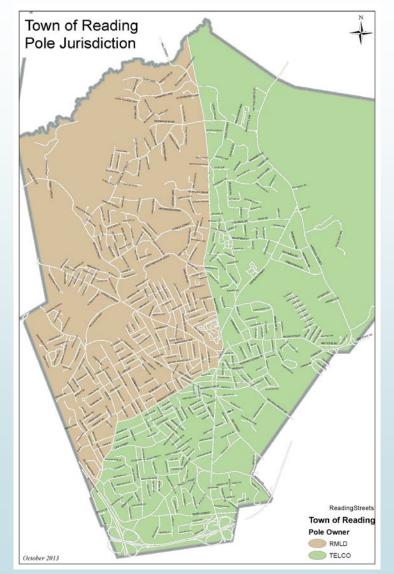
### Substation Maintenance

Infrared Scanning - January 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 March 11, 2017

READING

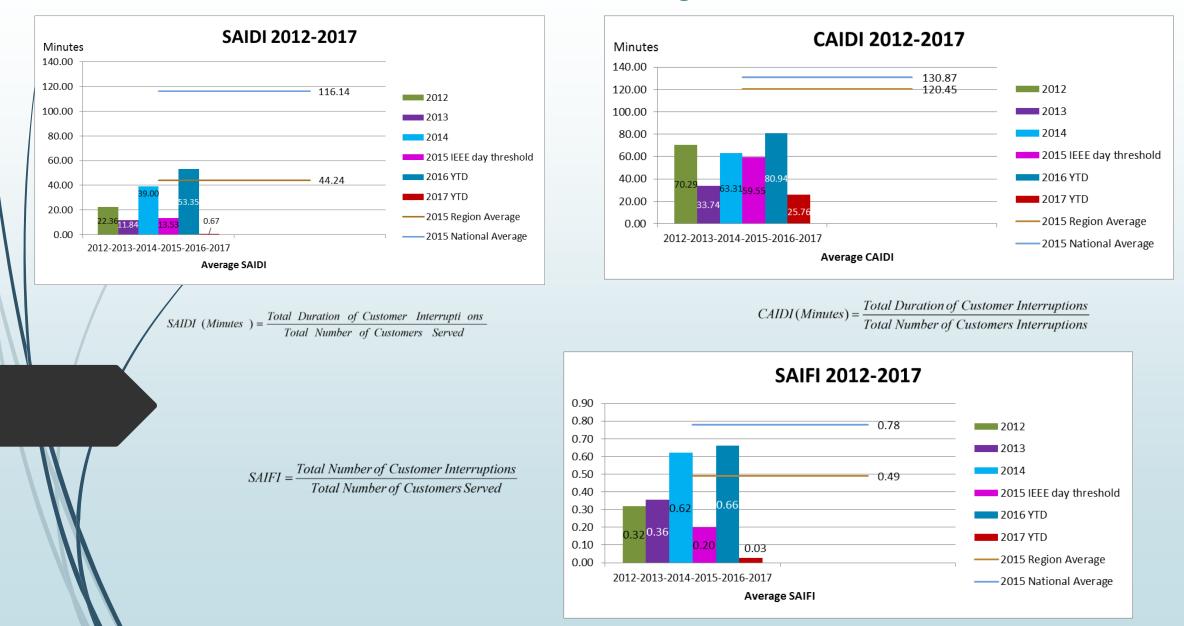
1		
LYNN	IFIELD	
		Count of Ticket
NTG M	lember and JobType	🗾 Number
∎u⊧⊔	FD	3
- 🛉 Ly	nnfield Fire Departmen	ıt 🖉
·	TRANSFER	3
	/	
⊟RML	D /	/ 1
🖗 Re	ading Municipal Light D	Department
	TRANSFER	1
VZN	ESA	14
l Ve	rizon	/
	TRANSFER	8
<b>N</b> 1		6
🖭 (blar	nk)	
Grand		18

NORTH READING	
	Count of
NTG Member and JobType	📑 Ticket
= CMCTNR	3
Comcast	
TRANSFER	3
- NGMA	1
🗉 National Grid	
TRANSFER	1
- NP3PMA	1
Non-participating 3rd Party Attach	ier -
🗉 Massachusetts	
TRANSFER	1
- NRDGFD	44
North Reading Fire Department	
TRANSFER	44
	121
🗆 Reading Municipal Light Departme	ent
TRANSFER	13
PULL POLE	108
	23
⊡Verizon	
TRANSFER	15
PULL POLE	8
🗄 (blank)	
Grand Total	193

	Count of
	Ticket
NTG Member and JobType	🕂 Number
	9
E Comcast	
TRANSFER	9
	1
🗉 Lightower Fiber Networks	
TRANSFER	1
	11
Non-participating 3rd Party Attach	her - Massachusetts
TRANSFER	11
	8
E Reading Fire Department	
TRANSFER	8
RMLD	50
E Reading Municipal Light Departm	
TRANSFER	23
PULL POLE	27
□VZNEDR	1
E Verizon	
TRANSFER	1
□VZNESA	111
E Verizon	
TRANSFER	107
PULL POLE	4
T (blank)	
Grand Total	191
	191

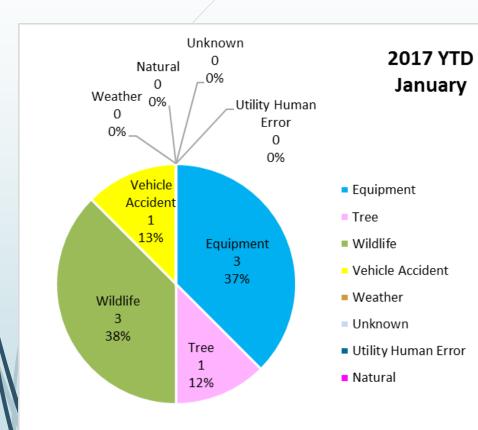
WILMINGTON	
	Count of
	Ticket
NTG Member and JobType	📑 Number
CMCTNR	3
🗏 Comcast	
TRANSFER	3
I NP3PMA	7
🗉 Non-participating 3rd Party Attac	her - Massachusetts
TRANSFER	7
	64
🗏 Reading Municipal Light Departn	nent
TRANSFER	59
PULL POLE	4
INSTL GUY	1
VZNEDR	71
🗆 Verizon	
TRANSFER	55
ATTACH	1
PULL POLE	15
WLMFIB	3
Town of Wilmington	
TRANSFER	3
WMGNFD	72
Wilmington Fire Department	
TRANSFER	72
🗄 (blank)	
Grand Total	220

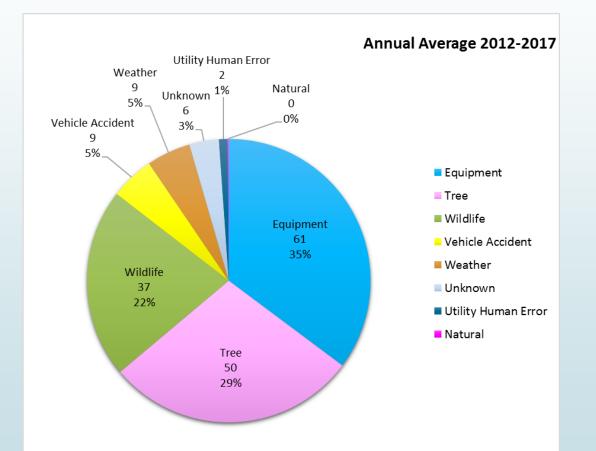
## **RMLD Reliability Indices**



## **Outages Causes**

Outages Causes YTD (from eReliability website)





# **Questions**?



## RMLD PROCUREMENT REQUEST REQUIRING BOARD APPROVAL ATTACHMENT 4



#### Reading Municipal Light Department RELIABLE POWER FOR GENERATIONS

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

Tel: (781) 944-1340 Fax: (781) 942-2409 Web: www.rmld.com

March 9, 2017

Town of Reading Municipal Light Board

Subject: IFB 2017-35 Distributed Generation Site Work

Pursuant to M.G.L c. 30 § 39M, on February 15, 2017, a bid invitation for bid was placed as a legal notice in the Middlesex East section of the Daily Times Chronicle and on the ECNE (Energy Council of the Northeast) website requesting sealed bids for Distributed Generation Site Work.

An invitation for bid was sent to the following fifty-one companies:

Blue Diamond	Botti Co. Inc.	Caruso and McGovern
Cella Construction Co. LLC	ConstructConnect	Construction Journal
CRL, Inc.	Dec Corp (for Power Line Contracto	
Digitalogic via ECNE	Dowling Corporation	East Coast Developments, Inc.
Eaton's Cooper Power Systems Busine		Edward Paige Corp.ElectriComm, Inc.
Fischbach & Moore	G Lopes Construction	InSite Contracting, Inc.
James Lynch Construction	Joseph Bottico, Inc.	K & R Construction Co. LLC
KOBO Utility Construction Corp.	LaRovere Design/Build Corp.	LIG Consultants
M.Keane Excavating Inc.	Mattuchio Construction	McLaughlin Bros. Contracting Corp.
Meninno Construction	Methuen Construction	MJS Construction, Inc.
Murphy & Fahy Construction Co., Inc.	NEDP	ONVIA
Ostrow Electric Company	PM Zilioli, Inc.	Power Line Contractors, Inc.
Project Dog	R.H White	R.S. Hurford Co., Inc.
Robinson Sales, Inc.	Rotondi Construction	Site Improvements, Inc.
Strength in Concrete, LLC	SumCo Eco Contracting	Systems Electrical Services Inc
T Ford Company	Target Construction	Tasco Construction, Inc.
The Ryan Company	Tim Zanelli Excavating	Tro-Con Corporation
Ventresca, Inc.	W.L. French	55

Sealed bids were received from seven companies: Cella Construction Co, LLC, CRL, Inc., MJS Construction, Inc., SumCo Eco Contracting, T Ford Company, Tasco Construction, Inc. and Tim Zanelli Excavating.

The sealed bids were publicly opened and read aloud at 11:00 a.m., March 8, 2017, in the Town of Reading Municipal Light Department's Audio Visual Spurr Room, 230 Ash Street, Reading, Massachusetts.



Reading Municipal Light Department RELIABLE POWER FOR GENERATIONS

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

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

Move that bid 2017-35 for: Distributed Generation Site Work be awarded to: Tim Zanelli Excavating for \$214,969 as the lowest responsible and eligible bidder on the recommendation of the General Manager.

The FY17 Capital Budget amount for this item is \$205,875.

Min Jaffari Hamid Jaffari Contre

Coleen O'Brien

#### Distributed Generation Site Work IFB 2017-35

Bidder	Total Price	Meet Specification <u>requirement</u>	Firm <u>Price</u>	All forms <u>filled out</u>	Certified Check or <u>Bid Bond</u>	Exceptions to stated bid <u>requirements</u>	Authorized <u>signature</u>
Tim Zanelli Excavating	\$214,969.00	yes	yes	yes	yes	no	yes
T-Ford	\$252,100.00	yes	yes	yes	yes	no	yes
Cella Construction Co., LLC	\$258,850.00	yes	yes	yes	yes	no	yes
MJS Construction	\$283,420.00	yes	yes	yes	yes	no	yes
SumCo Eco-Contracting, LLC	\$285,000.00	yes	yes	yes	yes	no	yes
Tesco Construction, Inc.	\$287,000.00	yes	yes	yes	yes	no	yes
CRL, Inc.	\$289,000.00	yes	yes	yes	yes	no	yes

## BOARD MATERIAL AVAILABLE BUT NOT DISCUSSED

#### Good morning,

There were no Account Payable Warrant questions for the following dates: February 17, February 24, March 3, and March 10.

There were no Payroll questions for the following dates: February 27 and March 6.

This message will be included in the Board Packet for the RMLD Board Meeting on Thursday March 23, 2017.

#### **Tracy Schultz**

Executive Assistant Reading Municipal Light Department 230 Ash Street Reading, MA 01867 Tel: (781) 942-6489 Ext: 489

RATE COMPARISONS READING & SU	IRROUNDING TOWNS						
	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	\$113.69	\$195.90	\$138.62	\$1,020.73	\$201.20	\$4,744.25	\$746,869.38
PER KWH CHARGE	\$0.15158	\$0.13060	\$0.13862	\$0.13983	\$0.18630	\$0.13555	\$0.10856
NATIONAL GRID							
TOTAL BILL	\$152.26	\$359.49	\$188.73	\$2,052.32	\$312.15	\$5,877.72	\$1,646,658.27
PER KWH CHARGE	\$0.20301	\$0.23966	\$0.18873	\$0.28114	\$0.28903	\$0.16793	\$0.23935
% DIFFERENCE	33.93%	83.51%	36.15%	101.06%	55.14%	23.89%	120.47%
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	26.22%	29.41%	36.48%	20.84%	1.75%	41.06%	18.18%
PEABODY MUNICIPAL LIGHT PLANT							
	\$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	-21.39%	-9.37%	-13.13%	-3.13%	-22.24%	2.94%	-9.94%
MIDDLETON MUNICIPAL LIGHT DEPT							
	\$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	-13.15%	2.94%	-4.24%	-6.00%	-16.29%	0.39%	8.07%
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	4.88%	12.77%	7.76%	10.68%	-10.10%	11.67%	18.78%

March-17

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT