READING MUNICIPAL LIGHT DEPARTMENT

FY 18 OPERATING BUDGET

March 31, 2017

Coleen O'Brien General Manager

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READING MUNICIPAL LIGHT DEPARTMENT

SIX YEAR PLAN

March 31, 2017 (as revised 4/11/17)

FISCAL YEAR	ACTUAL	8 ACT / 4 BUD										
OPERATING REVENUE:	2016	2017		2018	change	2019	change	2020	change	2021	change	2022
SALES OF ELEC - BASE	\$ 23,207,288	\$ 25,446,977	3.50% \$	26,337,621	3.50% \$	27,259,438	3.00% \$	28,077,221	2.50% \$	28,779,152	2.00% \$	29,354,735
SALES OF ELEC - BASE CAPACITY	18,900,249	20,137,351		24,476,160		23,263,233		19,600,575		17,124,283		21,449,835
SALES OF ELEC - BASE TRANSMISSION	12,807,770	13,113,601		13,612,815		14,638,396		15,397,350		15,840,074		16,679,986
SALES OF ELEC - FUEL	33,528,502	33,516,934		32,491,810		32,791,807		33,107,725		33,426,802		33,749,070
NYPA	(1,165,456)	(1,192,136)		(1,200,000)		(1,200,000)		(1,200,000)		(1,200,000)		(1,200,000)
FORFEITED DISCOUNTS	791,780	812,450		800,000		817,783		842,317		863,375		880,642
ENERGY CONSERVATION	665,850	686,949		675,000		675,000		675,000		675,000		675,000
TOTAL OPERATING REVENUE	\$ 88,735,983	\$ 92,522,126	\$	97,193,406	\$	98,245,657	\$	96,500,188	\$	95,508,685	\$	101,589,268
OPERATING EXPENSES:												
PURCHASED POWER - BASE CAPACITY	\$ 18,900,249	\$ 20,281,164	\$	24,476,160	\$	23,263,233	\$	19,600,575	\$	17,124,283	\$	21,449,835
PURCHASED POWER - BASE TRANSMISSION	12,373,633	12,969,787		13,612,815		14,638,396		15,397,350		15,840,074		16,679,986
PURCHASED POWER - FUEL	32,426,456	32,324,798		31,291,810		31,591,807		31,907,725		32,226,802		32,549,070
OPERATING & MAINTENANCE EXPENSE	5,312,445	5,542,785		5,941,700	3.00%	6,119,951	3.00%	6,303,550	3.00%	6,492,656	3.00%	6,687,436
GENERAL & ADMINISTRATIVE EXPENSE	9,788,822	9,938,502		10,361,361	3.00%	10,672,202	3.00%	10,992,368	3.00%	11,322,139	3.00%	11,661,803
DEPRECIATION EXPENSE	3,944,792	4,112,205		4,362,000		4,563,000		4,877,000		5,045,000		5,152,000
TOWN PAYMENTS	1,400,347	1,421,179		1,500,000		1,700,380		1,715,260		1,685,420		1,643,920
TOTAL OPERATING EXPENSES	\$ 84,146,744	\$ 86,590,420	\$	91,545,846	\$	92,548,969	\$	90,793,827	\$	89,736,374	\$	95,824,050
TOTAL OPERATING INCOME	\$ 4,589,239	\$ 5,931,706	\$	5,647,560	\$	5,696,688	\$	5,706,360	\$	5,772,311	\$	5,765,218
NONOPERATING REVENUES:												
OTHER INCOME - JOBBING, ADVANCE IN AID	\$ 1,039,927	\$ 798,245	\$	890,000	\$	890,000	\$	890,000	s	890,000	\$	890.000
INTEREST INCOME	209,514	138,384	•	150,000	•	150,000	•	150,000	•	150,000	4	150,000
						100,000		130,000		130,000		150,000
TOTAL OTHER INCOME	\$ 1,249,441	\$ 936,629	\$	1,040,000	\$	1,040,000	\$	1,040,000	\$	1,040,000	\$	1,040,000
NONOPERATING EXPENSES:												
CUSTOMER DEPOSIT INTEREST EXP	\$ 1,957	\$ 3,989	\$	2,500	\$	3,000	\$	3,000	\$	3,500	\$	3,500
OTHER DEDUCTIONS (INCLUDING ROI)	2,467,319	2,434,668		2,570,438		2,596,142		2,622,104		2,648,325		2,674,808
TOTAL MISCELLANEOUS DEDUCTIONS	\$ 2,469,276	\$ 2,438,657	\$	2,572,938	\$	2,599,142	\$	2,625,104	\$	2,651,825	\$	2,678,308
NET INCOME	\$ 3,369,404	\$ 4,429,678	\$	4,114,622	\$	4,137,546	\$	4,121,256	\$	4,160,486	\$	4,126,910

READING MUNICIPAL LIGHT DEPARTMENT SIX YEAR PLAN March 31, 2017 (as revised 4/11/17)

FISCAL YEAR	ACTUAL 2016	8 ACT / 4 BUD 2017	2018	change	2019	change	2020	change	2021	change	2022
Net Income ROI Payment Fuel adjustment PPCT adjustment Interest Income Advanced in Aid of Construction			\$ 4,114,622 2,570,438 - (150,000) (400,000)		4,137,546 2,596,142 - - (150,000 (400,000		4,121,256 2,622,104 - - (150,000) (400,000)		4,160,486 2,648,325 - - (150,000) (400,000)		\$ 4,126,910 2,674,808 - - (150,000) (400,000)
Adjusted Net Income for ROR			\$ 6,135,060	\$	6,183,688	\$	6,193,360		6,258,811		\$ 6,251,718
NET PLANT at END of FY Allowable 8%			\$ 79,119,000 6,329,520	\$,,		85,763,000 6,861,040	\$	84,271,000 6,741,680		\$ 82,196,000 6,575,680
ROR			7.75%		7.27%	,	7.22%		7.43%		7.61%

READING MUNICIPAL LIGHT DEPARTMENT FISCAL YEAR 2018 OPERATING BUDGET SCHEDULE OF REVENUES AND EXPENSES

	2016 Budget	2016 Actual	2017 Budget	4 N	2017 Months Budget	8 N	2017 Months Actual	8 A	2017 ctual/4 Budget	2018 Budget
Operating Revenues					У					
Base Revenue Fuel Revenue Purchased Power Capacity & Transmission Forfeited Discounts Energy Conservation Revenue NYPA Credit	\$ 23,020,930 35,226,324 29,696,424 690,628 707,288 (900,000)	\$ 23,207,288 33,528,502 31,708,019 791,780 665,850 (1,165,456)	\$ 25,500,000 34,074,492 34,322,278 688,500 673,000 (900,000)	\$	7,720,118 10,120,250 9,774,333 229,500 224,333 (413,771)	\$	17,726,859 23,396,684 23,476,618 582,950 462,616 (778,365)	\$	25,446,977 33,516,934 33,250,951 812,450 686,949 (1,192,136)	\$ 26,337,621 32,491,810 38,088,978 800,000 675,000 (1,200,000)
Total Operating Revenues	\$ 88,441,594	\$ 88,735,983	\$ 94,358,270	\$	27,654,764	\$	64,867,362	\$	92,522,126	\$ 97,193,409
Expenses										
Power Expenses:										
547 Purchased Power Fuel Expense555 Purchased Power Capacity565 Purchased Power Transamission	\$ 34,326,329 17,095,785 12,600,639	\$ 32,426,456 18,900,249 12,373,633	\$ 33,174,492 20,943,651 13,378,627	\$	9,726,169 6,981,217 3,835,949	\$	22,598,629 13,299,947 9,133,838	\$	32,324,798 20,281,164 12,969,787	\$ 31,291,810 24,476,161 13,612,817
Total Purchased Power	\$ 64,022,753	\$ 63,700,338	\$ 67,496,770	\$	20,543,335	\$	45,032,414	\$	65,575,749	\$ 69,380,788
Operations and Maintenance Expenses:										
580 Supervision and Engineering 581 Station Supervisor 581 Line General 582 Control Room 585 Street Lighting 586 Meter General 588 Materials Management 590 Maintenance of Structures and Equipment 591 Maintenance of Lines - Overhead 592 Maintenance of Lines - Underground 593 Maintenance of Line Transformers 594 Maintenance of Street Lights Total Operations Expenses General & Administration Expenses: 902 Meter Reading 903 Customer Collection 904 Uncollectible Accounts 916 Energy Audit and Conservation 920 Administrative and General Salaries 921 Office Supplies and Expenses 923 Outside Services	\$ 632,691 84,858 666,641 448,347 93,347 277,523 457,068 384,655 1,971,953 124,508 300,000 10,072 5,451,663	\$ 562,841 157,474 755,206 406,831 126,789 228,126 465,948 479,471 1,871,739 25,984 5,312,445 20,803 1,651,557 64,770 1,195,418 909,832 375,675 505,139	\$ 658,195 91,269 901,213 472,879 102,402 250,375 464,418 419,599 2,044,499 125,066 300,000 10,287 5,840,202 32,640 1,792,724 150,000 1,501,806 1,134,674 349,000 418,100	\$	224,839 30,423 300,404 157,626 34,134 83,458 154,806 139,866 681,500 41,689 100,000 3,429 1,952,175 10,880 597,575 50,000 500,602 378,225 116,333 139,367	\$	270,071 93,802 444,439 311,651 78,135 140,368 297,302 313,051 1,352,569 195,627 23,558 70,039 3,590,610	\$	494,910 124,225 744,843 469,278 112,269 223,826 452,108 452,917 2,034,068 237,315 123,558 73,468 5,542,785 27,758 1,649,311 150,000 1,310,037 1,003,146 302,546 476,016	\$ 829,705 130,662 638,107 473,878 119,398 222,280 450,828 495,731 2,036,277 198,592 300,000 46,242 5,941,700 39,847 1,986,508 150,000 1,490,463 1,017,151 350,000 471,900
924 Property Insurance 925 Injuries and Damages 926 Employee Pensions and Benefits 930 Miscellaneous General Expense 931 Rent Expense 935 Maintenance of General Plant 935 Maintenance of Building & Garage	 466,200 51,254 2,633,591 231,022 212,000 178,200 660,131	356,212 63,072 3,521,732 138,385 192,115 203,657 590,456	424,500 57,215 2,922,673 219,158 212,000 180,000 590,523		141,500 19,072 974,224 73,053 70,667 60,000 196,841		223,045 41,067 2,444,043 107,673 116,514 196,668 355,324		364,545 60,138 3,418,267 180,726 187,181 256,668 552,165	427,200 52,613 3,000,437 207,205 212,000 281,880 674,157
Total Maintenance Expenses	\$ 9,093,863	\$ 9,788,822	\$ 9,985,013	\$	3,328,338	\$	6,610,164	\$	9,938,502	\$ 10,361,361
Other Operating Expenses:										
403 Depreciation408 Voluntary Payments to Towns	\$ 3,983,145 1,416,000	\$ 3,944,792 1,400,347	\$ 4,134,000 1,445,420	\$	1,378,000 481,807	\$	2,734,205 939,372		4,112,205 1,421,179	\$ 4,362,000 1,500,000
Total Other Expenses	\$ 5,399,145	\$ 5,345,139	\$ 5,579,420	\$	1,859,807	\$	3,673,577	\$	5,533,384	\$ 5,862,000
Operating Income	\$ 4,474,170	\$ 4,589,239	\$ 5,456,865	\$	(28,890)	\$	5,960,596	\$	5,931,706	\$ 5,647,560
Non Operating Revenues (Expenses):										
419 Interest Income 419 Other Income 426 Return on Investment to Reading 431 Interest Expense	\$ 150,000 910,000 (2,520,000) (2,100)	209,514 1,039,927 (2,467,319) (1,957)	125,000 890,000 (2,534,668) (2,100))	41,667 296,667 (844,889) (700)		96,718 501,578 (1,589,779 (3,289))	138,384 798,245 (2,434,668) (3,989)	150,000 890,000 (2,570,438) (2,500)
Total Non Operating Revenues (Expenses)	\$ (1,462,100)	(1,219,835)	(1,521,768)				(994,772		(1,502,028)	(1,532,938)
Net Income	\$ 3,012,070	\$ 3,369,404	\$ 3,935,097	\$	(536,146)	\$	4,965,825	\$	4,429,678	\$ 4,114,622

READING MUNICIPAL LIGHT DEPARTMENT FISCAL YEAR 2018 OPERATING BUDGET ACTUAL AND PROJECTED FIXED AND SEMI-VARIABLE COSTS

FIXED COSTS:	(FY16 DPERATING BUDGET	FY	16 ACTUAL	(FY17 OPERATING BUDGET	lly 2016-Feb 2017 ACTUAL 8 mos.	Ma	rch 2017-June 2017 BUDGET 4 mos.	FY1	TOTAL		FY18 PERATING BUDGET	FY18 PERCENTAGE OF TOTAL BUDGET
Purchased Power - Fuel	\$	34,326,329	\$	32,426,456	\$	33,174,492	\$ 22,598,629	\$	9,726,169	\$	32,324,798	-	31,291,810	33.25%
Purchased Power - Capacity	\$	17,095,785	\$	18,900,249	\$	20,943,651	\$ 13,299,947	\$	6,981,217	1	20,281,164	-	24,476,161	26.01%
Purchased Power - Transmission	\$	12,600,639	\$	12,373,633	\$	13,378,627	\$ 9,133,838	\$	3,835,949	\$	12,969,787	-	13,612,817	14.46%
Depreciation Expense	\$	3,983,145	\$	3,944,792	\$	4,134,000	\$ 2,734,205	\$	1,378,000	\$	4,112,205	\$	4,362,000	4.63%
Misc Deduction - ROI Reading	\$	2,370,000	\$	2,467,319	\$	2,384,668	\$ 1,589,779	\$	844,889	\$	2,434,668	\$	2,420,438	2.57%
Town Payments	\$	1,416,000	\$	1,400,347	\$	1,445,420	\$ 939,372	\$	481,807	\$	1,421,179	\$	1,500,000	1.59%
Misc Deduction - Disposal Losses	\$	150,000	\$	85,561	\$	150,000	\$ -	\$	-	\$	-	\$	150,000	0.16%
SUB-TOTAL	\$	71,941,898	\$	71,598,356	\$	75,610,858	\$ 50,295,770	\$	23,248,031	\$	73,543,801	\$	77,813,226	82.68%
SEMI VARIABLE COSTS:	-													
Labor	\$	5,486,590	\$	5,664,308	\$	6,511,885	\$ 3,547,209	\$	2,170,628	\$	5,717,837	\$	6,376,181	6.77%
Employee Benefits/Pension	\$	2,632,391	\$	3,521,732	\$	2,922,673	\$ 2,444,043	\$	974,224	\$	3,418,267	\$	3,000,437	3.19%
Other Operating and Maint Expenses	\$	1,805,590	\$	1,610,948	\$	1,757,617	\$ 1,393,916	\$	591,314	\$	1,985,231	\$	1,953,597	2.08%
Conservation Expenses	\$	816,602	\$	689,838	\$	871,574	\$ 475,639	\$	290,525	\$	766,164	\$	952,565	1.01%
Tree Trimming	\$	887,381	\$	770,283	\$	786,958	\$ 537,038	\$	262,319	\$	799,357	\$	886,340	0.94%
Overtime	\$	562,634	\$	759,908	\$	561,520	\$ 525,799	\$	187,173	\$	712,973	\$	763,517	0.81%
Professional Services	\$	377,332	\$	505,139	\$	418,100	\$ 336,649	\$	139,367	\$	476,016	\$	471,900	0.50%
Property Insurance	\$	466,200	\$	356,212	\$	424,500	\$ 223,045	\$	141,500	\$	364,545	\$	427,200	0.45%
Office Supplies	\$	301,000	\$	375,675	\$	349,000	\$ 186,212	\$	116,333	\$	302,546	\$	350,000	0.37%
Transformer (hazard material)	\$	300,000	\$	94,909	\$	300,000	\$ 23,558	\$	100,000	\$	123,558	\$	300,000	0.32%
Training/Tuition	\$	226,755	\$	122,712	\$	232,175	\$ 91,258	\$	77,392	\$	168,649	\$	289,691	0.31%
Rent Expense	\$	212,000	\$	192,115	\$	212,000	\$ 116,514	\$	70,667	\$	187,181	\$	212,000	0.23%
Bad Debt Expense	\$	120,000	\$	64,770	\$	150,000	\$ 100,000	\$	50,000	\$	150,000	\$	150,000	0.16%
Vehicle	\$	279,396	\$	213,544	\$	249,598	\$ 158,416	\$	83,199	\$	241,616	\$	89,520	0.10%
Injuries & Damages	\$	51,254	\$	63,072	\$	57,215	\$ 41,067	\$	19,072	\$	60,138	\$	52,613	0.06%
RMLD/CAB	\$	22,500	\$	12,499	\$	22,500	\$ 3,700	\$	7,500	\$	11,200	\$	30,000	0.03%
SUB-TOTAL	\$	14,547,625	\$	15,017,664	\$	15,827,315	\$ 10,204,063	\$	5,281,214	\$	15,485,277	\$	16,305,561	17.32%
TOTALS	\$	86,489,523	\$	86,616,020	ć	91,438,173	\$ 60,499,833	Ś	28,529,244	S	89,029,078	Ś	94,118,787	100.00%

READING MUNICIPAL LIGHT DEPARTMENT FISCAL YEAR 2018 OPERATING BUDGET SUPPLEMENTAL INFORMATION

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SEMI VARIABLE COSTS:	FY18 OP	ERATING BUDGET	BUDGET	TOTAL COST		
Labor	\$	6,376,181.00	\$	1,104,638.00	\$ 7,480,819.00	
Employee Benefits/Pension	\$	3,000,437.00	\$	614,179.00	\$ 3,614,616.00	
Groups (all)	\$	1,953,597.00	\$	189,428.00	\$ 2,143,025.00	
Conservation Expenses	\$	952,565.00	\$	-	\$ 952,565.00	
Tree Trimming	\$	886,340.00	\$	-	\$ 886,340.00	
Overtime	\$	763,517.00	\$	134,372.00	\$ 897,889.00	
Property Insurance	\$	427,200.00	\$	-	\$ 427,200.00	
Professional Services	\$	471,900.00	\$	-	\$ 471,900.00	
Office Supplies	\$	350,000.00	\$	-	\$ 350,000.00	
Vehicle	\$	89,520.00	\$	301,596.00	\$ 391,116.00	
Rent Expense	\$	212,000.00	\$	-	\$ 212,000.00	
Training/Tuition	\$	289,691.00	\$	-	\$ 289,691.00	
Transformer (hazard material)	\$	300,000.00	\$	-	\$ 300,000.00	
Bad Debt Expense	\$	150,000.00	\$	-	\$ 150,000.00	
Injuries & Damages	\$	52,613.00	\$	24,987.00	\$ 77,600.00	
RMLD/CAB	\$	30,000.00	\$	-	\$ 30,000.00	
SUB-TOTAL	\$	16,305,561.00	\$	2,369,200.00	\$ 18,674,761.00	

Description of RMLD's Power Supply

Stony Brook Intermediate Unit

The Stony Brook Intermediate Unit is a 354-megawatt, combined-cycle power plant that entered commercial operation in 1981.

The unit's three gas turbines generate electricity using either No. 2 oil or natural gas, with additional electricity produced using a single steam turbine in the combined-cycle process. MMWEC completed construction of a natural gas pipeline to serve the Intermediate Unit in September 2002. The RMLD has a Life of Unit (LOU) entitlement for 14.453% of the unit or approximately 51 Mws. The RMLD has paid off the debt service associated with this project.

Quick Facts – Stonybrook Intermediate Unit

Location

Ludlow, Massachusetts

On-Line Date

1981

Fuel

No. 2 oil/natural gas

Principal Owner/Operator

MMWEC

Total Capacity

354 megawatts

Stony Brook Peaking Unit

The Stony Brook Peaking Unit is a 172-megawatt peaking plant that entered commercial operation in 1982.

The unit's two turbines generate electricity using No. 2 oil. The RMLD has a Life of Unit (LOU) entitlement for 19.516% of the unit which is equivalent to approximately 33 Mws. The RMLD has paid off the debt service associated with this project.

Quick Facts - Stonybrook Peaking Unit

Location

Ludlow, Massachusetts

On-Line Date

1982

Fuel

No. 2 oil

Principal Owner/Operator

MMWEC

Total Capacity

172 megawatts

Braintree Electric Light Department - Watson Unit

The simple-cycle gas fired plant is powered by the first two Rolls-Royce Trent 60 gas turbines built for the U.S. power generation market – known as Watson Units #1 and #2. The units entered commercial operation on June 23, 2009.

Both Watson Units are bid into the ISO New England markety system daily and are dispatched based on their bid price.

The units two turbines generate electricity using natural gas, with No. 2 oil as backup fuel. The RMLD has a 20 year entitlement for 10% of the unit which is equivalent to about 10 Mws.

Quick Facts - Watson Unit

Location

Braintree, Massachusetts

On-Line Date

2009

Fuel

Natural gas/No. 2 oil

Principal Owner/Operator

BELD

Total Capacity

100 megawatts

Seabrook Station

Seabrook Station is a 1,244-megawatt nuclear generating plant located in Seabrook, New Hampshire. An operating license for Seabrook was issued in 1986, but the plant did not begin commercial operation until 1990. The principal owner and operator of Seabrook Station is NextEra Energy Resources LLC, a subsidiary of Florida based FPL

Group, Inc. NextEra owns 88.2% of Seabrook Station. The other owners are MMWEC (11.59%) and two Massachusetts municipal utilities, the Taunton Municipal Lighting Plant (0.13%) and Hudson Light & Power Department (0.08%).

NextEra has announced plans to seek an extension of its Seabrook operating license from the current license expiration of 2030 to 2050. RMLD signed 3 different projects to finance Seabrook, Mix 1, Project 4, and Project 5. The debt service associated with these projects will be paid-off in 2014, 2017 & 2018 respectively. The RMLD has a Life of Unit (LOU) for 0.635% or approximately 8 Mws of the unit.

Quick Facts - Seabrook Station

Location

Seabrook, New Hampshire

On-Line Date

1990

Fuel

Nuclear - Pressurized Water Reactor

Principal Owner/Operator

NextEra Energy Resources, LLC

Total Capacity

1,244 megawatts

Millstone Unit 3

Millstone Unit 3 is a 1,237-megawatt nuclear generating plant located in Waterford, Connecticut. Millstone Unit 3, which began operation in 1986, is the newest and largest of the Millstone Station's three nuclear units, one of which is retired from service. The principal owner and operator of Millstone Station is Dominion Nuclear Connecticut, Inc., a subsidiary of Virginia-based Dominion Resources, Inc. Dominion Connecticut owns 93.4% of Millstone Unit 3.

The Nuclear Regulatory Commission (NRC) on November 28, 2005 approved Dominion Nuclear Connecticut's request for a 20-year operating license extension for Millstone's Unit 3 reactor. The license now expires in November, 2045. RMLD signed two different projects to finance Millstone #3, Mix 1 and Project 3. The debt service associated with these projects will be paid off in 2014 & 2018 respectively. The RMLD has a LOU agreement for 0.404% of the units which equates to approximately 4.6 Mws.

Quick Facts - Seabrook Station

Location Waterford, Connecticut

On-Line Date 1986

Fuel Nuclear – Pressurized Water Reactor

Principal Owner/Operator Dominion Nuclear Connecticut, Inc.

Total Capacity 1,237 megawatts

New York Power Authority (NYPA)

The RMLD receives inexpensive hydroelectric power from the NYPA. RMLD receives capacity and energy from this contract. The Massachusetts Department of Public Utilities (DPU) has appointed MMWEC as the administrator of this contract. The current contract expires in 2025.

Hydro-Quebec Interconnection

The Hydro-Quebec Interconnection is an approximate 2000 Mw, direct current electric transmission line connecting central New England with the Canadian utility Hydro Quebec. Construction of the U.S. portion of the interconnection, which stretches from Groton/Ayer, in Massachusetts to the Canadian border in northern Vermont, was a joint effort of many New England utitilies. The RMLD receives approximately 4.5 Mws of capacity from this contract.

BP Energy

In July, 2013 the RMLD signed a system power contract with BP Energy that is effective from January 1, 2014 through December 31, 2017. The RMLD receives enery only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

Shell Energy

In November, 2014 the RMLD signed a system power contract with Shell Energy that is effective from January 1, 2015 through December 31, 2018. The RMLD receives energy

only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

Exelon

In May, 2015 the RMLD signed a system power contract with Exelon that is effective from January 1, 2016 through December 31, 2019. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

EDF Trading

In June, 2016 the RMLD signed a system power contract with EDF Trading that is effective from January 1, 2017 through December 31, 2018. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

NextEra

In June, 2016 the RMLD signed a system power contract with NextEra that is effective from January 1, 2019 through December 31, 2020. The RMLD receives energy only from this contract. The amount of energy purchased fluctuates on a monthly basis for both the on-peak and off-peak period. RMLD has secured fixed pricing for this contract.

Swift River Hydro

In March, 2011 the RMLD signed a purchase power agreements with Swift River Hydro LLC for the output of four hydro systems located in Massachusetts that are effective from February 1, 2011 through January 31, 2026. The Swift River Trading Company is the lead market participant for and represents these hydroelectric generators with a total nameplate capacity of approximately 7 Mws and average annual generation of 25,000 megawatt-hours per year.

These facilities include the Woronoco Hydro facility in Russell, MA, Pepperell Hydro in Pepperell, MA; Indian River Power Supply in Russell, MA; and Turners Falls Hydro in Turners Falls, MA. Each of these facilities is owned by a special purpose entity, e.g., the Woronoco facility is owned by Woronoco Hydro LLC. The four facilities are managed by the Swift River Trading Company, LLC as the lead market participant for each of the facilities. Dr. Peter Clark is the manager of the Swift River Trading Company. RMLD is the only buyer.

- Pepperell Hydro: 15 year term beginning on February 1, 2011 and ending January 31, 2026. RMLD is purchasing all of the products produced by or attributable to the facility. The facility has a nameplate capacity of 1.9 Mws. The products include, but are not limited to, Energy, Installed Capacity, Ancillary Services, Renewable Energy Certificates and Environmental Attributes (to the extent not included in the RECs). The contract price for these products is \$100/Mwh for the first year, escalated 2.25% thereafter.
- Woronoco Hydro: 15 year term beginning on February 1, 2011 and ending January 31, 2026. RMLD is purchasing all of the products produced by or attributable to the facility. The facility has a nameplate capacity of 2.7 Mws. The products include, but are not limited to, Energy, Installed Capacity, Ancillary Services, Renewable Energy Certificates and Environmental Attributes (to the extent not included in the RECs). The contract price for these products is \$100/Mwh for the first year, escalated 2.25% thereafter. The facility is not currently qualified for FCM. Until the Seller qualifies the facility for FCM the contract price is reduced by \$5.00/Mwh.
- Turners Falls Hydro: 15 year term beginning on February 1, 2011 and ending January 31, 2026. RMLD is purchasing all of the products produced by or attributable to the facility. The facility has a nameplate capacity of 1 Mw. The products include, but are not limited to, Energy, Installed Capacity, Ancillary Services, Renewable Energy Certificates and Environmental Attributes (to the extent not included in the RECs). The contract price for these products is \$100/Mwh for the first year, escalated 2.25% thereafter. The facility is not currently qualified for FCM. Until the Seller qualifies the facility for FCM the contract price is reduced by \$5.00/Mwh.
- Indian River Hydro: 15 year term beginning on February 1, 2011 and ending January 31, 2026. RMLD is purchasing all of the products produced by or attributable to the facility. The facility has a nameplate capacity of 1.4 Mws. The products include, but are not limited to, Energy, Installed Capacity, Ancillary Services, Renewable Energy Certificates and Environmental Attributes (to the extent not included in the RECs). The contract price for these products is \$100/Mwh for the first year, escalated 2.25% thereafter. The facility is not currently qualified for FCM. Until the Seller qualifies the facility for FCM the contract price is reduced by \$5.00/Mwh.

Collins Hydro

In August, 2013 the RMLD signed a purchase power agreements with Swift River Hydro LLC.for the output of Collins Hydro located in between Ludlow and Wilbraham Massachusetts. The contract with Swift River Hydro is effective from September 1, 2013 through August 31, 2028. The RMLD receives enery only from this contract. The average annual generation is approximately 5,667 megawatt-hours per year.

Pioneer Hydro

In August, 2013 the RMLD signed a purchase power agreements with Ware River Power Inc. for the output of Pioneer Hydro located in Ware, Massachusetts. The contract for Pioneer Hydro is effective from September 1, 2013 through August 31, 2028. The RMLD receives enery only from this contract. The average annual generation is approximately 4,480 megawatt-hours per year.

Hoisery Mills Hydro

In March, 2014 the RMLD signed a purchase power agreements with Silver Street Hydro Inc. for the output of Hosiery Mills located in Hillsborough, New Hampshire. The contract for Hosiery Mills Hydro is effective from March 1, 2014 through February 28, 2034. The RMLD receives enery only from this contract. The average annual generation is approximately 2,046 megawatt-hours per year.

Aspinook Hydro

In August, 2016 the RMLD signed a purchase power agreements with Aspinook Hydro Inc. for the output of Aspinook Hydro located in Connecticut. The contract is effective from August, 2016 through August, 2017. The RMLD receives enery only from this contract. The average annual generation is approximately 9,300 megawatt-hours per year.

Saddleback Ridge Wind

In December, 2013 the RMLD signed a purchase power agreement with Saddleback Ridge Wind, LLC for the output of Saddleback Ridge Wind located in Carthage, Maine. The contract for Saddleback Ridge Wind is effective from January 1, 2015 through

December 31, 2035. The RMLD receives enery plus all attributes this contract. The average annual generation is estimated to be approximately 15,820 megawatt-hours per year.

Jericho Wind

In November, 2014 the RMLD signed a purchase power agreements with Jericho Power, LLC for the output of Jericho Wind located in Berlin, New Hampshire. The contract for Jericho Wind is for 20 years. The project went Commercial December, 2015. The RMLD receives energy plus all attributes from this contract. The average annual generation is estimated to be approximately 10,788 megawatt-hours per year.

One Burlington - Solar

In March, 2015 the RMLD signed a purchase power agreement with CREECA Energy LLC for the output of 2,000 kW AC solar array located at One Burlington Ave., Wilmington, Massachusetts. The solar array went on-line in November, 2015. The term of the contract for One Burlington is effective for ten years. The average annual generation is estimated to be approximately 3,450 megawatt-hours per year.

2018 BUDGET SUMMARY

PURCHASE POWER EXPENSE

		% of		% of		% of		% of
PROJECT	CAPACITY	Total	TRANSMISSION	Total	ENERGY	Total	TOTAL	Total
NUC. MIX #1 MILLSTONE	837,319	3.4%	18,546	0.1%	170,392	0.5%	1,026,258	1.5%
NUC. MIX #1 SEABROOK	79,155	0.3%	172	0.0%	16,836	0.1%	96,163	0.1%
PROJ. #3 MILLSTONE	625,937	2.6%	13,165	0.1%	130,654	0.4%	769,756	1.1%
PROJ. #4 SEABROOK	1,458,551	6.0%	3,897	0.0%	413,208	1.3%	1,875,655	2.7%
PROJ. #5 SEABROOK	184,754	0.8%	481	0.0%	50,990	0.2%	236,224	0.3%
NYPA	206,061	0.8%	634,410	4.7%	146,228	0.5%	986,699	1.4%
STONYBROOK PEAKING PROJECT	674,476	2.8%	26,237	0.2%	43,520	0.1%	744,233	1.1%
STONYBROOK INTERMEDIATE PROJECT	1,850,722	7.6%	33,534	0.2%	3,713,914	11.9%	5,598,171	8.1%
ISO-NE	17,008,334	69.5%	12,882,374	94.6%	813,175	2.6%	30,703,883	44.3%
NEMA CONGESTION					120,000	0.4%	120,000	0.2%
BRAINTREE WATSON	1,600,050	6.5%			469,176	1.5%	2,069,226	3.0%
NEXTERA	0	0.0%			1,900,043	6.1%	1,900,043	2.7%
HYDRO QUEBEC SUPPORT SERVICES	(49,200)	-0.2%				0.0%	(49,200)	-0.1%
REMVEC					10,200	0.0%	10,200	0.0%
EXELON					4,811,021	15.4%	4,811,021	6.9%
BP ENERGY					4,495,789	14.4%	4,495,789	6.5%
SHELL ENERGY					6,703,864	21.4%	6,703,864	9.7%
SWIFT RIVER HYDRO					2,739,879	8.8%	2,739,879	3.9%
SUMMIT HYDRO					605,475	1.9%	605,475	0.9%
COLLINS HYDRO					457,707	1.5%	457,707	0.7%
PIONEER HYDRO					361,870	1.2%	361,870	0.5%
HOSIERY MILL HYDRO					147,406	0.5%	147,406	0.2%
SADDLEBACK WIND					1,502,900	4.8%	1,502,900	2.2%
JERICHO WIND					1,186,680	3.8%	1,186,680	1.7%
ONE BURLINGTON SOLAR					242,888	0.8%	242,888	0.4%
COOP / RESALE					25,200	0.1%	25,200	0.0%
TOTAL	24,476,160	100.0%	13,612,815	100.0%	31,279,017	100.0%	69,367,991	100.0%

NYPA: New York Power Authority

ISO-NE: Independent System Operator - New England

REMVEC: Rhode Island, Eastern Massachusetts, Vermont, Energy Control

NEMA: Northeast Massachusetts