THE COMMONWEALTH OF MASSACHUSETTS

RETURN

OF THE

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT

TO THE

DEPARTMENT OF
PUBLIC UTILITIES

OF MASSACHUSETTS

FOR THE YEAR ENDED DECEMBER 31,

2018

Name of Officer to whom correspondence should be addressed regarding this report. **Coleen M. O'Brien**

Official Title: **General Manager**

Office Address: **230 Ash Street**
Reading, MA 01867

Form AC-19

TABLE OF CONTENTS

FOR GAS PLANTS ONLY:

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GENERAL INFORMATION

1. Name of town (or city) making this report. Town of Reading

2. If the town (or city) has acquired a plant,

   Kind of plant, whether gas or electric. Electric

   Owner from whom purchased, if so acquired. Created in 1894

   Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws.

   Record of votes: First vote Yes, 94 ; No, 14 Second vote: Yes, 361 ; No, 21

   Date when town (or city) began to sell electricity, 1895

3. Name and address of acting general manager of municipal lighting:
   Coleen M. O'Brien
   230 Ash Street
   Reading, MA 01867

4. Name and address of mayor or selectman
   Vanessa I. Alvarado, Chair
   Barry C. Berman, Vice Chair
   Daniel Ensminger, Secretary
   John R. Halsey
   Andrew S. Friedmann

5. Name and address of town (or city) treasurer:
   Endri Kume
   16 Lowell Street
   Town Hall
   Reading, MA 01867

6. Name and address of town (or city) clerk:
   Laura A. Gemme
   16 Lowell Street
   Town Hall
   Reading, MA 01867

7. Names and addresses of members of municipal light board:
   David Hennessy, Chair
   David Talbot, Vice Chair
   Phillip B. Pacino
   John Stempeck
   Thomas O'Rourke

8. Total valuation of estates in town (or city) according to last state valuation $4,829,515,292.00

9. Tax rate for all purposes during the year: $13.87

10. Amount of manager's salary: $203,301.61

11. Amount of manager's bond: $50,000.00

12. Amount of salary paid to members of municipal light board (each) $0.00

Annual Report of: Town of Reading Municipal Light Department — Year ended December 31, 2018

FURNISH SCHEDULE OF ESTIMATES REQUIRED BY GENERAL LAWS, CHAPTER 164, SECTION 57 FOR GAS AND ELECTRIC LIGHT PLANTS FOR THE FISCAL YEAR ENDING DECEMBER 31, NEXT

	INCOME FROM PRIVATE CONSUMERS:	
1	From sales of gas……..	
2	From sales of electricity …….	96,139,849.00
3		
4	**TOTAL**	**96,139,849.00**
5	**Expenses:**	
6	For operation, maintenance and repairs……	86,514,761.00
7	For interest on bonds, notes or scrip……..	
8	For depreciation fund (3% on $150,800,000.00)…….	4,524,000.00
9	For sinking fund requirements……..	
10	For note payments……..	
11	For bond payments……..	
12	For loss in preceding year……..	
13	**TOTAL**	**91,038,761.00**
14		
15	**Cost:**	
16	Of gas to be used for municipal buildings……..	
17	Of gas to be used for street lights……..	
18	Of electricity to be used for municipal buildings……..	
19	Of electricity to be used for street lights……..	
20	Total of the above items to be included in the tax levy……..	
21		
22	New construction to be included in the tax levy……..	
23	Total amounts to be included in the tax levy……..	

CUSTOMERS

Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each		**Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each**	
City or Town	Number of Customers' Meters, Dec 31.	City or Town	Number of Customers' Meters, Dec 31.
		Reading	10,446
		Lynnfield	3,125
		North Reading	6,735
		Wilmington	9,555
		Co-Op Resale	20
		TOTAL	**29,881**

APPROPRIATIONS SINCE BEGINNING OF YEAR

(Include also all items charged direct to tax levy, even where no appropriation is made or required.)

FOR CONSTRUCTION OR PURCHASE OF PLANT:

* At	meeting	19	, to be paid from {	$
* At	meeting	19	, to be paid from {	$

FOR THE ESTIMATED COST OF THE GAS OR ELECTRICITY TO BE USED BY THE CITY OR TOWN FOR:

1. Street Lights..... $
2. Municipal Buildings.....

$

*Date of meeting and whether regular or special { Here insert bonds, notes or tax levy

CHANGES IN THE PROPERTY

1. Describe briefly all the important physical changes in the property during the last fiscal period including additions, alterations or improvements to the works or physical property retired.

In electric property:

SEE ATTACHED SCHEDULE

In gas property:

READING MUNICIPAL LIGHT DEPARTMENT

CALENDAR YEAR 2018 CONSTRUCTION HIGHLIGHTS

JANUARY 2018 – DECEMBER 2018

PEAK DEMAND

The Reading Municipal Light Department's (RMLD) system peak demand in Calendar Year 2018 was 164,500 kW occurring on August 29, 2018, at 3:00 pm. This was 4.63% lower than the highest peak demand of 172,493 kW set in August 2006. RMLD purchased 700,331,298 kWh in Calendar Year 2018.

LINE CONSTRUCTION

Line construction throughout the system is performed to provide reliability enhancement, to connect new load, or to address areas needing upgrades. This work includes both overhead and underground cable installation, service installation and upgrades, installation and removal of poles, transfer of electrical equipment, and work related to Massachusetts highway projects.

READING

Circuit Upgrades: none.

Pole Line Upgrades:

- Replaced six (6) poles to upgrade the transmission line to Substation 4.

Commercial/Industrial/Residential:

Notable examples of new service additions or upgrades:

- Barton Estates – new underground subdivision
- 1260-1264 Main Street – new underground subdivision
- Lyle Estates – new underground subdivision
- Liberty Mazda – new service

WILMINGTON

Circuit Upgrades:

- Installed four (4) Scada-Mate switches.
- Replaced one (1) pad-mounted switchgear at Jonspin Road.
- Gandalf Estates – Replaced two (2) transformers, replaced approximately 400 feet of underground primary.
- Cherokee Lane – replaced two (2) transformers.

Pole Line Upgrades:

- Pole upgrade and transfers on Woburn Street between the railroad tracks and Concord Street.

Commercial/Industrial/Residential:

Notable examples of new service additions or upgrades:

- Murray Hill Estates Phase 3 & 4 – new residential subdivision
- Analog Devices – reconfiguration/new service
- 100 Progress Way – commercial service upgrade

NORTH READING

Circuit Upgrades:

- Approximately 3,200 feet of underground primary cable and four (4) transformers were replaced in the Aspen Road/Colonial Hill Drive area.
- Installed two sets of phase reactors at Station 3.
- Replaced three (3) pad-mounted switchgear: one (1) at Riverpark Drive, and two (2) at Concord Street.
- Installed Capacitor Banks – Lowell Street.

Pole Line Upgrades:

- 4kV Area Upgrade - Anthony Road/Peter Road – Replaced approximately 22 poles, 2,700 feet of overhead primary wire and 2,900 feet of overhead secondary wire.

Commercial/Industrial/Residential:

- Deerfield Estate – new underground subdivision
- Nichols Street Extension - new underground subdivision
- Long Hill Lane - new underground subdivision
- Shay Lane (383 Park Street) – new residential subdivision
- Martin's Landing – new residential subdivision
- CVS Main Street – service upgrade
- North Reading Storage Solutions - 35 Main Street – new service
- Atlantic Plaza - 265 Main Street – new service
- 42 Central Street – commercial service upgrade

LYNNFIELD CENTER

Circuit Upgrades:

- Summer Street - Installed voltage regulators.
- Essex Street - Installed voltage regulators.
- Essex Village – Replaced six (6) transformers and approximately 2,400 feet of underground primary wire.
- Wymon Way – Replaced two (2) transformers and approximately 1,500 feet of underground primary wire.

Pole Line Upgrades: none

Commercial/Industrial/Residential:

Notable examples of new service additions or upgrades: none

LED STREET LIGHT REPLACEMENT PROJECT

The Department replaced 1,170 street lights with LED fixtures in Calendar Year 2018. This brings the total number of street lights replaced as part of this three-year project to 7,796. One-hundred flood lights were replaced with LED fixtures (504 total for the project). *Note:* The number of flood lights reported (as replaced) for CY17 was over reported by 15; adjustment to the total has been made.

CUSTOMER CALLS

The Department answered approximately 2,989 trouble calls that were of a routine or emergency nature. A summary of the reasons for these calls include: house service difficulties, trees interfering with power lines, utility poles hit by vehicles, animal contact with energized lines, and transformer and equipment problems for miscellaneous reasons**.** There were 38 calls related to utility pole hits as a result of motor vehicle accidents.

POLE REPLACEMENTS

The Department completed approximately 220 pole installations and/or replacements. Many of these were in connection with the RMLD circuit upgrade projects and the Pole Inspection Program throughout the service area.

DIGSAFE

The RMLD marked out underground facilities locations for 3,436 DIGSAFE calls.

METERS

Between the Meter and Line departments, service upgrades, new construction, and renovations resulted in a total of 173 new overhead and underground residential and commercial/industrial services delineated as follows:

- Reading – 30 residential and nine (9) commercial/industrial
- Lynnfield – two (2) residential and one (1) commercial/industrial
- North Reading – 65 residential and nine (9) commercial/industrial
- Wilmington – 49 residential and eight (8) commercial/industrial

A total of 146 new residential services represent a 50.5% increase from new residential services in CY17 (97). A total of 27 commercial/industrial services were installed representing a 28.6% increase over the previous year's total of 21.

Four hundred and ninety-five (495) meters were replaced due to routine residential and commercial meter replacements.

TREE TRIMMING AND PREVENTATIVE MAINTENANCE

In Calendar Year 2018 RMLD continued its preventive maintenance, tree-trimming program in Reading, North Reading, Wilmington and Lynnfield. Mayer Tree Service trimmed 809 spans throughout the RMLD service territory. The main feeder along Andover Street in Wilmington was trimmed for the 3W13 circuit upgrade. Station 4 right-of-way was trimmed for main feeder 4W12 and 4W5 circuit upgrades. Swan Pond development in North Reading was trimmed after years of growth. Considerable trimming occurred along the Keolis right-of-way for circuits 4P2 and the 4P9. With most of the main feeders trimmed out, RMLD is focusing on side streets and lateral taps. We are also responding to requests for trimming and removals from town departments and customers.

COMPARATIVE SYSTEM PERFORMANCE STATISTICS*

RMLD utilizes Customer Average Interruption Index (CAIDI), System Average Interruption Duration Index (SAIDI), and System Average Interruption Frequency Index (SAIFI) data to measure system performance.

CAIDI measures the average duration (in minutes) of an interruption experienced by customers. SAIFI measures the average number of instances that a customer will experience an interruption. CAIDI was 27.65 average minutes of outage time, and SAIFI was 0.71 instances.

SAIDI measures the average interruption duration (in minutes) for customers served by the utility. SAIDI was 19.66 minutes.

RMLD continues to provide reliable service through the development and implementation of a number of proactive maintenance programs.

*Per the APPA eReliabilty System.

RENEWABLE ENERGY

RMLD is working with customers who wish to install renewable energy products. At the end of Calendar Year 2018, there were a total of 118 residential (839.42 kW) and 17 commercial (2,135 kW) sites generating solar energy within RMLD's service territory. In Calendar Year 2018, photovoltaic systems were added at 22 residential locations (one in

Lynnfield, seven in Reading, five in North Reading, and nine in Wilmington). One commercial site was added in Wilmington.

RMLD continues to be the sole purchaser of the output from a project developed at One Burlington Avenue in Wilmington.

FACILITIES & FLEET

Parking Lot Expansion Project:

In January 2018, Meridian Associates met with the town planner and town engineer, prepared and completed the conceptual site plan, site plan permitting application and design development permitting drawings, stormwater management design, and reporting to the Town of Reading Planning Board.

Control Center Modifications:

The technical equipment was received in January 2018 and the console received and installed in February 2018. In March 2018, five (5) fifty-five-inch monitors were installed. IT staff worked with Engineering to ensure a smooth cutover from the desktop monitors. Chairs and lockers were also received and installed. A cabinet was installed in June 2018 to finalize the project.

In January 2018, the Facilities group selected Universal Environmental Consultants as the firm to conduct an inspection and prepare a scope of work in areas of the garage located at 218 Ash Street scheduled to be abated for accessible asbestos containing material (ACM) and Environmental Response Services, Inc., for the performance of asbestos removal.

The abatement process included:

- The removal approximately 99 asbestos fittings from FG lines in the boiler room, storage, and garage areas.
- The removal and disposal of asbestos packing/gaskets from abandoned boiler as well as the dismantle and disposal of the boiler.
- Daily air sampling and monitoring.

In February 2018, the Facilities group selected Universal Environmental Consultants as the firm to conduct an inspection and prepare a scope of work in an area above the ceiling in a closet off the garage locker room located at 218 Ash Street scheduled to be abated for accessible asbestos containing material (ACM) and Environmental Response Services, Inc., for the performance of asbestos removal.

The abatement process included:

- The removal and disposal of the transite ceiling in the closet off the locker room.
- The removal and disposal of hard joints (four each) on pipes to be glove-bagged in the area of the closet above the SAT.

Remote SCADA Room

In January 2018, it was decided that a SCADA room would be located at a remote site. A table for the work area was set up and the technical equipment ordered and installed.

Electric Vehicle Supply Equipment (EVSE)

In January 2018, the Facilities group selected DK Power, Inc., as the firm to perform the construction as well as install the "workplace charging station." IRD had secured a grant for this project. In February 2018, the unit was installed. In May 2018, the line painting was performed, and the project was completed.

Office and Operations:

Office upgrades included office painting and carpet replacement for IRD and the new IT area. In June 2018, the E&O Director's office required painting and carpet replacement. The painting and carpet replacement is now at 100%.

Annual fire extinguisher inspection and maintenance was completed in August with over 140 fire extinguishers inspected and maintained. This program ensures that critical safety equipment located in all RMLD vehicles and buildings is available if needed.

Security:

Surveillance and access control upgrades continue to the security systems at all RMLD properties.

Fleet:

The Facilities group completed dielectric testing of 16 Line department vehicles. The Facilities group also performed preventive maintenance of 17 Line department vehicles to provide proper operation of the mechanical and lift equipment for daily operation. The maintenance program ensures vehicles are safe and operational at all times, especially during significant weather events. In addition, preventative maintenance was performed on 22 light-duty trucks and cars during the year.

In April 2018, the Facilities department received one new commercial vacuum for fleet servicing. This unit was provided with power and installed June 2018.

In February 2018, RMLD received one new 2018 Chevy Bolt EV – LT four-door hatchback with the trade-in of one 2007 Ford Escape Hybrid (vehicle #7). In March 2018, the electric vehicle charger was installed at the rear of Station 1 and a meter was installed to monitor usage.

In June 2018, the Line department received one new forty-foot bucket truck with the trade in of one 2010, forty-foot bucket truck (former vehicle #9).

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BONDS

(Issued on Account of Gas or Electric Lighting)

When Authorized*	Date of issue	Amount of Original Issue	Period of Payments		Interest		Amount Outstanding
			Amounts	When Payable	Rate	When Payable	
Aug-1894	Oct 1894	50,000.00					
May-1907	Oct-1907	26,000.00					
Jun-1911	Jul-1911	20,000.00					
Aug-1913	Oct-1913	23,500.00					
Sep-1914	Sep-1914	8,000.00					
Mar-1916	May-1916	10,000.00					
Mar-1917	Oct-1917	55,000.00					
Oct-1918	Jan-1919	12,000.00					
Mar-1919	Apr-1919	20,000.00					
Mar-1917	May-1920	20,000.00					
Dec-1923	Dec-1924	10,000.00					
Mar-1928	Aug-1927	13,000.00					
Mar-1930	Jun-1930	15,000.00					
Mar-1931	Apr-1931	40,000.00					
Jan-1951	Oct-1951	150,000.00					
Dec-1952	Jul-1953	150,000.00					
Mar-1955	Dec-1955	125,000.00					
Mar-1956	Sep-1956	600,000.00					
Mar-1970	Nov-1970	600,000.00					
Mar-1970	Aug-1979	1,000,000.00					
Feb-1991	Feb-1991	3,465,000.00					
Dec-1992	Dec-1992	1,860,000.00	210,000.00	February 15	4.10	February 15; August 15	0.00
Jul-1996	Jul-1996	2,978,000.00	296,000.00	July 1	4.83	January 1; July 1	0.00
Dec-1999	Dec-1999	5,500,000.00	550,000.00	September 1	4.57	March 1; September 1	0.00
	TOTAL	**16,750,500.00**	**1,056,000.00**				**-**

The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bond and notes are repaid, report the first three columns only.

*Date of meeting and whether regular or special

Annual Report of: Town of Reading Municipal Light Department — Year ended December 31, 2018

TOWN NOTES

(Issued on Account of Gas or Electric Lighting)

When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		Interest		Amount of Outstanding at End of Year
			Amounts	When Payable	Rate	When Payable	
Mar-1896	Mar-1896	7,000.00					
Dec-1896	Dec-1896	1,500.00					
Mar-1898	Jul-1898	3,000.00					
Mar-1903	Dec-1903	1,400.00					
Mar-1909	Nov-1909	2,500.00					
Jan-1909	Jan-1910	1,800.00					
Jan-1910	Mar-1910	12,000.00					
Mar-1911	Jul-1911	2,200.00					
Mar-1913	Apr-1913	13,500.00					
Mar-1915	May-1915	12,000.00					
Mar-1915	Jul-1915	4,000.00					
Mar-1917	Sep-1917	6,500.00					
Nov-1919	Nov-1919	3,000.00					
Mar-1921	Jul-1921	7,000.00					
Dec-1922	Dec-1922	7,000.00					
May-1934	May-1934	20,000.00					
Mar-1935	Jun-1935	20,000.00					
Mar-1937	Apr-1937	60,000.00					
Jun-1939	Nov-1939	25,000.00					
Mar-1939	Jul-1939	15,000.00					
Jun-1939	Jul-1939	36,000.00					
Mar-1941	May-1941	21,000.00					
Mar-1941	May-1941	10,000.00					
Dec-1948	Mar-1949	80,000.00					
Nov-1985	Dec-1985	183,427.00					
Aug-1992	Aug-1992	680,000.00					
Apr-1994	Apr-1994	2,000,000.00					
Aug-1995	Aug-1995	1,090,000.00					
	TOTAL	**4,324,827.00**					**0.00**

The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bonds and notes are repaid, report the first three columns only.

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TOTAL COST OF PLANT - ELECTRIC

1. Report below the cost of utility plant in service according to prescribed accounts.
2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c) or (d) as appropriate.
3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.
4. Reclassifications or transfers within utility plant accounts should be shown in column (f).

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	**1. INTANGIBLE PLANT**						
2							
3							
4							
5	**2. PRODUCTION PLANT**						
6	A. Steam Production						
7	310 Land and Land Rights……						
8	311 Structures and Improvements……..						
9	312 Boiler Plant Equipment……						
10	313 Engines and Engine Driven Generators……						
11	314 Turbogenerator Units……						
12	315 Accessory Electric Equipment……..						
13	316 Miscellaneous Power Plant						
14	Equipment……						
15	**Total Steam Production Plant……**						
16	B. Nuclear Production Plant						
17	320 Land and Land Rights……						
18	321 Structures and Improvements……						
19	322 Reactor Plant Equipment……						
20	323 Turbogenerator Units……						
21	324 Accessory Electric Equipment……..						
22	325 Miscellaneous Power Plant Equipment……						
23	**Total Nuclear Production Plant…**						

Annual Report of: Town of Reading Municipal Light Department — Year ended December 31, 2018

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads. Railroads and Bridges.....						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Inprovements.....						
13	342 Fuel Holders, Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators.....	2,080,789.00	398,547.00				2,479,336.00
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant	2,080,789.00	398,547.00	0.00	0.00	0.00	2,479,336.00
19	Total Production Plant	2,080,789.00	398,547.00	0.00	0.00	0.00	2,479,336.00
20	3. Transmission Plant						
21	350 Land and Land Rights.....	25,016.00					25,016.00
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements.....	1,584,214.00					1,584,214.00
24	353 Station Equipment.....	6,057,850.00		377,099.00			5,680,751.00
25	354 Towers and Fixtures.....	86,169.00					86,169.00
26	355 Poles and Fixtures.....	128,023.00	172,225.00				300,248.00
27	356 Overhead Conductors and Devices...	94,879.00	134,782.00				229,661.00
28	357 Underground Conduits.....	44,049.00					44,049.00
29	358 Underground Conductors and Devices	61,954.00					61,954.00
30	359 Roads and Trails.....						
31	Total Transmission Plant	**8,082,154.00**	**307,007.00**	**377,099.00**	**0.00**	**0.00**	**8,012,062.00**

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TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
	Balance carried over from page 8A	**10,162,943.00**	**705,554.00**	**377,099.00**	**0.00**	**0.00**	**10,491,398.00**
1	**4. DISTRIBUTION PLANT**						
2	360 Land and Land Rights	852,341.00			(8,887.00)		843,454.00
3	361 Structures and Improvements	6,978,766.00	244,312.00				7,223,078.00
4	362 Station Equipment	10,941,171.00	606,737.00				11,547,908.00
5	363 Storage Battery Equipment	88,894.00			(23,499.00)		65,395.00
6	364 Poles, Towers and Fixtures	28,459,890.00	1,490,231.00	228,865.00			29,721,256.00
7	365 Overhead Conductors and Devices	19,720,553.00	1,121,418.00	128,082.00			20,713,889.00
8	366 Underground Conduits	8,642,825.00	112,209.00	67,752.00			8,687,282.00
9	367 Underground Conductors & Devices	9,913,978.00	732,973.00	280,831.00			10,366,120.00
10	368 Line Transformers	10,758,789.00	445,028.00	309,508.00			10,894,309.00
11	369 Services	5,880,779.00	16,751.00				5,897,530.00
12	370 Meters	4,971,358.00	166,608.00	44,257.00			5,093,709.00
13	371 Installation on Cust's Premises	0.00					0.00
14	372 Leased Prop. on Cust's Premises	0.00					0.00
15	373 Street Light and Signal Systems	3,505,658.00	440,460.00	386,564.00			3,559,554.00
16	Total Distribution Plant	**110,715,002.00**	**5,376,727.00**	**1,445,859.00**	**(32,386.00)**		**114,613,484.00**
17	**5. GENERAL PLANT**						
18	389 Land and Land Rights	397,372.00					397,372.00
19	390 Structures and Improvements	9,011,053.00	5,060.00				9,016,113.00
20	391 Office Furniture and Equipment	8,452,641.00	392,351.00	33,700.00			8,811,292.00
21	392 Transportation Equipment	4,555,163.00	201,873.00	187,961.00			4,569,075.00
22	393 Stores Equipment	135,854.00					135,854.00
23	394 Tools, Shop and Garage Equipment	522,373.00	10,698.00				533,071.00
24	395 Laboratory Equipment	492,759.00	9,095.00				501,854.00
25	396 Power Operated Equipment	0.00					0.00
26	397 Communication Equipment	2,865,186.00	11,366.00				2,876,552.00
27	398 Miscellaneous Equipment	186,339.00					186,339.00
28	399 Other Tangible Property	0.00					0.00
29	Total General Plant	**26,618,740.00**	**630,443.00**	**221,661.00**			**27,027,522.00**
30	Total Electric Plant in Service	**147,496,685.00**	**6,712,724.00**	**2,044,619.00**	**(32,386.00)**	**0.00**	**152,132,404.00**
31				**TOTAL COST OF PLANT.....**			
32							
33				Less Cost of Land, Land Rights, and Rights of Way			**1,265,842.00**
34				Total Cost upon which depreciation is based			**150,866,562.00**

The above figures should show the original cost of existing property. In case any part of the property is sold or retired, the cost of such property should be deducted from the cost of the plant. The net cost of the property, less the land values, should be taken as a basis for figuring depreciation.

COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	**UTILITY PLANT**			
2	101 Utility Plant -Electric.....	76,770,455.00	78,483,315.00	1,712,860.00
3	101 Utility Plant- Gas……			
4	123 Investment in Associated Companies.....	212,428.00	289,474.00	77,046.00
5	**Total Utility Plant.....**	**76,982,883.00**	**78,772,789.00**	**1,789,906.00**
6				
7				
8				
9				
10				
11	**FUND ACCOUNTS**			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	5,553,133.00	7,614,554.00	2,061,421.00
14	128 Other Special Funds.....	7,012,920.00	8,877,818.00	1,864,898.00
15	**Total Funds.....**	**12,566,053.00**	**16,492,372.00**	**3,926,319.00**
16	**CURRENT AND ACCRUED ASSETS**			
17	131 Cash (P. 14).....	33,849,240.00	34,456,603.00	607,363.00
18	132 Special Deposits.....	1,151,613.00	1,197,751.00	46,138.00
19	132 Working Funds.....	3,500.00	3,500.00	0.00
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	9,103,195.00	8,840,668.00	(262,527.00)
22	143 Other Accounts Receivable.....	258,978.00	64,745.00	(194,233.00)
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P. 14).....	1,523,679.00	1,486,470.00	(37,209.00)
25				
26	165 Prepayments.....	4,661,213.00	2,215,399.00	(2,445,814.00)
27	174 Miscellaneous Current Assets			
28	**Total Current and Accrued Assets...**	**50,551,418.00**	**48,265,136.00**	**(2,286,282.00)**
29	**DEFERRED DEBITS**			
30	181 Unamortized Debt Discount.....	0.00	0.00	0.00
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....	(1,980,790.00)	5,779,858.00	7,760,648.00
33	**Total Deferred Debits.....**	**(1,980,790.00)**	**5,779,858.00**	**7,760,648.00**
34				
35	**Total Assets and Other Debits.....**	**138,119,564.00**	**149,310,155.00**	**11,190,591.00**

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	**APPROPRIATIONS**			
2	201 Appropriations for Construction.....			
3	**SURPLUS**			
4	205 Sinking Fund Reserves.....	119,304.00	119,304.00	0.00
5	206 Loans Repayment.....	15,403,000.00	15,403,000.00	0.00
6	207 Appropriations for Construction Repayment..			
7	208 Unappropriated Earned Surplus (P. 12).....	85,820,539.00	93,597,354.00	7,776,815.00
8	**Total Surplus.....**	**101,342,843.00**	**109,119,658.00**	**7,776,815.00**
9	**LONG TERM DEBT**			
10	221 Bonds (P. 6).....	0.00	0.00	0.00
11	231 Notes Payable (P. 7).....			
12	**Total Bonds and Notes.....**	**0.00**	**0.00**	**0.00**
13	**CURRENT AND ACCRUED LIABILITIES**			
14	232 Accounts Payable.....	8,441,205.00	9,718,305.00	1,277,100.00
15	234 Payables to Municipality.....			
16	235 Customer Deposits.....	1,151,613.00	1,197,752.00	46,139.00
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....	14,134,959.00	18,246,700.00	4,111,741.00
19	242 Miscellaneous Current and Accrued Liabilities	3,150,134.00	3,389,312.00	239,178.00
20	**Total Current and Accrued Liabilities...**	**26,877,911.00**	**32,552,069.00**	**5,674,158.00**
21	**DEFERRED CREDITS**			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....	1,298,918.00	2,062,728.00	763,810.00
24	253 Other Deferred Credits.....		2,105,560.00	
25	**Total Deferred Credits**	**1,298,918.00**	**4,168,288.00**	**2,869,370.00**
26	**RESERVES**			
27	260 Reserves for Uncollectable Accounts.....	229,757.00	200,000.00	(29,757.00)
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	**Total Reserves.....**	**229,757.00**	**200,000.00**	**(29,757.00)**
33	**CONTRIBUTIONS IN AID OF CONSTRUCTION**			
34	271 Contributions in Aid of Construction.....	8,370,135.00	3,270,140.00	(5,099,995.00)
35	**Total Liabilities and Other Credits**	**138,119,564.00**	**149,310,155.00**	**11,190,591.00**

State below if any earnings of the Municipal Lighting Plant have been used for any purpose other than discharging indebtedness of the plant, the purpose for which used and the amount thereof.

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	**OPERATING INCOME**		
2	400 Operating Revenue (P. 37)	**99,598,462.00**	**7,666,537.00**
3	**Operating Expenses:**		
4	401 Operation Expense (P. 42)	81,649,501.00	2,853,659.00
5	402 Maintenance Expense (P. 42)	3,161,142.00	(472,531.00)
6	403 Depreciation Expense	4,384,971.00	351,977.00
7	407 Amortization of Property Losses		
9	408 Taxes (P. 49)	1,504,068.00	13,187.00
10	**Total Operating Expenses**	**90,699,682.00**	**2,746,292.00**
11	Operating Income		
12	414 Other Utility Operating Income (P. 50)		
13			
14	**Total Operating Income**	**8,898,780.00**	**4,920,245.00**
15	**OTHER INCOME**		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)	1,063,870.00	15,084.00
17	419 Interest Income	341,512.00	28,144.00
18	421 Miscellaneous Income		
19	**Total Other Income**	**1,405,382.00**	**43,228.00**
20	**Total Income**	**10,304,162.00**	**4,963,473.00**
21	**MISCELLANEOUS INCOME DEDUCTIONS**		
22	425 Miscellaneous Change in Accounting Principle		
23	426 Other Income Deductions		
24	**Total Income Deductions**	**0.00**	**0.00**
25	**Income before Interest Charges**	**10,304,162.00**	**4,963,473.00**
26	**INTEREST CHARGES**		
27	427 Interest on Bonds and Notes		
28	428 Amortization of Debt Discount and Expense		
29	429 Amortization of Premium on Debt		
30	431 Other Interest Expense	14,848.00	10,457.00
31	432 Interest Charged to Construction-Credit		
32	**Total Interest Charges**	**14,848.00**	**10,457.00**
33	**Net Income**	**10,289,314.00**	**4,953,016.00**

EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of period)		**85,820,539.00**
35	restated - Implementation of GASB 75		
36			
37	433 Balance Transferred from Income		10,289,314.00
38	434 Miscellaneous Credits to Surplus (P. 21)		32,412.00
39	435 Miscellaneous Debits to Surplus (P. 21)	121,906.00	
40	436 Appropriations of Surplus (P. 21)	2,450,138.00	
41	437 Surplus Applied to Depreciation		27,133.00
42	208 Unappropriated Earned Surplus (at end of period)	93,597,354.00	
43			
44	**TOTALS**	**96,169,398.00**	**96,169,398.00**

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operation Fund	34,456,603.00
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	
5		
6		
7		
8		
9		
10		
11		
12	**TOTAL**	34,456,603.00

MATERIALS AND SUPPLIES (Account 151-159, 163)
Summary per Balance Sheet

Line No.	Account (a)	Amount End of Year Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25)		
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154)	1,486,470.00	
17	Merchandise (Account 155)		
18	Other Materials and Supplies (Account 156)		
19	Nuclear Fuel Assemblies and Components - In Reactor (Acct 157)		
20	Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158)		
21	Nuclear Byproduct Materials (Account 159)		
22	Stores Expense (Account 163)		
23	**Total per Balance Sheet**	1,486,470.00	

Depreciation Fund Account (Account 126)

Line No.	(a)	Amount (b)
24	**DEBITS**	
25	Balance of Account at Beginning of Year	5,553,133.00
26	Income During Year from Balance on Deposit	97,948.00
27	Amount Transferred from Income	4,384,971.00
28	**TOTAL**	10,036,052.00
29		
30	**CREDITS**	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	2,421,498.00
32	Amounts Expended for Renewals	
33	Adjustment	
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year	
40	**TOTAL**	7,614,554.00

UTILITY PLANT -- ELECTRIC

1. Report below the items of utility plant in service according to prescribed accounts
2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c).
3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.
4. Reclassifications or transfers within the utility plant accounts should be shown in in column (f).

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	**1. INTANGIBLE PLANT**						
2							
3							
4							
5	**2. PRODUCTION PLANT**						
6	A. Steam Production						
7	310 Land and Land Rights						
8	311 Structures and Improvements						
9	312 Boiler Plant Equipment						
10	313 Engines and Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
14	**Total Steam Production Plant**						
15	B. Nuclear Production Plant						
16	320 Land and Land Rights						
17	321 Structures and Improvements						
18	322 Reactor Plant Equipment						
19	323 Turbogenerator Units						
20	324 Accessory Electric Equipment						
21	325 Miscellaneous Power Plant Equipment						
22	**Total Nuclear Production Plant**						
23							

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	**c. Hydraulic Production Plant**						
2	330 Land and Land Rights						
3	331 Structures and Improvements						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators						
6	334 Accessory Electric Equipment						
7	335 Miscellaneous Power Plant Equipment						
8	336 Roads, Railroads and Bridges						
9	**Total Hydraulic Production Plant**						
10	**D. Other Production Plant**						
11	340 Land and Land Rights						
12	341 Structures and Improvements						
13	342 Fuel Holders,Producers and Accessories						
14	343 Prime Movers						
15	344 Generators	2,080,141.00	398,547.00	95,385.00			2,383,303.00
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	**Total Other Production Plant**	2,080,141.00	398,547.00	95,385.00	-	-	2,383,303.00
19	**Total Production Plant**	2,080,141.00	398,547.00	95,385.00	-	-	2,383,303.00
20	**3. TRANSMISSION PLANT**						
21	350 Land and Land Rights	25,016.00	-	-			25,016.00
22	351 Clearing Land and Rights of Way	0.00	-	-			0.00
23	352 Structures and Improvements	637,909.00	-	28,378.00			609,531.00
24	353 Station Equipment	3,969,013.00	-	469,150.00			3,499,863.00
25	354 Towers and Fixtures	0.00	-	-			0.00
26	355 Poles and Fixtures	18,581.00	172,225.00	5,434.00			185,372.00
27	356 Overhead Conductors and Device	25,863.00	134,782.00	3,005.00			157,640.00
28	357 Underground Conduits	3,263.00	-	1,372.00			1,891.00
29	358 Underground Conductors and Dev	23,326.00	-	65.00			23,261.00
30	359 Roads and Trails	0.00					0.00
31	**Total Transmission Plant**	**4,702,971.00**	**307,007.00**	**507,404.00**	**0.00**	**0.00**	**4,502,574.00**

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	**4. DISTRIBUTION PLANT**						
2	360 Land and Land Rights	852,341.00	0.00	0.00		(8,887.00)	843,454.00
3	361 Structures and Improvements	4,325,957.00	244,312.00	288,917.00			4,281,352.00
4	362 Station Equipment	4,950,024.00	606,737.00	167,800.00			5,388,961.00
5	363 Storage Battery Equipment	60,833.00	0.00	2,128.00		(23,499.00)	35,206.00
6	364 Poles and Fixtures	17,569,933.00	1,490,231.00	772,562.00		(114,894.00)	18,172,708.00
7	365 Overhead Conductors and Devices	14,938,411.00	1,121,418.00	534,580.00		(128,082.00)	15,397,167.00
8	366 Underground Conduits	3,307,041.00	112,209.00	229,736.00		(27,043.00)	3,162,471.00
9	367 Underground Conductors and Devices	5,009,790.00	732,973.00	227,968.00		(72,940.00)	5,441,855.00
10	368 Line Transformers	5,237,020.00	445,028.00	215,690.00		(183,636.00)	5,282,722.00
11	369 Services	1,624,177.00	16,751.00	180,666.00			1,460,262.00
12	370 Meters	3,199,551.00	166,608.00	143,637.00		(38,008.00)	3,184,514.00
13	371 Installation on Cust's Premises						
14	372 Leased Prop. on Cust's Premises.						
15	373 Street Light and Signal Systems	2,221,423.00	440,460.00	68,176.00		(23,788.00)	2,569,919.00
16	**Total Distribution Plant**	**63,296,501.00**	**5,376,727.00**	**2,831,860.00**	**0.00**	**(620,777.00)**	**65,220,591.00**
17	**5. GENERAL PLANT**						
18	389 Land and Land Rights	397,372.00	0.00	0.00			397,372.00
19	390 Structures and Improvements	3,016,146.00	5,060.00	225,511.00			2,795,695.00
20	391 Office Furniture and Equipment	1,159,509.00	392,351.00	127,059.00			1,424,801.00
21	392 Transportation Equipment	793,287.00	201,873.00	370,660.00			624,500.00
22	393 Stores Equipment	33,769.00	0.00	1,954.00			31,815.00
23	394 Tools, Shop and Garage Equipment.	7,013.00	10,698.00			5,884.00	23,595.00
24	395 Laboratory Equipment	119,772.00	9,095.00	8,472.00			120,395.00
25	396 Power Operated Equipment						
26	397 Communication Equipment	1,118,656.00	11,366.00	208,421.00			921,601.00
27	398 Miscellaneous Equipment	45,318.00	0.00	8,245.00			37,073.00
28	399 Other Tangible Property						
29	**Total General Plant**	**6,690,842.00**	**630,443.00**	**950,322.00**	**0.00**	**5,884.00**	**6,376,847.00**
30	**Total Electric Plant in Service**	**76,770,455.00**	**6,712,724.00**	**4,384,971.00**	**0.00**	**(614,893.00)**	**78,483,315.00**
31	104 Utility Plant Leased to Others	0.00	.				0.00
32	105 Property Held for Future Use	0.00					0.00
33	107 Construction Work in Progress	0.00					0.00
34	**Total Utility Electric Plant**	**76,770,455.00**	**6,712,724.00**	**4,384,971.00**	**0.00**	**(614,893.00)**	**78,483,315.00**

PRODUCTION FUEL AND OIL STOCKS (Included in Account 151)
(Except Nuclear Materials)

1. Report below the information called for concerning production fuel and oil stocks.
2. Show quantities in tons of 2,000 lbs., gal., or Mcf., whichever unit of quantity is applicable.
3. Each kind of coal or oil should be shown separately.
4. Show gas and electric fuels separately by specific use.

Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of year					
2	Received During Year					
3	**TOTAL**					
4	Used During Year (Note A)					
5						
6						
7						
8						
9						
10						
11	Sold or Transferred					
12	**TOTAL DISPOSED OF**					
13	**BALANCE END OF YEAR**					

Line No.	Item (g)	Kinds of Fuel and Oil -- Continued			
		Quantity (h)	Cost (I)	Quantity (j)	Cost (k)
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	**TOTAL**	

OTHER INCOME DEDUCTIONS (Account 426)

Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	**TOTAL**	

MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line No.	Item (a)	Amount (b)
15		
16	Various Refunds (incl MMWEC Flush)	32,412.00
17		
18		
19		
20		
21		
22		
23	**TOTAL**	**32,412.00**

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
24		
25		
26	Loss on Disposal of Electric Plant Utility	121,906.00
27		
28		
29		
30		
31		
32	**TOTAL**	**121,906.00**

APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
33		
34	Transfer to Town of Reading	2,450,138.00
35		
36		
37		
38		
39		
40	**TOTAL**	**2,450,138.00**

MUNICIPAL REVENUES (Accounts 482,444)
(K.W.H. Sold under the Provision of Chapter 269, Acts of 1927)

Line No.	Acct No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F [$0.0000] (d)
1					
2					
3					
4		**TOTALS**			

Line No.		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. [cents] [$0.0000] (d)
5					
6					
7					
8					
9	444	Municipal: (Other than Street Lighting)	25,909,212	2,141,024.00	0.0826
10					
11					
12					
13		Municipal Street Lighting	1,405,148	161,736.00	0.1151
14					
15					
16					
17					
19		**TOTALS**	**27,314,360**	**2,302,760.00**	**0.0843**

PURCHASED POWER (Account 555)

Line No.	Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. cents [0.0000] (e)
20	MMWEC		151,108,753	8,175,151.00	0.0541
21	Braintree Watson		3,910,782	1,124,077.00	0.2874
22	Shell		114,280,950	6,579,309.00	0.0000
23	Nextera		99,048,000	4,014,631.00	0.0000
24	EDF		57,345,800	2,170,361.00	0.0378
25	Exelon		104,201,600	4,913,273.00	0.0472
27	HQ Phase 2		0	(248,767.00)	0.0000
28	Renewables/Wind/Solar/Hydro		87,774,244	6,695,970.00	0.0763
29	ISO NE		82,498,695	35,955,034.00	0.0763
30	COOP Resale		162,475	24,468.00	0.4358
31					
32					
32					
		TOTALS	**700,331,299**	**69,403,507.00**	**0.0991**

SALES FOR RESALE (Account 447)

Line No.	Names of Utilities to Which Electric Energy is Sold (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Revenues per K.W.H. [cents] [0.0000] (e)
32	NStar	Customer Premises	3,094,080	470,490.00	0.1521
33	Town of Wakefield	Customer Premises	1,097,214	91,066.00	0.0830
34	Town of Middleton	Customer Premises	9,182	1,440.00	0.1568
35					
36					
37					
38					
39					
40					
41		**TOTALS**	**4,200,476**	**562,996.00**	**0.1340**

Town of Reading Municipal Light Department — Year ended December 31, 2018

ELECTRIC OPERATING REVENUES (Account 400)

1. Report below the amount of Operating Revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.
2. If increases and decreases are not derived from previously reported figures explain any inconsistencies.
3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings are added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc.,indicate in a footnote the number of such duplicate customers included in the classification.
4. Unmetered sales should be included below. The details of such sales should be given in a footnote.
5. Classification of Commercial and Industrial Sales, Account 442, according to small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 Kw of demand. See Account 442 of the Uniform System of Accounts. Explain basis of classification.

		Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)	Amount for Year (d)	Increase or (Decrease) from Preceding Year (e)	Number for Year (f)	Increase or (Decrease) from Preceding Year (g)
1	**SALES OF ELECTRICITY**						
2	440 Residential Sales.....	26,075,278.00	1,782,701.00	256,664,339	11,799,195	26,736	337
3	442 Commercial and Industrial Sales:	29,033,546.00	970,660.00	390,229,103	2,868,707	3,776	456
4	Small (or Commercial) see instr. 5.....						
5	Large (or Industrial) see instr. 5.....						
6	444 Municipal Sales (P.22)	2,302,760.00	156,411.00	27,314,360	1,854,232	286	7
7	445 Other Sales to Public Authorities.....						
8	446 Sales to Railroads and Railways.....						
9	448 Interdepartmental Sales.....						
10	449 Miscellaneous Electric Sales.....	156,981.00	14,305.00	884,948	(34,872)	269	269
	449.1 Provision for Rate Refunds/PPCT.....	39,974,062.00	4,682,566.00				
11	**Total Sales to Ultimate Consumers.....**	**97,542,627.00**	**7,606,643.00**	**675,092,750**	**16,487,262**	**31,067**	**1,069**
12	447 Sales for Resale.....	562,996.00	50,606.00	4,200,476	131,218	20	20
13	**Total Sales of Electricity*.....**	**98,105,623.00**	**7,657,249.00**	**679,293,226**	**16,618,480**	**31,087**	**1,089**
14	**OTHER OPERATING REVENUES**						
15	450 Forfeited Discounts.....	836,709.00	4,770.00				
16	451 Miscellaneous Service Revenues (ECC).....	656,130.00	4,518.00				
17	453 Sales of Water and Water Power.....			*Includes revenues from application of fuel clauses			**31,024,852.00**
18	454 Rent from Electric Property.....						
19	455 Interdepartmental Rents.....			Total KWH to which applied			**679,293,226**
20	456 Other Electric Revenues						
21							
22							
23							
24							
25	Total Other Operating Revenues.....	**1,492,839.00**	**9,288.00**				
26	Total Electric Operating Revenues.	**99,598,462.00**	**7,666,537.00**				

SALES OF ELECTRICITY TO ULTIMATE CONSUMERS

Report by account number the K.W.H. sold, the amount derived and the number of customers under each filed schedule or contract. Municipal sales and unbilled sales may be reported separately in total

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per K.W.H. (cents) *(0.0000) (d)	Number of Customers (per Bills Rendered) Jul-18 (e)	Dec-18 (f)
1	Residential - A		256,664,339	26,075,278.00	0.1016	26,915	27,025
2	Industrial - C		390,229,103	29,033,546.00	0.0744	3,783	3,783
3	Municipal - C		25,909,212	2,141,024.00	0.0826	272	276
4	Street Lighting		1,405,148	161,736.00	0.1151	16	14
5	Private Street Lighting		884,948	156,981.00	0.1774	267	269
6							
7	Provision for Purchased Power Adjustments			39,974,062.00			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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47							
48	TOTAL SALES TO ULTIMATE						
49	CONSUMERS (Page 37 Line 11)		**675,092,750**	**97,542,627.00**	**0.1445**	**31,253**	**31,367**

ELECTRIC OPERATION AND MAINTENANCE EXPENSES

1. Enter in the space provided the operation and maintenance expenses for the year.
2. If the increases and decreases are not divided from previously reported figures explain in footnote.

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	**POWER PRODUCTION EXPENSE**		
2	**STEAM POWER GENERATION**		
3	**Operation:**		
4	500 Operation Supervision and Engineering		
5	501 Fuel		
6	502 Steam Expense		
7	503 Steam from Other Sources		
8	504 Steam Transferred -- Cr		
9	505 Electric Expenses		
10	506 Miscellaneous Steam Power Expenses		
11	507 Rents		
12	**Total Operation**	**0.00**	**0.00**
13	**Maintenance:**		
14	510 Maintenance Supervision and Engineering		
15	511 Maintenance of Structures		
16	512 Maintenance of Boiler Plant		
17	513 Maintenance of Electric Plant		
18	514 Maintenance of Miscellaneous Steam Plant		
19	**Total Maintenance**	**0.00**	**0.00**
20	**Total Power Production Expenses -- Steam Power**	**0.00**	**0.00**
21	**NUCLEAR POWER GENERATION**		
22	**Operation:**		
23	517 Operation Supervision and Engineering		
24	518 Fuel		
25	519 Coolants and Water		
26	520 Steam Expense		
27	521 Steam from Other Sources		
28	522 Steam Transferred -- Cr		
29	523 Electric Expenses		
30	524 Miscellaneous Nuclear Power Expenses		
31	525 Rents		
32	**Total Operation**	**0.00**	**0.00**
33	**Maintenance:**		
34	528 Maintenance Supervision and Engineering		
35	529 Maintenance of Structures		
36	530 Maintenance of Reactor Plant Equipment		
37	531 Maintenance of Electric Plant		
38	532 Maintenance of Miscellaneous Nuclear Plant		
39	**Total Maintenance**	**0.00**	**0.00**
40	**Total Power Production Expenses -- Nuclear Power**	**0.00**	**0.00**
41	**HYDRAULIC POWER GENERATION**		
42	**Operation:**		
43	535 Operation Supervision and Engineering		
44	536 Water for Power		
45	537 Hydraulic Expenses		
46	538 Electric Expenses		
47	539 Miscellaneous Hydraulic Power Generation Expenses		
48	540 Rents		
49	**Total Operation**	**0.00**	**0.00**

(continued on page 40)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	**HYDRAULIC POWER GENERATION - CONTINUED**		
2	**Maintenance:**		
3	541 Maintenance Supervision and Engineering		
4	542 Maintenance of Structures		
5	543 Maintenance of Reservoirs, Dams and Waterways		
6	544 Maintenance of Electric Plant		
7	545 Maintenance of Miscellaneous Hydraulic Plant		
8	**Total Maintenance**	**0.00**	**0.00**
9	**Total Power Production Expenses - Hydraulic Power**	**0.00**	**0.00**
10	**OTHER POWER GENERATION**		
11	**Operation:**		
12	546 Operation Supervision and Engineering		
13	547 Fuel	31,039,844.00	1,359,957.00
14	548 Operation Expenses		
15	549 Miscellaneous Other Power Generation Expenses		
16	550 Rents		
17	**Total Operation**	**31,039,844.00**	**1,359,957.00**
18	**Maintenance:**		
19	551 Maintenance Supervision and Engineering		
20	552 Maintenance of Structure		
21	553 Maintenance of Generating and Electric Plant		
22	554 Maintenance of Miscellaneous Other Power Generation Plant		
23	**Total Maintenance**	**0.00**	**0.00**
24	**Total Power Production Expenses - Other Power**	**0.00**	**0.00**
25	**OTHER POWER SUPPLY EXPENSES**		
26	555 Purchased Power	24,476,592.00	1,822,601.00
27	556 System Control and Load Dispatching		
28	557 Other Expenses	0.00	163,661.00
29	**Total Other Power Supply Expenses**	**24,476,592.00**	**1,986,262.00**
30	**Total Power Production Expenses**	**55,516,436.00**	**3,346,219.00**
31	**TRANSMISSION EXPENSES**		
32	**Operation:**		
33	560 Operation Supervision and Engineering		
34	561 Load Dispatching		
35	562 Station Expenses		
36	563 Overhead Line Expenses		
37	564 Underground Line Expenses		
38	565 Transmission of Electricity by Others	13,887,359.00	453,062.00
39	566 Miscellaneous Transmission Expenses		
40	567 Rents		
41	**Total Operation**	**13,887,359.00**	**453,062.00**
42	**Maintenance:**		
43	568 Maintenance Supervision and Engineering	0.00	0.00
44	569 Maintenance of Structures		
45	570 Maintenance of Station Equipment		
46	571 Maintenance of Overhead Lines		
47	572 Maintenance of Underground Lines		
48	573 Maintenance of Miscellaneous Transmission Plant		
49	**Total Maintenance**	**0.00**	**0.00**
50	**Total Transmission Expenses**	**13,887,359.00**	**453,062.00**

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	**DISTRIBUTION EXPENSES**		
2	**Operation:**		
3	580 Operation Supervision and Engineering	774,288.00	292,315.00
4	581 Load Dispatching	701,525.00	(193,309.00)
5	582 Station Expenses	816,126.00	412,374.00
6	583 Overhead Line Expenses	145,718.00	145,718.00
7	584 Underground Line Expenses		
8	585 Street Lighting and Signal System Expenses	286,409.00	220,041.00
9	586 Meter Expenses	162,747.00	(95,127.00)
10	587 Customer Installations Expenses		
11	588 Miscellaneous Distribution Expenses	510,748.00	4,761.00
12	589 Rents		
13	**Total Operation**	**3,397,561.00**	**786,773.00**
14	**Maintenance:**		
15	590 Maintenance Supervision and Engineering	0.00	(563,083.00)
16	591 Maintenance of Structures		
17	592 Maintenance of Station Equipment		
18	593 Maintenance of Overhead Lines	1,665,482.00	(245,462.00)
19	594 Maintenance of Underground Lines	46,048.00	(120,818.00)
20	595 Maintenance of Line Transformers	141,487.00	63,790.00
21	596 Maintenance of Street Lighting and Signal Systems		
22	597 Maintenance of Meters		
23	598 Maintenance of Miscellaneous Distribution Plant	244,787.00	244,787.00
24	**Total Maintenance**	**2,097,804.00**	**(620,786.00)**
25	**Total Distribution Expenses**	**5,495,365.00**	**165,987.00**
26	**CUSTOMER ACCOUNTS EXPENSES**		
27	**Operation:**		
28	901 Supervision		
29	902 Meter Reading Expenses	18,467.00	(7,310.00)
30	903 Customer Records and Collection Expenses	1,722,075.00	(5,441.00)
31	904 Uncollectable Accounts	41,863.00	(43,844.00)
32	905 Miscellaneous Customer Accounts Expenses		
33	**Total Customer Accounts Expenses**	**1,782,405.00**	**(56,595.00)**
34	**SALES EXPENSES**		
35	**Operation:**		
36	911 Supervision		
37	912 Demonstrating and Selling Expenses		
38	913 Advertising Expenses		
39	916 Miscellaneous Sales Expense	1,403,321.00	91,299.00
40	**Total Sales Expenses**	**1,403,321.00**	**91,299.00**
41	**ADMINISTRATIVE AND GENERAL EXPENSES**		
42	**Operation:**		
43	920 Administrative and General Expenses	1,389,103.00	338,371.00
44	921 Office Supplies and Expenses	9,328.00	(336,938.00)
45	922 Administrative Expenses Transferred - Cr		
46	923 Outside Services Employed	1,122,579.00	182,119.00
47	924 Property Insurance	340,061.00	1,863.00
48	925 Injuries and Damages	76,340.00	4,326.00
49	926 Employees Pensions and Benefits	2,391,755.00	(1,971,879.00)
50	928 Regulatory Commission Expenses		
51	929 Duplicate Charges - Cr		
52	930 Miscellaneous General Expenses	142,501.00	17,311.00
53	931 Rents	190,752.00	(2,272.00)
54	**Total Operation**	**5,662,419.00**	**(1,767,099.00)**

ELECTRIC OPERATION AND MAINTENANCE EXPENSES -- Continued

Line No.	Account (a)		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	**ADMINISTRATIVE EXPENSES**			
2	**Maintenance:**			
3	932 Maintenance of General Plant		1,063,338.00	148,255.00
4	**Total Maintenance**		**1,063,338.00**	**148,255.00**
5	**Total Administrative and General Expenses**		**6,725,757.00**	**(1,618,844.00)**

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
6	Power Production Expenses			
7	Electric Generation			
8	Steam Power			
9	Nuclear Power			
10	Hydraulic Power			
11	Other Power	31,039,844.00		31,039,844.00
12	Other Power Supply Expenses	24,476,592.00		24,476,592.00
13	**Total Power Production Expenses**	**55,516,436.00**		**55,516,436.00**
14	Transmission Expenses	13,887,359.00	0.00	13,887,359.00
15	Distribution Expenses	3,397,561.00	2,097,804.00	5,495,365.00
16	Customer Accounts Expenses	1,782,405.00		1,782,405.00
17	Sales Expenses	1,403,321.00		1,403,321.00
18	Administrative and General Expenses	5,662,419.00	1,063,338.00	6,725,757.00
19				
20	**Total Electric Operation and Maintenance Expenses**	**81,649,501.00**	**3,161,142.00**	**84,810,643.00**

21	Ratio of Operating Expenses to Operating Revenues (carry out decimal two places, (e.g. 0.00%) Compute by dividing Revenues (acct 400) into the sum of Operation and Maintenance Expenses (Page 42, Line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)	89.56%
22	Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts	9,261,216.00
23	Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees)	67

TAXES CHARGED DURING YEAR

1. This schedule is intended to give the account distribution of total taxes charged to operations and other final accounts accounts during the year.
2. Do not include gasoline and other sales taxes which have been charged to accounts to which the material on which the tax was levied was charged. If the actual or estimated amounts of such taxes are known, they should be shown as a footnote and designated whether estimated or actual amounts.
3. The aggregate of each kind of tax should be listed under the appropriate heading of "Federal," "State," and "Local" in such manner that the total tax for each State and for all subdivisions can readily be ascertained.
4. The accounts to which the taxes charged were distributed should be shown in columns (c) to (h). Show both the utility department and number of account charged. For taxes charged to utility plant show the number of appropriate balance sheet plant account or subaccount.
5. For any tax which it was necessary to apportion to more than one utility department or account, state in a footnote the basis or apportioning such tax.
6. Do not include in this schedule entries with respect to deferred income taxes, or taxes collected through payroll deductions or otherwise pending transmittal of such taxes to the taxing authority.

Line No.	Kind of Tax (a)	Total Taxes Charged During Year (omit cents) (b)	Distribution of Taxes Charged (omit cents) (Show utility department where applicable and account charged) Electric (Acct. 408, 409) (c)	Gas (Acct. 408,409) (d)	(e)	(f)	(g)	(h)	(I)	(j)
1										
2										
3										
4	Voluntary Payment to Towns	1,504,068.00	1,504,068.00							
5										
6										
7										
8										
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26										
27										
28	**TOTAL**	1,504,068.00	1,504,068.00							

OTHER UTILITY OPERATING INCOME (Account 414)

Report below the particulars called for in each column.

Line No.	Property (a)	Amount of Investment (b)	Amount of Revenue (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2					
3					
4					
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49					
50					
51	**TOTALS**				

INCOME FROM MERCHANDISE, JOBBING AND CONTRACT WORK (Account 415)

Report by utility departments the revenues, costs, expenses, and net income from merchandising, jobbing, and contract work during year.

Line No.	Item (a)	Electric Department (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandising Sales, less Discounts,				
3	Allowances and Returns.....	957,483.00			957,483.00
4	Contract Work - Street Lights.....				
5	Commissions.....				
6	Other (List according to major classes)				
7					
8					
9					
10	Total Revenues.....	**957,483.00**			**957,483.00**
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to major				
15	classes of cost).....	106,387.00			106,387.00
16					
17	Labor				
18	Materials				
19					
20					
21					
22					
23					
24					
25					
26	Sales Expenses.....				
27	Customer Accounts Expenses.....				
28	Administrative and General Expenses.....				
29					
30					
31					
32					
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49					
50	**TOTAL COSTS AND EXPENSES**	**106,387.00**			**106,387.00**
51	**Net Profit (or Loss)**	**1,063,870.00**			**1,063,870.00**

SALES FOR RESALE (Acccount 447)

1. Report sales during year to other electric utilities and to cities or other public authorities for distribution to ultimate consumers.

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) other public authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP;other G, and place an "x" in column (c) if sale involves export across a state line.

3. Report separately firm, dump, and other power sold to the same utility. Describe the nature of any sales classified as other power, column (b).

4. If delivery is made at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; customer owned or leased, CS.

Line No.	Sales to	Statistical Classification	Export Across State Lines	Point of Delivery	Substation	Kw or Kva of Demand (Specify which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21				None				
22								
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42								

SALES FOR RESALE (Account 447) - Continued

5 If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billings to the customer this number should be shown in column (f).. The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and should be furnished whether or not used in the determination of demand charges. Show in column (i) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).

6. The number of Kilowatt-hours sold should be the quantities shown by the bills rendered to the purchasers.

7. Explain any amounts entered in column (n) such as fuel or other adjustments.

8. If a contract covers several points of delivery and small amounts of electric energy are delivered at each point, such sale may be grouped.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents) Demand Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)	Revenue per Kwh (cents) [0.0000] (p)	Line No.
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
			None					17
								18
								19
								20
								21
								22
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								25
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								27
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								36
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								40
								41
	TOTALS							42

PURCHASED POWER (Account 555)

1. Report power purchased for resale during the year. Exclude from this schedule and report on page 56 particulars concerning interchange power transactions during the year.

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A. Cooperatives, and (7) Other Public Authorities. For each purchase designate statisical classfication in column (b), thus: firm power, FP; dump or surplus power DP; other, O, and place an "X" in column (c) if purchase involves import across a state line.

3. Report separately firm, dump, amd othe power purchased from the same company. Describe the nature of any purchases classified as Other Power, column (b).

Line No.	Purchased From	Statistical Classification	Import Across State Lines	Point of Receipt	Substation	Kw or Kva Demand (Specify Which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	PEAKING PROJECT	O		Town Line		24,980	KW	
2	INTERMEDIATE PROJECT	O		Town Line		42,925	KW	
3	NUC. MIX ONE - SEABROOK	O	X	Town Line		293	KW	
4	NUC. MIX ONE - MILLSTONE 3	O	X	Town Line		2,893	KW	
5	NUCLEAR PROJECT THREE	O	X	Town Line		2,057	KW	
6	NUCLEAR PROJECT FOUR	O	X	Town Line		6,798	KW	
7	NUCLEAR PROJECT FIVE	O	X	Town Line		823	KW	
8	NYPA	O	X	Town Line				
9	BRAINTREE WATSON UNIT	FP		Town Line				
10	SHELL ENERGY	FP	X	Town Line				
11	NEXTERA	O	X	Town Line				
12	EDF	O	X	Town Line				
13	EXELON	O	X	Town Line				
14	HQ PH.1 TRANS. SUPP. VEC	O	X	Town Line				
15	HQ PH.1 TRANS. SUPP. NEE	O	X	Town Line				
16	HQ PH. 2	O	X	Town Line				
17	ISO -NE/ LNS	FP		Town Line		154,639	KW	
18	ISO -NE OTHER	O		Town Line				
19	ALTUS	O		Town Line				
20	KEARSARGE	O		Town Line				
21	INDIAN RIVER HYDRO	FP		Town Line				
22	HYDRO PROJECTS*	O		Town Line				
23	SADDLEBACK WIND	O	X	Town Line				
24	JERICHO WIND	O		Town Line				
25	ONE BURLINGTON SOLAR	O	X	Town Line				
26	COOP RESALE (NGRID/MELD)	O		Town Line				
27				Town Line				
28				Town Line				
29				Town Line				
30				Town Line				
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
	TOTALS					**235,408**		

PURCHASED POWER (Account 555) - Continued

(except interchange power)

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS.
5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and should be furnished whether or not used in the determination of demand charges. Show in column (l) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).
6. The number of kilowatt hours purchased should be the quantities shown by the power bills.
7. Explain any amount entered in column (n) such as fuel or other adjustments.

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents) Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)	Cents per KWH (cents) [0.0000] (p)	Line No.
60 Minute	115,000	1,291,356	580,830	251,187	29,193	861,210	0.6669	1
60 Minute	115,000	14,956,735	1,908,141	1,195,582	48,702	3,152,425	0.2108	2
60 Minute	115,000	2,410,526	58,143	13,987	153	72,283	0.0300	3
60 Minute	115,000	25,327,020	815,025	161,541	17,159	993,725	0.0392	4
60 Minute	115,000	18,050,717	591,614	115,133	12,446	719,193	0.0398	5
60 Minute	115,000	54,737,419	1,419,357	317,607	3,469	1,740,433	0.0318	6
60 Minute	115,000	6,751,597	177,725	39,175	428	217,328	0.0322	7
60 Minute	115,000	27,583,383	(198,935)	143,934	473,554	418,553	0.0152	8
60 Minute	115,000	3,910,782	480,999	643,078	0	1,124,077	0.2874	9
60 Minute	115,000	114,280,950	0	6,579,309	0	6,579,309	0.0576	10
60 Minute	115,000	99,048,000	0	4,014,631	0	4,014,631	0.0405	11
60 Minute	115,000	57,345,800	0	2,170,361	0	2,170,361	0.0378	12
60 Minute	115,000	104,201,600	0	4,913,273	0	4,913,273	0.0472	13
60 Minute	115,000	0	11,622	0	0	11,622	0.0000	14
60 Minute	115,000	0	32,546	0	0	32,546	0.0000	15
60 Minute	115,000	0	(292,936)	0	0	(292,936)	0.0000	16
60 Minute	115,000	0	0	0	0	0	0.0000	17
60 Minute	115,000	82,498,695	18,938,553	4,304,722	13,302,255	36,545,530	0.4430	18
60 Minute	115,000	0	0	(590,495)	0	(590,495)	0.0000	19
60 Minute	115,000	1,436,840	0	105,477	0	105,477	0.0734	20
60 Minute	115,000	2,095,305	0	157,148	0	157,148	0.0750	21
60 Minute	115,000	0	0	0	0	0	0.0000	22
60 Minute	115,000	0	0	0	0	0	0.0000	23
60 Minute	115,000	0	0	0	0	0	0.0000	24
60 Minute	115,000	58,612,813	0	4,230,901	0	4,230,901	0.0722	25
60 Minute	115,000	0	0	0	0	0	0.0000	26
60 Minute	115,000	0	0	0	0	0	0.0000	27
60 Minute	115,000	14,381,574	(46,092)	1,235,481	0	1,189,389	0.0827	28
60 Minute	115,000	8,460,228	0	811,806	0	811,806	0.0960	29
60 Minute	115,000	2,787,484	0	201,250	0	201,250	0.0722	30
60 Minute	115,000	162,475	0	24,468	0	24,468	0.1506	31
60 Minute	115,000	0	0	0	0	0	0.0000	32
								33
								34
								35
								36
								37
								38
								39
								40
								41
	TOTALS	**700,331,299**	**24,476,592**	**31,039,556**	**13,887,359**	**69,403,507**	**0.0991**	42

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.
2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A., Cooperatives, and (7) Other Public Authorities. For each interchange across a state line place an "X" in column (b).
3. Particulars of settlements for interchange power shall be furnished in Part B, Details of Settlement for Interchange Power. If settlement for any transaction also includes credit or debit amounts other than for increment generation expenses, show such other component amounts separately, in addition to debit or credit for increment generation expenses, and give a brief explanation of the factors and principles under which such other component amounts were determined. If such settlement represents the net of debits and credits under an interconnection, power pooling, coordination, or other such arrangement, submit a copy of the annual summary of transactions and billings among the parties to the agreement. If the amount of settlement reported in this schedule for any transaction does not represent all of the charges and credits covered by the agreement, furnish in a footnote a description of the other debits and credits and state the amounts and accounts in which such other amounts are included for the year.

A. Summary of Interchange According to Companies and Points of Interchange

Line No.	Name of Company	Interchange Across State Lines	Point of Interchange	Voltage at Which Interchanged	Kilowatt-hours			Amount of Settlement
					Received	Delivered	Net Difference	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	ISO-NE	NO	NEPEX	115,000	82,498,695		82,498,695	4,304,722
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12				**TOTALS**	**82,498,695**	**0**	**82,498,695**	**4,304,722**

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)						Amount (k)
13	NEPEX	Kwh Received	Adjusted Net Interchange					82,498,695
14								
15								
16								
17								
18		Kwh Delivered	Adjusted Net Interchange					
19								
20								
21							**TOTALS**	**82,498,695**

ELECTRIC ENERGY ACCOUNT

Report below the information called for concerning the disposition of electric generated, purchased, and interchanged during the year.

Line No.	Item (a)			Kilowatt-hours (b)
1	**SOURCES OF ENERGY**			
2	Generation (excluding station use):			
3	Steam			
4	Nuclear			
5	Hydro			
6	Other			
7	Total generation			
8	Purchases			617,832,604
9		{ In (gross)	**82,498,695**	
10	Interchanges	{ Out (gross)	**0**	
11		{ Net (Kwh)		
12		{ Received		
13	Transmission for/by others (Wheeling	{ Delivered		
14		{ Net (kwh)		
15	**TOTAL**			**700,331,299**
16	**DISPOSITION OF ENERGY**			
17	Sales to ultimate consumers (including interdepartmental sales)			675,092,750
18	Sales for resale			4,200,476
19	Energy furnished without charge			
20	Energy used by the company (excluding station use)			
21	Electric department only			682,500
22	Energy losses:			
23	Transmission and conversion losses		**20,355,573**	
24	Distribution losses			
25	Unaccounted for losses		**0**	
26	Total energy losses			20,355,573
27	Energy losses as percent of total on line 15	2.91%		
28	Losses within RMLD system	0.00%	**TOTAL**	**700,331,299**

MONTHLY PEAKS AND OUTPUT

1. Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in killowatt-hours) for the combined sources of electric energy of respondent.
2. Monthly peak col. (b) should be respondent's maximum Kw load as measured by the sum of its coincidental net generation and purchases plus or minus net interchange minus temporary deliveries (not interchange) or emergency power to another system. Monthly peak including such emergency deliveries should be shown in a footnote with a breif explanation as to the nature of the emergency.
3. State type of monthly peak reading (instantaneous 15, 30, or 60 minute integrated.)
4. Monthly output should be the sum of respondent's net generation and purchases plus or minus net interchange and plus or minus net transmission or wheeling. Total for the year should agree with line 15 above.
5. If the respondent has two or more power systems and physically connected, the information called for below should be furnished for each system.

_____System

Monthly Peak

Line No.	Month (a)	Kilowatts (b)	Day of Week (c)	Day of Month (d)	Hour (e)	Type of Reading (f)	Monthly Output (kwh) See Instr. 4) (g)
29	January	108,096	Tuesday	2	1800	Integrated	60,368,297
30	February	96,259	Wednesday	7	1800	Integrated	50,211,908
31	March	90,379	Wednesday	7	1800	Integrated	54,926,092
32	April	86,933	Sunday	15	2100	Integrated	49,837,567
33	May	107,880	Thursday	31	1800	Integrated	54,850,361
34	June	135,950	Monday	18	1700	Integrated	58,792,691
35	July	152,472	Tuesday	3	1500	Integrated	72,638,493
36	August	163,635	Wednesday	29	1500	Integrated	74,896,135
37	September	154,835	Thursday	6	1500	Integrated	58,147,190
38	October	102,394	Wednesday	10	1600	Integrated	52,616,647
39	November	104,573	Tuesday	27	1400	Integrated	53,056,009
40	December	98,966	Monday	10	1400	Integrated	59,989,909
41						**TOTAL**	**700,331,299**

GENERATING STATION STATISTICS (Large Stations)
(Except Nuclear, See Instruction 10)

1. Large stations for the purpose of this schedule are steam and hydro stations of 2,500 Hw* or more of installed capacity and other stations of 500 Kw* or more of installed capacity (name plate ratings). (*10,000 Kw and 2,500 Kw, respectively, if annual electric operating revenues of respondent are $25,000,000 or more.)
2. If any plant is leased, operated under a license from the Federal Power Commission, or operated as a joint facility, indicate such facts by the use of asterisks and footnotes.
3. Specify if total plant capacity is reported in kva instead of kilowatts as called for on line 5.
4. If peak demand for 60 minutes is not available, give that which is available, specifying period.
5. If a group of employees attends more than one generating station, report on line 11 the approximate average number of employees assignable to each station.
6. If gas is used and purchased on a therm basis, the B.t.u. content of the gas should be given and the quantity of fuel consumed converted to M cu. ft.
7. Quantities of fuel consumed and the average cost per unit of fuel consumed should be consistent with charges to expense 501and

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
1	Kind of plant (steam, hydro, int. com., gas turbine			
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.)			
3	Year originally constructed			
4	Year last unit was installed			
5	Total installed capacity (maximum generator name plate ratings in kw)			
6	Net peak demand on plant-kilowatts (60 min.)			
7	Plant hours connected to load			
8	Net continuous plant capability, kilowatts:			
9	(a) When not limited by condenser water			
10	(b) When limited by condenser water			
11	Average number of employees			
12	Net generation, exclusive of station use			
13	Cost of plant (omit cents):			
14	Land and land rights			
15	Structures and improvements			
16	Reservoirs, dams, and waterways			
17	Equipment costs			
18	Roads, railroads, and bridges			
19	**Total cost**			
20	**Cost per kw of installed capacity**			
21	Production expenses:			
22	Operation supervision and engineering			
23	Station labor			
24	Fuel			
25	Supplies and expenses, including water			
26	Maintenance			
27	Rents			
28	Steam from other sources			
29	Steam transferred -- Credit			
30	**Total production expenses**			
31	**Expenses per net Kwh (5 places)**			
32	Fuel: Kind			
33	Unit: (Coal-tons of 2,000 lb.) (Oil-barrels of 42 gals.) (Gas-M cu. ft.) (Nuclear, indicate)			
34	Quantity (units) of fuel consumed			
35	Average heat content of fuel (B.t.u. per lb. of coal, per gal. of oil, or per cu. ft. of gas)			
36	Average cost of fuel per unit, del. f.o.b. plant			
37	Average cost of fuel per unit consumed			
38	Average cost of fuel consumed per million B.t.u.			
39	Average cost of fuel consumed per kwh net gen.			
40	Average B.t.u. per kwh net generation			
41				
42				

STEAM GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station or portion thereof for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output,

Line No.	Name of Station (a)	Location of Station (b)	Number and Year Installed (c)	Boilers			
				Kind of Fuel and Method of Firing (d)	Rated Pressure in lbs. (e)	Rated Steam Temperature* (f)	Rated Max. Continuous M lbs.Steam per Hour (g)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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35							
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37							

Note Reference:

* Indicates reheat boilers thusly, 1050/1000.

GENERATING STATION STATISTICS (Large Stations) -- Continued
(Except Nuclear, See Instuction 10)

547 as shown on Line 24

8. The items under cost of plant and production expenses represents accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production expenses, however, do not include Purchased Power, System Control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."

9. If any plant is equipped with combinations of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if a gas turbine unit functions in a combined operations with a conventional steam unit, the gas turbine shold be included with the steam station.

10. If the respondent operates a nuclear power generating station submit: (a) a brief explanatory statement concerning accounting for the cost of power generated including any attribution of excess costs to research and development expenses: (b) a brief explanation of the fuel accounting specifying the accounting methods and types of cost units used with respect to tthe various components of the fuel cost, and (c) such additional information as may be informative concerning the type of plant, kind of fuel used, and other physical and operating characteristics of the plant.

Plant (e)	Plant (f)	Plant (g)	Plant (h)	Plant (I)	Plant (j)	Line No.
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
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						37
						38
						40
						41
						42

STEAM GENERATING STATIONS -- Continued

expenses ro revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
4. Designate any generating station or portion thereof leased to another company and give name or lesse, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.

5. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Turbine-Generators*

Year Installed (h)	Type (l)	Steam Pressure at Throttle p.s.l.g. (j)	R.P.M. (k)	Name Plate Rating in Kilowatts		Hydrogen Pressure**		Power Factor (p)	Voltage K.v.++ (q)	Station Capacity Maximum Name Plate Rating*+ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
											1
											2
											3
											4
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											36
				TOTALS							37

Note references:

*Report cross-compound turbine-generator units on two lines -- H.P. section and L.P. section.

+ Indicate tandem-compound (T.C.); cross-compound (C.C.); all single casing (S.C.); topping unit (T), and noncondensing (N.C.). Show back pressures.

** Designate air cooled generators.

++ If other than 3 phase, 60 cycle, indicate other characteristics.

*+ Shoule agree with column (m).

HYDROELECTRIC GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion therof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as

Line No.	Name of Station (a)	Location (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1							
2							
3							
4							
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37							

* Horizontal or vertical. Also inidcate type of runner -- Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), Impulse (I).

HYDROELECTRIC GENERATING STATIONS -- Continued

percent of ownership by respondent, name of co-owner basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
4. Designate any generating station or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.
5. Designate any plant or equipment owned, not operated and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Water Wheels -- Continued			Generators							
Design Head (h)	R.P.M. (l)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Fre-quency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)	Total Installed Generating Capacity in Kil-owatts (name plate ratings) (q)	Line No.
										1
										2
										3
										4
										5
										6
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										36
										37
										38
						TOTALS				39

COMBUSTION ENGINE AND OTHER GENERATING STATIONS
(except nuclear stations)

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent owner-

Line No.	Name of Station (a)	Location of Station (b)	Prime Movers				
			Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Cycle (f)	Belted or Direct Connected (g)
1							
2							
3							
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COMBUSTION ENGINE AND OTHER GENERATING STATIONS -- Continued

(except nuclear stations)

ship by respodent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.
4. Designate any generating station or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.
5. Designate any plant or equipment owned, not operated and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

Prime Movers -- Continued			Generators						
Rated hp. of Unit (h)	Total Rated hp. of Station Prime Movers (l)	Year Installed (j)	Voltage (k)	Phase (l)	Frequency or d.c. (m)	Name Plate Rating of Unit in Kilowatts (n)	Number of Units in Station (o)	Total Installed Generating Capacity in Kilowatts (name plate ratings) (q)	Line No.
									1
									2
									3
									4
									5
									6
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									10
									11
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					TOTALS				38
									39

GENERATING STATION STATISTICS (Small Stations)

1. Small generating stations, for the purpose of this schedule, are steam and hydro stations of less than 2,500 KW* and other stations of less than 500 KW* installed capacity (name plate ratings). (*10,000 KW and 2,500 KW, respectively, if annual electric operating revenues of respondent are $25,000,000 or more.
2. Designate any plant leased from others, operated under a license from the Federal Power Commision, or operated as a joint facility, and give a concise statement of the facts in a footnote.
3. List plants appropriately under subheadings for steam, hydro, nuclear internal combustion engine and gas turbine stations. For nuclear, see instructions 10 page 59.
4. Specify if total plant capacity is reported in kva instead of kilowatts.
5. If peak demand for 60 minutes is not available, give that which is available, specifying period.
6. If any plant is equipped with combustions of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water cycle, report as one plant.

Line No.	Name of Plant (a)	Year Const. (b)	Installed Capacity Name Plate Rating - KW (c)	Peak Demand KW (60 Min.) (d)	Net Generation Excluding Station Use (e)	Cost of Plant (Omit Cents) (f)	Plant Cost Per KW Inst. Capacity (g)	Production Expenses Exclusive of Depreciation and Taxes (Omit Cents)			Kind of Fuel (k)	Fuel Cost Per KWH Net Generation (Cents) 0.00 (l)
								Labor (h)	Fuel (I)	Other (j)		
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
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27												
28	TOTALS											

TRANSMISSION LINE STATISTICS

Reposrt information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage	Type of Supporting Structure	Length (Pole Miles)		Number of Circuits	Size of Conductor and Material
	From (a)	To (b)	(c)	(d)	On Structures of Line Designated (e)	On Structures of Another Line (f)	(g)	(h)
1	Woburn/	Causeway Rd.	115 kV	Single	.46 Miles	No	1.00	795 MCM
2	Reading	Reading		Wood Poles				ALL ALUM
3	211-503							
4								
5	Woburn/	Causeway Rd.	115 kV	Single	.46 Miles	No	1.00	795 MCM
6	Reading	Reading		Wood Poles				ALL ALUM
7	211-504							
8								
9								
10								
11								
12								
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15								
16								
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41								
42								
43								
44								
45								
46								
47				TOTALS				

* Where other than 60 cycle, 3 phase, so indicate.

SUBSTATIONS

1. Report below rhe information called for concerning substations of the respondent as of the end of the year.
2. Substations which serve but one industrial or street railway customer should not be listed hereunder.
3. Substations with capacities of less than 5000 Kva, except those serving customers with energy for resale, may be grouped according to functional character, but the number of such substations must be shown.
4. Indicate in column (b) the functional character or each sub-station, designating whether transmission or distribution and whether attended or unattended.
5. Show in columns (i), (j), and (k) special equipment such as rotary converters, reflectors, condensers, etc. and auxilary equipment for increasing capacity.
6. Designate substations or major items of equipment leased from others, jointly owned with others, or operated otherwise than by reason of sole ownership by the respondent. For any substation or equipment operated under lease, give name of lessor, date and period of lease and annual rent. For any substation or equipment operated other than by reason of sole ownership or lease, give name of co-owner or other party, explain basis of sharing expenses of other accounting between the parties, and state amounts and accounts affected in respondent's books of account. Specify in each case whether lessor, co-owner, or other party is an associated company.

Line No.	Name and Location of Substation (a)	Character of Substation (b)	VOLTAGE Primary (c)	VOLTAGE Secondary (d)	VOLTAGE Tertiary (e)	Capacity of Substation in Kva (in Service) (f)	Number Of Trans-formers in Service (g)	Number of Spare Trans-formers (h)	Conversion Apparatus and Special Equipment Type of Equipment (i)	Conversion Apparatus and Special Equipment Number Of Units (j)	Conversion Apparatus and Special Equipment Total Capacity (k)
1											
2	Gaw Station - Causeway Rd., Reading	unattended dist.	115 kv	19,900 / 34,500	----	80,000	2	0			
3											
4			115 kv	7,970	----	180,000	3	0			
5				13,800							
6											
7					----						
8											
9											
10	Wildwood St., Wilmington	unattended dist.	35,000	7,970 / 13,800	----	80,000	2	0	--------	----	----
11											
12	Chestnut St., North Reading	unattended dist.	115 kv	7,970 / 13,800	----	120,000	2	0	--------	----	----
13											
14											
15											
16											
17	All transformer ratings are at the top forced air rating.										
18											
19											
20											
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31											
32											

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	339.32	0.00	339.32
2	Added During Year	0.38		0.38
3	Retired During Year	0.00		0.00
4	Miles - End of Year	339.70	0.00	339.70
5				
6	***Due to the upgraded GIS system, this information is more accurate - no increased mileage.***			
7				
8	Distribution System Characteristics - A.C. or D.C.,or Phase and Operating Voltages for Light and Power.			
9				
10				
11	3 Phase 4 Wire 4160 GRDY / 2400			
12	4 Phase 4 Wire 13800 GRDY / 7970			
13				
14				
15				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
16	Number at beginning of year	30,566	31,131	**4,593**	315,023.5
17	Additions during year:				
18	Purchased		188	106	9,305.0
19	Installed	173			
20	Associated with Utility Plant Acquired				
21	**Total additions**	**173**	**188**	**106**	**9,305.0**
22	Reduction During Year:				
23	Retirements	128	194	134	6,104.5
24	Associated with Utility Plant Sold				
25	**Total Reductions**	**128**	**194**	**134**	**6,104.5**
26	**Number at End of Year**	**30,611**	**31,125**	**4,565**	**318,224.0**
27	In Stock		514	0	0.0
28	Locked Meters on Customers' Premises				
29	Inactive Transformers on System				
30	In Customers' Use		30,611		
31	In Company's Use				
32	**Number at End of Year**		**31,125**	**4,565**	**318,224.0**

CONDUIT, UNDERGROUND CABLE AND SUBMARINE CABLE -- (Distribution System)

Report below the information called for concerning conduit, underground cable, and submarine cable at end of year.

Line No.	Designation of Underground Distribution System (a)	Miles of Conduit Bank (All sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating voltage (d)	Feet* (e)	Operating Voltage (f)
1						
2		102.2 miles	4.7 miles	13.8 kv		
3			.3 miles	34.5 kv		
4			92.4 miles	7.97 kv		
5			2.9 miles	2.4 kv		
6			1.4 miles	240 kv		
7			.5 miles	4.16 kv		
8						
9						
10						
11						
12						
13						
14						
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19						
20						
21						
22						
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28						
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30						
31						
32						
33						
34	**TOTALS**					

*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town	Total	TYPE							
			Incandescent		Mercury Vapor		Fluorescent / LED		High Press. Sodium	
			Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	Reading	2,398	0	0	6	0	2,251	0	141	0
2	Lynnfield	810	0	0	38	0	707	0	65	0
3	North Reading	1,803	0	0	0	0	1,623	0	180	0
4	Wilmington	2,765	0	0	22	0	2,517	0	226	0
5										
6										
7										
8										
9										
10										
11										
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52	**TOTALS**	**7,776**	**0**	**0**	**66**	**0**	**7,098**	**0**	**612**	**0**

RATE SCHEDULE INFORMATION

1. Attach copies of all Filed Rates for General Consumers.

2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual revenue predicted on the previous year's operations.

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

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

January 31, 2018

Commonwealth of Massachusetts
Department of Public Utilities
One South Station
Boston, Massachusetts
02110

To Whom It May Concern:

The Town of Reading Municipal Light Department is filing the following rate structure in order to be compliant with Massachusetts General Law:

- **Solar Choice Schedule SC Rate, MDPU # 278**

Kindly return one copy of the rate schedule stamped by the MDPU "received" for our files.

Sincerely yours,

Town of Reading
Municipal Light Department

Coleen M. O'Brien
General Manager

1/31/18

Enclosure: 1 rate schedule x 3 copies

RMLD
Reading Municipal Light Department
RELIABLE POWER FOR GENERATIONS

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

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

June 22, 2018

Commonwealth of Massachusetts
Department of Public Utilities
One South Station
Boston, Massachusetts
02110

To Whom It May Concern:

The Town of Reading Municipal Light Department is filing changes to the following rate structure in order to be compliant with Massachusetts General Law:

- **Residential Schedule A Rate, MDPU #279 supersedes and cancels MDPU #269**
- **Residential Time-of-Use Schedule A2 Rate, MDPU #280 supersedes and cancels MDPU #270**
- **Residential Schedule RW Controlled Water Heater Rate, MDPU #281 supersedes and cancels MDPU #274**
- **Commercial Schedule C Rate, MDPU #282 supersedes and cancels MDPU #271**
- **Industrial Time-of-Use Schedule I Rate, MDPU #283 supersedes and cancels MDPU #272**
- **School Schedule SCH Rate, MDPU #284 supersedes and cancels MDPU #273**
- **Cooperative Resale Schedule G Rate, MDPU #285 supersedes and cancels MDPU #267**
- **Residential Customer Owned Generation Under 20 kW, MDPU #286 supersedes and cancels MDPU #226**
- **Commercial/Industrial Customer Owned Generation, MDPU #287 supersedes and cancels MDPU #227**
- **Purchase Power Capacity and Transmission Charge, MDPU #288 supersedes and cancels MDPU #276**
- **Private Street Lighting Rate Schedule D, MDPU #289 supersedes and cancels MDPU #265**
- **Municipal LED Street Lighting Rate, MDPU #290 supersedes and cancels MDPU #266**
- **Standard Fuel Charge Clause, MDPU #291 supersedes and cancels MDPU #180**
- **Hazardous Material Charge, MDPU #221 Supplement #1**

Kindly return one copy of each rate schedule stamped by the MDPU "received" for our files.

Sincerely yours,

Town of Reading
Municipal Light Department

Coleen M. O'Brien
General Manager

Enclosure: 14 rate schedules x 2 copies

Town of Reading, Massachusetts
Municipal Light Department

MDPU #279 supersedes and cancels MDPU #269

Residential Schedule A Rate

Designation:
Residential A Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual residential customers for all domestic uses where service is taken through one meter. Incidental commercial use, not exceeding 20% of the total energy used on the same premises is permitted.

Character of service:
A.C. 60 cycles: single phase.

Customer Charge:
$5.12 per month

Distribution Energy Charge:
$.06711 per Kilowatt-hour for all Kilowatt-hours usage

Budget Billing:
The customers under this rate will have available to them a budget billing program under which the customer is required to pay a levelized amount to the Department each billing period during the calendar year. The specifics of this program are outlined in the Department's General Terms and Conditions.

Low Income Discount
The Customer Charge under this rate will be waived upon verification of a low-income customer's receipt of any means-tested public benefit, or verification of eligibility for the low-income home energy assistance program, or its successor program, for which eligibility does not exceed 200 percent of the federal poverty level based on a household's gross income. In a program year in which maximum eligibility for LIHEAP exceeds 200 percent of the federal poverty level, a household that is income eligible under LIHEAP shall be eligible for the low-income electric discount. It is the responsibility of the customer to annually certify, by forms provided by the utility, the continued compliance with the foregoing qualifications.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional 10% discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Rate Filed: June 22, 2018
Effective: On Billings on or After July 1, 2018
Filed By: Coleen M. O'Brien, General Manager

Residential Schedule A Rate (cont'd)

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts **MDPU #280 supersedes**
Municipal Light Department **and cancels MDPU #270**

Residential Time-of-Use Schedule A2 Rate

Designation:
Residential Time-of-Use A2 Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual residential customers for all domestic uses where service is taken through one On-Peak and Off-Peak meter. Incidental commercial use, not exceeding 20% of the total energy used on the same premises is permitted.

Character of service:
A.C. 60 cycles: single phase.

Customer Charge:
$8.00 per month.

Distribution Energy Charge:
$.04022 per Kilowatt-hour for all Kilowatt-hours usage

Definition of Periods:
The On-Peak period is defined as the hours between 12:00 Noon and 7:00 P.M. Monday through Friday except holidays as listed under the "Granted Holidays" paragraph listed below. The Off-Peak period is defined as the hours between 7:00 P.M. and 12:00 Noon Monday through Friday and all hours Saturday, Sunday and granted holidays as listed below.

Controlled Water Heater Allowance:
When a customer regularly uses an electric water heater of a type approved by the Department, 333 kWh will be credited to usage during the Off-Peak period and will be billed at $.00300 per kWh. All kWh used Off-Peak above 333 kWh will be charged at the regular Off-Peak rate. If less than 333 kWh are used Off-Peak then only that amount of kWh will be billed at $.00300 per kWh. Water heater with two elements shall be interlocked to prevent simultaneous operation. Service to the water heater will be controlled by a Department owned time switch in an approved outdoor socket.

Term:
A customer electing to be billed under this rate must remain on this rate for a minimum of one year. At the end of one year on this rate a customer may elect to remain on this rate or be billed under the Residential A Rate.

Rate Filed: June 22, 2018
Effective: On Billings on or After July 1, 2018
Filed By: Coleen M. O'Brien, General Manager

Residential Time-of-Use Schedule A2 Rate (cont'd)

Budget Billing:
The customers under this rate will have available to them a budget billing program under which the customer is required to pay a levelized amount to the Department each billing period during the calendar year. The specifics of this program are outlined in the Department's General Terms and Conditions.

Low Income Discount
The Customer Charge under this rate will be waived upon verification of a low-income customer's receipt of any means-tested public benefit, or verification of eligibility for the low-income home energy assistance program, or its successor program, for which eligibility does not exceed 200 percent of the federal poverty level based on a household's gross income. In a program year in which maximum eligibility for LIHEAP exceeds 200 percent of the federal poverty level, a household that is income eligible under LIHEAP shall be eligible for the low-income electric discount. It is the responsibility of the customer to annually certify, by forms provided by the utility, the continued compliance with the foregoing qualifications.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional ten percent discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

Residential Time-of-Use Schedule A2 Rate (cont'd)

Granted Holidays
Under the Residential Time-of-Use Schedule A2 Rate the holidays granted for Off-Peak are: New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Columbus Day, Veteran's Day and Christmas Day.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU #282 supersedes and cancels MDPU #271

Commercial Schedule C Rate

Designation:
Commercial C Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Service under this rate is available to industrial or commercial customers who take all their requirements under this rate. All electricity furnished under this rate will be metered through one service unless it is convenient for the Department to do otherwise.

Character of service:
AC 60 cycles: single phase or three phase.

Customer Charge:
$7.77 per month.

Distribution Demand Charge:
$8.13 per Kilowatt for all demand usage.

Distribution Energy Charge:
$.01725 per Kilowatt-hour for all Kilowatt-hours usage.

Budget Billing:
The customers under the C Rate may elect the Budget Billing program under which the customer is required to pay the levelized amount to the Department each billing period during the calendar year. This rate is not available to C Rate Customers electing the Contract Demand Rate, or the Non-Firm Demand Rate. The specifics of this program are outlined in the Department's General Terms and Conditions.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Rate Filed: June 22, 2018
Effective: On Billings on or After July 1, 2018
Filed By: Coleen M. O'Brien, General Manager

Commercial Schedule C Rate (cont'd)

Measurement of Billing Demand:
The billing demand shall be the highest of the fifteen minute kilowatt demand established during the billing period, but not less than eighty percent of the maximum demand established during the preceding summer season or sixty percent of the maximum demand established during the winter season.

Definitions of Seasons:
The summer season is defined as the months of June through September and the winter season is defined as the months of October through May.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional ten percent discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Customer Transformer Ownership:
A customer requiring a minimal transformer capacity of over 2,000 kW will be required to furnish its own transforming and protective equipment, including mat, vault, primary and secondary cables, conduits, etc., which must comply with the specifications of the Department. The following discounts apply when the above is complied with:

$.12 per kilowatt of demand when the service is taken at 2,400/4,160 volts.

$.25 per Kilowatt of demand when the service is taken at 13,800 volts.

$.375 per Kilowatt of demand when the service is taken at 34,500 volts.

Primary Metering Discount:
The Department may, at its option, meter at the customer's utilization voltage or on the high side of the transformer through which the service is furnished. In the latter case, or if the customer's utilization voltage requires no transformation, a discount of 1.8% will be applied to the bill's consumption charges but in no case will such discount be allowed if the metering voltage is less than 2,400 voltage.

Commercial Schedule C Rate (cont'd)

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts **MDPU #283 supersedes**
Municipal Light Department **and cancels MDPU #272**

Industrial Time-of-Use Schedule I Rate

Designation:
Industrial Time-of-Use I Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Service under this rate is available to industrial or commercial customers who take all their requirements under this rate. All electricity furnished under this rate will be metered using an electronic meter capable of metering On-Peak and Off-Peak energy as well as kW demand.

Character of service:
A.C. 60 cycles: single phase or three phase.

Customer Charge:
$39.18 per month.

Distribution Demand Charge:
$9.79 per Kilowatt for all demand usage.

Definition of Periods:
The On-Peak period is defined as the hours between 12:00 Noon and 7:00 P.M., Monday through Friday except holidays as listed below. The Off-Peak period is defined as the hours between 7:00 P.M. and 12:00 Noon, Monday through Friday and all hours Saturday, Sunday and granted holidays as listed below.

Term:
A customer electing to be billed under this rate must remain on this rate for a minimum of one year. At the end of one year on this rate a customer may elect to remain on this rate or be billed under the Commercial C Rate.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Rate Filed: June 22, 2018
Effective: On Billings on or After July 1, 2018
Filed By: Coleen M. O'Brien, General Manager

Industrial Time-of-Use Schedule I Rate (cont'd)

Measurement of Billing Demand:
The Billing demand shall be the highest of the fifteen minute On Peak kilowatt demand established during the billing period, but not less than eighty percent of the maximum On Peak demand established during the preceding summer season or sixty percent of the maximum On Peak demand established during the winter season.

The summer season is defined as the months of June through September and the winter season is defined as the months of October through May.

Farm Discount:
Customers who meet the eligibility requirements set forth by the Massachusetts Department of Food and Agriculture for being engaged in the business of agriculture or farming, and upon certification to the RMLD by the Massachusetts Department of Food and Agriculture, will be eligible for an additional ten percent discount, prior to the RMLD prompt payment discount, on rates and charges applicable on their monthly billing statement.

Customer Transformer Ownership:
A customer requiring a minimal transformer capacity of over 2000 kW will be required to furnish its own transforming and protective equipment, including mat, vault, primary and secondary cables, conduits, etc., which must comply with the specifications of the Department. The following discounts apply when the above is complied with:

$.12 per Kilowatt of demand when the service is taken at 2,400/4,160 volts.

$.25 per Kilowatt of demand when the service is taken at 13,800 volts.

$.375 per Kilowatt of demand when the service is taken at 34,500 volts.

Primary Metering Discount:
The Department may, at its option, meter at the customer's utilization voltage or on the high side of the transformer through which the service is furnished. In the latter case, or if the customer's utilization voltage requires no transformation, a discount of 1.8% will be applied to the bill's consumption charges but in no case will such discount be allowed if the metering voltage is less than 2,400 voltage.

Industrial Time-of-Use Schedule I Rate (cont'd)

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

Granted Holidays
Under the Industrial Time-of-Use Schedule I Rate the holidays granted for Off-Peak are; New Year's Day, President's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Columbus Day, Veteran's Day and Christmas Day.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts
Municipal Light Department

MDPU #284 supersedes and cancels MDPU #273

School Schedule SCH Rate

Designation:
School SCH Rate

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Applicable to public or private schools offering kindergarten, regular elementary, middle, and high school as approved by the Department, who take all their requirements under this rate. All electricity furnished under this rate will be metered through one service unless it is convenient for the Department to do otherwise.

Character of service:
AC 60 cycles: single phase or three phase.

Customer Charge:
$7.23 per month.

Distribution Demand Charge:
$7.56 per Kilowatt for all demand usage.

Distribution Energy Charge:
$.01193 per Kilowatt-hour for all Kilowatt-hours usage.

Budget Billing:
The customers under the School Rate may elect the Budget Billing program under which the customer is required to pay levelized amount to the Department each billing period during the calendar year.

Energy Conservation Charge:
The bill for service hereunder may be increased or decreased as provided by the Energy Conservation Charge.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

Rate Filed: June 22, 2018
Effective: On Billings on or After July 1, 2018
Filed By: Coleen M. O'Brien, General Manager

School Schedule SCH Rate (cont'd)

Measurement of Billing Demand:
The billing demand shall be the highest of the fifteen minute Kilowatt demand established during the billing period, but not less than eighty percent of the maximum demand established during the preceding summer season or sixty percent of the maximum demand established during the winter season.

Definitions of Seasons:
The summer season is defined as the months of June through September and the winter season is defined as the months of October through May.

Customer Transformer Ownership:
A customer requiring a minimal transformer capacity of over 2000 kW will be required to furnish its own transforming and protective equipment, including mat, vault, primary and secondary cables, conduits, etc., which must comply with the specifications of the Department. The following discounts apply when the above is complied with:

$.12 per kilowatt of demand when the service is taken at 2,400/4,160 volts.

$.25 per Kilowatt of demand when the service is taken at 13,800 volts.

$.375 per Kilowatt of demand when the service is taken at 34,500 volts.

Metering:
The Department may, at its option, meter at the customer's utilization voltage or on the high side of the transformers through which the service is furnished.

In the latter case, or if the customer's utilization voltage requires no transformation, a discount of 1.8% will be applied to the bill's distribution and consumption charges but in no case will such a discount be allowed if the metering voltage is less than 2,400 volts.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge, Distribution Demand Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts **MDPU #285 supersedes**
Municipal Light Department **and cancels MDPU #267**

Cooperative Resale Schedule G Rate

Designation:
Cooperative G Rate

Available in:
Available to municipal lighting plants and private companies whose service territory is adjacent to the service territory of the Department and for distribution to such customers that cannot be served from the existing distribution lines, provided that the Department has available facilities for furnishing the service

Character of Service:
A.C. 60 cycles: single phase.

Customer Charge:
$4.39 per month.

Distribution Energy Charge:
$.05200 per Kilowatt-hour for all Kilowatt-hours usage.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause.

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission.

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the Customer Charge and Distribution Energy Charge, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Rate Filed: June 22, 2018
Effective: On Billings on or After July 1, 2018
Filed By: Coleen M. O'Brien, General Manager

Town of Reading, Massachusetts
Municipal Light Department

MDPU # 278 supersedes and cancels MDPU #264

Solar Choice

Available in:

Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:

The Solar Choice Program is RMLD's implementation of the Community Shared Solar model which meets Mass DOER eligibility criteria to qualify as a Community Shared Solar Generation Unit as defined under 225 CMR 14.02.

The Solar Choice (SC) Rate is available to all customers of good credit standing receiving service under any rate schedule of the Department, subject to availability of the Solar Choice Program capacity.

This rate will be an additional charge to the existing RMLD rate.

The Solar Choice Business (SCB) Rate and Solar Choice Business Plus (SCBP) rates are available to all commercial, industrial and municipal customers of good credit standing, subject to availability of Solar Choice Program capacity.

SCB will be equal to 5 times the amount of Solar Choice.

SCBP will be equal to multiples of SCB not to exceed 25% of project capacity, subject to availability of Solar Choice Program capacity

The initial SC Rate shall be $5.00/month and the initial SCB Rate shall be $25.00/month. The SC/SCB Rate will be adjusted every six months based on actual project performance. The SC/SCB Rate will be the net total of SC/SCB Component Charges and Credits calculated prior to each six-month period based on budgeted expenses/savings from the SC/SCB Programs and will be trued up to actual expenses/savings, with any adjustment being carried forward to the next six-month period using the formulas defined below.

SC/SCB Energy Component Charge:

> SC/SCB Energy Component, in $/kWh/Month = (SC/SCB Project PPA Rate) — (Fuel Charge Rate)
>
> Monthly SC/SCB Project Solar Production per SC/SCB share = (The total monthly solar production, in kWh, produced by the SC/SCB Project) / (Total number of SC/SCB shares for that SC/SCB Project)
>
> SC/SCB Energy Component Charge, in S/Month = (SC/SCB Energy Component) x (Monthly SC/SCB Project Solar Production per SC/SCB share)

Rate Filed: January 31, 2018
Effective: On Billings on or After February 1, 2018
Filed By: Coleen M. O'Brien, General Manager

Note: For any month where the Fuel Charge Rate is greater than or equal to the SC/SCB Project PPA Rate, the SC/SCB Energy Component Charge will be a Credit for that month.

SC/SCB Capacity Component Credit:

For each six-month period, the SC/SCB Capacity Component Credit will be calculated based on the actual solar production output of the SC/SCB Project for that period and will be paid out as credits during the following six-month period.

The SC/SCB Capacity Component Credit will be calculated as follows:

SC/SCB Capacity Component Credit per SC/SCB share, in $ = (The total Capacity Payment or other Program savings, in $, earned for that period as a result of the solar power produced by the SC/SCB Project during the Capacity Peak Hour) / (Total number of SC/SCB shares for that SC/SCB Project)

SC/SCB Transmission Component Credit:

For each six-month period, the SC/SCB Transmission Component Credit will be calculated based on the actual solar production output of the SC/SCB Project for the completed six-month period and will be paid out as credits during the following six-month period.

The SC/SCB Transmission Component Credit will be calculated as follows:

SC/SCB Transmission Component Credit per SC/SCB share, in $ = (The total Transmission Payment savings, in $, earned for that period as a result of the solar power produced by the SC/SCB Project during Transmission Peak Hours) / (Total number of SC/SCB shares for that SC/SCB Project)

SC/SCB Rate:

The SC/SCB Rate will be the total SC/SCB Charge/Credit, calculated as shown below. This Charge or Credit will be added to each participating customer's monthly bill.

SC/SCB Rate = (SC/SCB Energy Component Charge, in $) — (SC/SCB Capacity Component Credit, in $) — (SC/SCB Transmission Component Credit, in $)

Note: For any specific month, this total bill adjustment may be positive (cost to the customer) or negative (savings to the customer).

Terms:

A customer electing to be billed under this rate shall remain on said rate for a minimum of ten years.

Since the number of participants/SC/SCB shares are limited for each SC/SCB Project, shares will be issued on a "first come/first served" basis and/or through a "lottery" system at the discretion of the RMLD. The RMLD will maintain a "waiting list" which will be used to replace any customers who must leave the program and/or for new SC/SCB Projects as they become available.

Any customers signing up for the SC/SCB Rate after the initial twelve months are subject to a one-time enrollment fee equal to the total first year payments made by the initial participants. After that enrollment fee has been paid, they will then begin receiving the current monthly SC/SCB Rate program billing adjustment.

This rate will be subject to termination in the event that the RMLD is unable to procure power from the SC/SCB Project, or costs become prohibitive.

General Terms and Conditions:

Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

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Filed By: Coleen M. O'Brien, General Manager

Town of Reading, Massachusetts **MDPU #286 supersedes**
Municipal Light Department **and cancels MDPU #226**

Residential Customer Owned Generation Under 20 kW

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual residential customers for all domestic uses. This rate and the Terms and Conditions contained therein govern certain renewable generation facilities located on a residential customer's premise, where the facility is owned or leased by the residential customer, located in the customer premise and used solely for the purpose of the customer's own consumption.

Rates and Billings:
During a billing period the customer will be billed the then applicable rate for all electricity used by the customer according to the RMLD billing meter.

If, during a billing period, the customer's facility feeds back excess electricity onto the RMLD system the rate credited to the customer for excess electricity fed into RMLD's distribution system shall be equal to the then applicable RMLD's Monthly Fuel Charge, which may be adjusted by the Standard Fuel Charge Clause, for the billing period in which the credit was generated.

The RMLD may impose additional Terms and Conditions, as it deems necessary, in its sole discretion, for the protection of its distribution system, service territory, or its customers.

General Terms:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate.

Rate Filed: June 22, 2018
Effective: On Billing on or After July 1, 2018
Filed by: Coleen M. O'Brien, General Manager

RMLD Terms & Conditions for Residential Customer-Owned Generation Under 20 kW

This tariff and the terms and conditions contained herein govern generation facilities located on a residential customer's premises, where such facilities are owned or leased by the residential customer, located on the customer's premises, and used solely for the purpose of the customer's own consumption.

Availability: Interconnection is available to qualifying renewable generation facilities owned or leased by a residential customer ("Customer"), which are located on the residential customer's property where such customer currently receives service from RMLD, for the purpose of offsetting all or part of that customer's own electric power requirements. The generating facility must generate electricity using solar or wind and shall not be capable of producing no more than 20 KW ("Facility"). The use of a Facility for providing service to a third party is strictly prohibited. Under no circumstance shall output from the Facility be provided or credited to any third party. The availability of interconnection to a Customer that owns or leases a Facility is subject to the terms and conditions contained in this tariff. RMLD's General Terms and Conditions shall also apply to service under this tariff and Terms and Conditions, where not inconsistent with any specific provision hereof. RMLD may impose additional terms and conditions, specifications, or requirements, as it deems necessary, in its sole discretion, for the protection of its electric system, service territory or its customers. In its sole discretion, RMLD may limit the cumulative generating capacity of all Facilities in its service territory.

1. Construction of the Facility. The Customer shall not proceed to construct the Facility until the RMLD has received the completed Application for Customer-Owned Generation and said application has been approved by the RMLD. The Application, as prescribed by RMLD and modified from time to time, shall be accompanied by a one-line diagram of the proposed Facility, and any applicable fee that may be required. RMLD may request any additional information that it deems necessary. The RMLD will not approve any such application if it determines that the Facility will have an adverse impact on RMLD's system, or does not, or will not, comply with any of RMLD's Terms and Conditions, specifications or requirements. The Facility's system capacity is subject to RMLD inspection and approval. The Facility shall be designed, constructed and operated in a manner that causes it to meet or exceed all applicable safety and electrical standards, including but not limited to the Massachusetts Building Code; the Massachusetts Department of Public Utilities' regulations; the National Electric Code; the National Electrical Safety Code; Institute of Electronic, and Electrical Engineers (IEEE); United Laboratories (UL); and RMLD's General Terms and Conditions for Service. The Customer is responsible for all permits and regulatory approvals necessary for construction and operation of the Facility.

2. Interconnection and Operation. The Customer may operate Facility and interconnect with the RMLD's system only after the following has occurred:

2.1 Municipal Inspection. Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified and/or approved by the local wiring inspector.

2.2 Certificate of Completion. The Customer shall return the Certificate of Completion, to the RMLD, P.O. Box 150, Reading, MA 01867 or by email to energyrmld@rmld.com

2.3 RMLD Right to Inspection. Within ten (10) business days after the receipt of the Certificate of Completion, the RMLD shall, upon reasonable notice, and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been properly installed, and that all electric connections have been made in accordance with the RMLD's requirements including these Terms and Conditions and RMLD's General Terms and Conditions. The RMLD has the right to disconnect the Facility in the event of improper installation or failure to return the Certificate of Completion to the RMLD.

2.4 Interconnection Metering/Wiring. The Customer shall furnish and have installed, if not already in place, the necessary meter socket and wiring in accordance with all applicable safety and electrical standards.

2.5 Payment of Any Upgrades. The Customer shall be responsible for paying RMLD for any upgrades to RMLD's system necessitated by the connection of the Facility to RMLD's system. The Customer is also responsible for equipment expenses including bi-directional meters necessary to accommodate the Facility as set forth herein.

3. Safe Operation and Maintenance. The Customer shall be solely responsible for constructing, operating, maintaining, and repairing the Facility in a safe manner. The RMLD may temporarily disconnect the Facility to facilitate planned or emergency RMLD work. In addition, RMLD may disconnect the Facility from its system at any time that RMLD determines, in its sole discretion, that the safety and reliability of RMLD's system may be compromised by the operation of the Facility. In the event that Facility damages RMLD's system, the Customer shall be solely responsible for all costs associated with the repair and/or replacement of damaged portion of RMLD's system and/or equipment.

4. Metering. RMLD will furnish and install, at the Customer's expense, a bi-directional meter capable of reading net usage within ten (10) business days after the inspection of the Facility set forth in Section 2.3.

5. Limitation of Liability, Indemnification and Insurance. RMLD shall not be liable to the Customer or any other person for any loss, injury, damage, casualty, fees or penalties, asserted on the basis of any theory, arising from, related to or caused by the construction, installation, operation, maintenance or repair of the Facility, and associated equipment and wiring, except to the

extent of its own gross negligence or willful misconduct, but only to the extent permitted by law. Neither by inspection nor non-rejection nor in any other way does RMLD give any warranty, expressed or implied as to the adequacy, safety or other characteristics of any equipment, wiring or devices, installed on the Customer's premises, including the Facility. The Customer shall indemnify and hold harmless RMLD, its board members, managers, employees, agents, consultants, attorneys and assigns from and against any and all losses, claims, damages, costs, demands, fines, judgments, penalties, payments and liabilities, together with any costs and expenses (including attorneys' fees) incurred in connection with, resulting from, relating to or arising out of the construction, operation, maintenance and repair of the Facility, including the Customer's failure to comply with these Terms and Conditions or any abnormality or failure in the operation of the Facility, or any adverse impact to RMLD's system or its other customers. The Customer shall maintain sufficient insurance to cover any damage to RMLD's system caused by the construction, operation, maintenance and repair the Facility and shall name RMLD as additional insured. The Customer shall provide RMLD with proof of satisfactory insurance upon request by RMLD.

6. Termination. Service may be terminated under the following conditions.

6.1 By Interconnecting Customer. The Customer may terminate service under this tariff by providing written notice to RMLD. Except in an emergency, a minimum of 30 days' advanced written notice is required for the permanent removal or disconnection of the Facility.

6.2 By RMLD. The RMLD may terminate service under this tariff (1) if the Facility fails to operate for any consecutive twelve-month period or (2) in the event that the Facility impairs the operation of RMLD's electric distribution system or service to other customers or materially impairs the local circuit and the Customer does not cure the impairment at its sole expense.

7. Assignment/Transfer of Ownership of the Facility. Service under this tariff shall not be transferred. In the event that a transfer of ownership of the premises and the Facility to a new Customer occurs, the new Customer must file Application for Residential Customer Owned Generation and the application must be approved by RMLD.

8. Rates and Billing:

During a billing period, if the Customer uses more electricity than its premise feeds back into RMLD's system, then the Customer will be billed based on the rate applicable to that customer's class of service under the applicable RMLD tariff.

If, during a billing period, the customer's Facility feeds excess electricity into the RMLD's distribution system the rate credited to the customer for excess energy fed into RMLD's distribution system shall be equal to the amount of kWh fed into the RMLD's distribution system multiplied by the then applicable RMLD's Standard Fuel Charge Clause.

Town of Reading, Massachusetts **MDPU #287 supersedes**
Municipal Light Department **and cancels MDPU #227**

Commercial/Industrial Customer-Owned Generation

Available in:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Individual commercial/industrial customers for all commercial uses. This rate and the Terms and Conditions contained therein govern certain renewable generation facilities located on a commercial/industrial customer's premise, where the facility is owned or leased by the commercial/industrial customer, located in the customer premise and used solely for the purpose of the customer's own consumption.

Rates and Billing:
During a billing period the customer will be billed the then applicable rate for all electricity delivered by the RMLD and used by the customer according to the RMLD's billing meter.

If, during a billing period, the customer's Facility feeds excess electricity into the RMLD's distribution system the rate credited to the customer for excess energy fed into RMLD's distribution system shall be equal to the amount of kWh fed into the RMLD's distribution system multiplied by the then applicable RMLD's Standard Fuel Charge Clause, for the billing period in which the credit was generated.

The RMLD may impose additional Terms and Conditions, as it deems necessary, in its sole discretion, for the protection of its distribution system, service territory, or its customers.

General Terms:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate.

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Filed by: Coleen M. O'Brien, General Manager

Town of Reading, Massachusetts **MDPU # 287**
Municipal Light Department

RMLD Terms and Conditions for Commercial Customer-Owned Generation

This tariff and the terms and conditions contained herein govern generation facilities located on a commercial customer's premises, where such facilities are owned or leased by the commercial customer, located on the customer's premises and used solely for the purpose of the customer's own consumption.

Availability: Interconnection is available to qualifying renewable generation facilities owned or leased by a commercial customer ("Customer"), located on the Customer's property where such Customer currently receives electric service from RMLD, for the purpose of offsetting all or part of that Customer's own electric power requirements ("Facility"). The Facility must generate electricity using wind or solar power and the Facility may not exceed the Customer's expected monthly load requirements. The use of a Facility for providing service to a third party is strictly prohibited. Under no circumstances shall output from the Facility be provided or credited to any third party or any other account of the Customer. The availability of interconnection to a Customer that owns or leases a Facility is subject to the terms and conditions contained in this tariff. RMLD's General Terms and Conditions shall also apply to service under this tariff and Terms and Conditions, where not inconsistent with any specific provision hereof. RMLD may impose additional terms and conditions, specifications, or requirements, as it deems necessary, in its sole discretion, for the protection of its electric system, service territory or its customers. In its sole discretion, RMLD may limit the cumulative generating capacity of all Facilities in its service territory.

1. Construction of the Facility. The Customer may not proceed to construct the Facility until the RMLD has received the completed Application for Customer-Owned Generation and said application has been approved by the RMLD. The Application, as prescribed by RMLD and modified from time to time, shall be accompanied by a one-line diagram of the proposed Facility, and any applicable fee that may be required. RMLD may request any additional information that it deems necessary. The RMLD will not approve any such application if it determines that the Facility will have an adverse impact on RMLD's system, or does not, or, will not comply with any of RMLD's Terms and Conditions, specifications or requirements. The Facility's system capacity is subject to RMLD inspection and approval. The Facility shall be designed, constructed and operated in a manner that causes it to meet or exceed all applicable safety and electrical standards, including but not limited to the Massachusetts Building Code; the Massachusetts Department of Public Utilities' regulations; the National Electric Code; the National Electrical Safety Code; Institute of Electronic, and Electrical Engineers (IEEE); United Laboratories (UL); and RMLD's General Terms and Conditions for Service. The Customer is responsible for all permits and regulatory approvals necessary for construction and operation of the Facility.

2. Interconnection and Operation. The Customer may operate Facility and interconnect with the RMLD's system only after the following has occurred:

2.1 Municipal Inspection. Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified and/or approved by the local wiring inspector.

2.2 Certificate of Completion. The Customer shall return the Certificate of Completion, to the RMLD, P.O. Box 150, Reading, MA 01867-0250 or by email to energyrmld@rmld.com

2.3 RMLD Right to Inspection. Within ten (10) business days after the receipt of the Certificate of Completion, the RMLD shall, upon reasonable notice, and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been properly installed, and that all electric connections have been made in accordance with the RMLD's requirements including these Terms and Conditions and RMLD's General Terms and Conditions. The RMLD has the right to disconnect the Facility in the event of improper installation or failure to return the Certificate of Completion to the RMLD.

2.4 Interconnection Metering/Wiring. The Customer shall furnish and have installed, if not already in place, the necessary meter socket and wiring in accordance with all applicable safety and electrical standards.

2.5 Payment of Any Upgrades. The Customer shall be responsible for paying RMLD for any upgrades to RMLD's system necessitated by the connection of the Facility to RMLD's system. The Customer is also responsible for equipment expenses including bi-directional meters necessary to accommodate the Facility as set forth herein.

3. Safe Operation and Maintenance. The Customer shall be solely responsible for constructing, operating, maintaining, and repairing the Facility in a safe manner. The RMLD may temporarily disconnect the Facility to facilitate planned or emergency RMLD work. In addition, RMLD may disconnect the Facility from its system at any time that RMLD determines, in its sole discretion, that the safety and reliability of RMLD's system may be compromised by the operation of the Facility. In the event that Facility damages RMLD's system, the Customer shall be solely responsible for all costs associated with the repair and/or replacement of damaged portion of RMLD's system and/or equipment.

4. Metering. RMLD will furnish and install at the Customer's expense, a bi-directional meter capable of reading net usage within ten (10) business days after the successful inspection of the Facility set forth in Section 2.3, above, at Customer's expense.

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Filed by: Coleen M. O'Brien, General Manager

5. Limitation of Liability, Indemnification and Insurance. RMLD shall not be liable to the Customer or any other person for any loss, injury, damage, casualty, fees or penalties, asserted on the basis of any theory, arising from, related to or caused by the construction, installation, operation, maintenance or repair of the Facility, and associated equipment and wiring, except to the extent of its own gross negligence or willful misconduct, but only to the extent permitted by law. Neither by inspection nor non-rejection nor in any other way does RMLD give any warranty, expressed or implied as to the adequacy, safety or other characteristics of any equipment, wiring or devices, installed on the Customer's premises, including the Facility. The Customer shall indemnify and hold harmless RMLD, its board members, managers, employees, agents, consultants, attorneys and assigns from and against any and all losses, claims, damages, costs, demands, fines, judgments, penalties, payments and liabilities, together with any costs and expenses (including attorneys' fees) incurred in connection with, resulting from, relating to or arising out of the construction, operation, maintenance and repair of the Facility, including the Customer's failure to comply with these Terms and Conditions or any abnormality or failure in the operation of the Facility, or any adverse impact to RMLD's system or its other customers. The Customer shall maintain sufficient insurance to cover any damage to RMLD's system caused by the construction, operation, maintenance and repair the Facility and shall name RMLD as additional insured. The Customer shall provide RMLD with proof of satisfactory insurance upon request by RMLD.

6. Termination. Service may be terminated under the following conditions.

6.1 By Interconnecting Customer. The Customer may terminate service under this tariff by providing written notice to RMLD. Except in an emergency, a minimum of 60 days' advanced written notice is required for the permanent removal or disconnection of the Facility.

6.2 By RMLD. The RMLD may terminate service under this tariff (1) if the Facility fails to operate for any consecutive twelve-month period or (2) in the event that the Facility impairs the operation of RMLD's electric distribution system or service to other customers or materially impairs the local circuit and the Customer does not cure the impairment at its sole expense.

7. Assignment/Transfer of Ownership of the Facility. Service under this tariff shall not be transferred. In the event that a transfer of ownership of the premises and the Facility to a new Customer occurs, the new Customer must file an Application for Commercial Customer Owned Generation and the application has been approved by RMLD.

8. Rates and Billing:
During a billing period the customer will be billed the then applicable rate for all electricity delivered by the RMLD and used by the customer according to the RMLD's billing meter.

If, during a billing period, the customer's Facility feeds excess electricity into the RMLD's distribution system, the rate credited to the customer for excess energy fed into RMLD's distribution system shall be equal to the amount of kWh fed into the RMLD's distribution system multiplied by the then applicable RMLD's Standard Fuel Charge Clause, for the billing period in which the credit was generated.

Backup and Standby Rate

Designation:

Backup and Standby Rate

Available in:

Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:

This rate shall be applied to all partial requirements general service Customers (the Customer). A partial requirements Customer is defined as one who normally generates all, or a portion of, the Customer's electrical power and energy requirements. All electricity supplied shall be for the exclusive use of the Customer and shall not be resold. Service taken under this rate shall be electrically separated from the Customer's generating facilities or provided with sufficient protective devices to prohibit such facilities from causing disturbances on the RMLD's system consistent with the RMLD's Terms and Conditions. The RMLD reserves the right to refuse service to facilities where the RMLD reasonably determines that the protection provided is inadequate.

All electricity supplied to the Customer by the RMLD shall be measured through one meter, except that where the RMLD deems it impractical to deliver electricity through one service, or where the RMLD has installed more than one meter, then the measurement of electricity may be by two or more meters. When the Customer's generating facilities are capable of operating in parallel with the RMLD's supply, the Customer shall furnish, at its expense, necessary facilities for metering equipment including a dedicated voice grade telephone circuit for remote reading whereby the RMLD can meter the output of the Customer's generating facilities.

Character of service:

Firm Backup Service

Firm Backup Service is intended to provide the Customer with a firm supply of electric power and energy when the Customer's generating facilities are not in operation or are operating at less than full rated capability or when the Customer's load is greater than the capability of its generating facilities. To obtain service under this schedule, the Customer must specify in writing the maximum firm back-up electric power demands (Firm Backup Contract Demand) that it plans to impose on the RMLD under this schedule. The amount of Firm Backup Contract Demand may be changed only by written notification to the RMLD at least six months prior to the effective date of such change. The RMLD reserves the right to refuse any increase in the Firm Backup Contract Demand if, in the sole judgment of the RMLD, such an increase would have an adverse impact on the reliability or cost of the provision of firm service to any of the RMLD's firm service customers.

Standby Service

Town of Reading, Massachusetts
Municipal Light Department

MDPU #288 supersedes
and cancels MDPU #276

Purchase Power Capacity and Transmission Charge

Applicability:
The Purchase Power Capacity and Transmission Charge, or the annual average base power supply base costs, shall be applied to all customers receiving service under any rate schedule of the Department.

Power Cost Amount:
The Purchase Power Capacity and Transmission Charge amount shall be the total amount of all power and transmission charges incurred by the Department, exclusive of fuel, for electric service to all customers. Such cost shall be computed periodically on actual or estimated power billings and divided by the total kilowatt-hour sales to all customers for that month. The resultant cost shall be rounded to the nearest $.00001/kilowatt-hour.

For customers receiving service under the Department's Industrial Time-of-Use I Rate the power cost amount will be expressed as a demand charge in $/kW of demand. The demand charge will be calculated to recover the same revenue as the per-kilowatt-hour charge applied to all other customers.

Calculation of the Purchase Power Capacity and Transmission Charge:
The Purchase Power Capacity and Transmission Charge shall equal the power cost amount. The resultant charge shall be applied to all bills in the following month.

Other Charges and Credits:
By order of the Reading Municipal Light Board, the Purchase Power Capacity and Transmission Charge may reflect additional one-time or irregular credits resulting from power refunds, out of period adjustments or reduced power reserve needs.

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Filed By: Coleen M. O'Brien, General Manager

Town of Reading, Massachusetts
Municipal Light Department

MDPU #291 supersedes
and cancels MDPU #180

Standard Fuel Charge Clause

The fuel charge per kWh applicable to customers billed on a monthly basis will be the month's estimated energy cost divided by the estimated sales of kWh in that month, adjusted by over and under collections in the previous month.

Adjustments will be made periodically to account for over and under recovery of purchased energy costs. The object is to continually balance fuel costs with fuel charges. Adjustments will be calculated to credit over collections or charge under collections in no less than a three-month period.

As referenced in Residential Rate A2 and Industrial Time-of-Use Rate I, the fuel charge On-Peak and fuel charge Off-Peak are calculated based on the monthly fuel charge and adjusted using the historical on-peak and off-peak kWh usage.

Rate Filed: June 22, 2018
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Filed By: Coleen M. O'Brien, General Manager

Town of Reading, Massachusetts **MDPU #289 supersedes**
Municipal Light Department **and cancels MDPU #265**

Private Street Lighting Rate Schedule D

Designation:
Street Light D Rate

Available:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Street and Area Light service on all public, private, and unaccepted streets and areas where the Department has facilities for supplying electricity and where the installation work involved is limited to the necessary lighting unit and connection on the same pole. This Schedule does not apply to Public Street Lighting Service supplied directly to the Municipalities.

Energy Charge:
The rate per year for the standard 4,000-hour schedule is as follows:

Fixture Type	Annual Rate $	Annual kWh
100 Watt Mercury	67.30	500
175 Watt Mercury	74.81	860
400 Watt Mercury	124.06	1900
50 Watt HPS	77.50	240
100 Watt HPS	98.91	500
250 Watt HPS	130.60	1200
400 Watt HPS	181.41	1900
25 Watt LED- Standard	65.32	100
42 Watt LED- Non-Standard	72.88	168
101 Watt LED- Non-Standard	117.48	404
93 Watt LED Flood- Standard	168.14	372
134 Watt LED Flood- Non-Standard	205.86	536

Note: Mercury lamps will no longer be supplied for new installations.

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard fuel Adjustment Clause.

The Fuel Adjustment will appear on the bill as the monthly fuel charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

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Filed By: Coleen M. O'Brien, General Manager

Private Street Lighting Rate Schedule D (cont'd)

Purchase Power Capacity and Transmission Charge:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Capacity and Transmission Charge.

The Purchase Power Capacity and Transmission Charge will appear on the bill as the monthly charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Extra Pole Cost
When an extra pole is required, specifically for street lighting, there will be an extra cost based upon pole size, including up to 100 feet of secondary.

30-foot or 35-foot class 4 pole	51.06 per year
40-foot class 4 pole	55.70 per year

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 15% will be allowed on the current bill, excluding Fuel and Purchased Power Capacity and Transmission Charges, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Town of Reading, Massachusetts **MDPU #290 supersedes**
Municipal Light Department **and cancels MDPU #266**

Municipal LED Street Lighting Rate

Designation:
LED Street Light Rate

Available:
Reading, Lynnfield Center, North Reading, and Wilmington

Applicable to:
Public Street Light service using LED fixtures supplied directly to the Municipalities where the Department has private facilities for supplying electricity and where the installation work involved is limited to the necessary lighting unit and connection to the same pole.

Energy Charge:
The rate per year for the standard 4,000-hour schedule is as follows:

Fixture Type	Annual Rate $	Annual kWh
25 Watt LED- Standard	25.31	100
42 Watt LED- Non-Standard	26.03	168
101 Watt LED- Non-Standard	34.15	404
93 Watt LED Flood- Standard	51.82	372
134 Watt LED Flood- Non-Standard	59.52	536

Fuel Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Standard Fuel Adjustment Clause. The Fuel Adjustment will appear on the bill as the monthly fuel charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Purchase Power Adjustment:
The bill for service hereunder may be increased or decreased as provided by the Purchase Power Adjustment. The Purchase Power Adjustment will appear on the bill as the monthly charge multiplied by one twelfth of the Annual kWh shown above for each Fixture Type.

Extra Pole Cost
When an extra pole is required, specifically for street lighting, there will be an extra cost based upon pole size, including up to 100 feet of secondary.

30-foot or 35-foot class 4 pole	51.06 per year
40-foot class 4 pole	55.70 per year

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Filed By: Coleen M. O'Brien, General Manager

Municipal LED Street Lighting Rate (cont'd)

Meter Reading and Billing:
Bills under this schedule will be rendered monthly. A prompt payment discount of 10% will be allowed on the current bill, excluding fuel adjustment charges, only if the entire bill is paid-in-full by the discount due date.

General Terms and Conditions:
Service hereunder is subject to the General Terms and Conditions which are incorporated herein and are a part of this rate schedule.

Rate Filed: June 22, 2018
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Filed By: Coleen M. O'Brien, General Manager

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... *Mayor.*

..... *Manager of Electric Light*
Coleen M. O'Brien, General Manager

..... *Selectmen*
David Hennessy, Chair

..... *or*
David Talbot, Vice Chair

..... *Members*
Philip B. Pacino

..... *of the Municipal*
John Stempeck

..... *Light Board*
Thomas O'Rourke

SIGNATURES OF ABOVE PARTIES AFFIXED OUTSIDE THE COMMONWEALTH OF MASSACHUSETTS MUST BE PROPERLY SWORN TO

Middlesex ss 5/23/2019

Then personally appeared COLEEN M OBRIEN

DAVID HENNESSY

DAVID TALBOT

PHILIP B PACINO

JOHN STEMPECK

THOMAS O'ROURKE

TRACY ANN SCHULTZ
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires On
July 06, 2023

and severally made oath to the truth of the foregoing statement by them subscribed according to their best knowledge and belief.

..... *Notary Public or Justice of the Peace*