

The Commonwealth of Massachusetts

Return

of the

Municipal Light Department of

the Town of

Concord, MA

to the

The Commonwealth of Massachusetts

Department of Public Utilities

For the year ended December 31,

2017

Name of officer to whom correspondence
should be addressed regarding this report:

Stephen J. Daly
Official title: Financial Administrator
Office address: 1175 Elm Street
P.O. Box 1029
Concord, MA
01742-1029

TABLE OF CONTENTS

Page

General Information	3
Schedule of Estimates	4
Customers in each City or Town	4
Appropriations Since Beginning of Year	5
Changes in the Property	5
Bonds	6
Town Notes	7
Cost of Plant	8 - 8B
Comparative Balance Sheet	10 - 11
Income Statement	12
Earned Surplus	12
Cash Balances	14
Materials and Supplies	14
Depreciation Fund Account	14
Utility Plant - Electric	15 - 17
Production of Fuel and Oil Stocks	18
Miscellaneous Non-operating Income	21
Other Income Deductions	21
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Appropriations of Surplus	21
Municipal Revenues	22
Purchased Power	22
Sales for Resale	22
Electric Operating Revenues	37
Sales of Electricity to Ultimate Consumers	38
Electric Operation and Maintenance Expenses	39 - 42
Taxes Charged During Year	49
Other Utility Operating Income	50
Income from Merchandising, Jobbing and Contract Work	51
Electric Energy Account	57
Monthly Peaks and Output	57
Generating Station Statistics	58 - 59
Steam Generating Stations	60 - 61
Hydroelectric Generating Stations	62 - 63
Combustion Engine and Other Generating Stations	64 - 65
Generating Statistics (Small Stations)	66
Transmission Line Statistics	67
Substations	68
Overhead Distribution Lines Operated	69
Electric Distribution Services, Meters and Line Transformers	69
Conduit, Underground Cable and Submarine Cable	70
Street Lamps	71
Rate Schedule Information	79
Signature Page	81

FOR GAS PLANTS ONLY:

	Page		Page
Utility Plant - Gas	19-20	Gas Generating Plant	74
Gas Operating Revenues	43	Boilers	75
Sales of Gas to Ultimate Consumers	44	Scrubbers, Condensers and Exhausters	75
Gas Operation & Maintenance Expenses	45-47	Purifiers	76
Purchased Gas	48	Holders	76
Sales for Resale	48	Transmission and Distribution Mains	77
Sales of Residuals	48	Gas Distribution Services, House Governors	
Record of Sendout for the Year in MCF	72-73	and Meters	78

PAGES INTENTIONALLY OMITTED: 9, 13, 23 TO 36, 80

ANNUAL REPORT**3**

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

1. Name of town (or city) making this report.	Concord
2. If the town (or city) has acquired a plant,	NONE
Kind of plant, whether gas or electric.	
Owner from whom purchased, if so acquired.	
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, ; No, Second vote: Yes, ; No,	
Date when town (or city) began to sell gas and electricity,	1898
3. Name and address of manager of municipal lighting:	
Christopher Whelan, Town House, Concord, MA 01742	
4. Name and address of mayor or <u>selectpersons</u> :	
Tom McKean, Town House, Concord, MA 01742	Chair
Alice Kaufman, Town House, Concord, MA 01742	
Michael Lawson, Town House, Concord, MA 01742	
Jane Hotchkiss, Town House, Concord, MA 01742	
Linda Escobedo, Town House, Concord, MA 01742	
5. Name and address of town (or city) treasurer:	
Kerry Lafleur, Town House, Concord, MA. 01742	
6. Name and address of town (or city) clerk:	
Kaari Mai Tari, Town House, Concord, MA 01742	
7. Names and addresses of members of municipal light board:	
Lynn Salinger, Municipal Light Plant, Concord, MA 01742	Chair
Peggy Briggs, Municipal Light Plant, Concord, MA 01742	
Dan Gainsboro, Municipal Light Plant, Concord, MA 01742	
Gordon Brockway, Municipal Light Plant, Concord, MA 01742	
Wendy Rovelli, Municipal Light Plant, Concord, MA 01742	
8. Total valuation of estates in town (or city) according to last state valuation	\$ 6,144,650,600
9. Tax rate for all purposes during the year:	FY 2018 \$ 14.29
10. Amount of Director's salary:	\$ 148,236
11. Amount of manager's bond:	n/a
12. Amount of salary paid to members of municipal light board (each)	n/a

ANNUAL REPORT

4

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

**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 SALE OF ELECTRICITY.....	23,330,575.39	
3			
4	TOTAL	23,330,575.39	
5	Expenses:		
6	For operation, maintenance and repairs.....	23,632,813.83	
7	For interest on bonds, notes or scrip.....	152,220.06	
8	For depreciation fund (3% on \$59,302,293.93 as per page 8B).....	1,843,727.18	
9	For sinking fund requirements.....	-	
10	For note payments.....	-	
11	For bond payments.....	667,500.00	
12	For loss in preceding year.....		
13	TOTAL	26,296,261.07	
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.....	1,525,000.17	
19	Of electricity to be used for street lights.....	63,952.66	
20	Total of above items to be included in the tax levy.....	1,588,952.83	
21			
22	New construction to be included in the tax levy.....		
23	Total amounts to be included in the tax levy.....	1,588,952.83	
CUSTOMERS			
Names of cities or towns in which the plant supplies GAS, with the number of customers' meters in each		Names of cities or towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each	
City or town	Number of Customers' Meters, December 31.	City or Town	Number of Customers' Meters, December 31.
		Concord	8,209
		Lincoln	7
		Acton	8
TOTAL		TOTAL	8,224

ANNUAL REPORT

5

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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{	n/a
*At	meeting	19	, to be paid from{	n/a

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

1.	Street lights	63,953
2.	Municipal buildings	1,525,000
TOTAL		\$ 1,588,952.83

*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:

- Purchased new Telecom Cable Trailer, Manufacturer Sauber, Model 1506-NS.
- Designed and installed a three-phase underground primary electric distribution system to facilitate the Umbrella Arts building located at 90 Stow St which is currently under construction.
- Designed and installed an underground single-phase primary electric distribution system at 200 Barnes Hill Rd.
- Designed and installed an underground single-phase primary electric distribution system at Black Horse Place (new planned residential
- Designed and installed a single-phase underground primary electric distribution system to replace existing direct buried facilities at 1200 Lowell Rd.
- Designed and installed a electrical and communication duct bank system located in the Walden St municipal parking lot to facilitate system upgrades on Circuit 223-H6.
- Completed installation of the Emerson Field Project's underground electric distribution system and converted electric services and customers
- Installed an Electric Vehicle Charging Station on Main St (near 100 Main St) and upgraded an existing Electric Vehicle Charging Station located at the West Concord Depot Parking Lot.
- Relocated three joint owned poles as part of the Rail Trail Project including pole 35 Old Marlboro Rd, pole 59 Old Marlboro Rd, and pole 30 Commonwealth Ave.
- Maintenance was completed at CMLP Substations 219 & 223 including relay, breaker, and transformer testing.

Maintenance of overhead facilities:

Replaced the existing overhead horizontal mounted gang switch on pole 30 Commonwealth Ave.

In gas property:

n/a

ANNUAL REPORT

6

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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	
4-4-1898	8-1-1898	35,000.00		PAID		PAID	
6-1-1900	8/1/1900	16,000.00		PAID		PAID	
4-1-1901	8/1/1901	10,000.00		PAID		PAID	
9-30-1902	11/1/1902	10,000.00		PAID		PAID	
9-30-1903	10/1/1903	15,000.00		PAID		PAID	
4-4-1904	8/1/1904	10,000.00		PAID		PAID	
4-4-1910	8/1/1910	20,000.00		PAID		PAID	
5-5-1916	11/1/1916	10,000.00		PAID		PAID	
3-7-1921	7/5/1921	75,000.00		PAID		PAID	
3-14&15-1955	11/1/1955	225,000.00		PAID		PAID	
6-8-1956	7/1/1956	115,000.00		PAID		PAID	
5-6-1974	10/1/1974	700,000.00		PAID		PAID	
5-19-1980	3/18/1981	627,000.00		PAID		PAID	
3-27-1990	4/15/1991	500,000.00		PAID		PAID	
3-27-1990	4/15/1991	1,000,000.00		PAID		PAID	
4-22-1991	4/15/1992	2,000,000.00		PAID		PAID	
4/22/1991	4/15/1992	500,000.00		PAID		PAID	
4-22-1991	6/29/1993	6,000,000.00		PAID		PAID	
4-22-2002	2/15/2003	600,000.00		PAID		PAID	
4-27-2005	3/1/2006	500,000.00		PAID		PAID	
4-27-2005	3/1/2007	1,000,000.00		PAID		PAID	
4-27-2009	5/17/2011	4,000,000.00	300,000.00	May 15	2.59%	May 15 & Nov 15	2,200,000.00
4-23-2012	6/12/2014	3,900,000.00	300,000.00	Jun 01	1.98%	Jun 1 & Dec 1	3,000,000.00
	5/21/2015	400,000.00	62,500.00	Sep 15	3.00%	Sep 15 & Mar 15	212,500.00
	TOTAL	\$ 22,268,000.00	\$ 662,500.00				\$ 5,412,500.00

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

*Date of meeting and whether regular or special

ANNUAL REPORT

8

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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 pre-

- ceding 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	2,086,402.06	-	-			2,086,402.06
2							
3		2,086,402.06	0.00	0.00	0.00	0.00	2,086,402.06
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 & Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
15	Total Steam Production Plant	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

ANNUAL REPORT

8A

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
10	D. Other Production Plant						
11	340 Land and Land Rights	503,558.89	64,886.29	-			568,445.18
12	341 Structures and Improvements						
13	342 Fuel Holders, Producers and Accessories						
14	343 Prime Movers						
15	344 Generators						
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	\$ 503,558.89	\$ 64,886.29	\$ 0.00	\$ 0.00	\$ 0.00	\$ 568,445.18
19	Total Production Plant	\$ 503,558.89	\$ 64,886.29	\$ 0.00	\$ 0.00	\$ 0.00	\$ 568,445.18
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights	497,588.75	-	-			497,588.75
22	352 Structures and Improvements	1,967,108.66	14,392.09	35.95			1,981,464.80
23	353 Station Equipment	2,763,282.57	-	-			2,763,282.57
24	357 Underground Conduits	421,793.11	-	-			421,793.11
25	358 Undergrnd Conductors & Devices	487,720.07	-	-			487,720.07
26	Total Transmission Plant	\$ 6,137,493.16	\$ 14,392.09	\$ 35.95	\$ 0.00	\$ 0.00	\$ 6,151,849.30
27	3A. SUBTRANSMISSION PLANT						
28	352ST Structures and Improvements	211,474.35	-	-			211,474.35
29	353ST Station Equipment	1,293,959.84	-	-			1,293,959.84
30	357ST Underground Conduits	2,829,991.75	-	-			2,829,991.75
31	358ST Undergrnd Conductors & Devices	2,000,454.82	-	-			2,000,454.82
32	Total Subtransmission Plant	\$ 6,335,880.76	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6,335,880.76

8B

Year Ended: Dec 31, 2017

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	186,275.00	-	-			186,275.00
3	361 Structures and Improvements	783,688.70	-	-			783,688.70
4	362 Station Equipment	817,042.24	10,295.82	35.95			827,302.11
5	363 Storage Battery Equipment	-	-	-			0.00
6	364 Poles, Towers and Fixtures	1,560,781.37	17,791.61	324.67			1,578,248.31
7	365 Overhead Conductors and Devices	3,438,775.25	27,019.37	582.29			3,465,212.33
8	366 Underground Conduits	10,050,464.98	87,218.28	5,716.16			10,131,967.10
9	367 Underground Conductors & Devices	6,896,551.86	97,619.85	1,127.72			6,993,043.99
10	368 Line Transformers	4,423,125.12	275,208.36	422.50			4,697,910.98
11	369 Services	1,144,936.98	152,000.93	6,006.54			1,290,931.37
	369C Services Conversion overhead to undrgrnd	556,791.42	20,000.00	-			576,791.42
12	370 Meters	1,030,664.64	6,896.40	41.45			1,037,519.59
13	371 Installation on Cust's Premises	68,079.26	312.24	-			68,391.50
15	373 Street Light and Signal Systems	1,097,554.56	192,310.69	55,333.20			1,234,532.05
16	Total Distribution Plant	30,957,176.82	694,362.86	14,257.28	-	-	31,637,282.40
17	5. GENERAL PLANT						
18	389 Land and Land Rights	-	-	-			0.00
19	390 Structures and Improvements	5,740,424.08	13,197.51	22,612.63			5,731,008.96
20	391 Office Furniture and Equipment	676,380.24	-	-	-	-	254,221.94
21	392 Transportation Equipment	1,983,295.60	4,701.60	1,003.20			1,986,994.00
22	393 Stores Equipment	145,395.10	-	-			145,395.10
23	394 Tools, Shop and Garage Equipment	111,192.05	-	-			111,192.05
24	395 Laboratory Equipment	156,434.85	1,326.00	-			157,760.85
25	396 Power Operated Equipment	94,903.52	-	-			94,903.52
26	397 Communication Equipment	5,382,700.65	96,615.65	458.90			5,478,857.40
27	398 Miscellaneous Equipment	35,514.59	18,884.09	8,550.58			45,848.10
28	399 Computer Equipment	-	-	-			0.00
29	Total General Plant	14,326,240.68	134,724.85	32,625.31	-	-	14,428,340.22
30	Total Electric Plant in Service	60,346,752.37	908,366.09	46,918.54	-	-	61,208,199.92
31	Total Cost of Electric Plant						61,208,199.92
32	Less Cost of Land, Land Rights, Rights of Way						1,252,308.93
33	Total Cost upon which Depreciation is based						59,955,890.99
34							

The above figures should show the original cost of the 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.

ANNUAL REPORT

10

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	UTILITY PLANT			
2	101 Utility Plant - Electric (P.17)	43,984,891.38	44,951,433.57	966,542.19
3	101 Utility Plant - gas (P.20)	-	-	-
4	123 Investment in Associated Companies	-	-	-
5	Total Utility Plant	43,984,891.38	44,951,433.57	966,542.19
6				
7	121 Non Utility Property	-	-	-
8				
9	FUND ACCOUNTS			
10	124 Other Investments	324,740.61	353,765.61	29,025.00
11	125 Sinking Funds	-	-	-
12	126 Depreciation Fund (P. 14)	-	3,551,951.22	3,551,951.22
13	128 Other Special Funds	3,064,361.63	2,529,788.08	(534,573.55)
14				
15	Total Funds	6,778,204.48	9,319,058.60	2,540,854.12
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14)	8,329,103.31	8,261,741.75	(67,361.56)
18	132 Special Deposits + 134	29,892.32	62,334.02	32,441.70
19	133 Operating Reserve Fund	1,130,000.00	1,130,000.00	-
20	135 Working Funds 131A UG Fund	1,158,319.38	1,173,390.09	15,070.71
21	141 Notes and Receivable	-	-	-
22	142 Customer Accounts Receivable	2,186,750.71	2,411,514.38	224,763.67
23	143 Other Accounts Receivable	44,922.45	140,599.10	95,676.65
24	146 Receivables from Municipality	51,686.80	87,944.74	36,257.94
25	154 Materials and Supplies (P.14)	1,044,670.49	1,030,850.56	(13,819.93)
26	165 Prepayments	3,394,820.63	3,496,476.69	101,656.06
27	174 Miscellaneous Current Assets	1,756,563.09	2,563,363.87	806,800.78
28	Total Current and Accrued Assets	24,783,115.29	26,469,139.39	1,686,024.10
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount	(289,948.45)	(259,968.51)	29,979.94
31	182 Extraordinary Property Losses	-	-	-
32	186 Other Deferred Debits	8,719.54	8,329.45	(390.09)
33	Total Deferred Debits	(281,228.91)	(251,639.06)	29,589.85
34				
35	Total Assets and Other Debits	75,264,982.24	80,487,992.50	5,223,010.26

ANNUAL REPORT

11

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End of Year (c)	Increase or (Decrease) (d)
1	APPROPRIATIONS			
2	201 Appropriations for Construction			
3	SURPLUS			
4	205 Sinking Fund Reserves	-	-	
5	206 Loan Repayments	3,434,583.30	4,102,083.30	667,500.00
6	207 Appropriations for Construction Repayments	-	-	-
7	208 Unappropriated Earned Surplus (P.12)	43,752,578.58	43,752,578.58	-
8	Total Surplus	47,187,161.88	47,854,661.88	667,500.00
9	LONG TERM DEBT			
10	221 Bonds (P.6)	6,105,000.00	5,412,500.00	(692,500.00)
11	231 Notes Payable (P.7)	-	-	-
12	Total Bonds and Notes	6,105,000.00	5,412,500.00	(692,500.00)
13	CURRENT AND ACCRUED LIABILITIES			
	228 Appropriation of Benefit	124,917.85	124,917.85	-
14	232 Accounts Payable	3,851,857.24	3,831,024.74	(20,832.50)
15	234 Payables to Municipality	-	397,864.99	397,864.99
16	235 Customer' Deposits	355,272.52	610,339.85	255,067.33
17	236 Taxes Accrued	33,106.55	30,925.16	(2,181.39)
18	237 Interest Accrued	25,306.25	22,031.25	(3,275.00)
19	242 Miscellaneous Current and Accrued Liabilities	5,435,530.55	4,714,060.46	(721,470.09)
20	Total Current and Accrued Liabilities	9,825,990.96	9,731,164.30	(94,826.66)
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt	-	-	-
23	252 Customer Advances for Construction	103,486.41	129,281.41	25,795.00
24	253 Other Deferred Credits	-	-	-
25	Total Deferred Credits	103,486.41	129,281.41	25,795.00
26	RESERVES			
27	260 Reserves for Uncollectable Accounts	30,000.00	30,000.00	-
28	261 Property Insurance Reserve	-	-	-
29	262 Injuries and Damages Reserves	178,820.38	176,302.00	(2,518.38)
30	263 Pensions and Benefits	-	-	-
31	265 Miscellaneous Operating Reserves	-	-	-
32	Total Reserves	208,820.38	206,302.00	(2,518.38)
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction	-	-	-
35	Total Liabilities and Other Credits	63,430,459.63	63,333,909.59	(96,550.04)

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.

Payment in Lieu of Taxes: 474,000.00

ANNUAL REPORT

12

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year (b)	Increase or (Decrease) from Preceding Year (c)
1	OPERATING INCOME		
2	400 Operating Revenue (P.37)	24,001,197.88	(1,698,790.90)
3	Operating Expenses:		
4	401 Operation Expense (P.42)	22,947,268.70	2,186,819.83
5	402 Maintenance Expense (P. 42)	685,545.13	(258,853.22)
6	403 Depreciation Expense	1,843,727.18	86,178.14
7	407 Amortization of Property Losses	-	-
8			
9	408 Taxes (P.49)	-	-
10	Total Operating Expenses	25,476,541.01	2,014,144.75
11	Operating Income	(1,475,343.13)	(3,712,935.65)
12	414 Other Utility Operating Income (P.50)	-	-
13			
14	Total Operating Income	(1,475,343.13)	(3,712,935.65)
15	OTHER INCOME		
16	415 Income from Merch., Job.& Contract Work (P.51)	(38,256.92)	(192,130.68)
17	419 Interest Income	158,962.21	121,145.94
18	421 Miscellaneous Nonoperating Income	2,205.75	(3,563.36)
19	Total Other Income	122,911.04	(74,548.10)
20	Total Income	(1,352,432.09)	(3,787,483.75)
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization	-	-
23	426 Other Income Deductions	3,238.64	2,908.20
24	Total Income Deductions	3,238.64	2,908.20
25	Income Before Interest Charges	(1,355,670.73)	(3,790,391.95)
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes	182,200.00	(50,332.28)
28	428 Amortization of Debt Discount and Expense	(29,979.94)	(788.43)
29	429 Amortization of Premium on Debt-Credit	-	-
30	431 Other Interest Expense	-	-
31	432 Interest Charged to Construction-Credit	-	-
32	Total Interest Charges	152,220.06	(51,120.71)
33	Net Income	(1,507,890.79)	(3,739,271.24)
EARNED SURPLUS			
Line No.	Account (a)	Debits (b)	Credits (c)
34	Unapprop.Earned Surplus(at beginning of period)		46,457,979.94
35			
36			
37	433 Balance Transferred from Income	-	(1,507,890.79)
38	434 Miscellaneous Credits to Surplus (P.21)	-	-
39	435 Miscellaneous Debits to Surplus (P.21)	-	-
40	436 Appropriation of Surplus (P.21)	1,141,500.00	-
41	437 Surplus Applied to Depreciation	-	(56,010.57)
42	208 Unapprop. Earned Surplus(at end of period)	43,752,578.58	-
43			
44	TOTALS	44,894,078.58	44,894,078.58

ANNUAL REPORT

14

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items (a)	Amount (b)
1	Operating Cash Fund.....	8,329,103.31
2	Underground Fund.....	1,173,390.09
3	Emergency Repairs Fund.....	1,130,000.00
4	Customer Deposit Fund.....	610,339.85
5	Customer Advance for Construction.....	129,281.41
6	Bond Fund.....	395,833.33
7	Interest Fund.....	62,015.37
8	Rate Stabilization Fund.....	1,613,864.82
9		
10		
11		
12	TOTAL	\$ 13,443,828.18

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

Line No.	Account (a)	Amount End of Year Electric (b)
13	151 Fuel (See Schedule, Page 25)	-
14	152 Fuel Stock Expenses	-
15	153 Residuals	-
16	154 Plant Materials & Operating Supplies	1,030,850.56
17	155 Merchandise	-
18	156 Other Materials and Supplies	-
19	157 Nuclear Fuel Assembly & Comp.	-
20	158 Nuclear Fuel Assembly & Comp.	-
21	159 Nuclear Byproduct Materials	-
22	163 Stores Expense	-
23	TOTAL PER BALANCE SHEET	\$ 1,030,850.56

DEPRECIATION FUND ACCOUNT (Account 126)

Line No.	(a) DEBITS	Amount (b)
24	Balance of account at beginning of year	2,575,666.94
25	Income during year from balance on deposit	12,533.05
26	Amount transferred from income	1,843,727.18
27	Amount transferred from underground fund	248,318.72
28	TOTAL	4,680,245.89
29	CREDITS	
30	Amount expended for constr.(Sec.57,C.164 of G.L.)	1,128,294.67
31	Amounts expended for renewals,viz:-	
32		
33		
38	BALANCE ON HAND AT YEAR END	\$ 3,551,951.22
39		

ANNUAL REPORT

15

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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 pre-

ceding 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 utility plant accounts should be shown 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	2,086,402.06	-	-			\$2,086,402.06
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 & Engine Driven Generators						
11	314 Turbogenerator Units						
12	315 Accessory Electric Equipment						
13	316 Miscellaneous Power Plant Equipment						
14							
15	Total Steam Production Plant	NONE					
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	NONE					

ANNUAL REPORT

16

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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	NONE					
10	D. Other Production Plant						
11	340 Land and Land Rights.....	503,558.89	64,886.29	-			568,445.18
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Prod. & Access.						
14	343 Prime Movers.....						
15	344 Generators.....						
16	345 Accessory Electric Equipment.....						
17	346 Misc. Power Plant Equipment						
18	Total Other Production Plant	\$ 503,558.89	\$ 64,886.29	\$ 0.00	\$ 0.00	\$ 0.00	\$ 64,886.29
19	Total Production Plant	\$ 503,558.89	\$ 64,886.29	\$ 0.00	\$ 0.00	\$ 0.00	\$ 568,445.18
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	497,588.75	-	-			497,588.75
22	352 Structures and Improvements.....	1,967,108.66	14,392.09	(59,013.24)			1,922,487.51
23	353 Station Equipment.....	2,763,282.57	-	(82,898.52)			2,680,384.05
24	357 Underground Conduits.....	421,793.11	-	(12,653.76)			409,139.35
25	358 Underground Conductors and Devices	487,720.07	-	(14,631.60)			473,088.47
26	Total Transmission Plant.....	\$ 6,137,493.16	\$ 14,392.09	(\$ 169,197.12)	\$ 0.00	\$ 0.00	\$ 5,982,688.13
27	3A. SUBTRANSMISSION PLANT						
28	352ST Structures and Improvements.....	211,474.35	-	(6,344.28)			205,130.07
29	353ST Station Equipment.....	1,293,959.84	-	(38,818.80)			1,255,141.04
30	357ST Underground Conduits.....	2,829,991.75	-	(56,599.80)			2,773,391.95
31	358ST Underground Conductors and Devices	2,000,454.82	-	(60,013.68)			1,940,441.14
32	Total Subtransmission Plant	\$ 6,335,880.76	\$ 0.00	(\$ 161,776.56)	\$ 0.00	\$ 0.00	\$ 6,174,104.20

ANNUAL REPORT

17

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

UTILITY PLANT - ELECTRIC (Concluded)

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.....	186,275.00	-	-			186,275.00
3	361 Structures and Improvements.....	356,367.03	-	(23,510.64)			332,856.39
4	362 Station Equipment.....	450,274.52	10,295.82	(24,511.32)			436,059.02
5	363 Storage Battery Equipment.....	-	-	-			-
6	364 Poles, Towers and Fixtures.....	636,445.71	17,791.61	(46,823.52)			607,413.80
7	365 Overhead Conductors and Devices	1,894,703.54	27,019.37	(103,163.28)	(582.29)		1,817,977.34
8	366 Underground Conduits.....	6,977,854.24	87,218.28	(238,944.96)	(5,716.16)		6,820,411.40
9	367 Underground Conductors & Devices	3,939,358.02	97,619.85	(206,896.56)	(1,127.72)		3,828,953.59
10	368 Line Transformers.....	1,792,523.66	275,208.36	(132,693.72)	(422.50)		1,934,615.80
11	369 Services.....	852,632.92	152,000.93	(34,348.08)	(6,006.54)		964,279.23
	369C Service Conversions-Ovhd to Undrgrnd.	345,003.95	20,000.00	(68,237.04)	(41.45)		296,725.46
12	370 Meters.....	668,986.64	6,896.40	(51,533.28)	(41.45)		624,308.31
13	371 Installation on Cust's Premises	38,184.80	312.24	(2,042.40)	-		36,454.64
14	372 Leased Prop. on Cust's Premises	-	-	-	-		-
15	373 Street Light and Signal Systems	663,376.49	192,310.69	(54,877.68)	(55,333.20)		745,476.30
16	Total Distribution Plant	18,801,986.52	886,673.55	(889,572.48)	(63,223.32)	-	18,631,806.28
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	-	-	-	-		-
19	390 Structures and Improvements.....	3,668,020.43	13,197.51	(172,212.72)	(22,612.63)		3,486,392.59
20	391 Office Furniture and Equipment.....	207,345.85	-	(38,040.60)	(2,749.60)		166,555.65
21	392 Transportation Equipment.....	348,487.95	4,701.60	(158,663.64)	(1,003.20)		193,522.71
22	393 Stores Equipment.....	72,882.96	-	(2,907.96)	-		69,975.00
23	394 Tools, Shop and Garage Equipment	40,658.72	-	(8,895.36)	-		31,763.36
24	395 Laboratory Equipment.....	75,016.54	1,326.00	(12,514.80)	-		63,827.74
25	396 Power Operated Equipment.....	46,052.49	-	(4,745.16)	-		41,307.33
26	397 Communication Equipment.....	4,223,367.70	96,615.65	(17,360.40)	-		4,302,622.95
27	398 Miscellaneous Equipment.....	27,273.47	18,884.09	(5,326.98)	(8,550.58)		32,280.00
28	399 Computer Equipment.....	-	-	-	-		-
29	Total General Plant.....	8,709,106.11	134,724.85	(420,667.62)	(34,916.01)	-	8,388,247.33
30	Total Electric Plant in Service	40,488,025.44	1,100,676.78	(1,641,213.78)	(98,139.33)	-	41,328,134.29
31	104 Utility Plant Leased to Others	-	-	-	-	-	-
32	105 Property Held for Future Use	-	-	-	-	-	-
33	107 Construction Work in Progress	3,496,865.94	126,433.34	-	-	-	3,623,299.28
34	Total Utility Plant Electric	43,984,891.38	1,227,110.12	(1,641,213.78)	(98,139.33)	-	44,951,433.57

ANNUAL REPORT

18

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

**PRODUCTION FUEL AND OIL STOCKS (Included in Account 154)
(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		NONE			
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					

ANNUAL REPORT

21

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line No.	Item (a)	Amount (b)
1	Sale of Solar Renewable Energy Certificates	2,205.75
2		
4		
5		
6		
	TOTAL	2,205.75

OTHER INCOME DEDUCTIONS (Account 426)

Line No.	Item (a)	Amount (b)
7	Interest on Deposits	3,238.64
8		
9		
12		
13		
14		
	TOTAL	3,238.64

MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line No.	Item (a)	Amount (b)
15	NONE	
16		
17		
18		
21		
22		
23		
	TOTAL	0.00

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line No.	Item (a)	Amount (b)
24	NONE	
25		
26		
30		
31		
32		
	TOTAL	0.00

APPROPRIATIONS OF SURPLUS (Account 436)

Line No.	Item (a)	Amount (b)
33	Appropriation to reduce tax levy	474,000.00
34	Appropriation for Repayment of Bonds	667,500.00
35		
37		
38		
39		
40	TOTAL	1,141,500.00

ANNUAL REPORT

22

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

MUNICIPAL REVENUES (Account 482,444)

(K.W.H. Sold under the provision of Chapter 269, Acts of 1927)

Line No.	Acc't No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue Per M.C.F. (\$0.0000) (d)
1	482				
2					
3					
4					
		TOTALS	NONE		
Line No.		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue Per K.W.H. (cents) (0.0000) (d)
5	444	Municipal: (Other Than Street Lighting)	9,969,993	1,525,000.17	15.2959
6					
7					
8					
		TOTALS	9,969,993	1,525,000.17	15.2959
9		Street Lighting:	444,581	63,952.66	14.3849
10					
11					
12					
		TOTALS	444,581	63,952.66	14.3849
13					
17					
19		TOTALS	10,414,574	1,588,952.83	15.2570

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	Braintree Watson	Concord MA St.219@13800 Volts	3,511,015	959,254.59	27.3213
21	Canton Mountain	Concord MA St.219@13800 Volts	661,373	62,297.26	9.4194
22	Customer Net Metering	Concord MA customer pt. @13800 Volts	441,499	10,354.48	2.3453
23	Exelon	Concord MA St.219@13800 Volts	32,563,929	1,727,516.44	5.3050
24	Hydro Quebec ICC	Concord MA St.219@13800 Volts	CAPACITY Only	(54,463.10)	n/a
25	Industrial Power Services	Concord MA St.219@13800 Volts	2,421,702	83,472.68	3.4469
26	ISO Spot Market	Concord MA St.219@13800 Volts	20,843,106	6,414,796.96	30.7766
27	Kearsarge II Solar	Concord MA St.223H4@13800 Volts	5,989,200	401,276.40	6.7000
28	Kearsarge Solar	Concord MA St.223H4@13800 Volts	2,021,793	149,612.76	7.4000
29	Miller Hydro Group	Concord MA St.219@13800 Volts	5,153,950	249,677.42	4.8444
30	New Bedford Landfill	Concord MA St.219@13800 Volts	4,568,032	209,277.98	4.5814
31	NextEra	Concord MA St.219@13800 Volts	32,120,000	1,285,450.00	4.0020
32	Nugen Capital	Concord MA St.219@13800 Volts	1,389,026	85,964.22	6.1888
33	PASNY Hydro Power	Concord MA St.219@13800 Volts	8,054,435	124,703.97	1.5483
34	PSEG of New Jersey	Concord MA St.219@13800 Volts	CAPACITY Only	258,901.23	n/a
35	Saddleback Ridge Wind	Concord MA St.219@13800 Volts	5,077,555	388,151.13	7.6444
36	Shell Energy	Concord MA St.219@13800 Volts	40,706,039	2,213,594.40	5.4380
37	Sollect Solar	Concord MA St.223H4@13800 Volts	452,938	36,569.49	8.0738
38	Spruce Mountain Wind	Concord MA St.219@13800 Volts	5,769,466	484,502.20	8.3977
39		TOTALS	171,745,058	15,090,910.52	8.7868

SALES FOR RESALE (Account 447)

Line No.	Names of Utilities from 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)
40					
41					
42					
43		TOTALS	n/a	n/a	n/a

ANNUAL REPORT

37

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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

ELECTRIC OPERATING REVENUES (Account 400)

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	10,852,840.97	(574,825.95)	68,832,294	(4,361,456)	6,918	78
3	442 Commercial and Industrial Sales						
4	Small (or Commercial) see instr. 5	6,054,059.27	(652,886.41)	36,506,900	(3,420,646)	1,279	17
5	Large (or Industrial) see instr. 5	6,652,828.19	(87,882.18)	48,524,420	(841,017)	21	(2)
6	444 Municipal Sales(P. 22)	1,588,952.83	(39,388.75)	10,414,574	(1,643,508)	71	3
7	445 Unbilled revenue	(806,800.78)	(767,148.67)		(592,671)		-
8	446 Sales to Railroads and Railways						
9	448 Interdepartmental Sales						
10	449 Misc. Sales - Provision for Rate Refund	(269,699.06)	(261,169.91)	-	-	-	-
	Misc. Sales - Provision for Rate Stabilization	(709,957.92)	158,315.63	-	-	-	-
11	Total Sales to Ultimate Consumers	23,362,223.50	(2,224,986.24)	164,278,188	(10,859,298)	8,289	96
12	447 Sales for Resale	-	-	-	-	-	-
13	Total Sales of Electricity*	23,362,223.50	(2,224,986.24)	164,278,188	(10,859,298)	8,289	96
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts	15,768.51	(815.43)				
16	451 Miscellaneous Service Revenues	1,000.00	5,250.00				
17	453 Sales of Water and Water Power	-					
18	454 Rent from Electric Property	98,495.00	13,690.00				
19	455 Interdepartmental Rents	27,216.00	-				
20	456 Other Electric Revenues	496,494.87	100,923.45				
21							
22							
23	Miscellaneous Adjustments to Sales						
24							
25	Total Other Operating Revenues	638,974.38	119,048.02				
26	Total Electric Operating Revenue	24,001,197.88	(2,105,938.22)				

* Includes revenues from application of fuel clauses (979,656.98)

Total KWH to which applied 161,151,994.00

ANNUAL REPORT

38

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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)	
						July 31 (e)	December 31 (f)
1	440-R1	Residential	61,895,427	10,028,293.75	0.1620	6,575	6,565
2	440-R2	Residential w/Contrld Wtr Ht	4,238,932	619,085.14	0.1460	345	345
3	440-R3	Residential Off Peak	2,621,175	163,877.26	0.0625	n/a	n/a
4	440-R4	Residential Farm	76,760	11,496.62	0.1498	6	6
5	442-G1-1	Small General	12,095,510	2,200,670.05	0.1819	1,065	1,066
6	442-G1-2	General w/Contrld Wtr Ht	n/a	n/a	x	x	x
7	442-21OP	Small General W Controlled ETS Heat	n/a	n/a	x	x	x
8	442-G1-4	Small General Farm	73,619	11,496.62	0.1562	7	7
9	442-G2-1	Medium General	23,899,622	3,777,058.35	0.1580	143	144
10	442-G2OP	Med. General W Controlled ETS Heat	n/a	n/a	x	x	x
11	442-G2-4	Medium General Farm	412,178	57,381.74	0.1392	1	1
12	442-G3-1	Large General	48,524,420	6,652,828.19	0.1371	24	22
13	442-PL	Private Area Lighting	25,971	5,892.60	0.2269	11	11
14	444-G1	Municipal Small General	335,678	62,724.84	0.1869	45	44
15	444-G2	Municipal Medium General	4,582,789	702,966.97	0.1534	20	20
16	444-G3	Municipal Large General	5,051,526	759,308.36	0.1503	5	5
17	444-SL	Municipal Street Lights	444,581	63,952.66	0.1438	1	1
18	445	Unbilled Revenue	x	(806,800.78)	x	x	x
19	449-1	Provision for Rate Refund	x	(269,699.06)	x	x	x
20	449-15	Provision for Rate Stabilization	x	(709,957.92)	x	x	x
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48	TOTAL SALES TO ULTIMATE CONSUMERS						
49	(page 37 Line 11)		164,278,188	23,330,575.39	0.1420	8,248	8,237

ANNUAL REPORT

39

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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 derived 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 EXPENSES		
2	STEAM POWER GENERATION		
3	Operation:		
4	500 Operation supervision and engineering		
5	501 Fuel		
6	502 Steam expenses		
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	None	
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	None	
20	Total power production expenses-steam power	None	
21	NUCLEAR POWER GENERATION		
22	Operation:		
23	517 Operation supervision and engineering		
24	518 Fuel		
25	519 Coolants and water		
26	520 Steam expenses		
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	None	
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	None	
40	Total power production expenses-nuclear power	None	
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	None	

(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		
7	545 Maintenance of misc. hydraulic plant		
8	Total maintenance	None	
9	Total power production exp.-hydraulic power	None	
10	OTHER POWER GENERATION		
11	Operation		
12	546 Operation supervision and engineering		
13	547 Fuel		
14	548 Generation Expenses		
15	549 Misc. other power generation expense		
16	550 Rents		
17	Total Operation	None	
18	Maintenance:		
19	551 Maintenance supervision and engineering		
20	552 Maintenance of Structures		
21	553 Maintenance of generating and electric plant		
22	554 Maintenance of misc. other power generation plant		
23	Total Maintenance	None	
24	Total power production exp.-other power	None	
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased power	15,090,910.52	1,232,565.98
27	556 System control and load dispatching	-	0.00
28	557 Other expenses	3,523,741.56	193,256.97
29	Total other power supply expenses	18,614,652.08	1,425,822.95
30	Total power production expenses	18,614,652.08	1,425,822.95
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation supervision and engineering		
34	561 Load dispatching	-	(193.08)
35	562 Station expenses	7,470.17	1,550.71
36	563 Overhead line expenses		
37	564 Underground line expenses		
38	565 Transmission of electricity by others		
39	566 Miscellaneous transmission expenses		
40	567 Rents		
41	Total Operation	7,470.17	1,357.63
42	Maintenance:		
43	568 Maintenance supervision and engineering		
44	569 Maintenance of structures		
45	570 Maintenance of station equipment	57,889.00	(28,402.36)
46	571 Maintenance of overhead lines		
47	572 Maintenance of underground lines		
48	573 Maintenance of misc. transmission plant		
49	Total maintenance	57,889.00	(28,402.36)
50	Total transmission expenses	65,359.17	(27,044.73)

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 & engineering	-	
4	581 Load dispatching	161,942.84	57,133.95
5	582 Station expenses	2,088.34	1,700.69
6	583 Overhead line expenses	41,361.13	13,160.23
7	584 Underground line expenses	-	0.00
8	585 Street light and signal system exp.	-	
9	586 Meter expenses	45,349.10	(13,235.16)
10	587 Customer installations expenses	-	
12	589 Rents	9,196.17	213.84
13	Total operation	259,937.58	58,973.55
14	Maintenance:		
15	590 Supervision	50,617.77	(37,902.37)
16	591 Maintenance of structures	-	0.00
17	592 Maintenance of station equipment	7,362.18	2,168.52
18	593 Maintenance of overhead lines	258,326.89	(252,182.72)
19	594 Maintenance of underground lines	169,568.58	77,402.84
20	595 Maintenance of line transformers	1,000.00	250.00
21	596 Maintenance of street light & signal sys.	61,863.96	40,673.68
22	597 Maintenance of meters	-	0.00
23	598 Maintenance of misc. distribution plant	2,437.02	1,845.96
24	Total maintenance	551,176.40	(167,744.09)
25	Total distribution expenses	811,113.98	(108,770.54)
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision	43,499.44	7,353.97
29	902 Meter reading expenses	29,660.73	6,377.46
30	903 Customer records & collection expenses	191,819.20	2,504.61
31	904 Uncollectable accounts	328.90	389.64
32	906 Customer service & Information	92,463.93	72,877.21
	908 Consumer education	38,396.94	(2,637.59)
	909 Info & instructional services	464,955.28	238,342.60
	910 Miscellaneous customer service	16,728.00	8,228.00
33	Total customer accounts expenses	877,852.42	333,435.90
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision	-	
37	912 Demonstrating and selling expenses	-	
38	913 Advertising expenses	-	
39	916 Miscellaneous sales expenses	-	
40	Total sales expenses	0.00	0.00
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and general salaries	1,440,238.97	142,444.56
44	921 Office supplies and expenses	169,772.83	94,074.18
46	923 Outside services employed	247,171.74	99,941.89
47	924 Property insurance	48,390.18	(533.07)
48	925 Injuries and damages	19,757.35	(7,587.79)
49	926 Employee pensions and benefits	1,199,329.21	40,083.91
50	928 Regulatory commission expenses	-	
51	929 Duplicate charges - Cr	-	
52	930 Miscellaneous general expenses & 934	32,674.02	479.93
53	931 Rents	30,022.15	(1,673.81)
54	Total operation	3,187,356.45	367,229.80

ANNUAL REPORT

42

Town of Concord Municipal Light Plant

Year Ended: 12/31/2017

ELECTRIC OPERATION AND MAINTENANCE EXPENSES-Continued

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE & GENERAL EXPENSES-Continued		
2	Maintenance:		
3	932 Maintenance of general plant	182,086.30	(18,959.50)
		167,631.36	
		14,454.94	
4	933 Transportation expense	(105,606.57)	(43,747.27)
5	Total Maintenance	76,479.73	(62,706.77)
6	Total admin. and general expenses	3,263,836.18	304,523.03
7	Total Electric Operation & Maintenance Expenses	23,632,813.83	1,927,966.61

SUMMARY OF OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	Operation (b)	Maintenance (c)	Total (d)
8	Power Production Expenses			
9	Electric Generation			
10	Steam Power			
11	Nuclear Power			
12	Hydraulic Power			
13	Other Power			
14	Other Power Supply Expenses	18,614,652.08		18,614,652.08
15	Total Power Production Expenses	18,614,652.08	-	18,614,652.08
16	Transmission Expenses	7,470.17	57,889.00	65,359.17
17	Distribution Expenses	259,937.58	551,176.40	811,113.98
18	Customer Accounts Expenses	877,852.42	-	877,852.42
19	Sales Expenses	-	-	-
20	Administrative and General Expenses	3,187,356.45	76,479.73	3,263,836.18
21	Power Production Expenses	-	-	-
22	Total Electric Operation and Maintenance Expenses	22,947,268.70	685,545.13	23,632,813.83

23 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 22(d), Depreciation (Acct 403) and Amortization (Acct 407)).....

106.1%

24 Total salaries and wages of electric department for year, including amounts charged to operating expenses, construction and other accounts.....

\$ 2,725,808.97

25 Total number of employees of electric department at end of year including administrative, operating, maintenance and other employees (including part time employees).....

41.00

Town of Concord Municipal Light Plant

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 sub-account.

5. For any tax which it was necessary to apportion to more than one utility department or account, state in a footnote the basis of 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.

[illegible]

ANNUAL REPORT

50

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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	NONE				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51	TOTALS	\$0.00	\$0.00	\$0.00	\$0.00

ANNUAL REPORT

51

Town of Concord Municipal Light Plant

Year Ended: 12/31/2017

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 (b)	Gas Department (c)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandise sales, less discounts,				
3	allowances and returns.....				
4	Contract work.....	90,512.30			90,512.30
5	Commissions.....				
6	Other(list according to major classes)				
7					
8					
9					
10	Total Revenues	90,512.30			90,512.30
11					
12					
13	Costs and Expenses:				
14	Cost of sales (list according to major				
15	classes of cost).....				
16					
17	Labor	64,181.05			64,181.05
18	Transportation	34,981.86			34,981.86
19	Materials	29,606.31			29,606.31
20					
21					
22					
23					
24					
25					
26	Sales Expenses.....				
27	Customer accounts expenses.....				
28	Administrative and general expenses.....				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50	TOTAL COSTS AND EXPENSES	128,769.22	-	-	128,769.22
51	Net Profit (or loss)	(38,256.92)	-	-	(38,256.92)

ANNUAL REPORT

52

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

SALES FOR RESALE (Account 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) Non-associated 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 invoices 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	Sub-station	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	NONE							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

ANNUAL REPORT

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

53

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 amount entered in column (n) such as fuel or other adjustments.

8. If a contact 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)				Revenue per Kwh (cents) [0.0000] (p)	Line No.
			Demand Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
NONE								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
	TOTALS	0	\$0	\$0	\$0	\$0	0.0000	35

ANNUAL REPORT

54

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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 purchases as to (1) Associated Utilities, (2) Non-associated Utilities, (3) Associated Non-utilities, (4) Other Non-utilities, (5) Municipalities, (6) R.E.A. Cooperatives, and (7) Other Public

Authorities. For each purchase designate statistical classification 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, and other 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	Sub-station	Kw of Demand		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1								
2	Non-associated Utilities:							
3	NextEra	FP	X	Station #219		11,000		
4	N Y Power Authority	FP	X	Station #219		1,132		
5	ISO Spot Market	FP	X	Station #219				
6	Miller Hydro	FP	X	Station #219	O			
7	Industrial Power Services	FP	X	Station #219	W			
8	Spruce Mountain Wind	FP	X	Station #219				
9	Exelon	FP	X	Station #219	N			
10	Saddleback Ridge Wind	FP	X	Station #219				
11	Kearsage Solar Power	FP		Station #223 H4				
12	PSEG of New Jersey	FP	X	Station #219	E	10,000		
13	Shell Energy	FP	X	Station #219				
14	Nugen Capital	FP	X	Station #219	D			
15	New Bedford Landfill	FP	X	Station #219				
16	Canton Mountain	FP	X	Station #219				
17	Kearsarge II Solar	FP		Station #223 H4				
18	Solect Solar	FP		Station #223 H4				
19	Hydro Quebec ICC	FP	X	Station #219		801		
20								
21	Other Non-Utilities:							
22	Customer Net Metering	FP		Customer Pt				
23								
24								
25	Municipalities:							
26	Braintree Watson	FP		Station #219		9,205		
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								

ANNUAL REPORT

55

Town of Concord Municipal Light PI

Year Ended:

Year Ended: Dec 31, 2017

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 columns (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 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	Voltage at Which Delivered	Kilowatt-hours	Cost of Energy (Omit Cents)				Cents per KWH (cents) [0.0000]	Line No.
			Charges	Energy Charges	Other Charges *	Total		
(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
60 minute	13.8K	32,120,000	421,355	1,203,600	(339,505)	1,285,450	4.0020	1
60 minute	13.8K	8,054,435	57,904	134,482	(67,682)	124,704	1.5483	2
60 minute	13.8K	20,843,106	5,418,931	995,866	-	6,414,797	30.7766	3
60 minute	13.8K	5,153,950	-	249,677	-	249,677	4.8444	4
60 minute	13.8K	2,421,702	-	83,473	-	83,473	3.4469	5
60 minute	13.8K	5,769,466	-	484,502	-	484,502	8.3977	6
60 minute	13.8K	32,563,929	-	1,727,516	-	1,727,516	5.3050	7
60 minute	13.8K	5,077,555	-	388,151	-	388,151	7.6444	8
60 minute	13.8K	2,021,793	-	149,613	-	149,613	7.4000	9
60 minute	13.8K	-	273,500	-	(14,599)	258,901	n/a	10
60 minute	13.8K	40,706,039	-	2,213,594	-	2,213,594	5.4380	11
60 minute	13.8K	1,389,026	-	85,964	-	85,964	6.1888	12
60 minute	13.8K	4,568,032	-	209,278	-	209,278	4.5814	13
60 minute	13.8K	661,373	-	62,297	-	62,297	9.4194	14
60 minute	13.8K	5,989,200	-	401,276	-	401,276	6.7000	15
60 minute	13.8K	452,938	-	36,569	-	36,569	8.0738	16
60 minute	13.8K	-	-	-	(54,463)	(54,463)		17
60 minute	13.8K	441,499	-	10,354	-	10,354	2.3453	18
60 minute	13.8K	3,511,015	1,178,580	336,800	(556,125)	959,255	27.3213	19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
								31
								32
								33
								34
								35
								36
								37
								38
								39
								40
								41
TOTALS		171,745,058	7,350,270	8,773,015	(1,032,374)	15,090,910.52	8.7868	

* Value of Capacity Credit

ANNUAL REPORT

56

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net change or credit under interchange power agreements.
2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Non-associated Utilities, (3) Associated Non-utilities, (4) Other Non-utilities, (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								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12	TOTALS				0	0	0	0

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)	Amount (k)
13			
14			
15			
16			
17			
18			
19			
20			
21	TOTALS		0

ANNUAL REPORT

57

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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)
SOURCES OF ENERGY		
1	Generation (excluding station use):	
3	Steam..... Gas Turbine Combined Cycle	
4	Nuclear.....	
5	Hydro.....	
6	Other..... Diesel	
7	Total generation.....	
8	Purchases.....	171,751,447
9	{ In (gross).....	
10	Interchanges..... { Out (gross).....	
11	{ Net (Kwh).....	
12	{ Received.....	
13	Transmission for/by others (wh..... { Delivered.....	
14	{ Net (kwh).....	
15	TOTAL.....	171,751,447
DISPOSITION OF ENERGY		
16	Sales to ultimate consumers (including interdepartmental sales).....	164,278,188
18	Sales for resale.....	
19	Energy furnished with out charge.....	
20	Energy used by the company (excluding station use).....	553,602
21	Electric department only.....	553,602
22	Energy losses:	
23	Transmission and conversion losses.....	
24	Distribution losses.....	6,919,657
25	Unaccounted for losses.....	
26	Total energy losses.....	6,919,657
27	Energy losses as percent of total on line 15..... 4.03%	
28	TOTAL	171,751,447

MONTHLY PEAKS AND OUTPUT

1. Report hereunder the information called for pertaining to simultaneous peaks established monthly (in kilowatts) and monthly output (in kilowatt-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 brief 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.

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	29,405	Monday	9	6pm-7pm	60 Minute Interval	15,696,281
30	February	27,759	Thursday	9	1pm-2pm	60 Minute Interval	13,599,701
31	March	27,159	Saturday	4	8pm-9pm	60 Minute Interval	14,853,226
32	April	23,768	Thursday	6	2pm-3pm	60 Minute Interval	12,313,821
33	May	33,812	Thursday	18	2pm-3pm	60 Minute Interval	13,035,097
34	June	38,911	Tuesday	13	4pm-5pm	60 Minute Interval	14,782,771
35	July	35,940	Wednesday	19	5pm-6pm	60 Minute Interval	15,731,620
36	August	33,511	Tuesday	22	5pm-6pm	60 Minute Interval	15,104,995
37	September	32,291	Wednesday	27	5pm-6pm	60 Minute Interval	13,864,532
38	October	25,733	Tuesday	10	10am-11am	60 Minute Interval	12,899,873
39	November	24,776	Friday	10	5pm-6pm	60 Minute Interval	13,404,703
40	December	30,307	Sunday	31	8pm-9pm	60 Minute Interval	16,464,827
41						TOTAL	171,751,447

ANNUAL REPORT

58

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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 501 and

Line No.	Item (a)	Plant (b)	Plant (c)	Plant (d)
1	Kind of plant (steam, hydro, int. com., gas turbine	NONE		
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				

GENERATING STATION STATISTICS (Large Stations) - Continued
(Except nuclear, See Instruction 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 should 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 the 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.
NONE						1
						2
						3
						4
						5
						6
						7
						8
						9
						10
						11
						12
						13
						14
						15
						16
						17
						18
						19
						20
						21
						22
						23
						24
						25
						26
						27
						28
						29
						30
						31
						32
						33
						34
						35
						36
						37
						38
						39
						40
						41
						42

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, Non-utility 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	NONE						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

ANNUAL REPORT

61

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

STEAM GENERATING STATIONS - Continued

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 or 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.

Turbine-Generators*

Year Installed (h)	Type (i)	Steam Pressure at Throttle p.s.i.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*+ Rating*+ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
NONE											1
											2
											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27
											28
											29
											30
											31
											32
											33
											34
											35
											36

Note Reference:

*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 non-condensing (N.C.). Show back pressures.

** Designate air cooled generators.

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

*+ Should 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, Non-utility 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

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	NONE						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							

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

ANNUAL REPORT

63

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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 or 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						Total Installed Generating Capacity in Kil- owatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (i)	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 Station (o)	Number of Units in Station (p)		
NONE										1
										2
										3
										4
										5
										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27
										28
										29
										30
										31
										32
										33
										34
										35
										36
										37
										38
TOTALS										39

ANNUAL REPORT

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

64

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, Non-utility 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	NONE						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							

66

Year Ended: Dec 31, 2017

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 Commission,

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.

[illegible]

ANNUAL REPORT

67

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

TRANSMISSION LINE STATISTICS

Report information concerning transmission lines as indicated below.

Line No.	Designation		Operating Voltage (c)	Type of Supporting Structure (d)	Length (Pole Miles)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	NONE							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47	TOTALS							

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

ANNUAL REPORT

68

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

SUBSTATIONS

1. Report below the 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 of each substation, designating whether transmission or distribution and whether attended or unattended.

5. Show in columns (i), (j), and (k) special equipment such as rotary converters, rectifiers, condensers, etc. and auxiliary 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			Capacity of Substation In Kva (In Service) (f)	Number of Transformers in Service (g)		Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number of Units (j)	Total Capacity (k)
1											
2	Station #223 Main St	Dist.-Unattended	13.8	13.8			-				
3	Station #219 Forest Ridge Rd	Dist. & Sub-trans.-	115	13.8		120,000	2				
4		Unattended									
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
					TOTALS	120,000	2				

ANNUAL REPORT

69

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles- Beginning of Year	107.92		107.92
2	Added During Year			0.00
3	Retired During Year			0.00
4	Miles-End of Year	107.92		107.92
5				
6				
7				
8				
9				
10				
11				
12				
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.....	8,183	10,290	2,506	171,253
17	Additions during year:				
18	Purchased.....		1	72	5,578
19	Installed.....	74			
20	Associated with utility plant acquired....				
21	Total Additions.....	74	1	72	5,578
22	Reductions during year:				
23	Retirements.....		107	0	0
24	Associated with utility plant sold.....				
25	Total Reductions.....	0	107	0	0
26	Number at End of Year.....	8,257	10,184	2,578	176,831
27	In stock.....		1,253	630	50,548
28	Locked meters on customers' premises.....				
29	Inactive transformers on system.....				
30	In customers' use.....		8,708	1,943	125,683
31	In company's use.....		72	5	600
32	Number at End of Year.....		10,033	2,578	176,831

ANNUAL REPORT

70

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

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	Center of Concord	1.110	1.400	1PHASE 7970/13800		
2			5.540	3PHASE 7970/13800		
3						
4						
5	Sub-transmission	7.100	31.400	3PHASE 7970/13800		
6						
7						
8						
9	Distribution Circuits	16.560	42.810	3PHASE 7970/13800		
10						
11						
12						
13	Various URD Developments	1.000	0.890	1PHASE 2400/4160		
14			0.000	3PHASE 2400/4160		
15			58.450	1PHASE 7970/13800		
16			17.280	3PHASE 7970/13800		
17	West Concord Business Area	0.650				
18			0.632	1PHASE 7970/13800		
19			4.037	3PHASE 7970/13800		
20						
21	Route 2 Crossing at Route 62	0.942	1.714	3PHASE 7970/13800		
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34	TOTALS	52.922	164.153			

ANNUAL REPORT

71

Town of Concord Municipal Light Plant

Year Ended: Dec 31, 2017

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town	Total	TYPE													
			Incandescent		Mercury Vapor		Fluorescent		Hi-Press. Sodium		Mercury Halite		LED		TOTAL	
			Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
1	CONCORD	2,152	None	-	26	-	None	-	29	-	949	-	72	-	1,076	-
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52	TOTALS	2,152	-	-	26	-	-	-	29	-	949	-	72	-	1,076	-

Next page is 79

Next page is 79

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	Decreases
February 1, 2017	401	Residential Service	\$ 0.00	
May 1, 2015	380	Residential and General Service - Farm Discount Rider	\$ 0.00	
February 1, 2017	402	Residential Time of Use	\$ 0.00	
May 1, 2015	382	Controlled Water Heating Credit Rider	\$ 0.00	
May 1, 2015	383	Residential Service Rider - Net Metering with Banking Rate	\$ 0.00	
May 1, 2015	384	Power Cost Adjustment Clause	\$ 0.00	
May 1, 2015	385	Private Area Lighting		\$ 250.00
May 1, 2015	386	Residential Service - Rate Assistance Rider	\$ 0.00	
February 1, 2017	404	Small General Service	\$ 0.00	
February 1, 2017	405	Medium General Service	\$ 0.00	
February 1, 2017	406	Large General Service	\$ 0.00	
See Appendix for copies of Filed Rates				

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

x

.....
Christopher Whalen

Town Manager

x

.....
David Wood

Director

x

.....
Gordon Brockway, Chair

Members
of the
Municipal
Light
Board

x

.....
Peggy Briggs

x

.....
Dan Gainsboro

x

.....
Wendy Rovelli

x

.....
Lynn Salinger


ANNUAL REPORT

Town of Concord Municipal Light Plant


Year End: Dec 31, 2017

81


THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

x  Acting Town Manager
Christopher Whalen / Kate Nodges

x  Director
David Wood

x  Members
Gordon Brockway, Chair of the
Municipal
Light
Board

x
Peggy Briggs

x  Dan Gainsboro

x
Wendy Rovelli

x  Lynn Salinger

APPENDIX

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

**RATE R-1
RESIDENTIAL SERVICE**

Mass DPU No. 401
Replaces Mass DPU No. 395

Effective: February 2, 2017

The Concord Municipal Light Plant (the "CMLP") shall charge and collect for residential service on the basis of this rate schedule. The Power Cost Adjustment Clause, the NYPA Power Cost Adjustment Clause, the Conservation and Renewable Energy Services Charge, the Underground Utilities Charge and the CMLP Rules and Regulations are incorporated by reference as a part of this rate schedule.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "CMLP System").

Applicability

This rate schedule is applicable to all electric service required by the Customer exclusively for domestic purposes for individual (single family) private residences and individually metered apartment units.

This rate schedule is not applicable to businesses, licensed boarding or rooming houses, fraternity or sorority houses advertised as such, educational institutions or facilities, apartment houses including the common facility requirements, or the common facility requirements of residences also used for business purposes, evidenced by any form of advertising including a separate white page telephone listing, which will be served under the appropriate general service rate schedule.

Character of Service

Service under this rate schedule shall be alternating current, 60 Hertz, single phase, at CMLP's option of the standard voltages available from the CMLP System. The CMLP may, at its option, require three-phase service when individual motors rated at 5.0 horsepower or larger are connected to the CMLP System. Standby or resale service is not permitted under this rate schedule.

Monthly Rate

Meter Charge (Single Phase)	\$9.00 per month
Meter Charge (Three Phase)	Customers requiring three phase service shall pay a one-time fee of \$200 to cover additional meter costs.
Capacity and Transmission Charge:	
First 600 kWhs	\$0.04853 per kWh
Next 316 kWhs	\$0.06311 per kWh
All in excess of 916 kWhs	\$0.09107 per kWh
Distribution Charge	\$0.03160 per kWh
Energy Charge	\$0.06418 per kWh

The above rates per kWh will be adjusted plus or minus in accordance with the formulae specified in the Power Cost Adjustment Clause and the NYPA Power Cost Adjustment Clause. The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which is assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Minimum Charge

The monthly minimum charge shall be the sum of the Meter Charge and all applicable rate adjustments.

Terms

The Monthly Rates are net and bills are due on presentation. Bills will be rendered either monthly or bi-monthly, at the sole discretion of the CMLP. When bills are rendered bi-monthly, the Meter Charge and the number of kilowatt-hours in each Energy Rate block will be multiplied by two (2).

Effective Date

This rate schedule is effective for all consumption on or after the effective date shown above.

Interruption of Service

The CMLP will make reasonable provisions to assure satisfactory and continuous service, but does not guarantee a continuous supply of electric power and energy from the CMLP System facilities and shall not be liable for damage occasioned by interruptions of service or failure to commence delivery caused by acts of God, or the public enemy, or for any cause reasonably beyond the control of the CMLP, including, but not limited to, the failure or breakdown of facilities, floods, fire, strikes, or actions or orders of any agency having jurisdiction in the premises, or for interruptions which are necessary for inspection, repair, or changes in the equipment and facilities of the CMLP or the bulk power supplier(s) to the CMLP System.

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System.

Term of Contract

Service under this rate schedule is subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

RESIDENTIAL AND GENERAL SERVICE – FARM DISCOUNT RIDER

Mass DPU No. 380
Replaces Mass DPU No. 360

Effective: May 1, 2015

Availability

Available to Residential and General Service customers that have been certified by the Massachusetts Department of Food and Agriculture as being eligible for the Farm Energy Discount Program. Once certified, this rate schedule is applicable to all electric service required by the Customer for lighting, power and any other purpose on the farm including residential.

Discount Program Rider

A 10% discount shall be applied to the Meter Charge, Capacity and Transmission, Distribution and Energy Charges. All adjustment clauses, taxes, assessments or surcharges that applicable to the Residential and General Service tariffs shall remain in effect.

Term of Contract

Credits under this rider are subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

RATE R-1 TOUR
RESIDENTIAL TIME OF USE RATE

Mass DPU No. 402
Replaces Mass DTE No. 400

Effective: February 1, 2017

The Concord Municipal Light Plant (the "**CMLP**") shall charge and collect for residential service on the basis of this rate schedule. The Power Cost Adjustment Clause, the NYPA Power Cost Adjustment Clause, the Conservation and Renewable Energy Services Charge, the Underground Utilities Charge and the CMLP Rules and Regulations are incorporated by reference as a part of this rate schedule.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "**CMLP System**")

Applicability

This rate schedule is applicable to all electric service required by the Customer exclusively for domestic purposes for individual (single family) private residences and individually metered apartment units. This rate is also available for sub- or multi-metered residential load(s) for the specific purpose of charging electric vehicles or Electric Thermal Storage heating applications.

This rate schedule is not applicable to businesses, licensed boarding or rooming houses, fraternity or sorority houses advertised as such, educational institutions or facilities, apartment houses including the common facility requirements, or the common facility requirements of residences also used for business purposes, evidenced by any form of which will be served under the appropriate general service rate schedule.

Character of Service

Service under this rate schedule shall be alternating current, 60 Hertz, single phase, at CMLP's option of the standard voltages available from the CMLP System. The CMLP may, at its option, require three-phase service when individual motors rated at 5.0 horsepower or larger are connected to the CMLP System. Standby or resale service is not permitted under this rate schedule.

Monthly Rate

Initial, One Time Meter Installation Charge if (Single Phase) for approved sub- or multi-metered applications (listed above)	\$300.00
---	----------

Meter Charge	\$9.00 per month
--------------	------------------

The monthly Meter Charge shall be waived for approved sub- or multi-metered loads associated with an account already taking service under the R-1 tariff.

Capacity and Transmission and Distribution Charges:

On-peak

All kWhs	\$0.15043 per kWh
Off-peak All kWhs	\$0.03448 per kWh
Energy Charge: All kWhs	\$0.06418 per kWh

The above rate per kWh will be adjusted plus or minus in accordance with the formulae specified in the Power Cost Adjustment Clause and the NYPA Power Cost Adjustment Clause. The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which is assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Billing Periods

Fourteen off-peak hours per day from 10 PM to 12 Noon, Monday-Friday and all weekend hours. All the remaining hours are on-peak.

Minimum Charge

The monthly minimum charge shall be the sum of the Meter Charge and all applicable rate adjustments.

Terms

The Monthly Rates are net and bills are due on presentation. Bills will be rendered either monthly or bi-monthly, at the sole discretion of the CMLP. When bills are rendered bi-monthly, the Meter Charge and the number of kilowatt-hours in each Energy Rate block will be multiplied by two (2).

Effective Date

This rate schedule is effective for all consumption on or after the effective date shown above.

Interruption of Service

The CMLP will make reasonable provisions to assure satisfactory and continuous service, but does not guarantee a continuous supply of electric power and energy from the CMLP System facilities and shall not be liable for damage occasioned by interruptions of service or failure to commence delivery caused by acts of God, or the public enemy, or for any cause reasonably beyond the control of the CMLP, including, but not limited to, the failure or breakdown of facilities, floods, fire, strikes, or actions or orders of any agency having jurisdiction in the premises, or for interruptions which are necessary for inspection, repair, or changes in the equipment and facilities of the CMLP or the bulk power supplier(s) to the CMLP System.

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System.

Term of Contract

Service under this rate schedule must be taken for a minimum of one (1) year. After one year, the customer may terminate service at any time by giving the CMLP written notice, subject to the provisions of the Rules and Regulations for Electric Service.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

CONTROLLED WATER HEATING CREDIT RIDER

Mass DPU No. 382
Replaces Mass DPU No. 313

Effective: May 1, 2015

Applicability

This rate schedule is applicable to Residential and General Service electric service required by the Customer, where the Customer uses electricity as the sole means of heating water for domestic purposes. The only supplemental means of heating water permitted under this rate is solar.

Service to electric water heaters for domestic purposes under this rate rider will be available for a minimum of 18 hours each day.

The electric water heating equipment installed must be approved and controlled by the CMLP and used exclusively for domestic purposes.

Discount Program Rider

A credit of \$14.87 shall be applied for each month the Customer meets the requirements listed in the Applicability section above.

Term of Contract

Credits under this rider are subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.

CONCORD MUNICIPAL LIGHT PLANT ELECTRIC RATE SCHEDULES

RESIDENTIAL SERVICE RIDER– NET METERING WITH BANKING RATE

Mass DPU No. 383

Effective: May 1, 2015

Replaces Mass DPU No 378

The Concord Municipal Light Plant (the "CMLP") shall pay for energy delivered to the CMLP system from eligible, small scale generating sources including: solar, wind, and micro-turbine units which simultaneously generate electricity and recover heat.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "CMLP System").

Applicability

This rate schedule is applicable to all small-scale generation facilities with a net output of less than one hundred sixty seven (167) kilowatts of alternating current capacity as determined by CMLP.

This rate rider is only available for residential service.

Rates and Credits

Energy generated by the Customer under this rate will be netted against the energy normally purchased under the Residential Service Rate(s) from CMLP during the monthly billing period to the extent the generated energy does not exceed Customer purchases from CMLP. To the extent the generated energy exceeds the above purchases from CMLP during the billing period; CMLP will credit the Customer as follows: The credit for excess energy shall be determined by the avoided average monthly Day Ahead locational marginal price (DA-LMP) per kilowatt-hour applicable to Concord for wholesale power purchased from the ISO – New England. The Day Ahead price may vary with the source of customer generation at the discretion of CMLP. For example, the Day Ahead price for solar generation will be determined by calculating the average hourly DA price for the calendar month prior to the billing date based on the daytime hours between 9am and 4pm.

Distribution Charge

Installed Generation Capacity equal or greater than 2 kW but less than 4 kW AC	\$3.60 per month
Installed Generation Capacity equal or greater than 4 kW but less than 7 kW AC	\$6.60 per month
Installed Generation Capacity equal or greater than 7 kW but less than 10 kW AC	\$10.20 per month
Installed Generation Capacity equal or greater than 10 kW but less than 13 kW AC	\$13.80 per month

Rate Net Metering With Banking

Installed Generation Capacity equal or greater than 13 kW but less than 16 kW AC	\$17.40 per month
Installed Generation Capacity equal or greater than 16 kW but less than 19 kW AC	\$21.00 per month
Installed Generation Capacity equal or greater than 19 kW but less than 22 kW AC	\$24.60 per month
Installed Generation Capacity equal or greater than 22 kW but less than 25 kW AC	\$28.20 per month
Installed Generation Capacity equal or greater than 25 kW but less than 28 kW AC	\$31.80 per month
Installed Generation Capacity equal or greater than 28 kW but less than 31 kW AC	\$35.40 per month
Installed Generation Capacity equal or greater than 31 kW but less than 34 kW AC	\$39.00 per month
Installed Generation Capacity equal or greater than 34 kW but less than 37 kW AC	\$42.60 per month
Installed Generation Capacity equal or greater than 37 kW but less than 40 kW AC	\$46.20 per month
Installed Generation Capacity equal or greater than 40 kW but less than 46 kW AC	\$53.40 per month
Installed Generation Capacity equal or greater than 46 kW AC but less than 58 kW AC	\$67.80 per month
Installed Generation Capacity equal or greater than 58 kW AC but less than 82 kW AC	\$96.60 per month

Rate Net Metering With Banking

Installed Generation Capacity equal or greater than 82 kW AC but less than 130 kW AC	\$154.20 per month
Installed Generation Capacity equal or greater than 130 kW AC but less than 167 kW AC	\$198.60 per month

Terms

The credit for excess generation will be applied to the customer's account each month.

Effective Date

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System.

Term of Contract

Service under this rate schedule is subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

**POWER COST ADJUSTMENT CLAUSE
Rate Schedule PCA**

Mass DPU No. 384
Replaces Mass DPU No. 349

Effective: May 1, 2015

The Power Cost Adjustment calculated pursuant to this rate schedule is applicable to all energy delivered by the Concord Municipal Light Plant (the "CMLP"), other than the energy supplied for municipal street lighting service, private area lighting service. The prices for the above energy assume a base cost for power supply of \$0.10000 per kWh. Revenue adjustments are made through the PCA factor to reflect the difference between the actual cost of power supply and the base cost. The PPA factor is applied, as required, in order to equate actual power supply costs with revenues collected through the base rate while maintaining a reserve balance to cover short term power supply costs fluctuations.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

RATE PAL
PRIVATE AREA LIGHTING

Mass DPU No. 385
Replaces Mass DPU No. 296

Effective: May 1, 2015

The Concord Municipal Light Plant (the "CMLP") shall charge and collect for outdoor lighting and floodlighting service for private property under this rate schedule. The Underground Utilities Charge, the Energy Conservation Services Charge and the CMLP Rules and Regulations are incorporated by reference as a part of this rate schedule.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "CMLP System").

Applicability

This rate schedule is applicable to year-round private outdoor lighting service. Lighting fixtures and service to be provided pursuant to this rate schedule shall be at locations that are easily and economically accessible to the CMLP equipment and personnel for construction and maintenance. Lamps will be operated approximately 4,300 hours per year per lamp from dusk to dawn as controlled by photoelectric devices.

Monthly Rate

Flood Light	Nominal Lumens	Price per Lamp
175 Watt Metal Halide	14,000	\$22.73
250 Watt Metal Halide	20,000	\$25.57

Special Installation Charge:

Pole Set Charge	\$4.00 per month
Overhead Wiring Charge	\$5.00 per 100 feet per month
Underground Wiring Charge	\$4.00 per 100 feet per month

The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which is assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Terms

The Monthly Rates are net and bills are due on presentation. Bills will be rendered either monthly, bi-monthly or annually, at the sole discretion of the CMLP.

Effective Date:

This rate schedule is effective for all bills issued on or after the effective date shown above.

Interruption of Service

The CMLP will make reasonable provisions to insure satisfactory and continuous service, but does not guarantee a continuous supply of electric power and energy from the CMLP System facilities and shall not be liable for damage occasioned by interruptions of service or failure to commence delivery caused by acts of God, or the public enemy, or for any cause reasonably beyond the control of the CMLP, including, but not limited to, the failure or breakdown of facilities, floods, fire, strikes, or actions or orders of any agency having jurisdiction in the premises, or for interruptions which are necessary for inspection, repair, or changes in the equipment and facilities of the CMLP or the bulk power suppliers) to the CMLP System.

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System..

General Conditions:

The CMLP will furnish, operate and maintain the facilities required for service under this rate schedule. The customer is solely responsible for notifying the CMLP of any required repairs or maintenance including lamp replacements. Service and necessary maintenance will be performed only during regularly scheduled working hours. No reduction in billing will be allowed for lamp outages.

Service at locations where existing CMLP System poles and facilities are not available will be made at the discretion of the CMLP and at the Special Installation Charges, to recover the cost of installing poles and conductors and to recover increased cost of maintenance.

When the customer elects to put the wiring underground, the customer is responsible for having the trench and conduit installed.

The above monthly rates include the cost of energy. No lights will be installed under this rate where the electricity passes through the customer's meter.

Special Conditions:

The following conditions shall apply to all facilities installed by the CMLP under the rate schedule:

1. The cost of repairing facilities damaged by acts of vandalism shall be billed to the Customer at actual cost to the CMLP including all appropriate overhead costs.
2. The CMLP shall, at the request of the Customer, relocate or change existing equipment and the Customer shall reimburse the CMLP for any and all such relocation's or changes at the CMLP's actual costs including all appropriate overhead costs.
3. Extensions of any lighting facilities will be made by the CMLP only where, in the sole opinion of the CMLP, the annual revenues justify the estimated costs including all appropriate overhead costs.
4. New private area lighting facilities shall be of a form and substance consistent with the CMLP's approved standard configuration for private area lighting at the time of the Customer's application for service. Where a non-standard lighting configuration is requested by the Customer and agreed to by CMLP, all maintenance and replacement costs shall be paid by the Customer.

Term of Contract:

A Customer requesting service under this rate schedule will be required to complete an application and agree to an initial minimum term of two (2) years.

If service is terminated within the initial two (2) years, the balance owed for the remaining contract time will become due and payable.

After the initial two (2) years, service under this rate schedule is subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES
RESIDENTIAL SERVICE-RATE ASSISTANCE RIDER**

Mass DPU No. 386
Replaces Mass DPU No.367

Effective: May 1, 2015

Applicability

This rate schedule is applicable to all electric service required by the Customer exclusively for domestic purposes for individual (single family) private residences and individually metered apartment units where the Customer qualifies based on economic need. Application forms are available at CMLP.

This rate schedule is not applicable to businesses, licensed boarding or rooming houses, fraternity or sorority houses advertised as such, educational institutions or facilities, apartment houses including the common facility requirements, or the common facility requirements of residences also used for business purposes, evidenced by any form of advertising including a separate white page telephone listing, which will be served under the appropriate general service rate schedule.

Rate Assistance Credit:

Credit per kWh	\$0.08883/kWh
----------------	---------------

The above rate per kWh will be adjusted plus or minus in accordance with the formulae specified in the Purchased Power Cost Adjustment Clause and the NYPA Power Cost Adjustment Clause. The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which is assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Term of Contract

Credits under this rider are subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service. In addition, the Customer must reconfirm eligibility each year.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES****RATE G-1
SMALL GENERAL SERVICE**

Mass DPU No. 404
Replaces Mass DPU No. 396

Effective: February 1, 2017

The Concord Municipal Light Plant (the "CMLP") shall charge and collect for small general service on the basis of this rate schedule. The Power Cost Adjustment Clause, the Conservation And Renewable Energy Services Charge, the Underground Utilities Charge and the CMLP Rules and Regulations are incorporated by reference as a part of this rate schedule.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "CMLP System").

Applicability

This rate schedule is applicable to all electric service required by the Customer for lighting, power and any other purpose, other than residential service as defined in Rate R Schedules, where the Customer's maximum metered demand is less than 20.0 k W. If the Customer's monthly metered energy exceeds 4,000 kilowatt-hours for four consecutive months, the CMLP may install demand metering equipment. If the maximum metered demand is 20.0 kW or greater for any two months during any twelve month period, the CMLP will transfer the Customer to the then applicable general service rate schedule.

Character of Service

Service under this rate schedule shall be alternating current, 60 Hertz, single phase, at the CMLP's option of the standard voltages available from the CMLP System. The CMLP may, at its option, require three-phase service when individual motors rated at 5.0 horsepower or larger are connected to the CMLP System. Standby or resale service is not permitted under this rate schedule. Customers receiving three phase service will be assessed three times the single phase Meter Charge.

Monthly Rate

Meter Charge (Single Phase)	\$9.00 per month
Customers requiring three phase service shall pay a one-time fee of \$200 to cover additional meter costs	
Capacity and Transmission Charge:	\$0.08185 per kWh
Distribution Charge	\$0.03228 per kWh
Energy Charge	\$0.06418 per kWh

The above energy rate will be adjusted plus or minus in accordance with the formula specified in the Power Cost Adjustment Clause. The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which is assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Minimum Charge

The monthly minimum charge shall be the sum of the Meter Charge and all applicable rate adjustments.

Terms

The Monthly Rates are net and bills are due on presentation. Bills will be rendered either monthly or bi-monthly, at the sole discretion of the CMLP. When bills are rendered bi-monthly, the Meter Charge and the number of kilowatt-hours in each Energy Block will be multiplied by two (2).

Effective Date

This rate schedule is effective for all consumption on or after the effective date shown above.

Interruption of Service

The CMLP will make reasonable provisions to assure satisfactory and continuous service, but does not guarantee a continuous supply of electric power and energy from the CMLP System facilities and shall not be liable for damage occasioned by interruptions of service or failure to commence delivery caused by acts of God, or the public enemy, or for any cause reasonably beyond the control of the CMLP, including, but not limited to, the failure or breakdown of facilities, floods, fire, strikes, or actions or orders of any agency having jurisdiction in the premises, or for interruptions which are necessary for inspection, repair, or changes in the equipment and facilities of the CMLP or the bulk power supplier(s) to the CMLP System.

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System.

Term of Contract

Service under this rate schedule is subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES**

**RATE G-2
MEDIUM GENERAL SERVICE**

Mass DPU No. 405
Replaces Mass DPU No. 397

Effective: February 1, 2017

The Concord Municipal Light Plant (the "**CMLP**") shall charge and collect for medium general service on the basis of this rate schedule. The Power Cost Adjustment Clause, the Conservation And Renewable Energy Services Charge, the Underground Utilities Charge and the CMLP Rules and Regulations are incorporated by reference as a part of this rate schedule.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "**CMLP System**").

Applicability

This rate schedule is applicable to all electric service required by the Customer for lighting, power and any other purpose, other than residential service, where the Customer's maximum metered demand is equal to or greater than 20 kW for any two months during any twelve month period.

Character of Service

Service under this rate schedule shall be alternating current, 60 Hertz, single or three phase, at CMLP's option of the standard voltages available from the CMLP System. The CMLP may, at its option, require three-phase service when individual motors rated at 5.0 horsepower or larger are connected to the CMLP System. Standby or resale service is not permitted under this rate schedule. Customers receiving three phase service will be assessed three times the single phase Meter Charge.

Monthly Rate

Meter Charge (Single Phase)	\$33.00 per month
Meter Charge (Three Phase)	\$60.00 per month
Demand Rate	\$10.85 per billing kW
Capacity and Transmission Charge	\$0.03507 per kWh
Distribution Charge	\$0.02651 per kWh
Energy Charge	\$0.06418 per kWh

The above energy rate will be adjusted plus or minus in accordance with the formula specified in the Power Cost Adjustment Clause. The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which is assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Minimum Charge

The monthly minimum charge shall be the sum of the Meter Charge the monthly demand charge for the minimum demand and all applicable rate adjustments.

Determination of Billing Demand

The monthly Billing Demand shall be the greater of:

- a) the highest metered kilowatt demand established during any 15 minute interval during the month;
- b) 95% of the greatest metered or calculated kVA during the month; or

c) 20 kW.

Power Factor Adjustment

The monthly metered kilowatt demand may be adjusted to an equivalent 95.0% lagging power factor for the purpose of establishing the monthly Billing Demand when the power factor measured at the point of delivery to the Customer is determined to be less than 95.0%. Such adjustment may be deferred for six (6) months at a new point of delivery to allow for corrective action by the Customer.

Terms

The Monthly Rates are net and bills are due on presentation. Bills will be rendered either monthly or bi-monthly, at the sole discretion of the CMLP. When bills are rendered bi-monthly, the Meter Charge and the monthly demand charge will be multiplied by two (2).

Effective Date

This rate schedule is effective for all consumption on or after the effective date shown above.

Interruption of Service

The CMLP will make reasonable provisions to assure satisfactory and continuous service, but does not guarantee a continuous supply of electric power and energy from the CMLP System facilities and shall not be liable for damage occasioned by interruptions of service or failure to commence delivery caused by acts of God, or the public enemy, or for any cause reasonably beyond the control of the CMLP, including, but not limited to, the failure or breakdown of facilities, floods, fire, strikes, or actions or orders of any agency having jurisdiction in the premises, or for interruptions which are necessary for inspection, repair, or changes in the equipment and facilities of the CMLP or the bulk power supplier(s) to the CMLP System.

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System.

Term of Contract

Service under this rate schedule is subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service. Any Customer, whose service has been changed from Small General Service to this rate schedule at the Customer's request, will be required to remain on this rate schedule for a minimum period of 12 months.

**CONCORD MUNICIPAL LIGHT PLANT
ELECTRIC RATE SCHEDULES****RATE G-3
LARGE GENERAL SERVICE**

Mass DPU No. 406
Replaces Mass DPU No.398

Effective: February 1, 2017

The Concord Municipal Light Plant (the "**CMLP**") shall charge and collect for large general service on the basis of this rate schedule. The Power Cost Adjustment Clause, the Conservation And Renewable Energy Services Charge, the Underground Utilities Charge and the CMLP Rules and Regulations are incorporated by reference as a part of this rate schedule.

Availability

This rate schedule is available throughout the entire territory served by the CMLP Electric System (the "**CMLP System**").

Applicability

This rate schedule is applicable to all electric service required by the Customer for lighting, power and any other purpose, other than residential service, where the Customer's maximum metered on-peak kilowatt demand is equal to or greater than 200 kW at a single metered location. If the billing demand does not exceed 200 kW for a one-year period, the Customer may request assignment to the Medium General Service rate schedule.

Character of Service

Service under this rate schedule shall be alternating current, 60 Hertz, single or three phase, at CMLP's option of the standard voltages available from the CMLP System. The CMLP may, at its option, require three-phase service when individual motors rated at 5.0 horsepower or larger are connected to the CMLP System. Standby or resale service is not permitted under this rate schedule.

Monthly Rate

Meter Charge (1 or 3 Phase)	\$325 per month
Demand Rate	\$9.97 per billing kW
Transmission and Capacity Charge	\$0.03094 per kWh
Distribution Charge	\$0.02125 per kWh
Energy Rate	\$0.06418 per kWh

The above energy rate will be adjusted plus or minus in accordance with the formula specified in the Power Cost Adjustment Clause. The amount computed at the Monthly Rate shall be subject to taxes, assessments or surcharges imposed by any governmental authority which are assessed on the basis of revenues from electric service or volumes of electricity purchased or sold by the CMLP.

Minimum Charge

The monthly minimum charge shall be the sum of the Meter Charge, the monthly demand charge for the minimum demand and all applicable rate adjustments.

Terms

The Monthly Rates are net and bills are due on presentation. Bills will be rendered monthly.

Effective Date

This rate schedule is effective for all consumption on or after the effective date shown above.

Determination of Billing Demand:

The monthly Billing Demand shall be the greater of:

- a) the highest metered kilowatt demand established during any 15 minute interval during the month;
- b) 95% of the greatest metered or calculated kVA during the month; or
- c) 200 kW

When welding equipment is installed, the excess demand placed on the CMLP system to supply this welding load may be added to the Customer's measured demand.

Power Factor Adjustment

The monthly metered kilowatt demand will be adjusted to an equivalent 95.0% lagging power factor for the purpose of establishing the monthly Billing demand when the power factor measured at the point of delivery to the Customer is determined to be less than 95.0%. Such adjustment may be deferred for six (6) months at a new point of delivery to allow for corrective action by the Customer.

Primary Service Adjustment

Where service is metered at primary voltage, a discount of two (2) percent of the demand and energy charges (after discount for equipment ownership and exclusive of the purchased power adjustment charge) will be allowed.

Transformer Ownership

If the Customer furnishes, installs, owns and maintains at the Customer's expense, all protective devices, transformers and other equipment required for primary voltage service as specified by CMLP, the monthly demand charge will be reduced by \$0.12 per kilowatt of billing demand.

Interruption of Service

The CMLP will make reasonable provisions to assure satisfactory and continuous service, but does not guarantee a continuous supply of electric power and energy from the CMLP System facilities and shall not be liable for damage occasioned by interruptions of service or failure to commence delivery caused by acts of God, or the public enemy, or for any cause reasonably beyond the control of the CMLP, including, but not limited to, the failure or breakdown of facilities, floods, fire, strikes, or actions or orders of any agency having jurisdiction in the premises, or for interruptions which are necessary for inspection, repair, or changes in the equipment and facilities of the CMLP or the bulk power supplier(s) to the CMLP System.

The Customer shall notify the CMLP immediately of any defects, troubles or accident which may in any way affect the delivery of electric service by the CMLP from the CMLP System.

Term of Contract

Service under this rate schedule is subject to termination at any time upon the CMLP's receipt of written notice from the Customer, subject to the provisions of the Rules and Regulations for Electric Service.