

The Commonwealth of Massachusetts
Department of Telecommunications and Energy
1 South Station 3rd floor
Boston, MA 02110

TO THE MAYORS, SELECTMEN, MUNICIPAL LIGHTS BOARDS AND MANAGERS OF
MUNICIPAL LIGHTING IN THE SEVERAL CITIES AND TOWNS IN THIS COMMON-
WEALTH OPERATING GAS OR ELECTRIC LIGHT PLANTS:

This form of the Annual Return should be filled out and one original and a duplicate copy (which may be a photocopy) should be returned to the Office of the Department of Telecommunications and Energy, 100 Cambridge Street, Boston Massachusetts, 02202, by September 30 of the year following the calendar year of the report in accordance with the statutes of the Commonwealth and the regulations of the Department made in pursuance thereof.
(I received an extension on the deadline.)

Where the word "None" truly and completely states the fact, it should be given as the answer to any particular inquiry or portion of an inquiry.

If respondent so desires, cents may be omitted in the balance sheet, income statement and supporting schedules. All supporting schedules on an even-dollar basis, however, shall agree with even-dollar amounts in the main schedules. Averages and extracted figures, where cents are important, must show cents for reasons which are apparent.

Special attention is called to the legislation in regard to the Returns printed in the last page.

THE COMMONWEALTH OF MASSACHUSETTS

RETURN

OF THE

TOWN OF READING MUNICIPAL LIGHT DEPARTMENT

TO THE

**DEPARTMENT OF
PUBLIC UTILITIES**

OF MASSACHUSETTS

FOR THE YEAR ENDED DECEMBER 31,

2023

Name of Officer to whom correspondence should
be addressed regarding this report.

Gregory Phipps

Official Title: **General Manager**

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

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FOR GAS PLANTS ONLY:

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GENERAL INFORMATION

1. Name of town (or city) making this report. Town of Reading
2. If the town (or city) has acquired a plant,
 - Kind of plant, whether gas or electric. Electric
 - Owner from whom purchased, if so acquired. Created in 1894
- Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws.
- Record of votes: First vote Yes, 94 ; No, 14 Second vote: Yes, 361 ; No, 21
- Date when town (or city) began to sell electricity, 1895
3. Name and address of general manager of municipal lighting: Gregory Phipps
230 Ash Street
Reading, MA 01867
4. Name and address of mayor or selectman Jacqueline McCarthy, Chair
Mark L Dockser, Vice Chair
Karen Gately Herrick, Secretary
Carlo Bacci, Member
Christopher Haley, Member
5. Name and address of town (or city) treasurer: Diane Morabito
16 Lowell Street
Town Hall
Reading, MA 01867
6. Name and address of town (or city) clerk: Laura A. Gemme
16 Lowell Street
Town Hall
Reading, MA 01867
7. Names and addresses of members of municipal light board at year end: Phillip B. Pacino, Chair
David A. Talbot, Vice Chair
Robert Coulter
Marlena Bitz
Pam Daskalakis
8. Total valuation of estates in town (or city) according to last state valuation \$7,417,350,524.00
9. Tax rate for all purposes during the year (residential): \$11.72
- 9a. Tax rate for other (commercial, industrial and Personal property) \$12.92
10. Amount of manager's salary: \$244,000.00
11. Amount of manager's bond: \$50,000.00
12. Amount of salary paid to members of municipal light board (each) \$0.00

Annual Report of: Town of Reading Municipal Light Department		Year ended December 31, 2023	
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.....		102,064,724
2	From sales of electricity		
3			
4	TOTAL		102,064,724
Expenses:			
5			
6	For operation, maintenance and repairs.....		86,787,935
7	For interest on bonds, notes or scrip.....		
8	For depreciation fund (3% on \$175,858,463) less netted amortization of CIAC.....		5,226,535
9	For sinking fund requirements.....		
10	For note payments.....		
11	For bond payments.....		
12	For loss in preceding year.....		
13	TOTAL		92,014,470
Cost:			
14			
15	Of gas to be used for municipal buildings.....		
16	Of gas to be used for street lights.....		
17	Of electricity to be used for municipal buildings.....		
18	Of electricity to be used for street lights.....		
19	Total of the above items to be included in the tax levy.....		
20			
21			
22	New construction to be included in the tax levy.....		
23	Total amounts to be included in the tax levy.....		
CUSTOMERS			
Names of cities of towns in which the plant supplies GAS, with the number of customers' meters in each		Names of cities of towns in which the plant supplies ELECTRICITY, with the number of customers' meters in each	
City or Town	Number of Customers' Meters, Dec 31.	City or Town	Number of Customers' Meters, Dec 31.
		Reading	10,900
		Lynnfield	3,147
		North Reading	7,120
		Wilmington	9,740
		Co-Op Resale	21
		TOTAL	30,928

Annual Report of: Town of Reading Municipal Light Department		5 Year ended December 31, 2023
APPROPRIATIONS SINCE BEGINNING OF YEAR		
(Include also all items charged direct to tax levy, even where no appropriation is made or required.)		
FOR CONSTRUCTION OR PURCHASE OF PLANT:		
* At	meeting	19 , to be paid from { \$ _____
* At	meeting	19 , to be paid from { \$ _____
FOR THE ESTIMATED COST OF THE GAS OR ELECTRICITY TO BE USED BY THE CITY OR TOWN FOR:		
1. Street Lights.....		\$ _____
2. Municipal Buildings.....		\$ _____
*Date of meeting and whether regular or special { Here insert bonds, notes or tax levy		
CHANGES IN THE PROPERTY		
1. Describe briefly all the important physical changes in the property during the last fiscal period including additions, alterations or improvements to the works or physical property retired.		
In electric property:		
SEE ATTACHED SCHEDULE		
In gas property:		

READING MUNICIPAL LIGHT DEPARTMENT CALENDAR YEAR 2023 CONSTRUCTION HIGHLIGHTS

The Reading Municipal Light Department's (RMLD) system peak demand in Calendar Year 2023 was 152,712 kW occurring on September 7, 2023, hour ending 5:00 PM. This was 7% lower than the 2022 peak of 164,640 kW and 12% lower than the highest peak demand of 172,943 kW set in August 2006. RMLD purchased 659 million kWh in Calendar Year 2023.

LINE CONSTRUCTION

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

READING

- Howard Street & Milton Road - Replaced 6 poles and transfer construction.
- Lakeview Ave/ Beech St - Area Conversion - Replaced 2 transformers and approximately 300 feet of underground primary.
- Franklin St – Installed a laminated pole.
- John Street/Union Street - Reconnector 1300 circuit feet of 3-phase open wire primary and install Scadamate Switch
- Forest Glen Road/Pearl Street - Pole upgrades and transfers, installed a laminated pole, and Verizon replaced 10 poles.
- Harvest Road/Line Road - Pole upgrades - Verizon replaced 6 poles - RMLD transferred.
- Lucy Road/Beaver Road - Pole upgrades - Verizon replaced 11 poles, RMLD to transfer construction.
- Longview Rd - Added a new pole and transformer, extended the primary approximately 300 feet.

Notable examples of new service additions or upgrades:

- Summit Drive – Installed New level 2 EV charger.
- Reading Library – Installed New level 3 EV charger.
- Town of Reading - Birch Meadow Drive new fieldhouse.
- Birch Meadow Dr – Installed New level 2 EV charger.
- Town of Reading - Hopkins/Gazebo - Booster Station
- 18-20 Woburn St – New Commercial/Residential Service
- 531 Main St – New Commercial/Residential Service

WILMINGTON

- Dorchester Street - Replaced 22 poles (TELCO) replace approximately 2500' of Primary with 1/0 and 2500' of secondary with 4/0. Replace approximately 25 services with 1/0
- Upton Drive/Ballardvale Street - Rebuilt pole line along easement behind 36 Upton Drive - Set 10 poles, installed gang operated switch (GOS) and installed 1500 circuit feet of 556 spacer cable.

Notable examples of new service additions or upgrades:

- Lopez Rd - New Commercial Service
- Wilmington Well - behind Shea Concrete – New Service
- Rachel's Village - bldg. 3,4,5,6,7 – New Service
- Research Drive – New Commercial Service
- Wrap Solutions – New Commercial Service
- Town of Wilmington - sewer lift station
- Davies Company – New Commercial Service
- 154 West St – New Commercial Service
- 175 Lowell St, - New Commercial Service
- 12 Industrial Way – Service Upgrade New Commercial Service

NORTH READING

- Mill Street - Replaced 4 poles and approximately 600 feet of open wire Secondary with 4/0 triplex.
- Linwood Ave - Area Conversion - Replaced 16 poles and reductored Overhead primary and upgraded all residential service conductors within conversion area. Replaced 4 overhead transformers.
- Chester St - Area Upgrade
- Main St - Area Upgrade
- LeClair Rd - Area Upgrade
- Lloyd Road - Area upgrade - Replaced 5 poles, replaced 450 feet of primary cable, and replaced 600 feet of secondary upgrade.
- Wyoming/Westchester/Wagon - Pole upgrades - RMLD replaced 7 poles and transfer construction.
- Takoma Cir – Upgrade underground cable and transformer

Notable examples of new service additions or upgrades:

- Martin's Landing – New Commercial Service
- Town of North Reading Chemical Feed Station - New Commercial Service

LYNNFIELD

- Tappan Court - Replaced approximately 350 feet of underground primary.
- Perkins Ln and Candlewood Rd - Replaced approximately 2000 feet of underground primary and neutral and replaced 1 Pad mount transformer.

CUSTOMER CALLS

The Department answered approximately 2,482 trouble calls that were of a routine or emergency nature. A summary of the reasons for these calls includes house service difficulties, trees interfering with power lines, utility poles hit by vehicles, animal contact with energized lines, and transformer and equipment problems for miscellaneous reasons. There were thirty-one calls related to utility equipment damage (poles, etc.) as a result of motor vehicle accidents.

POLE REPLACEMENTS

The Department completed approximately 184 pole installations and/or replacements. Many of these were in connection with the RMLD circuit upgrade projects and the Pole Inspection Program throughout the service area.

AGED TRANSFORMERS REPLACED

Throughout 2023, RMLD replaced 63 transformers: 15 pad-mounted and 48 overhead transformers.

DIGSAFE

The RMLD marked out underground facilities locations for 4,864 DIGSAFE calls.

METERS

Between the Meter and Line departments, service upgrades, new construction, and renovations resulted in a total of 196 new overhead and underground residential and commercial/industrial services delineated as follows:

Reading – 39 residential and 16 commercial/industrial

Lynnfield – 8 residential

North Reading – 70 residential and 9 commercial/industrial

Wilmington – 33 residential and 21 commercial/industrial

A total of 150 new residential services represents a 46% decrease from new residential services in CY22 (277). A total of 46 commercial/industrial services were installed representing a 10% increase over the previous year's total of 42.

Two hundred and seventy-one (271) meters were replaced due to routine residential and commercial meter replacements.

TREE TRIMMING AND PREVENTATIVE MAINTENANCE

In 2023 RMLD continued its preventative maintenance and tree trimming programs in Lynnfield, Wilmington, North Reading, and Reading. Mayer Tree worked in accordance with our Vegetation Management Plan and trimmed approximately 3,165 spans. Mayer also provided tree removal, when necessary, emergency response, and storm stand-by when requested. Additionally, they cleared multiple areas for system upgrades and performed trimming along our three phase, main line routes in Wilmington and North Reading.

COMPARATIVE SYSTEM PERFORMANCE STATISTICS*

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

CAIDI measures the average duration (in minutes) of an interruption experienced by customers. SAIFI measures the average number of instances that a customer will experience an interruption. CAIDI was 109.72 average minutes of outage time, and SAIFI was 0.34 instances.

SAIDI measures the average interruption duration (in minutes) for customers served by the utility. SAIDI was 36.95 minutes.

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

*Per the APPA eReliability System.

RENEWABLE ENERGY

RMLD is working with customers who wish to install renewable energy systems behind the retail meter. At the end of Calendar Year 2023, there were a total of 263 residential (2,064 kW-AC) and 2 commercial (209 kW-AC) sites generating solar energy within RMLD's service territory. In Calendar Year 2023, photovoltaic systems were added at 53 residential locations (6 in Lynnfield, 19 in Reading, 11 in North Reading, and 17 in Wilmington). There are 20 residential locations that have energy storage (battery) systems (6 in Lynnfield, 4 in Reading, 4 in North Reading, and 6 in Wilmington) with a total capacity of 410 kWh-DC.

RMLD continues to purchase the total output from several solar projects located on the RMLD distribution system at One Burlington Avenue in Wilmington, 326 Ballardvale Street in Wilmington (Solar Choice 1), and 40-50 Fordham Road in Wilmington (Solar Choice 2). These three systems add another 4,709 kW-AC of solar generating capacity.

RMLD installed two Level 2 chargers and one DC fast charger in 2023.

FACILITIES & FLEET

Building Upgrades:

In June 2020, the Facilities group selected PLM Electric Power Engineering as the firm to provide engineering services for Station 3 Generator Replacement. In June 2021, Phillips Electric, Inc. was selected as the contractor for the Station 3 Generator Replacement Project. The pad extension was completed in August 2021 by Edward Paige Corporation. In February 2023 the new generator was installed, and all tests were performed.

In June 2023, Cassidy Corp. was chosen to pave the pole yard access road at Station 3. In August 2023, Cassidy Corp. completed the pole yard paving project.

Office Upgrades:

In March 2023, Garofalo Design Associates, Inc., was chosen to provide Architectural and Engineering services for the reconfiguration of office space in the Office and Operations building. In November 2023, the specifications and drawings were revised and finalized. Project to go out for bid in early 2024.

Fire Safety:

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

Security:

In December 2021, Burns & McDonnell Engineering Co., Inc. was selected as the vendor to perform Physical Security Program and Security System's Design Support. The project commenced on February 1, 2022, with a preliminary Teams meeting for Project Pre-Planning and Initial Discussion. In March 2022, the Burns and McDonnell team performed physical and electronic security onsite data collection. In November 2022 Burns & McDonnell submitted to RMLD a one-hundred percent security drawing package, ready for RMLD to put the complete proposal together. This security upgrade will take place over a two-year period. In November 2023, the specifications and drawings were revised and finalized. Project to go out for bid in early 2024.

Fleet:

In November 2023, the Facilities group completed dielectric testing on fourteen heavy-duty vehicles and hot stick tools. The Facilities group also performed preventive maintenance on eighteen heavy-duty vehicles to provide proper operation of the mechanical and lift equipment for daily operation. The maintenance program ensures vehicles are safe and operational at all times, especially during significant weather events. In addition, preventative maintenance was performed on twenty light-duty vehicles during the year.

In January 2023, the Line Department received one new Material Handler with the trade in of one 2009 International 52' Bucket Truck (former vehicle 15).

In March 2023, the Engineering Department received one new Pickup Truck with the trade in of one 2011 Chevy Silverado (former vehicle 29), Grid Assets and Communications received one new SUV with the trade in of one 2008 Ford Escape Hybrid (former vehicle 19), and the Facilities Department received one new Pickup Truck.

In August 2023, the Grid Asset and Communications Department received one new Transit Van and the Line Department received one new mobile light tower.

Annual Report of: Town of Reading Municipal Light Department							7 Year ended December 31, 2023	
<p align="center">TOWN NOTES (Issued on Account of Gas or Electric Lighting)</p>								
When Authorized	Date of Issue	Amount of Original Issue	Period of Payments		Interest		Amount of Outstanding at End of Year	
			Amounts	When Payable	Rate	When Payable		
Mar-1896	Mar-1896	7,000						
Dec-1896	Dec-1896	1,500						
Mar-1898	Jul-1898	3,000						
Mar-1903	Dec-1903	1,400						
Mar-1909	Nov-1909	2,500						
Jan-1909	Jan-1910	1,800						
Jan-1910	Mar-1910	12,000						
Mar-1911	Jul-1911	2,200						
Mar-1913	Apr-1913	13,500						
Mar-1915	May-1915	12,000						
Mar-1915	Jul-1915	4,000						
Mar-1917	Sep-1917	6,500						
Nov-1919	Nov-1919	3,000						
Mar-1921	Jul-1921	7,000						
Dec-1922	Dec-1922	7,000						
May-1934	May-1934	20,000						
Mar-1935	Jun-1935	20,000						
Mar-1937	Apr-1937	60,000						
Jun-1939	Nov-1939	25,000						
Mar-1939	Jul-1939	15,000						
Jun-1939	Jul-1939	36,000						
Mar-1941	May-1941	21,000						
Mar-1941	May-1941	10,000						
Dec-1948	Mar-1949	80,000						
Nov-1985	Dec-1985	183,427						
Aug-1992	Aug-1992	680,000						
Apr-1994	Apr-1994	2,000,000						
Aug-1995	Aug-1995	1,090,000						
	TOTAL	4,324,827						0.00
The bonds and notes outstanding at the end of the year should agree with the balance sheet. When bonds and notes are repaid, report the first three columns only.								

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							
3							
4							
5	2. PRODUCTION PLANT						
6	A. Steam Production						
7	310 Land and Land Rights.....						
8	311 Structures and Improvements.....						
9	312 Boiler Plant Equipment.....						
10	313 Engines and Engine Driven Generators.....						
11	314 Turbogenerator Units.....						
12	315 Accessory Electric Equipment.....						
13	316 Miscellaneous Power Plant Equipment.....						
14							
15	Total Steam Production Plant.....						
16	B. Nuclear Production Plant						
17	320 Land and Land Rights.....						
18	321 Structures and Improvements.....						
19	322 Reactor Plant Equipment.....						
20	323 Turbogenerator Units.....						
21	324 Accessory Electric Equipment.....						
22	325 Miscellaneous Power Plant Equipment.....						
23	Total Nuclear Production Plant...						

Annual Report of: Town of Reading Municipal Light Department							
8A							
Year ended December 31, 2023							
TOTAL COST OF PLANT - ELECTRIC (Continued)							
Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
1	C. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges.....						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders, Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators.....	2,479,336					2,479,336
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant	2,479,336	-	-	-	-	2,479,336
19	Total Production Plant	2,479,336	-	-	-	-	2,479,336
20	3. Transmission Plant						
21	350 Land and Land Rights.....	25,015					25,015
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements.....	1,584,213	351,080				1,935,293
24	353 Station Equipment.....	5,844,395	29,017				5,873,412
25	354 Towers and Fixtures.....	86,169					86,169
26	355 Poles and Fixtures.....	300,248					300,248
27	356 Overhead Conductors and Devices...	229,661					229,661
28	357 Underground Conduits.....	44,256					44,256
29	358 Underground Conductors and Devices	61,954					61,954
30	359 Roads and Trails.....						
31	Total Transmission Plant	8,175,911	380,097	-	-	-	8,556,008

Annual Report of: Town of Reading Municipal Light Department

Year ended December 31, 2023

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Retirements (d)	Adjustments (e)	Transfers (f)	Balance End of Year (g)
	Balance carried over from page 8A	10,655,247	380,097	-	-	-	11,035,344
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights	4,852,887					4,852,887
3	361 Structures and Improvements	7,597,807	144,501				7,742,308
4	362 Station Equipment	11,691,704	48,134				11,739,838
5	363 Storage Battery Equipment	89,252					89,252
6	364 Poles, Towers and Fixtures	33,861,187	1,819,572	119,765			35,560,994
7	365 Overhead Conductors and Devices	29,459,128	2,402,278	68,016			31,793,390
8	366 Underground Conduits	9,478,265	45,467	1,343			9,522,389
9	367 Underground Conductors & Devices	15,288,651	1,215,375				16,504,025
10	368 Line Transformers	11,938,449	1,215,856	242,201			12,912,104
11	369 Services	6,374,020	283,566				6,657,586
12	370 Meters	6,026,628	350,776	28,005			6,349,399
13	371 Installation on Cust's Premises	-					-
14	372 Leased Prop. on Cust's Premises	-					-
15	373 Street Light and Signal Systems	3,851,065	15,080	1,805			3,864,340
16	Total Distribution Plant	140,509,042	7,540,605	461,135	-		147,588,512
17	5. GENERAL PLANT						
18	389 Land and Land Rights	397,372					397,372
19	390 Structures and Improvements	9,505,773	32,800				9,538,573
20	391 Office Furniture and Equipment	9,681,373	291,538				9,972,911
21	392 Transportation Equipment	5,205,818	238,847	208,068			5,236,597
22	393 Stores Equipment	135,854					135,854
23	394 Tools, Shop and Garage Equipment	627,091	23,690				650,781
24	395 Laboratory Equipment	669,369	8,580				677,949
25	396 Power Operated Equipment	-					-
26	397 Communication Equipment	3,134,342	86,087				3,220,429
27	398 Miscellaneous Equipment	612,456					612,456
28	399 Other Tangible Property	-					-
29	Total General Plant	29,969,448	681,542	208,068			30,442,922
30	Total Electric Plant in Service	181,133,737	8,602,244	669,203	-	-	189,066,778
31				TOTAL COST OF PLANT.....			
32				Less Cost of Land, Land Rights, and Rights of Way			5,275,274
33				Total Cost upon which depreciation is based			183,791,504

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

Annual Report of the Town of Reading Municipal Light Department				10
Year ended December 31, 2023				
COMPARATIVE BALANCE SHEET Assets and Other Debits				
Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	UTILITY PLANT			
2	101 Utility Plant -Electric.....	91,985,049	95,630,579	3,645,530
3	101 Utility Plant- Gas.....			
4	123 Investment in Associated Companies.....	976,518	1,063,861	87,343
5	Total Utility Plant.....	92,961,567	96,694,440	3,732,873
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds.....			
13	126 Depreciation Fund (P. 14).....	13,241,031	18,824,339	5,583,308
14	128 Other Special Funds.....	1,404,037	964,193	(439,844)
15	Total Funds.....	14,645,068	19,788,532	5,143,464
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14).....	36,985,156	40,041,702	3,056,546
18	132 Special Deposits.....	1,681,059	1,790,684	109,625
19	132 Working Funds.....	3,500	3,500	-
20	141 Notes and Receivables.....			
21	142 Customer Accounts Receivable.....	9,385,176	10,795,266	1,410,090
22	143 Other Accounts Receivable.....	101,913	128,504	26,591
23	146 Receivables from Municipality.....			
24	151 Materials and Supplies (P. 14).....	2,295,222	3,161,604	866,382
25				
26	165 Prepayments.....	2,345,121	3,975,232	1,630,111
27	174 Miscellaneous Current Assets	1,993,599	2,031,553	37,954
28	Total Current and Accrued Assets...	54,790,746	61,928,045	7,137,299
29	DEFERRED DEBITS			
30	181 Unamortized Debt Discount.....	-	-	-
31	182 Extraordinary Property Debits.....			
32	185 Other Deferred Debits.....	6,113,387	10,435,629	4,322,242
33	Total Deferred Debits.....	6,113,387	10,435,629	4,322,242
34				
35	Total Assets and Other Debits.....	168,510,768	188,846,646	20,335,878

COMPARATIVE BALANCE SHEET Liabilities and Other Credits				
Line No.	Title of Account (a)	Balance Beginning of Year (b)	Balance End Year	Increase or (Decrease)
1	APPROPRIATIONS			
2	201 Appropriations for Construction.....			
3	SURPLUS			
4	205 Sinking Fund Reserves.....	119,304	119,304	-
5	206 Loans Repayment.....	15,403,000	15,403,000	-
6	207 Appropriations for Construction Repayment..			
7	208 Unappropriated Earned Surplus (P. 12).....	107,240,726	122,002,088	14,761,362
8	Total Surplus.....	122,763,030	137,524,392	14,761,362
9	LONG TERM DEBT			
10	221 Bonds (P. 6).....	-	-	-
11	231 Notes Payable (P. 7).....			
12	Total Bonds and Notes.....	-	-	-
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable.....	9,763,661	10,850,158	1,086,497
15	234 Payables to Municipality OPEB due to	274,087	-	(274,087)
16	235 Customer Deposits.....	1,681,059	1,790,684	109,625
17	236 Taxes Accrued.....			
18	237 Interest Accrued.....	9,714,497	21,289,018	11,574,521
19	242 Miscellaneous Current and Accrued Liabilities	2,233,512	1,479,906	(753,606)
20	Total Current and Accrued Liabilities...	23,666,816	35,409,766	11,742,950
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt.....			
23	252 Customer Advance for Construction.....	2,911,725	3,559,246	647,521
24	253 Other Deferred Credits.....	9,802,918	2,986,963	(6,815,955)
25	Total Deferred Credits	12,714,643	6,546,209	(6,168,434)
26	RESERVES			
27	260 Reserves for Uncollectable Accounts.....	200,000	200,000	-
28	261 Property Insurance Reserve.....			
29	262 Injuries and Damages Reserves.....			
30	263 Pensions and Benefits.....			
31	265 Miscellaneous Operating Reserves.....			
32	Total Reserves.....	200,000	200,000	-
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction.....	9,166,279	9,166,279	-
35	Total Liabilities and Other Credits	168,510,768	188,846,646	20,335,878
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.				

Annual Report of the Town of Reading Municipal Light Department		Year ended December 31, 2023	
12			
STATEMENT OF INCOME FOR THE YEAR			
Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	OPERATING INCOME		
2	400 Operating Revenue (P. 37)	102,064,724	1,862,365
3	Operating Expenses:		
4	401 Operation Expense (P. 42).....	75,374,325	(2,654,862)
5	402 Maintenance Expense (P. 42).....	4,152,914	95,661
6	403 Depreciation Expense	5,226,535	169,551
7	407 Amortization of Property Losses.....		
9	408 Taxes (P. 49).....	1,826,606	105,962
10	Total Operating Expenses.....	86,580,379	(2,283,687)
11	Operating Income.....		
12	414 Other Utility Operating Income (P. 50).....		
13			
14	Total Operating Income.....	15,484,345	4,146,052
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)...	550,068	(202,755)
17	419 Interest Income.....	959,522	658,905
18	421 Miscellaneous Income.....		
19	Total Other Income.....	1,509,590	456,150
20	Total Income.....	16,993,934	4,602,202
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Change in Accounting Principle.....		
23	426 Other Income Deductions.....		
24	Total Income Deductions.....	-	-
25	Income before Interest Charges.....	16,993,934	4,602,202
26	INTEREST CHARGES		
27	427 Interest on Bonds and Notes.....		
28	428 Amortization of Debt Discount and Expense.....		
29	429 Amortization of Premium on Debt.....		
30	431 Other Interest Expense.....	48,625	46,898
31	432 Interest Charged to Construction-Credit.....		
32	Total Interest Charges	48,625	46,898
33	Net Income.....	16,945,309	4,555,304
EARNED SURPLUS			
Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of period).....		107,240,726
35	restated - Implementation of GASB 75		
36			
37	433 Balance Transferred from Income.....		16,945,309
38	434 Miscellaneous Credits to Surplus (P. 21).....		378,000
39	435 Miscellaneous Debits to Surplus (P. 21).....	67,540	
40	436 Appropriations of Surplus (P. 21).....	2,533,024	
41	437 Surplus Applied to Depreciation.....		38,617
42	208 Unappropriated Earned Surplus (at end of period).....	122,002,088	
43			
44	TOTALS	124,602,652	124,602,652

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Annual Report of the Town of Reading Municipal Light Department

Year ended December 31, 2023

CASH BALANCES AT END OF YEAR (Account 131)		
Line No.	Items (a)	Amount (b)
1	Operation Fund.....	40,041,702
2	Interest Fund.....	
3	Bond Fund.....	
4	Construction Fund.....	
5		
6		
7		
8		
9		
10		
11		
12	TOTAL	40,041,702

MATERIALS AND SUPPLIES (Account 151-159, 163) Summary per Balance Sheet			
Line No.	Account (a)	Amount End of Year	
		Electric (b)	Gas (c)
13	Fuel (Account 151) (See Schedule, Page 25).....	3,161,604	
14	Fuel Stock Expenses (Account 152).....		
15	Residuals (Account 153).....		
16	Plant Materials and Operating Supplies (Account 154).....		
17	Merchandise (Account 155).....		
18	Other Materials and Supplies (Account 156).....		
19	Nuclear Fuel Assemblies and Components - In Reactor (Acct 157)		
20	Nuclear Fuel Assemblies and Components - Stock Acct (Acct 158)		
21	Nuclear Byproduct Materials (Account 159).....		
22	Stores Expense (Account 163).....		
23	Total per Balance Sheet	3,161,604	

Depreciation Fund Account (Account 126)		
Line No.	(a) DEBITS	Amount (b)
24		
25	Balance of Account at Beginning of Year.....	13,241,031
26	Income During Year from Balance on Deposit.....	531,798
27	Amount Transferred from Income.....	13,653,754
28	TOTAL	27,426,583
29		
30	CREDITS	
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.).....	8,602,244
32	Amounts Expended for Renewals.....	
33	Adjustment.....	
34		
35		
36		
37		
38		
39	Balance on Hand at End of Year.....	
40	TOTAL	18,824,339

UTILITY PLANT -- ELECTRIC

1. Report below the items of utility plant in service according to prescribed accounts

2. Do not include as adjustments, corrections of additions and retirements for the current or the preceding year. Such items should be included in column (c).

3. Credit adjustments of plant accounts should be enclosed in parentheses to indicate the negative effect of such amounts.

4. Reclassifications or transfers within the utility plant accounts should be shown in in column (f).

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

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	c. Hydraulic Production Plant						
2	330 Land and Land Rights.....						
3	331 Structures and Improvements.....						
4	332 Reservoirs, Dams and Waterways						
5	333 Water Wheels, Turbines and Generators.....						
6	334 Accessory Electric Equipment.....						
7	335 Miscellaneous Power Plant Equipment.....						
8	336 Roads, Railroads and Bridges...						
9	Total Hydraulic Production Plant						
10	D. Other Production Plant						
11	340 Land and Land Rights.....						
12	341 Structures and Improvements.....						
13	342 Fuel Holders,Producers and Accessories.....						
14	343 Prime Movers.....						
15	344 Generators.....	2,085,783	-	74,380			2,011,403
16	345 Accessory Electric Equipment.....						
17	346 Miscellaneous Power Plant Equipment.....						
18	Total Other Production Plant	2,085,783	-	74,380	-	-	2,011,403
19	Total Production Plant	2,085,783	-	74,380	-	-	2,011,403
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights.....	25,015	-	-			25,015
22	351 Clearing Land and Rights of Way..	-	-	-			-
23	352 Structures and Improvements.....	496,017	351,080	28,379			818,719
24	353 Station Equipment.....	3,114,112	29,017	141,678			3,001,451
25	354 Towers and Fixtures.....	-	-	-			-
26	355 Poles and Fixtures.....	149,342	-	9,007			140,334
27	356 Overhead Conductors and Device..	130,081	-	6,798			123,283
28	357 Underground Conduits.....	1,325	-	51			1,274
29	358 Underground Conductors and Dev..	20,177	-	771			19,406
30	359 Roads and Trails.....	-	-	-			-
31	Total Transmission Plant	3,936,070	380,097	186,685	-	-	4,129,482

UTILITY PLANT - ELECTRIC (continued)

Line No.	Account (a)	Balance Beginning of Year (b)	Additions (c)	Depreciation (d)	Other Credits (e)	Adjustments Transfers (f)	Balance End of Year (g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights.....	4,852,887					4,852,887
3	361 Structures and Improvements.....	3,780,590	144,501	207,216			3,717,874
4	362 Station Equipment.....	4,636,349	48,134	226,617			4,457,867
5	363 Storage Battery Equipment.....	49,798		2,678			47,120
6	364 Poles and Fixtures.....	18,700,173	1,819,572	1,083,289			19,436,455
7	365 Overhead Conductors and Devices.....	21,498,108	2,402,278	942,459			22,957,928
8	366 Underground Conduits.....	2,791,226	45,467	303,229			2,533,464
9	367 Underground Conductors and Devices.....	8,950,872	1,215,375	489,116			9,677,131
10	368 Line Transformers.....	6,087,725	1,215,856	381,936		(38,538)	6,883,107
11	369 Services.....	1,149,744	283,566	203,918			1,229,392
12	370 Meters.....	3,461,897	350,776	192,803		(19,548)	3,600,322
13	371 Installation on Cust's Premises....	-					-
14	372 Leased Prop. on Cust's Premises.	-					-
15	373 Street Light and Signal Systems.....	2,460,617	15,080	123,204			2,352,493
16	Total Distribution Plant	78,419,986	7,540,605	4,156,465	-	(58,087)	81,746,040
17	5. GENERAL PLANT						
18	389 Land and Land Rights.....	397,372					397,372
19	390 Structures and Improvements.....	2,324,719	32,800	245,091			2,112,428
20	391 Office Furniture and Equipment.....	1,648,730	291,538	240,446			1,699,822
21	392 Transportation Equipment.....	865,864	238,847	239,359			865,351
22	393 Stores Equipment.....	22,394	-	1,679			20,715
23	394 Tools, Shop and Garage Equipment.	89,655	23,690	13,983			99,362
24	395 Laboratory Equipment.....	240,753	8,580	16,984			232,349
25	396 Power Operated Equipment.....						
26	397 Communication Equipment.....	931,963	86,087	59,534			958,516
27	398 Miscellaneous Equipment.....	367,107		41,147			325,961
28	399 Other Tangible Property.....						
29	Total General Plant	6,888,557	681,542	858,223	-	-	6,711,876
30	Total Electric Plant in Service	91,330,396	8,602,244	5,275,753	-	(58,087)	94,598,800
31	104 Utility Plant Leased to Others.....	-					-
32	105 Property Held for Future Use.....	-					-
33	107 Construction Work in Progress.....	-					-
34	Total Utility Electric Plant	91,330,396	8,602,244	5,275,753	-	(58,087)	94,598,800

Annual report of the Town of Reading Municipal Light Department						18
						Year ended December 31, 2023
<p align="center">PRODUCTION FUEL AND OIL STOCKS (Included in Account 151) (Except Nuclear Materials)</p> <p>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.</p>						
Line No.	Item (a)	Total Cost (b)	Kinds of Fuel and Oil			
			Quantity (c)	Cost (d)	Quantity (e)	Cost (f)
1	On Hand Beginning of year					
2	Received During Year					
3	TOTAL					
4	Used During Year (Note A)					
5						
6						
7						
8						
9						
10						
11	Sold or Transferred					
12	TOTAL DISPOSED OF					
13	BALANCE END OF YEAR					
Line No.	Item (g)	Kinds of Fuel and Oil -- Continued				
		Quantity (h)	Cost (i)	Quantity (j)	Cost (k)	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						

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Annual Report of the Town of Reading Municipal Light Department		Year ended December 31, 2023
MISCELLANEOUS NON-OPERATING INCOME (Account 421)		
Line No.	Item (a)	Amount (b)
1		
2		
3		
4		
5		
6	TOTAL	
OTHER INCOME DEDUCTIONS (Account 426)		
Line No.	Item (a)	Amount (b)
7		
8		
9		
10		
11		
12		
13		
14	TOTAL	
MISCELLANEOUS CREDITS TO SURPLUS (Account 434)		
Line No.	Item (a)	Amount (b)
15		
16	Various Refunds (incl MMWEC Flush)	378,000
17	NEXTERA refund	
18		
19		
20		
21		
22		
23	TOTAL	378,000
MISCELLANEOUS DEBITS TO SURPLUS (Account 435)		
Line No.	Item (a)	Amount (b)
24		
25		
26	Loss on Disposal of Electric Plant Utility	67,540
27		
28		
29		
30		
31		
32	TOTAL	67,540
APPROPRIATIONS OF SURPLUS (Account 436)		
Line No.	Item (a)	Amount (b)
33		
34	Transfer to Town of Reading	2,533,024
35		
36		
37		
38		
39		
40	TOTAL	2,533,024

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Annual Report of the Town of Reading Municipal Light Department

Year ended December 31, 2023

MUNICIPAL REVENUES (Accounts 482,444)						
(K.W.H. Sold under the Provision of Chapter 269, Acts of 1927)						
Line No.	Acct No.	Gas Schedule (a)	Cubic Feet (b)	Revenue Received (c)	Average Revenue per M.C.F. [\$0.0000] (d)	
1						
2						
3						
4		TOTALS				
Line No.		Electric Schedule (a)	K.W.H. (b)	Revenue Received (c)	Average Revenue per K.W.H. [cents] [\$0.0000] (d)	
5						
6						
7						
8						
9	444	Municipal: (Other than Street Lighting)	22,971,749	2,035,276	0.0886	
10						
11						
12						
13		Municipal Street Lighting	756,976	196,152	0.2591	
14						
15						
16						
17						
18						
19		TOTALS	23,728,725	2,231,428.76	0.0940	
PURCHASED POWER (Account 555)						
Line No.		Names of Utilities from which Electric Energy is Purchased (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Cost per K.W.H. cents [0.0000] (e)
20		MMWEC Projects		89,800,000	\$6,898,602	0.0768
21		ENE Consulting Fees			\$386,986	
22		Nextera		256,134,000	\$10,436,546	0.0407
23		HQ Phase 2 Companies				
24		ISO-NE		79,310,000	\$10,395,308	0.1311
25		Battery Storage			\$594,213	
26		Solar/Wind				
27		Middleton/Nat Grid			\$32,138	
28		Braintree Watson		27,371,000	\$1,995,151	0.0729
29		Hydro Projects			\$127,165	
		TOTALS		452,615,000	\$30,866,108	0.0682
SALES FOR RESALE (Account 447)						
Line No.		Names of Utilities to Which Electric Energy is Sold (a)	Where and at What Voltage Received (b)	K.W.H. (c)	Amount (d)	Revenues per K.W.H. [cents] [0.0000] (e)
32		NStar	Customer Premises	3,177,600	460,089	0.1448
33		Town of Wakefield	Customer Premises	1,130,819	98,439	0.0871
34		Town of Middleton	Customer Premises	9,896	1,494	0.1510
35						
36						
37						
38						
39						
40						
41		TOTALS		4,318,315	560,021	0.1297

ELECTRIC OPERATING REVENUES (Account 400)

1. Report below the amount of Operating Revenue for the year for each prescribed account and the amount of increase or decrease over the preceding year.
 2. If increases and decreases are not derived from previously reported figures explain any inconsistencies.
 3. Number of customers should be reported on the basis of number of meters, plus number of flat rate accounts, except that where separate meter readings are

added for billing purposes, one customer shall be counted for each group of meters so added. The average number of customers means the average of the 12 figures at the close of each month. If the customer count in the residential service classification includes customers counted more than once because of special services, such as water heating, etc., indicate in a footnote the number of such duplicate customers included in the classification.

4. Unmetered sales should be included below. The details of such sales should be given in a footnote.
 5. Classification of Commercial and Industrial Sales, Account 442, according to small (or Commercial) and Large (or Industrial) may be according to the basis of classification regularly used by the respondent if such basis of classification is not greater than 1000 Kw of demand. See Account 442 of the Uniform System of Accounts. Explain basis of classification.

Line No.	Account (a)	Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
		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.....	31,288,888	624,727	253,014,172	(6,409,057)	28,075	929
3	442 Commercial and Industrial Sales:	31,950,744	(100,999)	357,437,851	(10,099,937)	3,816	(554)
4	Small (or Commercial) see instr. 5.....						
5	Large (or Industrial) see instr. 5.....						
6	444 Municipal Sales (P.22)	2,231,429	(41,053)	23,728,725	(1,552,082)	302	6
7	445 Other Sales to Public Authorities.....						
8	446 Sales to Railroads and Railways.....						
9	448 Interdepartmental Sales.....						
10	449 Miscellaneous Electric Sales.....	124,937	(10,748)	218,764	(7,846)	241	1
	449.1 Provision for Rate Refunds/PPCT.....	32,568,572	831,193				
11	Total Sales to Ultimate Consumers.....	98,164,570	1,303,120	634,399,512	(18,068,922)	32,434	382
12	447 Sales for Resale.....	560,021	(26,468)	4,318,315	(115,230)	21	1
13	Total Sales of Electricity*.....	98,724,591	1,276,652	638,717,827	(18,184,152)	32,455	383
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts.....	913,041	101,650				
16	451 Miscellaneous Service Revenues (ECC).....	2,427,092	484,063				
17	453 Sales of Water and Water Power.....						
18	454 Rent from Electric Property.....						
19	455 Interdepartmental Rents.....						
20	456 Other Electric Revenues						
21							
22							
23							
24							
25	Total Other Operating Revenues.....	3,340,133	585,713				
26	Total Electric Operating Revenues.	102,064,724	1,862,365				

*Includes revenues from application of fuel clauses

29,750,066

Total KWH to which applied

638,717,827

SALES OF ELECTRICITY TO ULTIMATE CONSUMERS

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

Line No.	Account No.	Schedule (a)	K.W.H. (b)	Revenue (c)	Average Revenue per K.W.H. (cents) *(0.0000) (d)	Number of Customers (per Bills Rendered)	
						Jul-23 (e)	Dec-23 (f)
1	Residential - A		253,014,172	31,288,888	0.1237	28,102	28,139
2	Industrial - C		357,437,851	31,950,744	0.0894	3,817	3,809
3	Municipal - C		22,971,749	2,035,276	0.0886	289	288
4	Street Lighting		756,976	196,152	0.2591	15	15
5	Private Street Lighting		218,764	124,937	0.5711	241	241
6							
7	Provision for Purchased Power Adjustments			32,568,572			
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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42							
43							
44							
45							
46							
47							
48	TOTAL SALES TO ULTIMATE						
49	CONSUMERS (Page 37 Line 11)		634,399,512	98,164,570	0.1547	32,464	32,492

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Annual Report of the Town of Reading Municipal Light Department

Year ended December 31, 2023

ELECTRIC OPERATION AND MAINTENANCE EXPENSES

1. Enter in the space provided the operation and maintenance expenses for the year.

2. If the increases and decreases are not divided from previously reported figures explain in footnote.

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	POWER PRODUCTION EXPENSE		
2	STEAM POWER GENERATION		
3	Operation:		
4	500 Operation Supervision and Engineering.....		
5	501 Fuel.....		
6	502 Steam Expense.....		
7	503 Steam from Other Sources.....		
8	504 Steam Transferred -- Cr.....		
9	505 Electric Expenses.....		
10	506 Miscellaneous Steam Power Expenses.....		
11	507 Rents.....		
12	Total Operation	-	-
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	-	-
20	Total Power Production Expenses -- Steam Power	-	-
21	NUCLEAR POWER GENERATION		
22	Operation:		
23	517 Operation Supervision and Engineering.....		
24	518 Fuel.....		
25	519 Coolants and Water.....		
26	520 Steam Expense.....		
27	521 Steam from Other Sources.....		
28	522 Steam Transferred -- Cr.....		
29	523 Electric Expenses.....		
30	524 Miscellaneous Nuclear Power Expenses.....		
31	525 Rents.....		
32	Total Operation	-	-
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	-	-
40	Total Power Production Expenses -- Nuclear Power	-	-
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	-	-

(continued on page 40)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED

Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	HYDRAULIC POWER GENERATION - CONTINUED		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering.....		
4	542 Maintenance of Structures.....		
5	543 Maintenance of Reservoirs, Dams and Waterways.....		
6	544 Maintenance of Electric Plant.....		
7	545 Maintenance of Miscellaneous Hydraulic Plant.....		
8	Total Maintenance	-	-
9	Total Power Production Expenses - Hydraulic Power	-	-
10	OTHER POWER GENERATION		
11	Operation:		
12	546 Operation Supervision and Engineering.....		
13	547 Fuel.....		
14	548 Operation Expenses.....		
15	549 Miscellaneous Other Power Generation Expenses.....		
16	550 Rents.....		
17	Total Operation	-	-
18	Maintenance:		
19	551 Maintenance Supervision and Engineering.....		
20	552 Maintenance of Structure.....		
21	553 Maintenance of Generating and Electric Plant.....		
22	554 Maintenance of Miscellaneous Other Power Generation Plant.....		
23	Total Maintenance	-	-
24	Total Power Production Expenses - Other Power	-	-
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased Power.....	41,701,779	(6,753,786)
27	556 System Control and Load Dispatching.....		
28	557 Other Expenses.....	-	-
29	Total Other Power Supply Expenses	41,701,779	(6,753,786)
30	Total Power Production Expenses	41,701,779	(6,753,786)
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering.....	50,486	50,486
34	561 Load Dispatching.....		(142,916)
35	562 Station Expenses.....		(68,681)
36	563 Overhead Line Expenses.....		
37	564 Underground Line Expenses.....		
38	565 Transmission of Electricity by Others.....	14,426,582	(1,724,472)
39	566 Miscellaneous Transmission Expenses.....	63,217	63,217
40	567 Rents.....		
41	Total Operation	14,540,285	(1,822,367)
42	Maintenance:		
43	568 Maintenance Supervision and Engineering.....		
44	569 Maintenance of Structures.....		
45	570 Maintenance of Station Equipment.....	39,227	39,227
46	571 Maintenance of Overhead Lines.....		
47	572 Maintenance of Underground Lines.....		
48	573 Maintenance of Miscellaneous Transmission Plant.....		
49	Total Maintenance	39,227	39,227
50	Total Transmission Expenses	14,579,512	(1,783,139)

Annual Report of the Town of Reading Municipal Light Department			41
			Year ended December 31, 2023
ELECTRIC OPERATION AND MAINTENANCE EXPENSES - CONTINUED			
Line No.	Account (a)	Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	DISTRIBUTION EXPENSES		
2	Operation:		
3	580 Operation Supervision and Engineering.....	1,489,688	312,857
4	581 Load Dispatching.....	676,991	270,108
5	582 Station Expenses.....	1,336,758	797,962
6	583 Overhead Line Expenses.....	1,009,937	221,363
7	584 Underground Line Expenses.....		
8	585 Street Lighting and Signal System Expenses.....		
9	586 Meter Expenses.....	190,705	(29,770)
10	587 Customer Installations Expenses.....		
11	588 Miscellaneous Distribution Expenses.....	569,315	122,239
12	589 Rents.....		
13	Total Operation	5,273,395	1,694,760
14	Maintenance:		
15	590 Maintenance Supervision and Engineering.....		-
16	591 Maintenance of Structures.....		
17	592 Maintenance of Station Equipment.....		
18	593 Maintenance of Overhead Lines.....	2,238,767	851,661
19	594 Maintenance of Underground Lines.....	84,149	(174,874)
20	595 Maintenance of Line Transformers.....	101,668	(130,070)
21	596 Maintenance of Street Lighting and Signal Systems.....		
22	597 Maintenance of Meters.....		
23	598 Maintenance of Miscellaneous Distribution Plant.....	608,808	915
24	Total Maintenance	3,033,392	547,632
25	Total Distribution Expenses	8,306,787	2,242,392
26	CUSTOMER ACCOUNTS EXPENSES		
27	Operation:		
28	901 Supervision.....		
29	902 Meter Reading Expenses.....		
30	903 Customer Records and Collection Expenses.....	1,385,498	207,968
31	904 Uncollectable Accounts.....	52,476	42,243
32	905 Miscellaneous Customer Accounts Expenses.....		
33	Total Customer Accounts Expenses	1,437,974	250,211
34	SALES EXPENSES		
35	Operation:		
36	911 Supervision.....		
37	912 Demonstrating and Selling Expenses.....		
38	913 Advertising Expenses.....		
39	916 Miscellaneous Sales Expense.....	3,238,388	769,408
40	Total Sales Expenses	3,238,388	769,408
41	ADMINISTRATIVE AND GENERAL EXPENSES		
42	Operation:		
43	920 Administrative and General Expenses.....	2,388,426	323,063
44	921 Office Supplies and Expenses.....	18,472	1,642
45	922 Administrative Expenses Transferred - Cr.....		
46	923 Outside Services Employed.....	878,444	(103,598)
47	924 Property Insurance.....	484,865	70,344
48	925 Injuries and Damages.....	81,811	60,654
49	926 Employees Pensions and Benefits.....	4,630,558	2,899,989
50	928 Regulatory Commission Expenses.....		
51	929 Duplicate Charges - Cr.....		
52	930 Miscellaneous General Expenses.....	488,535	(44,208)
53	931 Rents.....	211,393	(974)
54	Total Operation	9,182,504	3,206,912

ELECTRIC OPERATION AND MAINTENANCE EXPENSES -- Continued

Line No.	Account (a)		Amount for Year (b)	Increase or (Decrease) from Preceding Year (c)
1	ADMINISTRATIVE EXPENSES			
2	Maintenance:			
3	932 Maintenance of General Plant.....		1,627,926	56,434
4	Total Maintenance		1,627,926	56,434
5	Total Administrative and General Expenses		10,810,430	3,263,346

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification (a)	OPERATION (b)	MAINTENANCE (c)	TOTAL (d)
6	Power Production Expenses			
7	Electric Generation			
8	Steam Power.....			
9	Nuclear Power.....			
10	Hydraulic Power.....			
11	Other Power.....			-
12	Other Power Supply Expenses.....	41,701,779		41,701,779
13	Total Power Production Expenses	41,701,779		41,701,779
14	Transmission Expenses.....	14,540,285	39,227	14,579,512
15	Distribution Expenses.....	5,273,395	2,485,760	7,759,155
16	Customer Accounts Expenses.....	1,437,974		1,437,974
17	Sales Expenses.....	3,238,388		3,238,388
18	Administrative and General Expenses.....	9,182,504	1,627,926	10,810,430
19				
20	Total Electric Operation and Maintenance Expenses	75,374,325	4,152,914	79,527,238

- 21 Ratio of Operating Expenses to Operating Revenues (carry out decimal two places, (e.g. 0.00%)
 Compute by dividing Revenues (acct 400) into the sum of Operation and Maintenance Expenses (Page 42,
 Line 20 (d), Depreciation (Acct 403) and Amortization (Acct 407)..... 84.41%
- 22 Total salaries and wages of electric department for year, including amounts charged to oper-
 ating expenses, construction and other accounts..... \$ 12,430,861
- 23 Total number of employees of electric department at end of year including administrative,
 operating, maintenance and other employees (including part time employees)..... 85

TAXES CHARGED DURING YEAR

1. This schedule is intended to give the account distribution of total taxes charged to operations and other final accounts during the year.

2. Do not include gasoline and other sales taxes which have been charged to accounts to which the material on which the tax was levied was charged. If the actual or estimated amounts of such taxes are known, they should be shown as a footnote and designated whether estimated or actual amounts.

3. The aggregate of each kind of tax should be listed under the appropriate heading of "Federal," "State," and "Local" in such manner that the total tax for each State and for all subdivisions can readily be ascertained.

4. The accounts to which the taxes charged were distributed should be shown in columns (c) to (h). Show both the utility department and number of account charged. For taxes charged to utility plant show the number of appropriate balance sheet plant account or subaccount.

plant account or subaccount.

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

6. Do not include in this schedule entries with respect to deferred income taxes, or taxes collected through payroll deductions or otherwise pending transmittal of such taxes to the taxing authority.

Line No.	Kind of Tax (a)	Total Taxes Charged During Year (omit cents) (b)	Distribution of Taxes Charged (omit cents) (Show utility department where applicable and account charged)						
			Electric (Acct. 408, 409) (c)	Gas (Acct. 408,409) (d)	(e)	(f)	(g)	(h)	(i)
1	Voluntary Payment to Towns	1,826,606	1,826,606						
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	TOTAL	1,826,606	1,826,606						

OTHER UTILITY OPERATING INCOME (Account 414)

Report below the particulars called for in each column.

Line No.	Property (a)	Amount of Investment (b)	Amount of Revenue (c)	Amount of Operating Expenses (d)	Gain or (Loss) from Operation (e)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
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44					
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47					
48					
49					
50					
51	TOTALS				

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

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

Line No.	Item (a)	Electric Department (c)	Gas Department (d)	Other Utility Department (d)	Total (e)
1	Revenues:				
2	Merchandising Sales, less Discounts,				
3	Allowances and Returns.....	495,061			495,061
4	Contract Work - Street Lights.....				
5	Commissions.....				
6	Other (List according to major classes)				
7					
8					
9					
10	Total Revenues.....	495,061			495,061
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to major				
15	classes of cost).....	55,007			55,007
16					
17	Labor				
18	Materials				
19					
20					
21					
22					
23					
24					
25					
26	Sales Expenses.....				
27	Customer Accounts Expenses.....				
28	Administrative and General Expenses.....				
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50	TOTAL COSTS AND EXPENSES	55,007			55,007
51	Net Profit (or Loss)	550,068			550,068

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) Nonassociated Utilities, (3) Municipalities, (4) R.E.A. Cooperatives, and (5) other public authorities. For each sale designate statistical classification in column (b), thus: firm power, FP; dump or surplus power, DP; other G,

and place an "x" in column (c) if sale involves export across a state line.

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

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

Line No.	Sales to	Statistical Classification	Export Across State Lines	Point of Delivery	Substation	Kw or Kva of Demand (Specify which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21				None				
22								
23								
24								
25								
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27								
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29								
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31								
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33								
34								
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36								
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38								
39								
40								
41								
42								

SALES FOR RESALE (Account 447) - Continued

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

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

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

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

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Revenue (Omit Cents)				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
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								38
								39
								40
								41
TOTALS								42

PURCHASED POWER (Account 555)

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

2. Provide subheadings and classify sales as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A. Cooperatives, and (7) Other Public

Authorities. For each purchase designate 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	Substation	Kw or Kva Demand (Specify Which)		
						Contract Demand	Average Monthly Maximum Demand	Annual Maximum Demand
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	PEAKING PROJECT	O		Town Line		24,981 kW	12,290 kW	28,098 kW
2	INTERMEDIATE PROJECT	O		Town Line		42,925 kW	9,640 kW	45,506 kW
3	NUC. MIX ONE - SEABROOK	O	X	Town Line		293 kW		
4	NUC. MIX ONE - MILLSTONE 3	O	X	Town Line		2,893 kW		
5	NUCLEAR PROJECT THREE	O	X	Town Line				
6	NUCLEAR PROJECT FOUR	O	X	Town Line		6,802 kW		
7	NUCLEAR PROJECT FIVE	O	X	Town Line		824 kW		
8	NYPA	O	X	Town Line		4,019 kW	4,988 kW	5,396 kW
9	BRAINTREE WATSON UNIT	FP		Town Line			9,657 kW	11,496 kW
10	ENE CONSULTING FEES			Town Line				
11	NEXTERA	O	X	Town Line			33,295 kW	51,520 kW
12	MINUTEMAN ENERGY STORAGE	O		Town Line				
13	HQ PH.1 TRANS. SUPP. VEC	O	X	Town Line				
14	HQ PH.1 TRANS. SUPP. NEE	O	X	Town Line				
15	HQ PH. 2	O	X	Town Line				
16	ISO -NE/ LNS			Town Line				
17	ISO -NE OTHER			Town Line				
18	ALTUS	O		Town Line		1,008 kW	920 kW	1,038 kW
19	KEARSARGE	O		Town Line		1,630 kW	1,274 kW	1,533 kW
20	HYDRO PROJECTS	O	X	Town Line			9,493 kW	11,270 kW
21	ROXWIND	O	X	Town Line			2,340 kW	7,906 kW
22	SADDLEBACK WIND	O	X	Town Line			4,762 kW	5,012 kW
23	JERICHO WIND	O	X	Town Line			2,339 kW	3,506 kW
24	GSRP/MARINA SOLAR	O		Town Line		2,000 kW	1,802 kW	2,086 kW
25	COOP RESALE (NGRID/MELD)							
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
	TOTALS					0		

PURCHASED POWER (Account 555) - Continued

(except interchange power)

4. If receipt of power is at a substation indicate ownership in column (e), thus: respondent owned or leased, RS; seller owned or leased, SS.

5. If a fixed number of kilowatts of maximum demand is specified in the power contract as a basis of billing, this number should be shown in column (f). The number of kilowatts of maximum demand to be shown in column (g) and (h) should be actual based on monthly readings and

should be furnished whether or not used in the determination of demand charges. Show in column (l) type of demand reading (instantaneous, 15, 30, or 60 minutes integrated).

6. The number of kilowatt hours purchased should be the quantities shown by the power bills.

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

Type of Demand Reading (i)	Voltage at which Delivered (j)	Kilowatt-hours (k)	Cost of Energy (Omit Cents)				Cents per KWH (cents) [0.0000] (p)	Line No.
			Charges (l)	Energy Charges (m)	Other Charges (n)	Total (o)		
60 Minute	115,000	1,066,000	789,255	284,893	53849.22	1,127,997	1.0582	1
60 Minute	115,000	2,416,000	2,020,761	356,939	86103.74	2,463,803	1.0198	2
60 Minute	115,000	2,134,000	60,616	10,380	196.24	71,192	0.0334	3
60 Minute	115,000	17,366,731	689,422	117,831	34934.15	842,187	0.0485	4
60 Minute	115,000	12,378,000	488,244	83,980	24897.97	597,122	0.0482	5
60 Minute	115,000	48,462,000	1,354,926	235,707	4456.02	1,595,089	0.0329	6
60 Minute	115,000	5,978,000	171,588	29,073	549.62	201,211	0.0337	7
60 Minute	115,000	25,450,000	64,676	125,486	432613.05	622,774	0.0245	8
60 Minute	115,000	27,371,000	1,424,966	570,185		1,995,151	0.0729	9
60 Minute	115,000		386,986			386,986	0.0000	10
60 Minute	115,000	256,134,000		10,436,546		10,436,546	0.0407	11
60 Minute	115,000	17,000	530,445	63,767		594,213	34.9537	12
60 Minute	115,000						0.0000	13
60 Minute	115,000						0.0000	14
60 Minute	115,000						0.0000	15
60 Minute	115,000	79,309,828					0.0000	16
60 Minute	115,000						0.0000	17
60 Minute	115,000	1,484,000		116,949		116,949	0.0788	18
60 Minute	115,000	2,059,000	9,105	145,344		154,449	0.0750	19
60 Minute	115,000	173,654,000	(96,148)	11,414,368	(32,724)	11,285,496	0.0650	20
60 Minute	115,000	4,207,000		452,367	1467.57	453,835	0.1079	21
60 Minute	115,000	12,505,000	(46,967)	1,177,761		1,130,794	0.0904	22
60 Minute	115,000	3,460,000		380,626		380,626	0.1100	23
60 Minute	115,000	2,498,000		205,620		205,620	0.0823	24
60 Minute	115,000	173,000	755	31,383		32,138	0.1858	25
								26
								27
								28
								29
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								38
								39
								40
								41
TOTALS		678,122,559	7,848,628	26,239,207	606,343	34,694,179	0.0512	42

INTERCHANGE POWER (Included in Account 555)

1. Report below the Kilowatt-hours received and delivered during the year and the net charge or credit under interchange power agreements.

2. Provide subheadings and classify interchanges as to (1) Associated Utilities, (2) Nonassociated Utilities, (3) Associated Nonutilities, (4) Other Nonutilities, (5) Municipalities, (6) R.E.A., Cooperatives, and (7) Other Public Authorities. For each interchange across a state line place an "X" in column (b).

3. Particulars of settlements for interchange power

shall be furnished in Part B, Details of Settlement for Interchange Power. If settlement for any transaction also includes credit or debit amounts other than for increment generation expenses, show such other component amounts separately, in addition to debit or credit for increment generation expenses, and give a brief explanation of the factors and principles under which such other component amounts were determined. If such settlement represents the net of debits and credits under an interconnection, power pooling,

coordination, or other such arrangement, submit a copy of the annual summary of transactions and billings among the parties to the agreement. If the amount of settlement reported in this schedule for any transaction does not represent all of the charges and credits covered by the agreement, furnish in a footnote a description of the other debits and credits and state the amounts and accounts in which such other amounts are included for the year.

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

Line No.	Name of Company	Interchange Across State Lines	Point of Interchange	Voltage at Which Interchanged	Kilowatt-hours			Amount of Settlement
					Received	Delivered	Net Difference	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1 2 3 4 5 6 7 8 9 10 11	ISO-NE	NO	NEPEX	115,000	79,309,828		79,309,828	
12				TOTALS	79,309,828	0	79,309,828	0

B. Details of Settlement for Interchange Power

Line No.	Name of Company (i)	Explanation (j)						Amount (k)
13 14 15 16 17	NEPEX	Kwh Received	Adjusted Net Interchange					0
18 19 20		Kwh Delivered	Adjusted Net Interchange					79,309,828
21							TOTALS	79,309,828

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		
2	Generation (excluding station use):	
3	Steam.....	
4	Nuclear.....	
5	Hydro.....	
6	Other.....	
7	Total generation.....	
8	Purchases.....	598,812,731
9	{ In (gross)	0
10	Interchanges..... { Out (gross)	79,309,828
11	{ Net (Kwh).....	79,309,828
12	{ Received.....	
13	Transmission for/by others (Wheeling. { Delivered.....	
14	{ Net (kwh).....	
15	TOTAL	678,122,559
DISPOSITION OF ENERGY		
17	Sales to ultimate consumers (including interdepartmental sales).....	634,399,512
18	Sales for resale.....	4,318,315
19	Energy furnished without charge	
20	Energy used by the company (excluding station use).....	
21	Electric department only.....	556,203
22	Energy losses:	
23	Transmission and conversion losses.....	12,271,225
24	Distribution losses.....	
25	Unaccounted for losses.....	0
26	Total energy losses.....	12,271,225
27	Energy losses as percent of total on line 15..... 1.81%	
28	Losses within RMLD system..... 0.00% TOTAL	651,545,255

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.

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	95,006	Monday	23	1900	60 Minute Integrated	54,472,653
30	February	100,968	Friday	3	1800	60 Minute Integrated	49,656,470
31	March	87,552	Tuesday	14	1800	60 Minute Integrated	52,253,669
32	April	91,251	Friday	14	1300	60 Minute Integrated	46,842,606
33	May	93,862	Sunday	28	1800	60 Minute Integrated	49,949,817
34	June	130,614	Friday	2	1600	60 Minute Integrated	55,347,174
35	July	147,308	Thursday	6	1700	60 Minute Integrated	70,333,506
36	August	124,211	Tuesday	8	1700	60 Minute Integrated	62,333,624
37	September	154,023	Thursday	7	1600	60 Minute Integrated	56,206,361
38	October	98,974	Wednesday	4	1600	60 Minute Integrated	49,352,438
39	November	93,359	Wednesday	29	1800	60 Minute Integrated	50,654,226
40	December	94,758	Thursday	7	1800	60 Minute Integrated	54,142,710
41						TOTAL	651,545,255

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)			
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.
						1
						2
						3
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						40
						41
						42

STEAM GENERATING STATIONS

1. Report the information called for concerning generating stations and equipment at end of year.
2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of

lessor, date and term of lease, and annual rent. For any generating station, other than a leased station or portion thereof for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output,

Line No.	Name of Station (a)	Location of Station (b)	Number and Year Installed (c)	Boilers			
				Kind of Fuel and Method of Firing (d)	Rated Pressure in lbs. (e)	Rated Steam Temperature* (f)	Rated Max. Continuous M lbs.Steam per Hour (g)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
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37							

Note Reference:

* Indicates reheat boilers thusly, 1050/1000.

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 (l)	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*+ (r)	Line No.
				At Minimum Hydrogen Pressure (l)	At Maximum Hydrogen Pressure (m)	Min. (n)	Max. (o)				
											1
											2
											3
											4
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											36
TOTALS											37

Note references:

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

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

** Designate air cooled generators.

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

*+ 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, Nonutility Property.
 3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such

property is leased from another company give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as

Line No.	Name of Station (a)	Location (b)	Name of Stream (c)	Water Wheels			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head with Pond Full (g)
1							
2							
3							
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* Horizontal or vertical. Also indicate type of runner -- Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), Impulse (I).

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 Kilowatts (name plate ratings) (q)	Line No.
Design Head (h)	R.P.M. (l)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Fre- quency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Station (p)		
										1
										2
										3
										4
										5
										6
										7
										8
										9
										10
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TOTALS										39

COMBUSTION ENGINE AND OTHER GENERATING STATIONS

(except nuclear stations)

1. Report the information called for concerning generating stations and equipment at end of year. Show associated prime movers and generators on the same line.

2. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.

3. Designate any generating station or portion thereof for which the respondent is not the sole owner. If such

property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating station, other than a leased station, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent owner-

Line No.	Name of Station (a)	Location of Station (b)	Prime Movers				
			Diesel or Other Type Engine (c)	Name of Maker (d)	Year Installed (e)	2 or 4 Cycle (f)	Belted or Direct Connected (g)
1							
2							
3							
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35							
36							
37							
38							
39							

(except nuclear stations)

Specify whether lessee is an associated company.

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

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

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]

TRANSMISSION LINE STATISTICS

Reposrt 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	Woburn/	Causeway Rd.	115 kV	Single	.4458 Miles	No	1.00	795 MCM
2	Reading	Reading		Wood Poles	2,354 feet			ALL ALUM
3	211-503							
4								
5	Woburn/	Causeway Rd.	115 kV	Single	.4100 Miles	No	1.00	795 MCM
6	Reading	Reading		Wood Poles	2,165 feet			ALL ALUM
7	211-504							
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46								
47	TOTALS							

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

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, reflectors, 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)	Number of Spare Transformers (h)	Conversion Apparatus and Special Equipment		
			Primary (c)	Secondary (d)	Tertiary (e)				Type of Equipment (i)	Number Of Units (j)	Total Capacity (k)
1	Gaw Station - Causeway Rd., Reading	unattended dist.	115 kv	19,900 / 34,500	----	80,000	2	0			
2			115 kv	7,970	----	180,000	3	0			
3				13,800							
4					----						
5											
6											
7											
8											
9											
10	Wildwood St., Wilmington	unattended dist.	35,000	7,970 / 13,800	----	80,000	2	0	-----	----	----
11	Chestnut St., North Reading	unattended dist.	115 kv	7,970 / 13,800	----	120,000	2	0	-----	----	----
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All transformer ratings are at the top forced air rating.

OVERHEAD DISTRIBUTION LINES OPERATED				
Line No.		Length (Pole Miles)		
		Wood Poles	Steel Towers	TOTAL
1	Miles - Beginning of Year	387.12	0.00	387.12
2	Added During Year	0.83		0.83
3	Retired During Year	0.00		0.00
4	Miles - End of Year	387.95	0.00	387.95
5				
6				
7				
8	Distribution System Characteristics - A.C. or D.C.,or Phase and Operating Voltages for Light and Power.			
9				
10				
11	3 Phase 4 Wire 4160 GRDY / 2400			
12	4 Phase 4 Wire 13800 GRDY / 7970			
13				
14				
15				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS					
Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
16	Number at beginning of year.....	30,673	31,206	4,436	315,336
17	Additions during year:				
18	Purchased.....		412	155	15,280
19	Installed.....	196			
20	Associated with Utility Plant Acquired.....				
21	Total additions.....	196	412	155	15,280
22	Reduction During Year:				
23	Retirements.....	52	193	106	6,759
24	Associated with Utility Plant Sold.....				
25	Total Reductions.....	52	193	106	6,759
26	Number at End of Year.....	30,817	31,425	4,485	323,857
27	In Stock.....		608	0	0
28	Locked Meters on Customers' Premises.....				
29	Inactive Transformers on System.....				
30	In Customers' Use.....		30,817		
31	In Company's Use.....				
32	Number at End of Year.....		31,425	4,485	323,857

--	--	--	--	--	--

CONDUIT, UNDERGROUND CABLE AND SUBMARINE CABLE -- (Distribution System)						
Report below the information called for concerning conduit, underground cable, and submarine cable at end of year.						
Line No.	Designation of Underground Distribution System (a)	Miles of Conduit Bank (All sizes and Types) (b)	Underground Cable		Submarine Cable	
			Miles* (c)	Operating voltage (d)	Feet* (e)	Operating Voltage (f)
1						
2		156.61 miles	48.52 miles	13.8 kv		
3			.3 miles	34.5 kv		
4			103.8 miles	7.97 kv		
5			0.82 miles	2.4 kv		
6			1.4 miles	240 kv		
7			1.77 miles	4.16 kv		
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31						
32						
33						
34	TOTALS					

*Indicate number of conductors per cable.

1. Attach copies of all Filed Rates for General Consumers.
2. Show below the changes in rate schedules during year and the estimated increase or decrease in annual revenue predicted on the previous year's operations.

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease
2023-03-01	301	Residential Schedule A Rate (Distribution, EEC)	\$3,289,925	
2023-03-01	302	Residential Time of Use Schedule A2 Rate (Distribution, EEC)	\$57,967	
2023-03-01	303	Commercial Schedule C Rate (Distribution, EEC)	\$2,049,599	
2023-03-01	304	Industrial Time of Use Schedule 1 Rate (Demand, EEC)	\$1,835,808	
2023-03-01	305	School Schedule SCH Rate (Distribution)	\$66,799	

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

..... Mayor.


..... Manager of Electric Light
Gregory Phipps, General Manager

David Talbot
David Talbot (Aug 7, 2024 10:11 EDT)..... Selectmen
David Talbot, Chair

Philip B Pacino
Philip B Pacino (Aug 7, 2024 14:57 EDT)..... or
Philip B. Pacino, Vice Chair

Robert Coulter
Robert Coulter (Aug 9, 2024 17:57 EDT)..... Members
Robert Coulter

Raymond Porter
..... of the Municipal
Ray Porter


Pamela Daskalakis (Aug 10, 2024 09:17 EDT)..... Light Board
Pam Daskalakis

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

Middlesex ss 9/1/2024

Then personally appeared.....
.....
.....
.....
.....
.....

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

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












DPU2023 - Final (002)

Final Audit Report

2024-08-10

Created:	2024-08-06
By:	Erica Morse (emorse@rml.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAsjzHeXux9i2S5NrZQMEE41aITYIN1KMX

"DPU2023 - Final (002)" History

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Signer fourcoulters@gmail.com entered name at signing as Robert Coulter

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