



The Commonwealth of Massachusetts

RETURN
OF THE
MUNICIPAL LIGHT DEPARTMENT OF
THE TOWN OF SOUTH HADLEY
TO THE
DEPARTMENT OF PUBLIC UTILITIES
OF MASSACHUSETTS

For the Year Ended December 31,

2018

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

Sean P. Fitzgerald

Official Title: **Manager**

Office Address:

**85 Main Street
South Hadley, MA 01075**

TABLE OF CONTENTS

	Pages
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
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
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
Income from Merchandising, Jobbing and Contract Work	51
Sales for Resale	52-53
Purchased Power	54-55
Interchange Power	56
Electric Energy Account	57
Monthly Peaks and Output	57
Substations	68
Overhead Distribution Lines Operated	69
Electric Distribution Services, Meters and Line Transformers	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:

	Pages		Pages
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, 18-20, 23-36, 43-50, 58-67, 72-78, 80

GENERAL INFORMATION

- | | |
|--|--|
| 1. Name of town (or city) making this report: | Town of South Hadley, Massachusetts |
| 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. | Amherst Power Company |
| Date of votes to acquire a plant in accordance with the provisions of chapter 164 of the General Laws: | April 14, 1914 |
| Record of votes: | First vote - Yes 141, No 35 Second vote - Yes 169, No 44 |
| Date when town (or city) began to sell electricity: | 1914 |
| 3. Name and address of manager of municipal lighting: | Sean P. Fitzgerald, 38 Bissonnette Circle, Southampton, MA |
| 4. Name and address of mayor or selectmen | Chair : Ira J. Brezinsky, 93 Woodbridge Street, South Hadley, MA
Vice Chair : Andrea Miles, 127 Granby Road, South Hadley, MA
Clerk : Jefferey Cyr, 8 Crystal Lane, South Hadley, MA
Member : Bruce C. Forcier, 24 Dale Street, South Hadley, MA
Member : Sarah Etelman, 9 Garden Street, South Hadley, MA |
| 5. Name and address of town (or city) treasurer: | Donna Whiteley, 52 Maple Street, Southampton, MA |
| 6. Name and address of town (or city) clerk: | Carlene C. Hamlin, 16 Priestly Farms Road, South Hadley, MA |
| 7. Names and addresses of members of municipal light board: | Chair : Gregory R. Dubreill, 5 Eagle Drive, South hadley, MA
Vice-Chair : Vernon L. Blodgett, Jr., 11 Sycamore Knolls, South Hadley, MA
Clerk : John R. Hine, 39 Chestnut Hill Road, South Hadley, MA
Member : Peter M. McAvoy, 20 Jewett Lane, South Hadley, MA
Member : Kurt C. Schenker, 59 Pine Street, South Hadley, MA |
| 8. Total valuation of estates in town (or city) according to last state valuation: Fiscal 2019 | \$1,593,808,455 |
| 9. Tax rate for all purposes during the year: Fiscal 2019 | Town - \$17.75, Fire District 1 - \$2.40, Fire District 2 - \$2.80 |
| 10. Amount of manager's salary: | \$164,278 |
| 11. Amount of manager's bond: | None |
| 12. Amount of salary paid to members of municipal light board (each): | None |

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

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

INCOME FROM PRIVATE CONSUMERS:			
1	FROM SALES OF GAS		
2	FROM SALE OF ELECTRICITY		14,964,730
3	FROM RATE STABILIZATION FUND		
4		Totals	14,964,730
5	Expenses:		
6	For operation, maintenance and repairs		13,690,590
7	For interest on bonds, notes or scrip		
8	For depreciation fund		1,070,000
9	For sinking fund requirements		
10	For note payments		
11	For bond payments		
12	For loss in preceding year		
13		Totals	14,760,590
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		496,450
19	Of electricity to be used for street lights		92,650
20	Total of the above items to be included in the tax levy		589,100
21			
22	New construction to be included in the tax levy		
23	Total amounts to be included in the tax levy		589,100
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, December 31.	City or Town	Number of Customers' Meters, December 31.
None	None	South Hadley	7,811
		Granby	45
		Hadley	10
		Totals	7,866

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

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

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

1. Municipal Buildings	496,450
2. Street Lights	92,650
TOTAL	589,100

*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.

Converted 130+ municipal street lights to LED

Renovated administration and operation facility

Extended fiber optic system

TOWN NOTES

(Issued on Account of Gas or Electric Lighting)

*Date of meeting and whether regular or special

TOTAL COST OF PLANT - ELECTRIC

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

Line No.	Account	Balance Beginning of Year	Additions	Retirements	Adjustments	Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1. INTANGIBLE PLANT						
2							
3							
4		0	0	0	0	0	0
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						
15	Total Steam Production Plant	0	0	0	0	0	0
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	0	0	0	0	0

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account	Balance Beginning of Year	Additions	Retirements	Adjustments	Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(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	0	0	0	0	0
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						
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	0	0	0	0	0	0
19	Total Production Plant	0	0	0	0	0	0
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights						
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements						
24	353 Station Equipment						
25	354 Towers and Fixtures						
26	355 Poles and Fixtures						
27	356 Overhead Conductors and Devices						
28	357 Underground Conduits						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails						
31	Total Transmission Plant	0	0	0	0	0	0

TOTAL COST OF PLANT - ELECTRIC (Continued)

Line No.	Account	Balance Beginning of Year	Additions	Retirements	Adjustments	Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights						
3	361 Structures and Improvements						
4	362 Station Equipment	6,030,668	3,572				6,034,240
5	363 Storage Battery Equipment						
6	364 Poles, Towers and Fixtures	1,992,481	30,331	20,106			2,002,706
7	365 Overhead Conductors and Devices	8,712,308	167,761	46,757			8,833,312
8	366 Underground Conduits	2,971,565	8,299				2,979,864
9	367 Underground Conductors & Devices	4,011,377	15,077	222			4,026,232
10	368 Line Transformers	1,962,738	9,834	6,218			1,966,354
11	369 Services	834,483	15,424	1,989			847,918
12	370 Meters	1,927,520	7,278	7,337			1,927,461
13	371 Installation on Cust's Premises						
14	372 Leased Prop. on Cust's Premises	189,651					189,651
15	373 Street Light and Signal Systems	828,751	45,658	59,730			814,679
16	Total Distribution Plant	29,461,542	303,234	142,359	0	0	29,622,417
17	5. GENERAL PLANT						
18	389 Land and Land rights	344,448					344,448
19	390 Structures and Improvements	852,984	51,859				904,843
20	391 Office Furniture and Equipment	1,200,733	36,978				1,237,711
21	392 Transportation Equipment	1,238,415	129,905	115,264			1,253,056
22	393 Stores Equipment	28,701					28,701
23	394 Tools, Shop and Garage Equipment	396,498					396,498
24	395 Laboratory Equipment	119,298					119,298
25	396 Power Operated Equipment	138,939					138,939
26	397 Communication Equipment	114,422	1,424				115,846
27	398 Miscellaneous Equipment	64,898	999				65,897
28	399 Other Tangible Property	1,582,824	194,901				1,777,725
29	Total General Plant	6,082,160	416,066	115,264	0	0	6,382,962
30	Total Electric Plant in Service	35,543,702	719,300	257,623	0	0	36,005,379
31	TOTAL COST OF PLANT.....						36,005,379
32							
33	Less Cost of Land, Land Rights, and Rights of Way						344,448
34	Total Cost upon which depreciation is based						35,660,931

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

COMPARATIVE BALANCE SHEET Assets and Other Debits

Line No.	Title of Account	Balance Beginning of Year	Balance End of Year	Increase or (Decrease)
	(a)	(b)	(c)	(d)
1	UTILITY PLANT			
2	101 Utility Plant -Electric	4,484,507	4,146,927	(337,580)
3	101 Utility Plant- Gas			
4	123 Investment in Associated Companies			
5	Total Utility Plant	4,484,507	4,146,927	(337,580)
6				
7				
8				
9				
10				
11	FUND ACCOUNTS			
12	125 Sinking Funds			
13	126 Depreciation Fund (P. 14)	6,254,088	6,640,979	386,891
14	128 Other Special Funds	12,699,298	12,850,880	151,582
15	Total Funds	18,953,386	19,491,859	538,473
16	CURRENT AND ACCRUED ASSETS			
17	131 Cash (P. 14)	2,444,321	1,847,200	(597,121)
18	132 Special Deposits	388,930	431,000	42,070
19	132 Working Funds	1,096,803	1,083,572	(13,231)
20	141 Notes and Receivables			
21	142 Customer Accounts Receivable	669,210	438,364	(230,846)
22	143 Other Accounts Receivable			
23	146 Receivables from Municipality			
24	151 Materials and Supplies (P. 14)	421,951	423,406	1,455
25	165 Prepayments	92,852	458,874	366,022
26	174 Miscellaneous Current Assets			
27	Total Current and Accrued Assets	5,114,067	4,682,416	(431,651)
28	DEFERRED DEBITS			
29	181 Unamortized Debt Discount			
30	182 Extraordinary Property Debits			
	183 Preliminary survey & Investigation Charges	515,974	627,051	
31	185 Other Deferred Debits	1,265,729	1,090,953	(174,776)
32	Total Deferred Debits	1,781,703	1,718,004	(174,776)
33				
34	Total Assets and Other Debits	30,333,663	30,039,206	(405,534)

COMPARATIVE BALANCE SHEET Liabilities and Other Credits

Line No.	Title of Account	Balance Beginning of Year	Balance End of Year	Increase or (Decrease)
	(a)	(b)	(c)	(d)
1	APPROPRIATIONS			
2	201 Appropriations for Construction			
3	SURPLUS			
4	205 Sinking Fund Reserves			
5	206 Loans Repayment			
6	207 Appropriations for Construction Repayment..			
7	208 Unappropriated Earned Surplus (P. 12)	20,120,833	19,943,349	(177,484)
8	Total Surplus	20,120,833	19,943,349	(177,484)
9	LONG TERM DEBT			
10	221 Bonds (P. 6)			
11	231 Notes Payable (P 7)			
12	Total Bonds and Notes	0	0	0
13	CURRENT AND ACCRUED LIABILITIES			
14	232 Accounts Payable	902,821	915,502	12,681
15	234 Payables to Municipality			
16	235 Customer Deposits	388,930	431,000	42,070
17	236 Taxes Accrued			
18	237 Interest Accrued			
19	242 Miscellaneous Current and Accrued Liabilities	187,015	164,767	(22,248)
20	Total Current and Accrued Liabilities	1,478,766	1,511,269	32,503
21	DEFERRED CREDITS			
22	251 Unamortized Premium on Debt			
23	252 Customer Advance for Construction			
24	253 Other Deferred Credits	5,365,826	5,213,376	(152,450)
25	Total Deferred Credits	5,365,826	5,213,376	(152,450)
26	RESERVES			
27	260 Reserves for Uncollectable Accounts			
28	261 Property Insurance Reserve			
29	262 Injuries and Damages Reserves			
30	263 Pensions and Benefits			
31	265 Miscellaneous Operating Reserves			
32	Total Reserves			
33	CONTRIBUTIONS IN AID OF CONSTRUCTION			
34	271 Contributions in Aid of Construction	3,368,238	3,371,212	2,974
35	Total Liabilities and Other Credits	30,333,663	30,039,206	(294,457)

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

STATEMENT OF INCOME FOR THE YEAR

Line No.	Account (a)	Current Year	Increase or (Decrease) from Preceding Year
1	OPERATING INCOME		
2	400 Operating Revenue (P. 37 and P. 43)	14,664,720	1,606,651
3	Operating Expenses:		
4	401 Operation Expense (P.42)	13,444,318	1,199,053
5	402 Maintenance Expense (P. 42)	359,784	(81,272)
6	403 Depreciation Expense	1,055,978	4,087
7	407 Amortization of Property Losses		
8			
9	408 Taxes (P. 48)		
10	Total Operating Expenses	14,860,079	1,121,867
11	Operating Income	(195,359)	484,784
12	414 Other Utility Operating Income (P.50)		
13			
14	Total Operating Income	(195,359)	484,784
15	OTHER INCOME		
16	415 Income from Merchandising, Jobbing, and Contract Work (P. 51)		
17	419 Interest Income	141,388	(208,974)
18	421 Miscellaneous Income	50,450	14,561
19	Total Other Income	191,838	(194,413)
20	Total Income	(3,521)	290,371
21	MISCELLANEOUS INCOME DEDUCTIONS		
22	425 Miscellaneous Amortization		
23	426 Other Income Deductions		0
24	Total Income Deductions	0	0
25	Income before Interest Charges	(3,521)	290,371
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		
31	432 Interest Charged to Construction-Credit		
32	Total Interest Charges		
33	Net Income	(3,521)	290,371

EARNED SURPLUS

Line No.	(a)	Debits (b)	Credits (c)
34	Unappropriated Earned Surplus (at beginning of Period)		20,120,833
35			
36	433 Balance transferred from Income		(3,521)
37	434 Miscellaneous Credits to Surplus		
38	435 Miscellaneous Debits to Surplus	173,963	
39	436 Appropriations of Surplus (P.21)		
40	437 Surplus Applied to Depreciation		
41	208 Unappropriated Earned Surplus (at end of period)	19,943,349	
42	Totals	20,117,312	20,117,312

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

CASH BALANCES AT END OF YEAR (Account 131)

Line No.	Items	Amount
	(a)	(b)
1	Operation Fund	1,847,200
2	Interest Fund	
3	Bond Fund	
4	Construction Fund	
5		
6		
7		
8		
9		
10		
11		
12	Totals	1,847,200

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

Line No.	Account	Amount End of Year	
		Electric	Gas
	(a)	(b)	(c)
13	Fuel (Account 151) (See Schedule, Page 25)		
14	Fuel Stock Expenses (Account 152)		
15	Residuals (Account 153)		
16	Plant Materials and Operating Supplies (Account 154)	423,406	
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	423,406	0

DEPRECIATION FUND ACCOUNT (Account 126)

Line No.	(a)	Amount
		(b)
DEBITS		
25	Balance of Account at Beginning of Year	6,254,088
26	Income During Year from Balance on Deposit	(15,377)
27	Amount Transferred from Income	1,055,978
28	Totals	7,294,689
CREDITS		
31	Amount expended for Construction Purposes (Sec. 57C164 of G.L.)	0
32	Amounts Expended for Renewals	719,300
33	Adjustment: Retirements	(62,616)
34	Adjustments: Contributions in Aid of Construction	(2,974)
35		
36		
37		
38		
39	Balance on Hand at End of Year	6,640,979
40	Totals	7,294,689

UTILITY 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	Balance Beginning of Year	Additions	Depreciation	Other Credits	Adjustments Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	1. INTANGIBLE PLANT						
2							
3							
4							
5	2. PRODUCTION PLANT	0	0	0	0	0	0
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						
15	Total Steam Production Plant	0	0	0	0	0	0
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	0	0	0	0	0

UTILITY PLANT - ELECTRIC (Continued)

Line No.	Account	Balance Beginning of Year	Additions	Depreciation	Other Credits	Adjustments Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(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	0	0	0	0	0
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						
16	345 Accessory Electric Equipment						
17	346 Miscellaneous Power Plant Equipment						
18	Total Other Production Plant	0	0	0	0	0	0
19	Total Production Plant	0	0	0	0	0	0
20	3. TRANSMISSION PLANT						
21	350 Land and Land Rights						
22	351 Clearing Land and Rights of Way						
23	352 Structures and Improvements						
24	353 Station Equipment						
25	354 Towers and Fixtures						
26	355 Poles and Fixtures						
27	356 Overhead Conductors and Devices						
28	357 Underground Conduits						
29	358 Underground Conductors and Devices						
30	359 Roads and Trails						
31	Total Transmission Plant	0	0	0	0	0	0

UTILITY PLANT - ELECTRIC (Continued)

Line No.	Account	Balance Beginning of Year	Additions	Depreciation	Other Credits	Adjustments Transfers	Balance End of Year
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	4. DISTRIBUTION PLANT						
2	360 Land and Land Rights						
3	361 Structures and Improvements						
4	362 Station Equipment	2,325,499	3,572	418,020			1,911,051
5	363 Storage Battery Equipment						
6	364 Poles, Towers and Fixtures	54,205	30,331	54,205			30,331
7	365 Overhead Conductors and Devices	72,909	167,761	72,909			167,761
8	366 Underground Conduits	6,000	8,299	5,999			8,300
9	367 Underground Conductors & Devices	9,571	15,077	9,571			15,077
10	368 Line Transformers	7,843	9,834	7,844			9,833
11	369 Services	14,575	15,424	14,575			15,424
12	370 Meters	70,109	7,278	57,826			19,561
13	371 Installation on Cust's Premises						
14	372 Leased Prop. on Cust's Premises	159,805		5,689			154,116
15	373 Street Light and Signal Systems	407,585	45,658	24,863			428,380
16	Total Distribution Plant	3,128,101	303,234	671,501	0	0	2,759,834
17	5. GENERAL PLANT						
18	389 Land and Land rights	344,448					344,448
19	390 Structures and Improvements	81,577	51,859	42,649			90,787
20	391 Office Furniture and Equipment	51,087	36,978	51,086			36,979
21	392 Transportation Equipment	178,631	129,905	123,842	902	20,013	203,805
22	393 Stores Equipment						
23	394 Tools, Shop and Garage Equipment	2,128		2,128			0
24	395 Laboratory Equipment						
25	396 Power Operated Equipment						
26	397 Communication Equipment		1,424				1,424
27	398 Miscellaneous Equipment	10,507	999	6,490			5,016
28	399 Other Tangible Property	633,308	194,901	158,282		(20,013)	649,914
29	Total General Plant	1,301,686	416,066	384,477	902	0	1,332,373
30	Total Electric Plant in Service	4,429,787	719,300	1,055,978	902	0	4,092,207
31	104 Utility Plant leased to Others						
32	105 Property Held for Future Use						
33	107 Construction Work in Progress	54,720				0	54,720
108	Accumulated Depreciation						
34	Total Utility Electric Plant	4,484,507	719,300	1,055,978	902	0	4,146,927

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

MISCELLANEOUS NON-OPERATING INCOME (Account 421)

Line	Item	Amount
No.	(a)	(b)
1		
2		
4		
5		
6	Total	0

OTHER INCOME DEDUCTIONS (Account 426)

Line	Item	Amount
No.	(a)	(b)
7		
8		
9		
11		
12		
13		
14	Total	0

MISCELLANEOUS CREDITS TO SURPLUS (Account 434)

Line	Item	Amount
No.	(a)	(b)
15		
16		
17		
19		
21		
22		
23	Total	0

MISCELLANEOUS DEBITS TO SURPLUS (Account 435)

Line	Item	Amount
No.	(a)	(b)
24		
25	Operating Transfer to Town of South Hadley	180,986
26	Adjustment for adoption of GASB 75 and change in OPEB measurement date	(7,023)
27		
29		
30		
31		
32	Total	173,963

APPROPRIATIONS OF SURPLUS (Account 436)

Line	Item	Amount
No.	(a)	(b)
33		
34		
36		
37		
38		
39		
40	Total	0

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

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

Line No.		Electric Schedule	K.W.H.	Revenue Received	Average Revenue per K.W.H. (cents) [0.0000]
		(a)	(b)	(c)	(d)
3	444	Municipal: (Other Than Street Lighting)	5,745,907	719,399	12.5202
4					
5					
6		Totals	5,745,907	719,399	12.5202
7		Street Lighting	586,377	89,615	15.2828
8					
9					
10		Totals	586,377	89,615	15.2828
11					
12		Totals	6,332,284	809,014	12.7760

PURCHASED POWER (Account 555)

Line No.	Names of Utilities from which Electric Energy is Purchased	Where and at What Voltage Received	K.W.H.	Amount	Cost per K.W.H. (cents) [0.0000]
	(a)	(b)	(c)	(d)	(e)
13	New York Power Authority	Pine Shed 115 KV	6,869,293	86,507	1.2593
14	Millstone 3	Pine Shed 115 KV	61,777,657	2,314,781	3.7470
15	Seabrook 4 & 5	Pine Shed 115 KV	34,331,102	1,088,673	3.1711
16	DOMIN	Pine Shed 115 KV	268,800	21,284	7.9182
17	PSEG	Pine Shed 115 KV	286,400	10,633	3.7126
18	EMERA	Pine Shed 115 KV	491,200	23,764	4.8379
19	NOBLE	Pine Shed 115 KV	156,000	7,059	4.5250
20	MORGA	Pine Shed 115 KV	508,000	23,258	4.5783
21	SHELL	Pine Shed 115 KV	408,800	16,145	3.9494
22	MCQRE	Pine Shed 115 KV	852,000	39,094	4.5885
23	DENGY	Pine Shed 115 KV	32,000	1,830	5.7188
24	SSGS	Dunlap PI .48 KV	21,945	1,207	5.5001
		Totals	106,003,197	3,634,235	3.4284

SALES FOR RESALE (Account 447)

Line No.	Names of Utilities to which Electric Energy is Sold	Voltage Received Where and at What Voltage Received	K.W.H.	Amount	Revenues per K.W.H. [cents] [0.0000]
	(a)	(b)	(c)	(c)	(e)
1					
2		Totals			

ELECTRIC OPERATING REVENUES (Account 400)

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

		Operating Revenues		Kilowatt-hours Sold		Average Number of Customers per Month	
Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year	Amount for Year	Increase or (Decrease) from Preceding Year	Number for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	SALES OF ELECTRICITY						
2	440 Residential Sales	7,987,729	1,028,427	62,920,568	4,838,119	7,087	15
3	442 Commercial and Industrial Sales:						
4	Small (or Commercial) see instr. 5	2,424,968	201,456	17,832,492	561,561	771	(2)
5	Large (or Industrial) see instr. 5	3,164,654	326,192	29,248,611	1,337,719	12	(2)
6	444 Municipal Sales (P.22)	809,014	58,419	6,332,284	64,438	47	0
7	445 Other Sales to Public Authorities						
8	446 Sales to Railroads and Railways						
10	449 Miscellaneous Electric Sales	61,951	(293)	316,672	(23,749)	154	(3)
11	Total Sales to Ultimate Consumers	14,448,316	1,614,201	116,650,627	6,778,088	8,071	8
12	447 Sales for Resale	0	0		0	0	
13	Total Sales of Electricity*	14,448,316	1,614,201	116,650,627	6,778,088	8,071	8
14	OTHER OPERATING REVENUES						
15	450 Forfeited Discounts						
16	451 Miscellaneous Service Revenues	180,525	7,050				
17	453 Sales of Water and Water Power						
18	454 Rent from Electric Property	11,136	(384)				
19	455 Interdepartmental Rents						
20	456 Other Electric Revenues	24,743	(14,216)				
24							
25	Total Other Operating Revenues.....	216,404	(7,550)				
26	Total Electric Operating Revenues.	14,664,720	1,606,651				

*Includes revenues from application of fuel clauses 415,637

Total KWH to which applied 116,064,250

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

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.	Acct No.	Schedule	K.W.H.	Revenue	Average Revenue per K.W.H. (cents) *(0.0000)	Number of Customers (per Bills Rendered)	
						July 31	December 31
		(a)	(b)	(c)	(d)	(e)	(f)
1	440	Residential - General	48,559,606	6,301,952	12.9778	N/A	5,920
2		Residential - Heating	14,360,962	1,685,777	11.7386	N/A	1,167
3	442	Commercial - Small	17,832,492	2,424,968	13.5986	N/A	771
4		Industrial	29,248,611	3,164,654	10.8198	N/A	12
5	444	Municipal - General	5,745,907	719,399	12.5202	N/A	46
6		Municipal - Street Lights	586,377	89,615	15.2828	N/A	1
7	449	Miscellaneous	316,672	61,951	19.5631	N/A	154
8							
9							
10							
11							
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31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42	Total Sales to Ultimate						
43	Consumers (Page 37 Line 11)		116,650,627	14,448,316	12.3860	N/A	8,071

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY

YEAR ENDED DECEMBER 31, 2018

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	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	POWER PRODUCTION EXPENSE		
2	STEAM POWER GENERATION		
3	Operation:		
4	500 Operation supervision and engineering		
5	501 Fuel		
6	502 Steam expense		
7	503 Steam from other sources		
8	504 Steam transferred - Cr		
9	505 Electric expenses		
10	506 Miscellaneous steam power expenses		
11	507 Rents		
12	Total Operation	0	0
13	Maintenance:		
14	510 Maintenance supervision and engineering		
15	511 Maintenance of structures		
16	512 Maintenance of boiler plant		
17	513 Maintenance of electric plant		
18	514 Maintenance of miscellaneous steam plant		
19	Total Maintenance	0	0
20	Total power production expenses - steam power	0	0
21	NUCLEAR POWER GENERATION		
22	Operation:		
23	517 Operation supervision and engineering		
24	518 Fuel		
25	519 Coolants and water		
26	520 Steam expense		
27	521 Steam from other sources		
28	522 Steam transferred - Cr		
29	523 Electric expenses		
30	524 Miscellaneous nuclear power expenses		
31	525 Rents		
32	Total Operation	0	0
33	Maintenance:		
34	528 Maintenance supervision and engineering		
35	529 Maintenance of structures		
36	530 Maintenance of reactor plant equipment		
37	531 Maintenance of electric plant		
38	532 Maintenance of miscellaneous nuclear plant		
39	Total Maintenance	0	0
40	Total power production expenses - nuclear power	0	0
41	HYDRAULIC POWER GENERATION		
42	Operation:		
43	535 Operation supervision and engineering		
44	536 Water for power		
45	537 Hydraulic expenses		
46	538 Electric expenses		
47	539 Miscellaneous hydraulic power generation expenses		
48	540 Rents		
49	Total Operation	0	0

(continued on page 40)

ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	HYDRAULIC POWER GENERATION - CONTINUED		
2	Maintenance:		
3	541 Maintenance Supervision and Engineering		
4	542 Maintenance of Structures		
5	543 Maintenance of Reservoirs, Dams and Waterways		
6	544 Maintenance of Electric Plant		
7	545 Maintenance of Miscellaneous Hydraulic Plant		
8	Total Maintenance	0	0
9	Total Power Production Expenses - Hydraulic Power	0	0
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	0	0
18	Maintenance:		
19	551 Maintenance Supervision and Engineering		
20	552 Maintenance of Structure		
21	553 Maintenance of Generating and Electric Plant		
22	554 Maintenance of Miscellaneous Other Power Generation Plant		
23	Total Maintenance	0	0
24	Total Power Production Expenses - Other Power	0	0
25	OTHER POWER SUPPLY EXPENSES		
26	555 Purchased Power	7,666,352	922,841
27	556 System Control and Load Dispatching		
28	557 Other Expenses	248,580	(151,353)
29	Total Other Power Supply Expenses	7,914,932	771,488
30	Total Power Production Expenses	7,914,932	771,488
31	TRANSMISSION EXPENSES		
32	Operation:		
33	560 Operation Supervision and Engineering		
34	561 Load Dispatching		
35	562 Station Expenses		
36	563 Overhead Line Expenses		
37	564 Underground Line Expenses		
38	565 Transmission of Electricity by Others	2,554,743	171,537
39	566 Miscellaneous Transmission Expenses		
40	567 Rents		
41	Total Operation	2,554,743	171,537
42	Maintenance:		
43	568 Maintenance Supervision and Engineering		
44	569 Maintenance of Structures		
45	570 Maintenance of Station Equipment		
46	571 Maintenance of Overhead Lines		
47	572 Maintenance of Underground Lines		
48	573 Maintenance of Miscellaneous Transmission Plant		
49	Total Maintenance	0	0
50	Total Transmission Expenses	2,554,743	171,537

ANNUAL REPORT OF THE TOWN OF SOUTH HADLEY		YEAR ENDED DECEMBER 31, 2018		41
ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)				
Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year	
	(a)	(b)	(c)	
1	DISTRIBUTION EXPENSES			
2	Operation:			
3	580 Operation Supervision and Engineering	41,224	(16,784)	
4	581 Load Dispatching			
5	582 Station Expenses	5,275	1,922	
6	583 Overhead Line Expenses	320,552	(82,264)	
7	584 Underground Line Expenses	38,872	537	
8	585 Street Lighting and Signal System Expenses	1,460	1,460	
9	586 Meter Expenses	2,359	(12,789)	
10	587 Customer Installations Expenses	13,812	11,881	
11	588 Miscellaneous Distribution Expenses	295,242	190,493	
12	589 Rents			
13	Total Operation	718,796	94,457	
14	Maintenance:			
15	590 Maintenance supervision and engineering	41,224	(14,477)	
16	591 Maintenance of Structures			
17	592 Maintenance of Station Equipment	24,776	(12,703)	
18	593 Maintenance of Overhead Lines	79,272	(102,420)	
19	594 Maintenance of Underground Lines	40,547	32,383	
20	595 Maintenance of Line Transformers	4,143	3,443	
21	596 Maintenance of Street Lighting and Signal Systems	7,957	(14,547)	
22	597 Maintenance of Meters	1,142	(4,302)	
23	598 Maintenance of Miscellaneous Distribution Plant	12,980	10,959	
24	Total Maintenance	212,041	(101,664)	
25	Total Distribution Expenses	930,836	(7,207)	
26	CUSTOMER ACCOUNTS EXPENSES			
27	Operation:			
28	901 Supervision			
29	902 Meter Reading Expenses	13,174	2,414	
30	903 Customer Records and Collection Expenses	448,922	62,437	
31	904 Uncollectable Accounts	(5,322)	(51,017)	
32	905 Miscellaneous Customer Accounts Expenses			
33	Total Customer Accounts Expenses	456,774	13,834	
34	SALES EXPENSES			
35	Operation:			
36	911 Supervision			
37	912 Demonstrating and Selling Expenses			
38	913 Advertising Expenses	27,548	16,354	
39	916 Miscellaneous Sales Expense			
40	Total Sales Expenses	27,548	16,354	
41	ADMINISTRATIVE AND GENERAL EXPENSES			
42	Operation:			
43	920 Administrative and General Salaries	576,581	135,217	
44	921 Office Supplies and Expenses	96,745	17,773	
45	922 Administrative Expenses Transferred - Cr			
46	923 Outside Services Employed	214,144	(17,540)	
47	924 Property Insurance	91,572	(10,535)	
48	925 Injuries and Damages	7,797	3,998	
49	926 Employees Pensions and Benefits	724,775	25,769	
50	928 Regulatory Commission Expenses			
51	929 Duplicate Charges - Cr			
52	930 Miscellaneous General Expenses	59,911	(23,299)	
53	931 Rents			
54	Total Operation	1,771,525	131,383	

ELECTRIC OPERATION AND MAINTENANCE EXPENSES (Continued)

Line No.	Account	Amount for Year	Increase or (Decrease) from Preceding Year
	(a)	(b)	(c)
1	ADMINISTRATIVE EXPENSES		
2	Maintenance:		
3	932 Maintenance of General Plant	114,512	4,370
4	933 Transportation expense	33,231	16,021
5	Total Maintenance	147,743	20,391
6	Total Administrative and General Expenses	1,919,268	151,774
7	Total Electric Operation and Maintenance Expenses	13,804,101	1,117,780

SUMMARY OF ELECTRIC OPERATION AND MAINTENANCE EXPENSES

Line No.	Functional Classification	OPERATION	MAINTENANCE	TOTAL
	(a)	(b)	(c)	(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	7,914,932		7,914,932
15	Total Power Production Expenses	7,914,932		7,914,932
16	Transmission Expenses	2,554,743		2,554,743
17	Distribution Expenses	718,796	212,041	930,836
18	Customer Accounts Expenses	456,774		456,774
19	Sales Expenses	27,548		27,548
20	Administrative and General Expenses	1,771,525	147,743	1,919,268
21	Power Production Expenses			
22	Total Electric Operation and Maintenance Expenses	13,444,318	359,784	13,804,101

- 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) 101.33%
- 24 Total salaries and wages of electric department for year, including amounts charged to operating
 expenses, construction and other accounts 1,800,665
- 25 Total number of employees of electric department at end of year including administrative,
 operating, maintenance and other employees (including part time employees) 19

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	Electric Department	Gas Department	Other Utility Department	Total
	(a)	(c)	(d)	(d)	(e)
1	Revenues:				
2	Merchandising sales, less discounts,				
3	allowances and returns				
4	Contract Work				
5	Commissions				
6	Other(List according to major classes)				
7					
8					
9					
10	Total Revenues	0	0	0	0
11					
12					
13	Costs and Expenses:				
14	Cost of Sales (List according to Major				
15	classes of cost)				
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	Total Costs and Expenses	0	0	0	0
46	Net Profit (or Loss)	0	0	0	0

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								
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23								
24								
25								
26								
27								
28								
29								
#####								
#####								

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	Voltage at which Delivered	Kilowatt-Hours	Revenue (Omit Cents)				Revenue per Kwh (cents) [0.0000]	Line No.
			Demand Charges	Energy Charges	Other Charges	Total		
(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
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								22
								23
								24
								25
								26
								27
								28
								29
								30
Totals		0	0	0	0	0	0.0000	31

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	New York Power Authority	FP	X	Pine Shed	RS	1,034		
2	Millstone 3	O	X	Pine Shed	RS	7,088		
3	Seabrook 4 & 5	O	X	Pine Shed	RS	4,262		
4	DOMIN	DP		Pine Shed	RS			
5	PSEG	DP		Pine Shed	RS			
6	EMERA	DP		Pine Shed	RS			
7	NOBLE	DP		Pine Shed	RS			
8	MORGA	DP		Pine Shed	RS			
9	SHELL	DP		Pine Shed	RS			
10	MCQRE	DP		Pine Shed	RS			
11	DENGY	DP		Pine Shed	RS			
12	SSGS	O		Dunlap PI				
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

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. 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).
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
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)				KWH (cents) (0.0000)	Line No.
			Capacity Charges	Energy Charges	Other Charges	Total		
(i)	(j)	(k)	(l)*	(m)	(n)	(n)	(p)	
60 Min	115KV	6,869,293	50,502	36,005		86,507	1.2593	1
60 Min	115KV	61,777,657	2,024,769	290,012		2,314,781	3.7470	2
60 Min	115KV	34,331,102	923,983	164,690		1,088,673	3.1711	3
60 Min	115KV	268,800		21,284		21,284	7.9182	4
60 Min	115KV	286,400		10,633		10,633	3.7126	5
60 Min	115KV	491,200		23,764		23,764	4.8379	6
60 Min	115KV	156,000		7,059		7,059	4.5250	7
60 Min	115KV	508,000		23,258		23,258	4.5783	8
60 Min	115KV	408,800		16,145		16,145	3.9494	9
60 Min	115KV	852,000		39,094		39,094	4.5885	10
60 Min	115KV	32,000		1,830		1,830	5.7188	11
60 Min	115KV	21,945		1,207		1,207	5.5001	12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
Note: capacity charges are reduced by annual flush of funds for PSA power contracts								
								27
								28
								29
	Totals	106,003,197	2,999,254	634,981	0	3,634,235	3.4284	30

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	NEPEX			115KV	121,408,850	108,312,430	13,096,420	3,812,895
2								
3								
4								
5								
6				Totals	121,408,850	108,312,430	13,096,420	3,812,895

B. Details of Settlement for Interchange Power

Line No.	Name of Company	Explanation	Amount
	(i)	(j)	(k)
7	NEPEX	NEPOOL Expense	219,222
8		Interchange Expense	3,812,895
9			
10			
11		Total	4,032,117

ELECTRIC ENERGY ACCOUNT

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

Line No.	Item	Kilowatt-hours
	(a)	(b)
1	SOURCES OF ENERGY	
2	Generation (excluding station use):	
3	Steam Gas Turbine Combined Cycle	
4	Nuclea	
5	Hydro	
6	Other Diesel	
7	Total generation	0
8	Purchases	106,003,197
9	{ In (gross)	121,408,850
10	Interchanges { Out (gross)	108,312,430
11	{ Net (Kwh)	13,096,420
12	{ Received	
13	Transmission for/by others { Delivered	
14	{ Net (kwh)	
15	TOTAL	119,099,617
16	DISPOSITION OF ENERGY	
17	Sales to ultimate consumers (including interdepartmental sales)	116,650,627
18	Sales for resale	
19	Energy furnished without charge	
20	Energy used by the company (excluding station use)	
21	Electric department only	252,574
22	Energy losses:	
23	Transmission and conversion losses	
24	Distribution losses	2,196,416
25	Unaccounted for losses	
26	Total energy losses	2,196,416
27	Energy losses as percent of total on line 15	1.84%
28	Total	119,099,617

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 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	Kilowatts	Day of Week	Day of Month	Hour	Type of Reading	Monthly Output (kwh) See Instr. 4)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
29	January	21,236	Saturday	6	18:00	60 min	11,474,384
30	February	19,685	Wednesday	7	18:00	60 min	9,333,004
31	March	17,662	Wednesday	7	19:00	60 min	9,664,384
32	April	15,923	Tuesday	3	19:00	60 min	8,634,159
33	May	19,457	Tuesday	29	18:00	60 min	8,660,502
34	June	24,849	Monday	18	17:00	60 min	9,202,216
35	July	27,752	Monday	2	18:00	60 min	12,301,292
36	August	27,990	Monday	29	17:00	60 min	11,957,234
37	September	27,017	Thursday	6	15:00	60 min	9,617,527
38	October	17,868	Wednesday	10	19:00	60 min	8,684,532
39	November	17,654	Thursday	15	18:00	60 min	9,262,384
40	December	18,913	Thursday	13	19:00	60 min	10,307,999
41	Total						119,099,617

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	Character of Substation	Voltage			Capacity of Substation in Kva (in Service)	Number Of Transformers in Service	Number of Spare Transformers	Conversion Apparatus and Special Equipment		
			Primary	Secondary	Tertiary				Type of Equipment	No. of Units	Total Capacity
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	PINESHED	Distribution	115KV	13.8KV		93,000	2	0			
2											
3											
4											
5											
6	UNATTENDED										
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21					Totals	93,000	2	0		1	20,000 KVA

OVERHEAD DISTRIBUTION LINES OPERATED

Line No.	Item	Length (Pole Miles)		
		Wood Poles	Steel Towers	Total
1	Miles - Beginning of Year	92.13	NONE	92.13
2	Added During Year	0.79		0.79
3	Retired During Year	0.50		0.50
4	Miles - End of Year	92.42		92.42
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				

ELECTRIC DISTRIBUTION SERVICES, METERS AND LINE TRANSFORMERS

Line No.	Item	Electric Services	Number of Watt-hour Meters	Line Transformers	
				Number	Total Capacity (Kva)
20	Number at beginning of year	5,874	7,988	1,080	68,355.5
21	Additions during year:				
22	Purchased		40	3	150.0
23	Installed	20			
24	Associated with utility plant acquired	0	0	0	0.0
25	Total additions	20	40	3	150.0
26	Reduction during year:				
27	Retirements	14	14	8	579.5
28	Associated with utility plant sold				
29	Total reductions	14	14	8	579.5
30	Number at End of Year	5,880	8,014	1,075	67,926.0
31	In Stock		118	126	10,388.0
32	Locked Meters' on customers' premises		27		
33	Inactive Transformers on System				
34	In Customers' Use		7,866	946	57,526.2
35	In Companys' Use		3	3	1.8
36	Number at End of Year		8,014	1,075	67,916.0
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					

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	Miles of Conduit Bank (All sizes and Types)	Underground Cable		Submarine Cable	
			Miles*	Operating voltage	Feet*	Operating Voltage
	(a)	(b)	(c)	(d)	(e)	(f)
1	Primary Distribution	2.05	0.65	5kv		
2	Primary Distribution	27.15	36.60	15kv		
3	Secondary Distribution	19.54	67.03	120/240V		
4	Municipal Distribution	7.00	15.77	120V		
5						
6						
7	*(1) Conductor per Cable					
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29	Totals	55.74	120.05		0	

*Indicate number of conductors per cable.

STREET LAMPS CONNECTED TO SYSTEM

Line No.	City or Town	Total	TYPE							
			LED		Mercury Vapor		Fluorescent		High Press. Sodium	
			Municipal	Other	Municipal	Other	Municipal	Other	Municipal	Other
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	South Hadley	1,886	1,312	36	59	50	0	0	245	184
2										
3										
4										
5										
6										
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48										
49										
50										
51										
52	Totals	1,886	1,312	36	59	50	0	0	245	184

RATE SCHEDULE INFORMATION

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

Date Effective	M.D.P.U. Number	Rate Schedule	Estimated Effect of Annual Revenues	
			Increases	Decrease
		***** SEE ATTACHMENT "B" *****		

THIS RETURN IS SIGNED UNDER THE PENALTIES OF PERJURY

Mayor



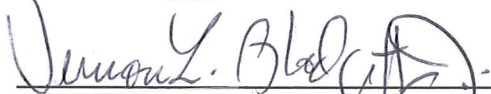
Sean Fitzgerald, Manager

Manager of Electric Light
Department



Gregory R. Dubreuil, Chairman

Selectmen
or
Members
of the
Municipal
Light
Board



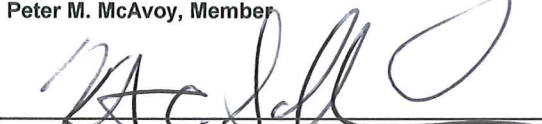
Vernon L. Blodgett, Jr. Vice-Chairman



John R. Hine, Clerk



Peter M. McAvoy, Member



Kurt C. Schenker, Member

INDEX

	Pages
Appropriations of Surplus	21
Appropriations Since Beginning of Year	5
Bonds	6
Cash Balances	14
Changes in the Property	5
Comparative Balance Sheet	10-11
Conduit, Underground Cable and Submarine Cable	70
Cost of Plant	8
Customers in each City or Town	4
Depreciation Fund Account	14
Earned Surplus	12
Electric Distribution Services, Meters and Line Transformers	69
Electric Energy Account	57
Electric Operating Revenues	37
Electric Operation and Maintenance Expenses	39-42
General Information	3
Income from Merchandising, Jobbing and Contract Work	51
Income Statement	12-13
Interchange Power	56
Materials and Supplies	14
Miscellaneous Credits to Surplus	21
Miscellaneous Debits to Surplus	21
Miscellaneous Non-operating Income	21
Monthly Peaks and Output	57
Municipal Revenues	22
Other Income Deductions	21
Other Utility Operating Income	50
Overhead Distribution Lines Operated	69
Purchased Power	22
Purchased Power	54-55
Rate Schedule Information	79
Sales for Resale	22
Sales for Resale	52-53
Sales of Electricity to Ultimate Consumers	38
Schedule of Estimates	4
Signature Page	81
Street Lamps	71
Substations	68
Town Notes	7
Utility Plant - Electric	15-17

FOR GAS PLANTS ONLY:

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

PAGES INTENTIONALLY OMITTED 9, 13, 18-20, 23-36, 43-50, 58-67, 72-78, 80

EXTRACTS FROM CHAPTER 164 OF THE GENERAL LAWS AS AMENDED

Section 56. The mayor of a city, or the selectmen or municipal light board, if any, of a town acquiring a gas or electric plant shall appoint a manager of municipal lighting who shall, under the direction and control of the mayor, selectmen or municipal light board, if any, and subject to this chapter, have full charge of the operation and management of the plant, the manufacture and distribution of gas or electricity, the purchase of supplies, the employment of attorneys and of agents and servants, the method, time, price, quantity and quality of the supply, the collection of bills, and the keeping of accounts. His compensation and term of office shall be fixed in cities by the city council and in towns by the selectmen or municipal light board, if any; and, before entering upon the performance of his official duties, he shall give bond to the city or town for the faithful performance thereof in a sum and form and with sureties to the satisfaction of the mayor, selectmen or municipal light board, if any, and shall, at the end of each municipal year, render to them such detailed statement of his doings and of the business and financial matters in his charge as the department may prescribe. All moneys payable to or received by the city, town, manager or municipal light board in connection with the operation of the plant, for the sale of gas or electricity or otherwise, shall be paid to the city or town treasurer. All accounts rendered to or kept in the gas or electric plant of any city shall be subject to the inspection of the city auditor or officer having similar duties, and in towns they shall be subject to the inspection of the selectmen. The auditor or officer having similar duties, or the selectmen, may require any person presenting for settlement an account or claim against such plant to make oath before him or them, in such form as he or they may prescribe, as to the accuracy of such account or claim. The willful making of a false oath shall be punishable as perjury. The auditor or officer having similar duties in cities, and the selectmen in towns, shall approve the payment of all bills or payrolls of such plants before they are paid by the treasurer, and may disallow and refuse to approve for payment, in whole or in part, any claim as fraudulent, unlawful or excessive; and in that case the auditor or officer having similar duties, or the selectmen, shall file with the city or town treasurer a written statement of the reasons for the refusal; and the treasurer shall not pay any claim or bill so disallowed. This section shall not abridge the powers conferred on town accountants by sections fifty-five to sixty-one, inclusive, of chapter forty-one. The manager shall at any time, when required by the mayor, selectmen, municipal light board, if any, or department, make a statement to such officers of his doings, business, receipts, disbursements, balances, and of the indebtedness of the town in his department.

Section 57. At the beginning of each fiscal year, the manager of municipal lighting shall furnish to the mayor, selectmen or municipal light board, if any, an estimate of the income from sales of gas and electricity to private consumers during the ensuing fiscal year, and of the expense of the plant during said year, meaning the gross expenses of operation, maintenance and repair, the interest on the bonds, notes or certificates of indebtedness issued to pay for the plant, an amount for depreciation equal to three per cent of the cost of the plant exclusive of land and any water power appurtenant thereto, or such smaller or larger amount as the department may approve, the requirements of the sinking fund or debt incurred for the plant, and the loss, if any, in the operation of the plant during the preceding year, and of the cost, as defined in section fifty-eight, of the gas and electricity to be used by the town. The town shall include in its annual appropriations and in the tax levy not less than the estimated cost of the gas and electricity to be used by the town as above defined and estimated. By cost of the plant is intended the total amount expended on the plant to the beginning of the fiscal year for the purpose of establishing, purchasing, extending or enlarging the same. By loss in operation is intended the difference between the actual income from private consumers plus the appropriations for maintenance for the preceding fiscal year and the actual expense of the plant, reckoned as above, for that year in case such expenses exceeded the amount of such income and appropriation. The income from sales and the money appropriated as aforesaid shall be used to pay the annual expense of the plant, defined as above, for the fiscal year, except that no part of the sum therein included for depreciation shall be used for any other purpose than renewals in excess of ordinary repairs, extensions, reconstruction, enlargements and additions. The surplus, if any, of said annual allowances for depreciation after making the above payments shall be kept as a separate fund and used for renewals other than ordinary repairs, extensions, reconstructions, enlargements and additions in succeeding years, and for the cost of plant, nuclear decommissioning costs, the costs of contractual commitments, and deferred costs related to such commitments which the city council, the board of selectmen, or the municipal light board, if any, determines are above market value. Said depreciation fund shall be kept and managed by the town treasurer as a separate fund, subject to appropriation by the city council or selectmen or municipal light board, if any, for the foregoing purpose. Upon his own initiative or upon the request of the city council, selectmen or municipal light board, the treasurer shall invest or deposit the same as permitted by section fifty-five A of chapter forty-four, and any income thereon shall be credited to the depreciation fund. So much of said fund as the department may from time to time approve may also be used to pay notes, bonds or certificates of indebtedness issued to pay for the cost of reconstruction or renewals in excess of ordinary repairs, when such notes, bonds or certificates of indebtedness become due. All appropriations for the plant shall be either for the annual expense defined as above, or for extensions, reconstruction, enlargements or additions; and no appropriation shall be used for any purpose other than that stated in the vote making the same. No bonds, notes or certificates of indebtedness shall be issued by a town for the annual expenses as defined in this section.

Section 63. A town manufacturing or selling gas or electricity for lighting shall keep records of its work and doings at its manufacturing station, and in respect to its distributing plant, as may be required by the department. It shall install and maintain apparatus, satisfactory to the department, for the measurement and recording of the output of gas and electricity, and shall sell the same by meter to private consumers when required by the department, and, if required by it, shall measure all gas or electricity consumed by the town. The books, accounts and returns shall be made and kept in a form prescribed by the department, and the accounts shall be closed annually on the last day of the fiscal year of such town, and a balance sheet of that date shall be taken therefrom and included in the return to the department. The mayor, selectmen or municipal light board and manager shall, at any time, on request, submit said books and accounts to the inspection of the department and furnish any statement or information required by it relative to the condition, management and operation of said business. The department shall, in its annual report, describe the operation of the several municipal plants with such detail as may be necessary to disclose the financial condition and results of each plant; and shall state what towns, if any, operating a plant have failed to comply with this chapter, and what towns, if any, are selling gas or electricity with the approval of the department at less than cost. The mayor, or selectmen, or municipal light board, if any, shall annually, on or before such date as the department fixes, make a return to the department, for the preceding fiscal year, signed and sworn to by the mayor, or by a majority of the selectmen or municipal light board, if any, and by the manager, stating the financial condition of said business, the amount of authorized and existing indebtedness, a statement of income and expenses in such detail as the department may require, and a list of its salaried officers and the salary paid to each. The mayor, the selectmen or the municipal light board may direct any additional returns to be made at such time and in such detail as he or they may order. Any officer of a town manufacturing or selling gas or electricity for lighting who, being required by this section to make an annual return to the department, neglects to make such annual return shall, for the first fifteen days or portion thereof during which such neglect continues, forfeit five dollars a day; for the second fifteen days or any portion thereof, ten dollars a day; and for each day thereafter not more than fifteen dollars a day. Any such officer who unreasonably refuses or neglects to make such return shall, in addition thereto, forfeit not more than five hundred dollars. If a return is defective or appears to be erroneous, the department shall notify the officer to amend it within fifteen days. Any such officer who neglects to amend said return within the time specified, when notified to do so, shall forfeit fifteen dollars for each day during which such neglect continues. All forfeitures incurred under this section may be recovered by an information in equity brought in the supreme judicial court by the attorney general, at the relation of the department, and when so recovered shall be paid to the commonwealth.

Section 69. The supreme judicial court for the county where the town is situated shall have jurisdiction on petition of the department or of twenty taxable inhabitants of the town to compel the fixing of prices by the town in compliance with sections fifty-seven and fifty-eight, to prevent any town from purchasing, operating or selling a gas or electric plant in violation of any provision of this chapter, and generally to enforce compliance with the terms and provisions thereof relative to the manufacture or distribution of gas or electricity by a town.

MASSACHUSETTS MUNICIPAL WHOLESALE ELECTRIC COMPANY
Suggested Note to Participant Financial Statements
December 31, 2018

Town [City] of South Hadley acting through its Light Department is a Participant in certain Projects of the Massachusetts Municipal Wholesale Electric Company (MMWEC).

MMWEC is a public corporation and a political subdivision of the Commonwealth of Massachusetts, created as a means to develop a bulk power supply for its Members and other utilities. MMWEC is authorized to construct, own or purchase ownership interests in, and to issue revenue bonds to finance, electric facilities (Projects). MMWEC has acquired ownership interests in electric facilities operated by other entities and also owns and operates its own electric facilities. MMWEC sells all of the capability (Project Capability) of each of its Projects to its Members and other utilities (Project Participants) under Power Sales Agreements (PSAs). Among other things, the PSAs require each Project Participant to pay its *pro rata* share of MMWEC's costs related to the Project, which costs include debt service on the revenue bonds issued by MMWEC to finance the Project, plus 10% of MMWEC's debt service to be paid into a Reserve and Contingency Fund. In addition, should a Project Participant fail to make any payment when due, other Project Participants of that Project may be required to increase (step-up) their payments and correspondingly their Participant's share of that Project's Project Capability to an additional amount not to exceed 25% of their original Participant's share of that Project's Project Capability. Project Participants have covenanted to fix, revise and collect rates at least sufficient to meet their obligations under the PSAs.

MMWEC has issued separate issues of revenue bonds for each of its eight Projects, which are payable solely from, and secured solely by, the revenues derived from the Project to which the bonds relate, plus available funds pledged under MMWEC's Amended and Restated General Bond Resolution (GBR) with respect to the bonds of that Project. The MMWEC revenues derived from each Project are used solely to provide for the payment of the bonds of any bond issue relating to such Project and to pay MMWEC's cost of owning and operating such Project and are not used to provide for the payment of the bonds of any bond issue relating to any other Project.

MMWEC operates the Stony Brook Intermediate Project and the Stony Brook Peaking Project, both fossil-fueled power plants. MMWEC has a 3.7% interest in the W.F. Wyman Unit No. 4 plant, which is operated and owned by its majority owner, FPL Energy Wyman IV, LLC, a subsidiary of NextEra Energy Resources LLC, and a 4.8% ownership interest in the Millstone Unit 3 nuclear unit, operated by Dominion Nuclear Connecticut, Inc. (DNCI), the majority owner and an indirect subsidiary of Dominion Resources, Inc. DNCI also owns and operates the Millstone Unit 2 nuclear unit. The operating license for the Millstone Unit 3 nuclear unit extends to November 25, 2045.

A substantial portion of MMWEC's plant investment and financing program is an 11.6% ownership interest in the Seabrook Station nuclear generating unit operated by NextEra Energy Seabrook, LLC (NextEra Seabrook) the majority owner and an indirect subsidiary of NextEra Energy Resources LLC. The operating license for Seabrook Station extends to March 15, 2030. NextEra Seabrook has submitted an application to extend the Seabrook Station operating license for an additional 20 years.

Pursuant to the PSAs, the MMWEC Seabrook and Millstone Project Participants are liable for their proportionate share of the costs associated with decommissioning the plants, which costs are being funded through monthly Project billings. Also, the Project Participants are liable for their proportionate share of the uninsured costs of a nuclear incident that might be imposed under the Price-Anderson Act (Act). Originally enacted in 1957, the Act has been renewed several times. In July 2005, as part of the Energy Policy Act of 2005, Congress extended the Act until the end of 2025.

South Hadley Electric Light Department has entered into PSAs and PPAs with MMWEC. Under both the PSAs and PPAs, the Department is required to make certain payments to MMWEC payable solely from Municipal Light Department revenues. Under the PSAs, each Participant is unconditionally obligated to make payments due to MMWEC whether or not the Project(s) is completed or operating and notwithstanding the suspension or interruption of the output of the Project(s).

MMWEC is involved in various legal actions. In the opinion of management, the outcome of such litigation or claims will not have a material adverse effect on the financial position of the company.

As of December 31, 2018,, total capital expenditures amounted to \$1,652,338,000 , of which \$56,077,000 represents the amount associated with the Department's Project Capability. MMWEC's debt outstanding for the Projects from Power Supply System Revenue Bonds totals \$7,110,000 , of which \$000,000 is associated with the Department's share of Project Capability. As of December 31, 2018,, MMWEC's total future debt service requirement on outstanding bonds issued for the Projects is \$7,419,000 , of which \$000,000 is anticipated to be billed to the Department in the future.

The aggregate amount of South Hadley Electric Light Department's required payments under the PSAs and PPAs, exclusive of the Reserve and Contingency Fund billings, to MMWEC at December 31, 2018 and estimated for future years is shown below.

<u>ANNUAL COSTS</u>	
For years ended December 31,	\$
2019	0
0	0
0	0
TOTAL	<u>\$ 0</u>

In addition, under the PSAs, the Department is required to pay to MMWEC its share of the Operation and Maintenance (O&M) costs of the Projects in which it participates. The Department's total O&M costs including debt service under the PSAs were \$3,586,000 and \$4,134,000 for the years ended December 31, 2018 and 2017, respectively.

AS OF DECEMBER 31, 2018

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
(\$000)

PAGE 1

PROJECTS	PERCENTAGE SHARE	TOTAL PROJECT EXPENDITURES TO DATE	PARTICIPANT'S SHARE	DEBT ISSUED & OUTSTANDING 12/31/2018	PARTICIPANT'S SHARE	TOTAL DEBT SERVICE ON BONDS OUTSTANDING	PARTICIPANT'S SHARE
Stony Brook Peaking Project	-	\$ 59,845	-	-	-	-	-
Stony Brook Intermediate Project	-	175,809	-	-	-	-	-
Nuclear Mix No. 1-SBK	-	11,881	-	-	-	-	-
Nuclear Mix No. 1-MLS	-	124,683	-	-	-	-	-
Nuclear Project No. 3-MLS	18.0079	155,029	27,917	-	-	-	-
Nuclear Project No. 4-SBK	7.4000	356,087	26,350	-	-	-	-
Nuclear Project No. 5-SBK	1.8769	96,443	1,810	-	-	-	-
Wyman Project	-	8,792	-	-	-	-	-
Project No. 6-SBK	-	663,769	-	7,110	-	7,419	-
TOTAL		\$ 1,652,338	\$ 56,077	\$ 7,110	-	\$ 7,419	-

PROJECTS	PERCENTAGE SHARE	OPERATION & MAINTENANCE 12/31/2017	PARTICIPANT'S SHARE	OPERATION & MAINTENANCE 12/31/2018	PARTICIPANT'S SHARE
Stony Brook Peaking Project	-	\$ 4,487	-	\$ 4,644	-
Stony Brook Intermediate Project	-	16,662	-	19,982	-
Nuclear Mix No. 1-SBK	-	686	-	635	-
Nuclear Mix No. 1-MLS	-	6,532	-	6,661	-
Nuclear Project No. 3-MLS	18.0079	15,756	2,837	13,664	2,461
Nuclear Project No. 4-SBK	7.4000	16,344	1,209	14,276	1,056
Nuclear Project No. 5-SBK	1.8769	4,704	88	3,672	69
Wyman Project	-	976	-	1,093	-
Project No. 6-SBK	-	37,834	-	24,196	-
TOTAL		\$ 103,981	\$ 4,134	\$ 88,823	\$ 3,586

AS OF DECEMBER 31, 2018

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
(\$000)

PAGE 2

PROJECTS	PERCENTAGE SHARE	2019		2020	
		ANNUAL COST	PARTICIPANT'S SHARE	ANNUAL COST	PARTICIPANT'S SHARE
Stony Brook Peaking Project	-	-	-	-	-
Stony Brook Intermediate Project	-	-	-	-	-
Nuclear Mix No. 1-SBK	-	-	-	-	-
Nuclear Mix No. 1-MLS	-	-	-	-	-
Nuclear Project No. 3-MLS	18.0079	-	-	-	-
Nuclear Project No. 4-SBK	7.4000	-	-	-	-
Nuclear Project No. 5-SBK	1.8769	-	-	-	-
Wyman Project	-	-	-	-	-
Project No. 6-SBK	-	7,419	-	-	-
TOTAL		\$ 7,419	-	-	-

M.D.T.E. No. 80

Cancels

M.D.P.U. No. 72

Page 1 of 4

TERMS AND CONDITIONS FOR ELECTRIC SERVICE

THE FOLLOWING TERMS AND CONDITIONS ARE APPLICABLE TO AND MADE PART OF ALL RATE SCHEDULES. ANY SUCH TERMS AND CONDITIONS AS ARE INCONSISTENT WITH ANY SPECIFIC PROVISIONS OR ANY RATE SCHEDULE SHALL NOT APPLY THERETO.

1. The supply of electric service is contingent upon the Department's ability to secure and retain the necessary location for its poles, wires, conduit, cable and other apparatus. The character of service, to be made available at each location, will be determined by the Department and information relative thereto will be furnished by the Department on request. In general, the standard voltage supplied will be One Hundred Twenty – Two Hundred Forty (120/240) volts, single phase. Contact the Department to determine the availability of other voltages and characteristics.
2. Such wiring and other electrical equipment and apparatus as may be necessary in order to utilize the service shall be provided, installed, maintained, and used by the Customer in accordance with the requirements, if any, of the National Electric Code, and of all public authorities having jurisdiction of the same and the requirements of the Department. In general, the Department will not provide service until the Customer's wiring has been inspected and approved for energization by the Authority having Jurisdiction. The Department's *Information and Requirements for Electric Service* will be furnished upon request.
3. In general, all customers shall be served from one service location and one meter. Apartment buildings shall be served through one service, one building service meter, and individual meter(s) for each occupancy. In the case of more than one building in an apartment complex, each building service meter shall be considered an individual and separate account and will be billed separately.
4. All bills shall be due and payable upon presentation and shall be rendered monthly; however, the Department reserves the right to read meters and render bills on a bi-monthly basis. All bills of non-residential accounts, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.
5. The Department may discontinue its supply and remove its property from the premises in case the Customer fails to pay any bill due the Department for such service, after due notice thereof to the Customer, or fails to maintain his service equipment in a safe manner, or to perform any of his obligations to the Department. After such discontinuance, a reconnection fee will be charged to the Customer by the Department for restoration of service.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

M.D.T.E. No. 80

Cancels

M.D.P.U. No. 72

Page 2 of 4

6. For the purpose of determining the amount of electricity delivered, meters shall be installed by the Department at locations to be designated by the Department. The Department, may at any time, change any of its meters.
7. The Customer shall furnish without charge, suitable locations and enclosures upon his premises for such lines, transformers, meters, and other apparatus and equipment as the Department may install for the purpose of supplying service. The Department shall have the right of access, at reasonable times, to the premises of the Customer for the purpose of installing, reading, inspecting, testing, and keeping in repair the apparatus and equipment of the Department, or for discontinuing service or for removing any or all of its apparatus and equipment or for the purpose of obtaining the necessary information for the proper application of the rate or rates under which service is supplied.
8. The Customer shall not injure, interfere, destroy or tamper with the meter or other property of the Department nor suffer or permit any person to do so. The Customer shall use all reasonable precautions to protect the property of the Department located on the premises of the Customer from damage and interference and shall be responsible for all damages to, or loss of, such property of the Department. The Customer shall so maintain and operate its electric equipment and apparatus as not to endanger or interfere with the service of the Department. Electric meters are the property of the Department. No one but authorized Department personnel shall cut and open the Department seal on a meter, remove and install a meter, install jumper pieces or other bypassing devices, remove or install sleeves, change the meter registration, or tamper in any way with the electric meter. Meters damaged accidentally or otherwise will be replaced at the expense of the property owner where the meter is located. When a meter is found to be tampered with, service to that meter will be disconnected. To have service restored, the responsible party must first pay a \$45.00 reconnection fee, payable in cash at the Department Office. All violations will be reported to the Police Department for legal prosecution. To restore service after it has been disconnected, application must be made in person at the Department's Office. In addition to the fee for tampering, a deposit will be required, which will be equivalent to three month's normal consumption on the premises in question. Service will be reconnected 24 hours after payment of the preceding fee and deposit, if the matter has been resolved to the satisfaction of the Department.
9. Whenever the integrity of the supply of electric service may be threatened by the conditions on the Department's system or on a part or parts of the transmission and/or distribution system with which the Department is interconnected, the Department, in its sole judgment, may curtail or interrupt electrical service to the Customer and such curtailment or interruption shall not constitute willful default by the Department. The Department shall not be responsible for any failure to supply electric service nor interruption or abnormal voltage of the supply, or any damage resulting from the restoration of service, if such failure, interruption, abnormal voltage, or damage is without willful default on its part.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

M.D.T.E. No. 80

Cancels

M.D.P.U. No. 72

Page 3 of 4

10. The Department shall not be liable for damage to the person or property of the Customer or any other person resulting from the use of electricity or the presence of the Department's apparatus and equipment on the Customer's premises.
11. Whenever the estimated expenditures for providing service, including but not limited to lines, apparatus and equipment, to properly supply electric service to the Customer shall exceed the projected annual revenue to be derived from said new service then, and in that event, the South Hadley Electric Light Department shall require the Customer to pay for said expenditures by either of the following methods, at the discretion of the Department:
 1. Lump sum payment at completion of installation work reimbursing the Department for said expenditures,
 2. Expenditures paid by Customer over a one-year period in twelve (12) equal monthly installments,
 3. Other methods at discretion of the Department

Said payments shall be in addition to any payments for electricity at applicable rates.

12. The Department shall not be required to furnish electricity as a stand-by or to supplement electricity for a Customer's source of electricity supply other than hydro-generation.
13. No three-phase electric service shall be supplied by the Department unless electric load plans by a Registered Professional Engineer are submitted to the South Hadley Light Department and Wire Inspector and approved by said Electric Department.
14. In the case of three-phase service, where the building owner wishes the Department to supply a padmounted transformer with underground primary supply, the owner or contractor shall provide and install the foundation for the transformer and a concrete enclosed duct bank to the Department specifications with handholes if required for pulling and connections, all secondary voltage service cables and terminal fittings, meter troughs for self-contained meters, all as required by the Department, all permits and notices required by law for trenching; and will reimburse the Department for all costs in excess of its standard average installed costs for aerial service and pole-mounted transformers. The Department shall purchase and install (with Customer assistance if required) the padmounted transformer, underground primary cable and its termination, the meter(s) and instrument transformers, test switches and meter cabinets where required, primary voltage lightning arresters at riser pole, additional poles if required – all of which, except the first on private property, shall be reimbursed to the Department by the contractor.
15. Temporary service connections for new building construction purposes will be subject to a service charge covering the actual cost of installation and removal. Service supplied will be billed under the Temporary General Service – Schedule T-1. Utility-type construction

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

M.D.T.E. No. 80

Cancels

M.D.P.U. No. 72

Page 4 of 4

and wiring will not be supplied by the Department for fairs, carnivals, and other private property work.

16. The South Hadley Electric Light Department shall not be liable for, or in any way in respect of, any interruption, abnormal voltage, discontinuance or reversal of its service, due to causes beyond its immediate control whether by accident, labor difficulties, conditions of fuel supply, the attitude of any public authority, reduction in voltage, rotating of its feeders, selected blackouts, or failure to receive any electricity for which in any manner it has contracted, or due to the operation in accordance with good utility practice of any emergency bad reduction program by the South Hadley Electric Light Department or one with whom it has contracted for the supply of electricity or inability for any good reason to maintain uninterrupted and continuous service; provided, however, that if the South Hadley Electric Light Department is unable for any of the causes enumerated above to supply electricity for a continued period of two (2) days or more, then upon request of the Customer, the demand charge, if any, shall be pro-rated for the number of days of such inability as it relates to the number of days in the billing month.
17. The South Hadley Electric Light Department reserves the right to withhold and/or remove electric service to loads, which adversely affect the supply to other customers. Loads that produce harmonic distortion, voltage fluctuations, noise or low power factor, are examples of loads that are potentially detrimental.
18. The Customer shall, at all times, take and use energy in such a manner that the load will be balanced between phases to within 10%. The Department reserves the right to require the Customer to make necessary changes at his expense to correct the unbalanced condition.
19. All such policies and regulations shall be consistent with the General Laws of the Commonwealth of Massachusetts, Chapter 164 in particular, and other applicable regulations and orders of the Massachusetts Department of Telecommunications and Energy.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

RESIDENTIAL SERVICE SCHEDULE R1

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department. No energy to be resold.
2. **APPLICABILITY:**
This rate is applicable to single and multiple occupancy residential customers; including individual homes, apartments, and residential occupancies. This rate will include the customer's entire requirement of electricity as measured by one meter.
3. **CHARACTER OF SERVICE:**
A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts
4. **BASE RATE (Applied Monthly):**

<u>Delivery Services</u>		
Customer Charge	\$2.90	per month
Distribution Charge	\$0.02990	per kWh
Transmission Charge	\$0.00720	per kWh
Transition Charge	\$0.04020	per kWh
<u>Supplier Services</u>		
Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh
NYPA Hydropower Credit		per kWh
5. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
6. **NYPA HYDROPOWER CREDIT**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the NYPA Hydropower Credit M.D.T.E. No. 89 in effect at time of billing.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

7. **MINIMUM CHARGE:**

The Minimum Charge under this schedule is the Customer Charge plus the following charge, if applicable.

A charge of \$1.00 per installed kVA transformer capacity per billing period shall be made for each kVA in excess of 5 kVA that is required by the customer. At the option of the Department, a demand type meter may be employed to measure this requirement.

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. The bill calculated will be subject to a 10% discount on the Delivery Services for payment prior to the expiration of the Discount Period, which shall extend 14 Calendar days from Date of Billing. The discount is not applicable to Supplier Services or to the Transition Adjustment Charge. The Minimum Charge, as defined under this schedule, shall be applicable at all times.

9. **SPECIAL CONDITIONS:**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provisions thereof.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

SMALL GENERAL SERVICE SCHEDULE GC1

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department. No energy to be resold.
2. **APPLICABILITY:**
This rate is applicable to the entire service requirement for electricity at a single metering location of any customer subject to the provisions of this section. Service under this rate schedule is available for any purpose, including commercial, municipal, and educational applications, having a monthly usage of less than 10,000 kWh and demand of less than 200 kW.
3. **CHARACTER OF SERVICE:**
A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts or
Three Phase – 208, 480 Volts
4. **BASE RATE (Applied Monthly):**

<u>Delivery Services</u>		
Customer Charge	\$7.00	per month
Distribution Charge	\$0.01867	per kWh
Transmission Charge	\$0.00410	per kWh
Transition Charge	\$0.05200	per kWh
<u>Supplier Services</u>		
Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh
5. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
6. **MINIMUM CHARGE:**
The minimum charge under this schedule is the Customer Charge.
7. **DETERMINATION OF DEMAND:**
The demand shall be determined by suitable instruments and shall be the highest 15 minute peak occurring during the month as measured in kilowatts.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

LARGE GENERAL SERVICE SCHEDULE LGS

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department. No energy to be resold.
2. **APPLICABILITY:**
This rate is applicable to the entire service requirement for electricity at a single metering location of any customer subject to the provisions of this section. A customer will be served under this rate if the customer's average monthly billing demand exceeds 200 kW. A customer may be transferred from this rate if the customer's 12-month average monthly demand is less than 180 kW of demand for 3 consecutive months.
3. **CHARACTER OF SERVICE:**
A.C.; 60 Hertz; Three Phase – 208, 480, 4,160, 13,800 Volts where available.
4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$650.00	per month
Distribution Demand Charge	\$3.41	per kW
Distribution Energy Charge	\$0.00514	per kWh
Transmission Demand Charge	\$1.59	per kW
Transition Demand Charge	\$2.50	per kW
Transition Energy Charge	\$0.02600	per kWh

Supplier Services

Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
6. **MINIMUM CHARGE:**
The Minimum Charge under this schedule is the Customer Charge.
7. **DETERMINATION OF DEMAND:**
The demand shall be determined by suitable instruments and shall be the greater of:
 - (A) the highest 15-minute peak occurring during the month as measured in kilowatts or;

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

- (B) 90% of the highest 15-minute peak occurring during the month as measured in kilovolt-amperes

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

When the Department must install special transformers or other equipment to provide service for welding loads, or other highly fluctuating loads, the Department shall have the option of measuring the kilowatts and the kilovolt-amperes required by instantaneous meters and 50% of the values so found shall be used in determining the kilowatts and kilovolt-amperes used for billing.

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of the rate schedule where not inconsistent with any specific provisions hereof.

10. **SPECIAL TRANSFORMER FACILITIES:**

The Department normally provides and meters service at one voltage. When additional voltages are required, the Department, at its option, may provide, in addition to the primary voltage, a maximum of two (2) secondary voltages at the same location, and the customer will be metered at the primary voltage.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

TRANSITION ADJUSTMENT CHARGE

When stated in the electric rate schedule, there shall be included a Transition Adjustment Charge, in addition to the other charge, representative of the purchased power charges paid by the Department.

The Transition Adjustment Charge rate per Kilowatt Hour shall be computed by utilizing the total cost of purchased power paid by the Department to its suppliers for the period, adjusted for previous period's recovery, divided by the total Kilowatt Hours of energy anticipated to be billed by the Department for the period. The Transition Adjustment Charge rate shall be calculated to the nearest thousandth of a cent (\$.00001) in the following manner:

- A Total Purchased Power cost including NEPOOL interchange charge to Accounts 555, 556, 557 and 565 (*) for the period plus the NYPA savings calculated pursuant to M.D.T.E. No. 89, all divided by:
- B Estimated kWhs to be sold during the period will be compared to:
- C Base period cost of purchased power per kWh sold, amounting to 0.0413 per kWh sold minus
- D The Generation Charge in effect at the time.

The difference between the base cost and the annual cost per kWh estimated to be sold will be applied in the billing period. The Transition Adjustment Charge will be calculated as follows:

$$TAC = [A/B] - [C+D]$$

This calculation will normally be made on a quarterly basis and a single Transition Adjustment Charge billed for the entire quarter, although the Department may change the Transition Adjustment Charge more frequently if such changes are required.

- (*) An adjustment to the purchased power cost shall be made to reflect the difference between estimated and actual purchased power costs and kWh sold in the prior period in order to recover or credit any under collection or over collection of purchased power charges.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

GENERAL SERVICE DEMAND SCHEDULE GSD

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department. No energy to be resold.
2. **APPLICABILITY:**
This rate is applicable to the entire service requirement for electricity at a single metering location of any customer subject to the provisions of this section. A customer will be served under this rate if the customer's average monthly usage exceeds 10,000 kWh, but average monthly billing demand does not exceed 200 kW. A customer may be transferred from this rate if the customer's 12-month average monthly usage for 3 consecutive months is (a) less than 8,000 kWh/month, or (b) greater than 200 kW of demand.
3. **CHARACTER OF SERVICE:**
A.C.; 60 Hertz; Three-Phase power at 208, 480 Volts.
4. **BASE RATE (Applied Monthly):**

<u>Delivery Services</u>		
Customer Charge	\$40.00	per month
Distribution Demand Charge	\$4.61	per kW
Distribution Energy Charge	\$0.01649	per kWh
Transmission Demand Charge	\$1.82	per kW
Transition Energy Charge	\$0.03500	per kWh
<u>Supplier Services</u>		
Generation Charge	\$0.05400	per kWh
Transition Adjustment Charge		per kWh
5. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
6. **MINIMUM CHARGE:**
The minimum charge under this schedule is the Customer Charge.
7. **DETERMINATION OF DEMAND:**
The demand shall be determined by suitable instruments and shall be the highest 15 minute peak occurring during the month as measured in kilowatts.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

When the Department must install special transformers or other equipment to provide service for welding loads, or other highly fluctuating loads, the Department shall have the option of measuring the kilowatts and the kilovolt-amperes required by instantaneous meters and 50% of the values so found shall be used in determining the kilowatts and kilovolt-amperes used for billing.

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of the rate schedule where not inconsistent with any specific provisions hereof.

10. **SPECIAL TRANSFORMER FACILITIES:**

The Department normally provides and meters service at one voltage. When additional voltages are required, the Department, at its option, may provide, in addition to the primary voltage, a maximum of two (2) secondary voltages at the same location, and the customer will be metered at the primary voltage.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

SECURITY LIGHTING

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department.
2. **APPLICABILITY:**
This rate is applicable for general area lighting on Private Property only.
3. **BASE RATE (Applied Monthly):**

Fixture Type	Lumens	kWh	Monthly Rate
<u>Mercury Vapor</u>			
175 Watt	7,950	71	\$11.40
*250 Watt	11,200	99	\$15.80
*400 Watt	21,000	157	\$20.60
<u>Sodium Vapor</u>			
70 Watt	6,400	35	\$ 8.50
150 Watt	16,000	67	\$13.50
250 Watt	27,500	108	\$20.30
400 Watt	50,000	166	\$31.60

* No additional new lights of these sizes and types will be installed. These sizes and types will be replaced with similar light of sodium vapor upon failure or request.

4. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
5. **TERMS OF PAYMENT:**
Bills calculated and issued under this schedule are considered due when presented.
6. **SPECIAL CONDITIONS:**
Above rates include: Conventional type mercury or sodium vapor luminaire, map, a photoelectric control (dusk to dawn) and maintenance.

Above rates do not include: Pole(s), wire, underground supply, lighting fixture of the customer's choice, or control switch.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

TEMPRORARY GENERAL SERVICE SCHEDULE T-1

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department. No energy to be resold.
2. **APPLICABILITY:**
This rate is applicable to the entire service requirement for electricity at a single metering location of any customer, on a temporary basis, subject to the provisions of this section. Service under this rate schedule is available for the construction of buildings or structures and any location not attached to a permanent building or structure.
3. **CHARACTER OF SERVICE:**
A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts
4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$25.00	per month
Distribution Charge	\$0.02054	per kWh
Transmission Charge	\$0.00451	per kWh
Transition Charge	\$0.05720	per kWh

Supplier Services

Generation Charge	\$0.0594	per kWh
Transition Adjustment Charge		per kWh

5. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No. 88 in effect at time of billing.
6. **MINIMUM CHARGE:**
The minimum charge under this schedule is the Customer Charge, plus the following charge, if applicable.

A charge of \$1.00 per installed kVA transformer capacity per billing period shall be made for each kVA in excess of five (5) kVA that is required by the Customer. At the option of the Department, a demand type meter may be employed to measure this requirement.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

7. **INSTALLATION CHARGE:**

A fee of \$90.00 will apply to all temporary service installations not requiring temporary pole(s) or other supporting appurtenances. When requested, the Department will install and later remove a temporary pole and supporting appurtenances for use by the Customer as a temporary service structure for a total installation fee of \$150.00. All installation fees shall be payable in advance.

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. All bills, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.

9. **SPECIAL CONDITIONS:**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

May 22, 2001

DATE EFFECTIVE:

October 1, 2001

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT

RESIDENTIAL HEATING AND COOLING SCHEDULE RH

1. **AVAILABLE:**
In all areas served by the South Hadley Electric Light Department. No energy to be resold.
2. **APPLICABILITY:**
This rate is applicable to single and multiple occupancy residential customers with permanently installed electric comfort heating, having no other source of comfort heating available. This rate will include the customer's entire requirement of electricity as measured by one meter.
3. **CHARACTER OF SERVICE:**
A.C.; 60 Hertz; Single Phase – 120, 208, 240 Volts
4. **BASE RATE (Applied Monthly):**

Delivery Services

Customer Charge	\$2.90	per month
Distribution Charge	\$0.02990	per kWh
Transmission Charge	\$0.00720	per kWh
Transition Charge	\$0.04020	per kWh

Supplier Services

Generation Charge: December - April		
First 800 kWh	\$0.04400	per kWh
Over 800 kWh	\$0.02800	per kWh
Generation Charge: May – November		
First 800 kWh	\$0.05000	per kWh
Over 800 kWh	\$0.06000	per kWh

Seasonal Generation Charge shall be applied based on the month in which the bill is issued.

5. **TRANSITION ADJUSTMENT CHARGE:**
On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the Transition Adjustment Charge M.D.T.E. No.88 in effect at time of billing.

DATE ISSUED:

November 12, 2002

DATE EFFECTIVE:

December 1, 2002

6. **NYPA HYDROPOWER CREDIT**

On all consumption there shall be an adjustment (charge or credit) due to the cost of power as provided in the NYPA Hydropower Credit M.D.T.E. No. 89 in effect at time of billing.

7. **MINIMUM CHARGE:**

The Minimum Charge under this schedule is the Customer Charge plus the following charge, if applicable.

A charge of \$1.00 per installed kVA transformer capacity per billing period shall be made for each kVA in excess of 5 kVA that is required by the customer. At the option of the Department, a demand type meter may be employed to measure this requirement.

8. **TERMS OF PAYMENT:**

Bills calculated and issued under this schedule shall be considered due when presented. The bill calculated will be subject to a 10% discount on the Delivery Services for payment prior to the expiration of the Discount Period, which shall extend 14 Calendar days from Date of Billing. The discount is not applicable to Supplier Services or to the Transition Adjustment Charge. The Minimum Charge, as defined under this schedule, shall be applicable at all times.

9. **SPECIAL CONDITIONS;**

The Department's *Terms and Conditions for Electric Service* currently in effect are a part of this rate schedule, where not inconsistent with any specific provision thereof.

DATE ISSUED:

November 12, 2002

DATE EFFECTIVE:

December 1, 2002

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
TERMS AND CONDITIONS FOR ELECTRIC SERVICE**

THE FOLLOWING TERMS AND CONDITIONS ARE APPLICABLE TO AND MADE PART OF ALL RATE SCHEDULES. ANY SUCH TERMS AND CONDITIONS AS ARE INCONSISTENT WITH ANY SPECIFIC PROVISIONS OR ANY RATE SCHEDULE SHALL NOT APPLY THERETO.

- 1** The supply of electric service is contingent upon the Department's ability to secure and retain the necessary location for its poles, wires, conduit, cable and other apparatus. The character of service, to be made available at each location, will be determined by the Department and information relative thereto will be furnished by the Department on request. In general, the standard voltage supplied will be One Hundred Twenty – Two Hundred Forty (120/240) volts, single phase. Contact the Department to determine the availability of other voltages and characteristics.
- 2** Such wiring and other electrical equipment and apparatus as may be necessary in order to utilize the service shall be provided, installed, maintained, and used by the Customer in accordance with the requirements, if any, of the National Electric Code, and of all public authorities having jurisdiction of the same and the requirements of the Department. In general, the Department will not provide service until the Customer's wiring has been inspected and approved for energization by the Authority having Jurisdiction. The Department's *Information and Requirements for Electric Service* will be furnished upon request.
- 3** In general, all customers shall be served from one service location and one meter. Apartment buildings shall be served through one service, one building service meter, and individual meter(s) for each occupancy. In the case of more than one building in an apartment complex, each building service meter shall be considered an individual and separate account and will be billed separately.
- 4** All bills shall be due and payable upon presentation and shall be rendered monthly; however, the Department reserves the right to read meters and render bills on a bi-monthly basis. All bills of non-residential accounts, not paid within 45 days from the date of billing, shall bear interest at 1.5% per month on the unpaid balance from the date thereof until the date of payment.
- 5** The Department may discontinue its supply and remove its property from the premises in case the Customer fails to pay any bill due the Department for such service, after due notice thereof to the Customer, or fails to maintain his service equipment in a safe manner, or to perform any of his obligations to the Department. After such discontinuance, a reconnection fee will be charged to the Customer by the Department for restoration of service.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
TERMS AND CONDITIONS FOR ELECTRIC SERVICE**

- 6 For the purpose of determining the amount of electricity delivered, meters shall be installed by the Department at locations to be designated by the Department. The Department, may at any time, change any of its meters.
- 7 The Customer shall furnish without charge, suitable locations and enclosures upon his premises for such lines, transformers, meters, and other apparatus and equipment as the Department may install for the purpose of supplying service. The Department shall have the right of access, at reasonable times, to the premises of the Customer for the purpose of installing, reading, inspecting, testing, and keeping in repair the apparatus and equipment of the Department, or for discontinuing service or for removing any or all of its apparatus and equipment or for the purpose of obtaining the necessary information for the proper application of the rate or rates under which service is supplied.
- 8 The Customer shall not injure, interfere, destroy or tamper with the meter or other property of the Department nor suffer or permit any person to do so. The Customer shall use all reasonable precautions to protect the property of the Department located on the premises of the Customer from damage and interference and shall be responsible for all damages to, or loss of, such property of the Department. The Customer shall so maintain and operate its electric equipment and apparatus as not to endanger or interfere with the service of the Department. Electric meters are the property of the Department. No one but authorized Department personnel shall cut and open the Department seal on a meter, remove and install a meter, install jumper pieces or other bypassing devices, remove or install sleeves, change the meter registration, or tamper in any way with the electric meter. Meters damaged accidentally or otherwise will be replaced at the expense of the property owner where the meter is located. When a meter is found to be tampered with, service to that meter will be disconnected. To have service restored, the responsible party must first pay a \$45.00 reconnection fee, payable in cash at the Department Office. All violations will be reported to the Police Department for legal prosecution. In addition to the fee for tampering, a deposit will be required, which will be equivalent to three month's normal consumption on the premises in question. Service will be reconnected 24 hours after payment of the preceding fee and deposit, if the matter has been resolved to the satisfaction of the Department.
- 9 Whenever the integrity of the supply of electric service may be threatened by the conditions on the Department's system or on a part or parts of the transmission and/or distribution system with which the Department is interconnected, the Department, in its sole judgment, may curtail or interrupt electrical service to the Customer and such curtailment or interruption shall not constitute willful default by the Department. The Department shall not be responsible for any failure to supply electric service nor interruption or abnormal voltage of the supply, or any damage resulting from the restoration of service, if such failure, interruption, abnormal voltage, or damage is without willful default on its part.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
TERMS AND CONDITIONS FOR ELECTRIC SERVICE**

- 10** The Department shall not be liable for damage to the person or property of the Customer or any other person resulting from the use of electricity or the presence of the Department's apparatus and equipment on the Customer's premises.
- 11** The Department shall not be required to furnish electricity as a stand-by or to supplement electricity for a Customer's source of electricity supply.
- 12** Costs and requirements for services and line extensions are listed in the Department's *Information and Requirements for Electric Service* publication. If any payments are due, a lump sum payment must be received prior to construction, or any other method mutually agreed upon.
- 13** Temporary service connections for new building construction purposes will be subject to a service charge covering the actual cost of installation and removal. Service supplied will be billed under the Temporary General Service (TS) rate schedule.
- 14** The South Hadley Electric Light Department shall not be liable for, or in any way in respect of, any interruption, abnormal voltage, discontinuance or reversal of its service, due to causes beyond its immediate control whether by accident, labor difficulties, conditions of fuel supply, the action of any public authority, reduction in voltage, rotating of its feeders, selected blackouts, or failure to receive any electricity for which in any manner it has contracted, or due to the operation in accordance with good utility practice of any emergency load reduction program by the South Hadley Electric Light Department or one with whom it has contracted for the supply of electricity or inability for any good reason to maintain uninterrupted and continuous service; provided, however, that if the South Hadley Electric Light Department is unable for any of the causes enumerated above to supply electricity for a continued period of two (2) days or more, then upon request of the Customer, the demand charge, if any, shall be pro-rated for the number of days of such inability as it relates to the number of days in the billing month.
- 15** The South Hadley Electric Light Department reserves the right to withhold and/or remove electric service to loads, which adversely affect the supply to other customers. Loads that produce harmonic distortion, voltage fluctuations, noise or low power factor, are examples of loads that are potentially detrimental.
- 16** The Customer shall, at all times, take and use energy in such a manner that the load will be balanced between phases to within 10%. The Department reserves the right to require the Customer to make necessary changes at his expense to correct the unbalanced

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
TERMS AND CONDITIONS FOR ELECTRIC SERVICE**

- 17** The Department reserves the right to disconnect electric service at any time without notice, or to refuse to connect electric service, if to its knowledge or its judgement, the Customer's installation is unsafe or defective or will become unsafe imminently. Electric service may not be resumed until the local wiring inspector approved the installation.
- 18** All such policies and regulations shall be consistent with the General Laws of the Commonwealth of Massachusetts, Chapter 164 in particular, and other applicable regulations and orders of the Massachusetts Department of Telecommunications and Energy.

MDPU # 101

Replaces MDTE # 83

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
RESIDENTIAL SERVICE**

Page 1 of 1

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable to all single and multiple occupancy residential customers.

3 CHARACTER OF SERVICE

A.C.; 60 Hertz; Single Phase - 120, 208, 240 Volts

4 MONTHLY RATE**Power Supply Services**

Power Consumption Charge	\$ 0.08929	per kWh
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Delivery Services

Distribution Charge	\$ 0.04179	per kWh
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Customer Charge	\$ 5.00	per month
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5 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

6 HYDRO POWER CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Hydro Power Adjustment Clause in effect from time to time.

7 DISTRIBUTIVE GENERATION CREDIT

There shall be an adjustment in rate due to distributive power generation as provided in the Department's Distributive Generation Clause in effect from time to time.

8 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

9 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. Payments received within fourteen days of the billing date are eligible for a 6% discount on power consumption, distribution, and customer base rate charges. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

MDPU # 102

Replaces MDTE # 93

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
RESIDENTIAL SPACE HEATING SERVICE**

Page 1 of 2

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable to all single and multiple occupancy residential customers with permanently installed electric comfort heating, having no other source of comfort heating available.

3 CHARACTER OF SERVICE

A.C.; 60 Hertz; Single Phase - 120, 208, 240 Volts

4 MONTHLY RATE**Power Supply Services**

Power Consumption Charge (December - April)

First 800 kWh	\$ 0.07929	per kWh
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Over 800 kWh	\$ 0.06929	per kWh
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Power Consumption Charge (May - November)

First 800 kWh	\$ 0.08889	per kWh
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Over 800 kWh	\$ 0.09989	per kWh
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Delivery Services

Distribution Charge	\$ 0.04016	per kWh
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Customer Charge	\$ 5.00	per month
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5 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

6 HYDRO POWER CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Hydro Power Adjustment Clause in effect from time to time.

7 DISTRIBUTIVE GENERATION CREDIT

There shall be an adjustment in rate due to distributive power generation as provided in the Department's Distributive Generation Clause in effect from time to time.

8 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

MDPU # 102

Replaces MDTE # 93

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
RESIDENTIAL SPACE HEATING SERVICE**

Page 2 of 2

9 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. Payments received within fourteen days of the billing date are eligible for a 6% discount on power consumption, distribution, and customer base rate charges. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

MDPU # 103

Replaces MDTE # 86

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
SMALL GENERAL SERVICE**

Page 1 of 1

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable for any purpose having monthly usage of less than 10,000 kWh and monthly demand of less than 200 kW. If usage or demand exceed these limits in any month, the customer will be moved to the GDS or LGS rates for the following twelve months.

3 CHARACTER OF SERVICE

A.C.; 60 Hertz; Single Phase - 120, 208, 240 Volts or Three Phase - 208, 480 Volts

4 MONTHLY RATE**Power Supply Services**

Power Consumption Charge	\$ 0.09450	per kWh
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Delivery Services

Distribution Charge	\$ 0.03486	per kWh
Customer Charge	\$ 10.00	per month

5 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

6 DISTRIBUTIVE GENERATION CREDIT

There shall be an adjustment in rate due to distributive power generation as provided in the Department's Distributive Generation Clause in effect from time to time.

7 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

8 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. All bills not paid within forty five days of billing shall bear interest at 1.5% per month on the unpaid balance from the date thereof until paid. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

MDPU # 104

Replaces MDTE # 90

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
GENERAL DEMAND SERVICE**

Page 1 of 1

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable for any purpose having monthly usage of greater than 10,000 kWh and monthly demand of less than 200 kW in any month during the preceding twelve months. If demand exceed this limit in any month, the customer will be moved to the LGS rate for the following twelve months.

3 CHARACTER OF SERVICE

A.C.; 60 Hertz; Three Phase - 208, 480 Volts

4 MONTHLY RATE**Power Supply Services**

Power Consumption Charge	\$ 0.07105	per kWh
Power Demand Charge	\$ 8.00	per kW

Delivery Services

Distribution Charge	\$ 0.03190	per kWh
Customer Charge	\$ 50.00	per month

5 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

6 DISTRIBUTIVE GENERATION CREDIT

There shall be an adjustment in rate due to distributive power generation as provided in the Department's Distributive Generation Clause in effect from time to time.

7 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

8 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. All bills not paid within forty five days of billing shall bear interest at 1.5% per month on the unpaid balance from the date thereof until paid. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

MDPU # 105

Replaces MDTE # 87

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
LARGE GENERAL SERVICE**

Page 1 of 1

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department.

2 APPLICABILITY

Service under this rate is applicable for any purpose having monthly demand of greater than 200 kW in any month during the preceding twelve months.

3 CHARACTER OF SERVICE

A.C.; 60 Hertz; Three Phase - 208, 480, 13,800 Volts where available

4 MONTHLY RATE**Power Supply Services**

Power Consumption Charge	\$ 0.05997	per kWh
Power Demand Charge	\$ 9.00	per kW

Delivery Services

Distribution Charge	\$ 0.02392	per kWh
Customer Charge	\$ 650.00	per month

5 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

6 DISTRIBUTIVE GENERATION CREDIT

There shall be an adjustment in rate due to distributive power generation as provided in the Department's Distribution Generation Clause in effect from time to time.

7 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

8 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. All bills not paid within forty five days of billing shall bear interest at 1.5% per month on the unpaid balance from the date thereof until paid. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

MDPU # 106

Replaces MDTE # 92

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
TEMPORARY GENERAL SERVICE**

Page 1 of 1

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable to construction of buildings or structures and any location not attached to a permanent building or structure on a temporary basis.

3 CHARACTER OF SERVICE

A.C.; 60 Hertz; Single Phase - 120, 208, 240 Volts

4 MONTHLY RATE**Power Supply Services**

Power Consumption Charge	\$ 0.10593	per kWh
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Delivery Services

Distribution Charge	\$ 0.04179	per kWh
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Customer Charge	\$ 50.00	per month
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5 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

6 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

7 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. All bills not paid within forty five days of billing shall bear interest at 1.5% per month on the unpaid balance from the date thereof until paid. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
STREET LIGHTING****1 AVAILABILITY**

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable to all municipal street lighting and unmetered traffic signals.

3 MONTHLY RATE

The monthly energy consumption billed for street lighting consists of multiple street lights, unmetered traffic signals, and decorative street lighting. The kWh contribution of each of the components represent the monthly total of kWh consumption billed at the applicable \$/kWh rate which is determined for each annual period from July through June of the following year per Massachusetts General Laws Chapter 164, section 58.

Other monthly charges billed to the Town, include, but are not limited to the following: activation / deactivation charges, maintenance charges, and capital recovery charges.

4 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

MDPU # 108

Replaces MDTE # 91

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
SECURITY LIGHTING**

Page 1 of 2

1 AVAILABILITY

Available in all areas served by the South Hadley Electric Light Department

2 APPLICABILITY

Service under this rate is applicable for general area lighting on private property only.

3 MONTHLY RATE

Fixture Type	Lumens	kWh	Rate
Mercury Vapor			
175 Watt	7,950	71	\$ 11.40
*250 Watt	11,200	99	\$ 15.80
*400 Watt	21,200	157	\$ 20.60
Sodium Vapor			
70 Watt	6,400	35	\$ 8.50
150 Watt	16,000	67	\$ 13.50
250 Watt	27,500	108	\$ 20.30
400 Watt	50,000	166	\$ 31.60
LED			
39 Watt	4,850	14	\$ 8.50
60 Watt - Flood	7,726	21	\$ 13.50
90 Watt	11,260	32	\$ 20.30
124 Watt - Flood	14,864	43	\$ 31.60

* No additional lights of these sizes and types will be installed . These size and types will be replaced with LED of similar light upon failure or request.

Above rates include conventional luminaire, lamp, photoelectric control and maintenance. Above rates do not include poles, wires, underground supply, lighting fixture of the customers choice, or control switch.

4 POWER ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of power as provided in the Department's Power Adjustment Clause in effect from time to time.

5 DISTRIBUTION ADJUSTMENT CHARGE / CREDIT

There shall be an adjustment in rate due to changes in the cost of distribution as provided in the Department's Distribution Adjustment Clause in effect from time to time.

MDPU # 108

Replaces MDTE # 91

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
SECURITY LIGHTING**

Page 2 of 2

6 TERMS AND CONDITIONS

This rate is subject to termination at any time upon notice to the Department. Bills are considered due when presented. All bills not paid within forty five days of billing shall bear interest at 1.5% per month on the unpaid balance from the date thereof until paid. The Department's Terms and Conditions for Electric Service are a part of this rate schedule.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
POWER ADJUSTMENT CHARGE / CREDIT**

1 APPLICABILITY

A power adjustment charge / credit shall be applied to each rate schedule in which reference to such adjustment is incorporated.

2 DETERMINATION

The Power Supply Services charge set forth in each applicable rate schedule and contract of the Department shall be increased or decreased by the Power Adjustment Charge / Credit (PAC) calculated for each rate schedule on a per kWh basis calculated to the nearest thousandth of a cent (\$.00001) by the following formula:

$$\text{PAC} = [(P / S) + \text{RS}] - B$$

PAC = Power Adjustment Charge / Credit

P = Estimated Cost of Power Sold including NEPOOL interchange charge to Accounts 555, 556, 557 and 565 (*) for the period plus the NYPA savings calculated pursuant to effective rate schedule

S = Estimated kWh to be sold during the period

RS = Rate Stabilization Fund contribution

B = Base period cost of power sold recovered by the Departments base rates, expressed as an amount per kWh sold

The difference between the base cost and the annual cost per kWh estimated to be sold will be applied in the billing period.

This calculation will normally be made on a quarterly basis and a single Power Adjustment Charge / Credit billed for the entire quarter, although the Department may change the Power Adjustment Charge / Credit more frequently if such changes are required.

(*) An adjustment to the cost of power sold shall be made to reflect the difference between estimated and actual cost of power sold and kWh sold in the prior period in order to recover or credit any under collection or over collection of the power adjustment charge / credit.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
NYPA HYDROPOWER CREDIT**

1 APPLICABILITY

A NYPA Hydropower Credit shall be applied to each rate schedule in which reference to such adjustment is incorporated.

2 DETERMINATION

The NYPA Hydropower Credit set forth in each applicable rate schedule of the Department shall be calculated on a per kWh basis calculated to the nearest thousandth of a cent (\$.00001) by the following formula:

$$\text{NYPA} = [(\text{GC} - (\text{NC} / \text{NK})) \times \text{NK}] / \text{RK}$$

NYPA = NYPA Hydropower Credit

GC = The Generation Charge in effect for the period

NC = The total forecasted cost of hydropower purchased from the New York Power Authority for the period

NK = The total forecasted kWh purchased from the New York Power Authority for the period

RK = The total estimated number of kWh to which the NYPA Hydropower Credit will be applied for the period

This calculation will normally be made on a quarterly basis and a single NYPA Hydropower Credit billed for the entire quarter, although the Department may change the NYPA Hydropower Credit more frequently if such changes are required.

- (*) An adjustment to the NYPA Hydropower Credit shall be made to reflect the difference between estimated and actual cost of hydropower purchased and the estimated and actual kWh sold in the prior period in order to recover or credit any under collection or over collection of the NYPA

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
DISTRIBUTION ADJUSTMENT CHARGE / CREDIT**

1 APPLICABILITY

A distribution adjustment charge / credit shall be applied to each rate schedule in which reference to such adjustment is incorporated.

2 DETERMINATION

The Delivery Services charge set forth in each applicable rate schedule and contract of the Department shall be increased or decreased by the Distribution Adjustment Charge / Credit (DAC) calculated for each rate schedule on a per kWh basis calculated to the nearest thousandth of a cent (\$.00001) by the following formula:

$$\text{DAC} = [(E - I) / S] - B$$

DAC = Distribution Adjustment Charge / Credit

E = Total estimated operating and nonoperating costs charged to accounts including, but not limited to, 580 through 920, 403, 435 (*) for the period plus a return on plant assets

I = Total estimated other income charged to accounts including, but not limited to, 415 through 432 for the period.

S = Estimated kWh to be sold during the period

B = Base period operating and nonoperating costs (E) recovered by the Departments base rates, expressed as an amount per kWh sold

The difference between the base cost and the annual cost per kWh estimated to be sold will be applied in the billing period.

This calculation will normally be made on a quarterly basis and a single Distribution Adjustment Charge / Credit billed for the entire quarter, although the Department may change the Distribution Adjustment Charge / Credit more frequently if such changes are required.

(*) An adjustment to the total operating and non operating costs shall be made to reflect the difference between estimated and actual costs in the prior period in order to recover or credit any under collection or over collection of the distribution adjustment charge / credit.

SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT DISTRIBUTIVE GENERATION RIDER

1 AVAILABILITY

The rider is available and applicable to any customer receiving service under Residential Service schedule (RS), Residential Space Heating Service schedule (RSHS), Small General Service schedule (SGS), General Demand Service (GDS) schedule, and Large General Service schedule (LGS) that has an on-site solar photovoltaic system interconnected with the South Hadley Electric Light Department (SHELD) distribution system behind the master meter in compliance with the current interconnection policy and operated under an approved Interconnection Agreement executed after May 28, 2018.

2 MONTHLY RATE

The Monthly Rate is in addition to all other charges contained in the Customer's applicable rate schedule, with adjustments to the charges in the Customer's applicable tariff schedule as set forth in the table below:

Power Supply Services

Distributive Generation Credit	\$	-	per kWh
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Delivery Service

DG Metering Charge	\$	6.00	per month
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For schedules RS and RSHS, billable kilowatt-hours (kWh) shall be based on metered energy delivered by SHELD's electric distribution system. Credit kilowatt-hours (kWh) shall be based on metered energy received by SHELD's distribution system. All non-kWh based charges under the rate schedules shall remain unaffected by the application of this rider.

For schedules SGS, GDS, and LGS, billable kilowatt-hour (kWh) shall be based on metered energy delivered by SHELD's electric distribution system and the metered energy consumed from an on-site solar system: also known as the total metered energy consumption during the billing month. Credit kilowatt-hours (kWh) shall be based on the total metered output of the customers photovoltaic system. All non-kWh based charges under the rate schedule shall remain unaffected by the application of this rider.

For each billing month, the customer shall receive a non-transferable credit. Credits are applicable to the customer's total charges electric service in the customer's name on the same premise and account where the on-site solar photovoltaic system is interconnected. Any credit in excess of total monthly charges will be carried over to the following billing month. Any credit not used within twelve month of its origination will expire. No credits will be refunded to the customer.

The Distributive Generation Credit is reviewed and reset periodically based on SHELD's actual avoided cost determination for value of solar, typically determined on a quarterly basis.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
ECONOMIC DEVELOPMENT RIDER****1 AVAILABILITY**

The rider is available to any customer receiving service under Large General Service (LGS) and is applicable to the total load of a new customer or the incremental load of an expansion customer.

2 QUALIFICATIONS

The customer must qualify as either a new or expansion customer and:

- 1 Demonstrate to SHELD's satisfaction that it has an economically viable opportunity to locate or expand outside the Department's service area.
- 2 Demonstrate to SHELD's satisfaction that the discounts provided by this Rider, either alone *or* in conjunction with concessions from the State and/or Town of South Hadley, are sufficient to cause the customer to locate or add the incremental load within the
- 3 In the case of new customers, create a minimum of 12 jobs.
- 4 Require an average energy level of at least 150,000 kWh per month and, in the case of an expansion customer, increase load by at least 10% of the demand level established in the base period.

3 DEFINITIONS

- 1 A new customer is a future consumer that has not been a customer of SHELD in any of the past 12 months preceding application for service under this rider. An existing facility will not be considered a new customer's location unless the facility has been vacant for a period of 2 years.
- 2 An expansion customer is a current LGS service recipient that has received full requirements from SHELD in the past 12 months.
- 3 The incremental load of a new customer is the total load. The incremental load of an expansion customer is the portion of the customer's total load, in kWh, that exceeds the customer's total load during the base period.
- 4 The base period is the twelve-month period immediately preceding the month in which an expansion customer becomes eligible for billing under this rider, or a 12-month period that SHELD determines reflects the customer's base level of usage.

4 CONDITIONS

- 1 The customer shall purchase its total electric requirements from SHELD.
- 2 The customer must demonstrate to SHELD's satisfaction that it brings a benefit to the Town of South Hadley via increased employment, taxes, etc.
- 3 The expansion customer's electric energy (kWh) usage for each month must exceed by at least 10%, the energy usage in the comparable month of the base period.
- 4 The Department will remove an expansion customer from the rider if, in 3 consecutive months, its kilowatt-hour energy usage is less than 10% greater than its energy usage in the corresponding months of the base period.

**SOUTH HADLEY ELECTRIC LIGHT DEPARTMENT
ECONOMIC DEVELOPMENT RIDER**

5 BASE MONTHLY CHARGE

- 1** The customer's monthly demand, energy and customer charges shall be determined in accordance with the LGS rate schedule.
- 2** The customer will be billed a Transition Adjustment Charge as it applies to all other customers.

6 MONTHLY DISCOUNT

The discount percentage will be applied to the customer's total bill for the services provided under the LGS schedule as follows:

Year 1 – 20%, Year 2 – 15%, Year 3- 10%, Year 4 – 5%, Year 5 – 0%

7 SECURITY DEPOSIT / PAYMENT OPTION

In lieu of the customary security deposit, customers will be allowed to enter into an ACH Agreement whereby amounts due for electric service are deducted directly from your bank account at the time of billing. The Department may discontinue its supply and remove its property from the customers' premises should such ACH payment fail to occur.

8 TERMS OF AGREEMENT

- 1** The Rider Discount Period is 4 years, with a contract commitment of 5 years.
- 2** If the customer terminates service or reduces electric load below the minimum requirements before the completion of 5 years, SHELD has a right to recover the discounted amounts.