

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE**  
**CALCULATION OF STEP ADJUSTMENT #1 (EXCLUDES NEW BUSINESS)**

Line	Description	(effective 1/1/21)		Reference
		Year-Ending 12/31/2018 (A)	Year-Ending 12/31/2019 (B)	
1	Total Utility Plant in Service	\$ 2,171,045,400	\$ 2,251,194,489	Attachment ELM/EAD-1, Page 2, Line 1
2	Accumulated Provision for Depreciation	<u>602,426,195</u>	<u>610,587,812</u>	Attachment ELM/EAD-1, Page 2, Line 2
3	Net Utility Plant	<u>1,568,619,205</u>	<u>1,640,606,677</u>	Line 1 - Line 2
4	Gross Plant Change		80,149,089	Line 1 Col. (B) - Line 1 Col. (A)
5	Net Plant Change (year over year)		71,987,472	Line 3 Col. (B) - Line 3 Col. (A)
6	Rate of Return		6.87%	Attachment ELM/EAD-1, Page 3, Line 11
7	Gross Revenue Conversion Factor		<u>1.37142</u>	Attachment ELM/EAD-1, Page 4, Line 7
8	Return		6,781,732	Line 5 x Line 6 x Line 7
9	Depreciation Rate		3.15%	Attachment ELM/EAD-1, Page 5, Line 71
10	Depreciation		2,267,605	Line 5 x Line 9
11	Property Tax Rate		2.00%	Attachment ELM/EAD-1, Page 6, Line 3
12	Property Taxes		1,601,305	Line 4 x Line 11
13	Total Revenue Requirement		<u>\$ 10,650,642</u>	Line 8 + Line 10 + Line 12
14	Step 1 Revenue Requirement Cap per Settlement Agreement		\$ 11,000,000	
15	<b>Step 1 Revenue Increase (\$000s)</b>		<u>\$ 10,651</u>	Line 13/1000

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
DISTRIBUTION PLANT**

Line	Description	Year-Ending 12/31/2018 (A)	Year-Ending 12/31/2019 (B)	Reference
1	Total Utility Plant In Service	\$ 2,171,045,400	\$ 2,251,194,489	FERC Form 1 adj to excl New Business
2	Accumulated Provision for Depreciation	602,426,195	610,587,812	FERC Form 1 adj to excl New Business
3	Net Utility Plant	<u>1,568,619,205</u>	<u>1,640,606,677</u>	Line 1 - Line 2
4	Gross Distribution Plant Change (year over year)		<u>80,149,089</u>	Line 1 Col. (B) - Line 1 Col. (A)
5	Net Distribution Plant Change (year over year)		<u>71,987,472</u>	Line 3 Col. (B) - Line 3 Col. (A)
6	Beginning Plant Balance		2,171,045,400	Line 9 Col. (A)
7	Additions (excluding New Business)		125,203,458	FERC Form 1 adj to excl New Business
8	Retirements (excluding New Business)		(45,054,369)	FERC Form 1 adj to excl New Business
9	Ending Plant Balance	<u>\$ 2,171,045,400</u>	<u>\$ 2,251,194,489</u>	Line 6 + Line 7 + Line 8

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
COST OF CAPITAL**

Line	Description	Fixed Percentage (A)	Cost (B)	Rate of Return (C) = (A) x (B)	Reference
1					
2					
3	Short-Term Debt	2.44%	2.07%	0.05%	
4	Long-term Debt	43.15%	4.08%	1.76%	
5	Common Equity	54.41%	9.30%	5.06%	
6					
7	Total Capital	100.00%		6.87%	Line 3 + Line 4 + Line 5
8	Weighted Cost of				
9	Debt			1.81%	Line 3 + Line 4
10	Equity			5.06%	Line 5
11	Cost of Capital			6.87%	Line 9 + Line 10

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
COMPUTATION OF GROSS REVENUE CONVERSION FACTOR**

Line	Description	12/31/2018	Step 1 12/31/2019	Reference
1	Operating revenue percentage	100.000%	100.000%	
2	Less: New Hampshire corporate business tax	<u>7.900%</u>	<u>7.700%</u>	
3	Operating revenue percentage after state taxes	92.100%	92.300%	Line 1 - Line 2
4	Federal income tax rate	21.000%	21.000%	
5	Federal income tax	<u>19.341%</u>	<u>19.383%</u>	Line 3 x Line 4
6	Operating income after federal income tax	<u><u>72.759%</u></u>	<u><u>72.917%</u></u>	Line 3 - Line 5
7	Gross revenue conversion factor	<u><u>137.440%</u></u>	<u><u>137.142%</u></u>	1 / Line 6

Note: Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

SUMMARY OF ESTIMATED SURVIVOR CURVES, NET SALVAGE PERCENT, ORIGINAL COST AND  
AND CALCULATED ANNUAL AND ACCRUED DEPRECIATION RELATED TO ELECTRIC PLANT AS OF DECEMBER 31, 2018  
WHOLE LIFE DEPRECIATION - AMR RECOVERY OVER 9 YEARS

LINE	PLANT ACCOUNT	DESCRIPTION	SURVIVOR CURVE	NET SALVAGE PERCENT	ORIGINAL COST AS OF DECEMBER 31, 2018	CALCULATED ANNUAL ACCRUAL AMOUNT	RATE (G)=(F)/(E)	CALCULATED ACCRUED DEPRECIATION
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1								
2								
3		<b>ELECTRIC PLANT</b>						
4								
5								
6		<b>INTANGIBLE PLANT</b>						
7	303.00	MISCELLANEOUS INTANGIBLE PLANT	5-SQ	0	18,278,819.53	1,769,835	9.68	14,600,391
8	303.00	MISCELLANEOUS INTANGIBLE PLANT - AMR	5-SQ	0	2,864,448.00	95,483 *	3.33	2,660,846
9	303.20	MISCELLANEOUS INTANGIBLE PLANT - 10 YEAR	10-SQ	0	31,771,797.33	486,807	1.53 **	28,607,554
10								
11		<b>TOTAL INTANGIBLE PLANT</b>			<b>52,915,064.86</b>	<b>2,352,125</b>	<b>4.45</b>	<b>45,868,791</b>
12								
13		<b>DISTRIBUTION PLANT</b>						
14								
15	360.20	LAND AND LAND RIGHTS	75-R4	0	4,123,039.65	54,836	1.33	2,204,822
16	361.00	STRUCTURES AND IMPROVEMENTS	75-R3	(25)	26,387,975.26	438,700	1.66	6,187,652
17	362.00	STATION EQUIPMENT	55-S0.5	(25)	303,092,439.65	6,895,353	2.28	65,238,205
18	362.10	STATION EQUIPMENT - ENERGY MANAGEMENT SYSTEM	25-R2.5	0	3,155,937.71	126,238	4.00	1,015,444
19	364.00	POLES, TOWERS AND FIXTURES	53-R0.5	(90)	303,587,829.37	10,901,646	3.59	110,737,706
20	365.00	OVERHEAD CONDUCTORS AND DEVICES	55-R1	(35)	582,095,624.35	14,302,089	2.46	154,119,837
21	366.00	UNDERGROUND CONDUIT	60-R2	(40)	38,757,668.49	906,154	2.34	9,625,266
22	367.00	UNDERGROUND CONDUCTORS AND DEVICES	54-R1.5	(40)	133,741,822.05	3,463,913	2.59	42,368,714
23	368.00	LINE TRANSFORMERS	40-S0	(2)	262,481,157.73	6,693,270	2.55	73,140,846
24	369.10	OVERHEAD SERVICES	44-R2	(125)	81,721,434.74	4,173,922	5.11	47,501,588
25	369.20	UNDERGROUND SERVICES	55-R1.5	(125)	76,631,011.71	3,138,040	4.10	32,482,673
26	370.00	METERS	18-L1	0	44,821,891.75	2,479,416	5.53	19,961,157
27	370.00	METERS - AMR	18-L1	0	31,614,492.00	2,981,203 *	9.43	5,819,204
28	371.00	INSTALLATION ON CUSTOMERS' PREMISES	17-L0	(50)	6,563,781.88	578,892	8.82	3,082,834
29	373.00	STREET LIGHTING AND SIGNAL SYSTEMS	27-L0	(10)	5,130,537.46	208,813	4.07	2,083,777
30								
31		<b>TOTAL DISTRIBUTION PLANT</b>			<b>1,903,906,643.80</b>	<b>57,342,485</b>	<b>3.01</b>	<b>575,569,725</b>
32								
33		<b>GENERAL PLANT</b>						
34								
35	389.20	LAND AND LAND RIGHTS	65-R4	0	26,976.55	415	1.54	13,692
36	390.00	STRUCTURES AND IMPROVEMENTS	50-S0.5	(10)	84,363,470.03	1,854,713	2.20	20,052,815
37	390.10	STRUCTURES AND IMPROVEMENTS - LEASEHOLD	20-S0.5	0	50,859.53	2,543	5.00	19,095
38	391.10	OFFICE FURNITURE AND EQUIPMENT	20-SQ	0	9,755,154.62	487,758	5.00	4,695,337
39	391.20	OFFICE FURNITURE AND EQUIPMENT - COMPUTER EQUIPMENT	5-SQ	0	1,672,250.89	243,506	14.56	960,508
40								
41		<b>TRANSPORTATION EQUIPMENT</b>						
42								
43	392.00	OTHER	15-S4	15	30,225.00	1,714	5.67	14,507
44	392.10	CARS	6-L3	15	97,593.41	13,828	14.17	13,479
45	392.20	LIGHT TRUCKS	11-S1	15	8,605,166.97	664,878	7.73	2,687,250
46	392.30	MEDIUM TRUCKS	14-S3	15	2,764,714.96	167,791	6.07	767,426
47	392.40	HEAVY TRUCKS	15-S2.5	15	26,391,434.00	1,496,262	5.67	8,212,511
48	392.50	ROLLING EQUIPMENT	13-L2.5	15	1,321,753.47	86,396	6.54	235,242
49	392.60	TRAILERS	13-L3	15	4,958,571.11	324,117	6.54	1,661,871
50	392.70	ELECTRIC VEHICLE CHARGING STATION	10-R4	0	7,902.10	790	10.00	5,244
51								
52		<b>TOTAL TRANSPORTATION EQUIPMENT</b>			<b>44,177,361.02</b>	<b>2,755,776</b>	<b>6.24</b>	<b>13,597,530</b>
53								
54	393.00	STORES EQUIPMENT	20-SQ	0	3,257,904.89	162,895	5.00	1,109,379
55	394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	0	14,194,677.76	567,787	4.00	4,037,342
56	395.00	LABORATORY EQUIPMENT	20-SQ	0	2,072,746.95	96,433	4.65	1,339,656
57	396.00	POWER OPERATED EQUIPMENT	15-L4	0	159,421.09	10,633	6.67	71,720
58								
59		<b>COMMUNICATION EQUIPMENT</b>						
60								
61	397.10	MICROWAVE	15-SQ	0	5,646,707.11	240,089	4.25	3,854,488
62	397.20	OTHER	15-SQ	0	22,098,802.35	1,279,811	5.79	10,667,691
63	397.30	GPS	5-SQ	0	443,487.30	54,399	12.27	366,151
64								
65		<b>TOTAL COMMUNICATION EQUIPMENT</b>			<b>28,188,996.76</b>	<b>1,574,299</b>	<b>5.58</b>	<b>14,888,330</b>
66								
67	398.00	MISCELLANEOUS EQUIPMENT	20-SQ	0	1,279,168.86	63,958	5.00	658,566
68								
69		<b>TOTAL GENERAL PLANT</b>			<b>189,198,988.95</b>	<b>7,820,716</b>	<b>4.13</b>	<b>61,443,970</b>
70								
71		<b>TOTAL DEPRECIABLE PLANT</b>			<b>2,146,020,697.61</b>	<b>67,515,326</b>	<b>3.15</b>	<b>682,882,486</b>
72								
73		<b>NONDEPRECIABLE PLANT</b>						
74								
75	301.00	ORGANIZATION			45,057.29			
76	360.10	LAND			5,830,013.57			
77	389.10	LAND			4,806,992.04			
78								
79		<b>TOTAL NONDEPRECIABLE PLANT</b>			<b>10,682,062.90</b>			
80								
81		<b>TOTAL ELECTRIC PLANT</b>			<b>2,156,702,760.51</b>	<b>67,515,326</b>		<b>682,882,486</b>
82								
83		* AMR METERS NET BOOK VALUE BEING DEPRECIATED OVER 9 YEARS						
84		** NEW ADDITIONS TO THIS ACCOUNT WILL BE DEPRECIATED USING A 10.00% RATE						
85								
86		Less Transportation Equipment				(2,755,776)		
87		<b>TOTAL ELECTRIC PLANT</b>				<b>64,759,550</b>		

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE  
PROPERTY TAX RATE CALCULATION**

<u>Line</u>	<u>Description</u>	<u>Year-Ended 12/31/2019</u>	<u>Reference</u>
1	Total Distribution Property Taxes	\$ 45,186,407	Reflects latest property tax expense
2	Gross Distribution Plant In Service	\$ 2,261,686,403	Reflects total distribution plant @ 12/31/19
3	Gross Property Tax Rate	<u>2.00%</u>	Line 1 / Line 2



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Public Service Company of New Hampshire, DBA Eversource Energy  
Permanent Rate Design 2020 Step Adjustment  
Rates Effective January 1, 2021

Rate	Blocks	Permanent Rates 1/1/21	Step Adjustment 1/1/21	Percent Change
R	Customer charge	\$ 13.81	\$ 13.81	0.00%
	All KWH	0.04811	0.05140	6.84%
Uncontrolled Water Heating	Meter charge	\$ 4.87	\$ 4.87	0.00%
	All KWH	0.02161	0.02376	9.95%
Controlled Water Heating	Meter charge	\$ 6.38	\$ 6.38	0.00%
	All KWH	0.01141	0.01248	9.38%
R-OTOD	Customer charge	\$ 32.08	\$ 32.08	0.00%
	On-peak KWH	\$ 0.14710	\$ 0.15039	2.24%
	Off-peak KWH	0.00513	0.00842	64.13%
G	Single phase customer charge	\$ 16.21	\$ 16.21	0.00%
	Three phase customer charge	32.39	32.39	0.00%
	Load charge (over 5 KW)	\$ 10.49	\$ 11.57	10.30%
	First 500 KWH	\$ 0.02805	\$ 0.02805	0.00%
	Next 1,000 KWH	0.02268	0.02268	0.00%
	All additional KWH	0.01709	0.01709	0.00%
Space Heating	Meter charge	\$ 3.24	\$ 3.24	0.00%
	All KWH	0.03908	0.04102	4.96%
G-OTOD	Single phase customer charge	\$ 41.98	\$ 41.98	0.00%
	Three phase customer charge	60.00	60.00	0.00%
	Load charge	\$ 13.92	\$ 15.00	7.76%
	On-peak KWH	0.05335	0.05335	0.00%
	Off-peak KWH	0.00836	0.00836	0.00%
LCS	Radio-controlled option	\$ 6.99	\$ 6.99	0.00%
	8, 10 or 11-hour option	6.38	6.38	0.00%
	Switch option	6.99	6.99	0.00%
	Radio-controlled option	\$ 0.01141	\$ 0.01248	9.38%
	8-hour option	0.01141	\$ 0.01248	9.38%
	10 or 11-hour option	0.02161	\$ 0.02376	9.95%



Public Service Company of New Hampshire, DBA Eversource Energy  
Permanent Rate Design 2020 Step Adjustment  
Rates Effective January 1, 2021

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Rate	Blocks	Permanent Rates 01/01/2021	Step Adjustment 01/01/2021	Percent Change
GV	Customer charge	\$ 211.21	\$ 211.21	0.00%
	First 100 KW	\$ 6.48	\$ 6.93	6.94%
	All additional KW	6.22	6.67	7.23%
	First 200,000 KWH	\$ 0.00657	\$ 0.00656	-0.15%
	All additional KWH	0.00583	0.00583	0.00%
	Minimum Charge	\$ 1,015.00	\$ 1,062.00	4.63%
LG	Customer charge	\$ 660.15	\$ 660.15	0.00%
	Demand charge	\$ 5.51	\$ 5.88	6.72%
	On-peak KWH	\$ 0.00554	\$ 0.00554	0.00%
	Off-peak KWH	0.00468	0.00468	0.00%
	Minimum Charge	\$ 1,076.00	\$ 1,126.00	4.65%
	Discount for Service at 115kV	\$ (0.49)	\$ (0.51)	4.08%
B Service at less than 115 KV	Administrative charge	\$ 372.10	\$ 372.10	0.00%
	Translation charge	62.42	62.42	0.00%
	Demand charge	\$ 5.12	\$ 5.39	5.27%
	All KWH	Energy charges in the standard rate		
B Service at 115 KV or higher	Administrative charge	\$ 372.10	\$ 372.10	0.00%
	Translation charge	62.42	62.42	0.00%
	Demand charge	Not applicable		
	All KWH	Not applicable		

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Public Service Company of New Hampshire, DBA Eversource Energy  
Permanent Rate Design 2020 Step Adjustment  
Rates Effective January 1, 2021

Outdoor Lighting Service Rate OL

	<u>Lumens</u>	<u>Watts</u>	<u>Permanent Rates 01/01/2021</u>	<u>Step Adjustment 01/01/2021</u>	<u>Percent Change</u>
<b>For new and existing installations</b>					
High Pressure Sodium	4,000	50	\$ 14.77	\$ 15.45	4.60%
	5,800	70	14.77	15.45	4.60%
	9,500	100	19.64	20.55	4.63%
	16,000	150	27.78	29.06	4.61%
	30,000	250	28.47	29.78	4.60%
	50,000	400	28.79	30.12	4.62%
	130,000	1,000	46.20	48.33	4.61%
Metal Halide	5,000	70	15.41	16.12	4.61%
	8,000	100	21.09	22.06	4.60%
	13,000	150	28.94	30.27	4.60%
	13,500	175	29.55	30.92	4.64%
	20,000	250	29.55	30.92	4.64%
	36,000	400	29.82	31.20	4.63%
	100,000	1,000	44.71	46.77	4.61%
Light Emitting Diode (LED)	2,500	28		10.19	
	4,100	36		10.17	
	4,800	51		10.33	
	8,500	92		11.36	
	13,300	142		12.55	
	24,500	220		15.73	
<b>For existing installations only</b>					
Incandescent	600	105	8.51	8.90	4.58%
	1,000	105	9.50	9.94	4.63%
	2,500	205	12.19	12.75	4.59%
	6,000	448	20.94	21.91	4.63%
Mercury	3,500	100	13.03	13.63	4.60%
	7,000	175	15.68	16.40	4.59%
	11,000	250	19.38	20.28	4.64%
	15,000	400	22.17	23.19	4.60%
	20,000	400	23.94	25.04	4.59%
	56,000	1,000	38.05	39.80	4.60%
Fluorescent	20,000	330	32.47	33.96	4.59%
High Pressure Sodium in existing mercury luminaires					
	12,000	150	20.32	21.25	4.58%
	34,200	360	26.01	27.21	4.61%

Public Service Company of New Hampshire, DBA Eversource Energy  
 Permanent Rate Design 2020 Step Adjustment  
 Rates Effective January 1, 2021

Energy Efficient Outdoor Lighting Service Rate EOL

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	<u>Lumens</u>	<u>Watts</u>	<u>Permanent Rates 01/01/2021</u>	<u>Step Adjustment 01/01/2021</u>	<u>Percent Change</u>
High Pressure Sodium	4,000	50	\$ 6.12	\$ 6.31	3.10%
	5,800	70	6.43	6.62	2.95%
	9,500	100	6.85	7.04	2.77%
	16,000	150	7.51	7.70	2.53%
	30,000	250	8.73	8.93	2.29%
	50,000	400	10.44	10.63	1.82%
	130,000	1,000	17.11	17.30	1.11%
Metal Halide	5,000	70	6.45	\$ 6.64	2.95%
	8,000	100	6.79	6.98	2.80%
	13,000	150	7.52	7.71	2.53%
	13,500	175	7.69	7.88	2.47%
	20,000	250	8.55	8.75	2.34%
	36,000	400	10.27	10.46	1.85%
	100,000	1,000	16.93	17.12	1.12%
LED's and other technologies accepted by the Company					
Per fixture charge			3.01	3.21	6.64%
Per watt charge			\$ 0.01058	\$ 0.01058	0.00%

Public Service Company of New Hampshire DBA Eversource Energy  
 Bill Calculation for Residential Service Rate R

Usage: 650 kWh

	Current Rates (a)	Proposed Rates (b)	Current Bill	Proposed Bill
Customer Charge	\$ 13.81	\$ 13.81	\$ 13.81	\$ 13.81
Distribution Charge per kWh	0.04811	0.05140	31.27	33.41
Transmission Charge per kWh	0.03011	0.03011	19.57	19.57
Stranded Cost Recovery Charge	0.00982	0.00982	6.38	6.38
System Benefits Charge	0.00743	0.00743	4.83	4.83
Energy Service Charge	0.07068	0.07068	45.94	45.94
		Total Bill	\$ 121.81	\$ 123.95
		\$ Increase in 650 kWh Residential Bill		\$ 2.14
		% Increase in 650 kWh Residential Bill		1.76%

(a) Current rates per Settlement Agreement in Docket No. DE 19-057.

(b) Proposed rates for Step 1 effective January 1, 2021