

NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
Calculation of the Projected Over or Under Collection of the
2021-2022 Summer Period Cost of Gas
DG 21-131
August 2022 Estimated

1	April 30, 2022 Target Balance	\$ (5,202,006)	Table 2, Page 3, Line 107
2			
3	Forecasted firm therm sales 08/01/22-10/31/22		
4	Residential Heat & Non Heat	1,927,161	Table 2, PG. 2, Line 2
5	HLF Classes	1,042,764	Table 2, PG. 2, Line 3
6	LLF Classes	1,698,050	Table 2, PG. 2, Line 4
7			
8	Current recovery rate per therm		
9	Residential heat & non heat	\$0.9126	Table 2, PG. 1, Line 7
10	HLF classes	\$0.8690	Table 2, PG. 1, Line 8
11	LLF classes	\$0.9395	Table 2, PG. 1, Line 9
12			
13	Total	\$ (4,260,206)	(LN 4 * Ln 9) + (LN 5 * LN 10) + (LN 6 * LN 11)
14			
15	Forecasted recovered costs at current rates 08/01/22 - 10/31/22	\$ (4,260,206)	LN 13
16	Actual recovered costs 05/01/2022 - 07/30/2022	\$ (2,524,532)	Table 2, PG.1, Line 14 (May thru July)
17	Estimated total recovered costs 05/01/22 - 10/31/22	\$ (6,784,739)	LN 15 + LN 16
18			
19	Revised projected direct gas costs [1]	\$ 12,555,143	Table 2, PG. 2, Line 68
20	Revised projected indirect gas costs [2]	\$ 174,852	Table 2, PG. 4, Line 100
21	Revised total projected gas costs 05/01/2022 - 10/31/2022	\$ 12,729,995	LN 19 + LN 20
22			
23	Projected October 31, 2022 Summer Season Balance	\$ 743,250	LN 1 + LN 17 + LN 21
24			
25	Projected Winter Season Variance	\$ (343,054)	Table 2, Page 3, LN 110
26			
27	Projected End of Year Balance	\$ 400,195	Table 2, Page 3, LN 98
28			
29			
30			
31	Projected Summer Season Imbalance Type	Under-collection	
32			
33	Projected Summer Balance As A Percentage of Gas Costs	9.87%	LN 23 / (LN 1 + LN 21)
34			
35	Summer Season Over-collection Threshold (4% over Summer Costs)	NA	
36			
37	Summer Season Under-collection Threshold (4% over Year End Balance)	\$ 301,120	LN 21 * 4%
38			
39	Over-collection Rate Adjustment Required	NA	
40			
41	Under-collection Rate Adjustment Required	Yes	IF (ABS) LN 23 > (ABS) LN 37 Yes, ELSE No
42			
43	Projected Sales - September through October 2022	3,577,552	Table 2, PG. 1, Line 5 - September through October
44			
45	Increase in cost of gas rates - September through October 2022 - per therm	\$ 0.2078	LN 23 / LN 43

NOTES

[1] Reflects futures prices as of August 10, 2022

[2] Includes: Working Capital Allowance, Bad Debt Allowance, Production and Storage Capacity, Miscellaneous Overhead and Interest

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation

	Oct-21	Winter						Summer					
		(Actual) Nov-21	(Actual) Dec-21	(Actual) Jan-22	(Actual) Feb-22	(Actual) Mar-22	(Actual) Apr-22	(Actual) May-22	(Actual) Jun-22	(Actual) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Sales Revenues													
Volumes													
Residential Heat & Non Heat											443,237	491,840	992,084
Sales HLF Classes											254,950	275,778	512,036
Sales LLF Classes											392,235	440,500	865,314
Total											1,090,422	1,208,118	2,369,434
Rates													
Residential Heat & Non Heat CGA											\$0.9126	\$0.9126	\$0.9126
Sales HLF Classes CGA											\$0.8690	\$0.8690	\$0.8690
Sales LLF Classes CGA											\$0.9395	\$0.9395	\$0.9395
Revenues													
Residential Heat & Non Heat					\$ -		\$ -				\$ (404,498)	\$ (448,853)	\$ (905,376)
Sales HLF Classes					\$ -		\$ -				\$ (221,551)	\$ (239,651)	\$ (444,960)
Sales LLF Classes					\$ -		\$ -				\$ (368,505)	\$ (413,850)	\$ (812,963)
Total Sales		\$ (3,825,791)	\$ (5,514,058)	\$ (7,324,017)	\$ (6,736,040)	\$ (5,403,945)	\$ (3,517,186)	\$ (1,106,465)	\$ (674,054)	\$ (744,013)	\$ (994,555)	\$ (1,102,354)	\$ (2,163,298)
Gas Costs and Credits													
Demand Costs (net of Capacity Assignment)													
Pipeline													
Storage													
On-system Peaking													
Off-System Peaking													
Total Demand Costs													
Asset Management and Capacity Release													
NUI AMA Revenue													
NUI Capacity Release													
NUI AMA Rev & Cap. Release Subtotal													
NH AMA Revenue													
NH Capacity Release													
NH Total Asset Management and Capacity Release													
Outage Replacement													
Re-entry Rate & Conversion Rate Revenue										\$ -			
Off-system sales													
Net Demand Costs		\$ 1,288,367	\$ 1,269,577	\$ 1,298,726	\$ 1,325,570	\$ 1,255,207	\$ 757,863	\$ 1,066,612	\$ 1,062,771	\$ 1,070,718	\$ 1,069,076	\$ 1,069,076	\$ 1,069,076
NUI Commodity Costs													
NUI Total Pipeline Volumes											401,078	426,093	718,859
Pipeline Costs Modeled in Sendout™											\$ 1,382,979	\$ 1,410,783	\$ 2,512,274
NYMEX Price Used for Forecast											\$ 3,8790	\$ 3,8630	\$ 3,8900
NYMEX Price Used for Update											\$ 8,6870	\$ 8,2020	\$ 8,1930
Increase/(Decrease) NYMEX Price											\$ 4.81	\$ 4.34	\$ 4.30
Percentage of purchases tied to NYMEX											100.00%	100.00%	100.00%
Increase/(Decrease) in Pipeline Costs											\$ 1,928,383	\$ 1,848,818	\$ 3,093,250
Total Updated Pipeline Costs											\$ 3,311,362	\$ 3,259,600	\$ 5,605,524
New Hampshire Allocated Percentage											27.40%	28.59%	33.29%
NH Updated Pipeline Costs											\$ 907,457	\$ 931,967	\$ 1,866,198
NH Peaking Volumes											1,860	1,800	1,860
NH Peaking Costs Modeled in Sendout											\$ 11,464	\$ 13,455	\$ 14,402
Percentage of purchases tied to NYMEX											3.18%	3.18%	3.18%
Change in NYMEX Price											\$ 4.81	\$ 4.34	\$ 4.30
Increase/(Decrease) in Peaking Costs											\$ 285	\$ 249	\$ 255
Total Update Peaking Costs											\$ 11,748	\$ 13,704	\$ 14,657
New Hampshire Allocated Percentage											27.40%	28.59%	33.29%
NH Updated Peaking Costs											\$ 3,220	\$ 3,918	\$ 4,879
NH Commodity Costs													
Pipeline											\$ 907,457	\$ 931,967	\$ 1,866,198
Storage											\$ -	\$ -	\$ -
Peaking											\$ 3,220	\$ 3,918	\$ 4,879
Total Commodity Costs		\$ 1,737,238	\$ 3,466,900	\$ 5,395,691	\$ 3,874,419	\$ 2,576,591	\$ 1,355,432	\$ 1,076,211	\$ 792,012	\$ 561,952	\$ 910,677	\$ 935,885	\$ 1,871,078
Inventory Finance Charge								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Anticipated Direct Cost of Gas		\$ 3,025,605	\$ 4,736,477	\$ 6,694,417	\$ 5,199,989	\$ 3,831,799	\$ 2,113,295	\$ 2,142,823	\$ 1,854,783	\$ 1,632,670	\$ 1,979,752	\$ 2,004,961	\$ 2,940,154

**Northern Utilities
 NEW HAMPSHIRE (Over) / Undercollection Anal**

Sales Revenues		Winter	Summer	Prior Period	Total
1	Volumes				
2	Residential Heat & Non Heat				
3	Sales HLF Classes				
4	Sales LLF Classes				
5	Total				
6	Rates				
7	Residential Heat & Non Heat CGA				
8	Sales HLF Classes CGA				
9	Sales LLF Classes CGA				
10	Revenues				
11	Residential Heat & Non Heat				
12	Sales HLF Classes				
13	Sales LLF Classes				
14	Total Sales	\$ (32,321,037)	\$ (6,784,739)		\$ (39,105,775)
15					
16					
17	Gas Costs and Credits				Total
18					
19	Demand Costs (net of Capacity Assignment)				
20	Pipeline				
21	Storage				
22	On-system Peaking				
23	Off-System Peaking				
24	Total Demand Costs				
25					
26	Asset Management and Capacity Release				
27	NUI AMA Revenue				
28	NUI Capacity Release				
29	NUI AMA Rev & Cap. Release Subtotal				
30	NH AMA Revenue				
31	NH Capacity Release				
32	NH Total Asset Management and Capacity Release				\$ -
33					
34	Outage Replacement				
35					
36	Re-entry Rate & Conversion Rate Revenue				\$ -
37	Off-system sales				
38	Net Demand Costs	\$ 7,195,310	\$ 6,407,328		\$ 13,602,639
39					
40	NUI Commodity Costs				
41	NUI Total Pipeline Volumes				
42	Pipeline Costs Modeled in Sendout™				
43	NYMEX Price Used for Forecast				
44	NYMEX Price Used for Update				
45	Increase/(Decrease) NYMEX Price				
46	Percentage of purchases tied to NYMEX				
47	Increase/(Decrease) in Pipeline Costs				
48	Total Updated Pipeline Costs				
49	New Hampshire Allocated Percentage				
50	NH Updated Pipeline Costs				
51					
52	NH Peaking Volumes				
53	NH Peaking Costs Modeled in Sendout				
54	Percentage of purchases tied to NYMEX				
55	Change in NYMEX Price				
56	Increase/(Decrease) in Peaking Costs				
57	Total Update Peaking Costs				
58	New Hampshire Allocated Percentage				
59	NH Updated Peaking Costs				
60					
61	NH Commodity Costs				
62	Pipeline				
63	Storage				
64	Peaking				
65	Total Commodity Costs	\$ 18,406,271	\$ 6,147,815		\$ 24,554,086
66	Inventory Finance Charge	\$ -	\$ -		\$ -
67					
68	Total Anticipated Direct Cost of Gas	\$ 25,601,581	\$ 12,555,143		\$ 38,156,724

**Northern Utilities
 NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation**

	Oct-21	Winter						Summer					
		(Actual) Nov-21	(Actual) Dec-21	(Actual) Jan-22	(Actual) Feb-22	(Actual) Mar-22	(Actual) Apr-22	(Actual) May-22	(Actual) Jun-22	(Actual) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Working Capital													
Total Anticipated Direct Cost of Gas		\$ 3,182,224	\$ 4,893,096	\$ 6,851,036	\$ 5,356,607	\$ 3,988,417	\$ 2,269,914	\$ 2,162,297	\$ 1,874,258	\$ 1,652,145	\$ 1,999,227	\$ 2,024,436	\$ 2,959,628
Working Capital Percentage		0.0892%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.11%	0.11%	0.11%	0.11%
Working Capital Allowance		\$ 2,839	\$ 4,365	\$ 6,111	\$ 4,778	\$ 3,558	\$ 2,025	\$ 1,929	\$ 1,672	\$ 1,814	\$ 2,195	\$ 2,223	\$ 3,250
Beginning Period Working Capital Balance		\$ (1,398)	\$ 1,441	\$ 5,816	\$ 11,951	\$ 16,768	\$ 20,376	\$ 22,458	\$ 24,450	\$ 26,191	\$ 28,078	\$ 30,352	\$ 32,660
End of Period Working Capital Allowance		\$ 1,441	\$ 5,806	\$ 11,927	\$ 16,729	\$ 20,325	\$ 22,400	\$ 24,387	\$ 26,122	\$ 28,005	\$ 30,273	\$ 32,575	\$ 35,910
Interest		\$ 0	\$ 10	\$ 24	\$ 39	\$ 50	\$ 58	\$ 63	\$ 68	\$ 73	\$ 79	\$ 85	\$ 93
End of period with Interest		\$ (1,398)	\$ 1,441	\$ 5,816	\$ 11,951	\$ 16,768	\$ 20,376	\$ 22,458	\$ 24,450	\$ 26,191	\$ 28,078	\$ 30,352	\$ 32,660
Bad Debt													
Projected Bad Debt	\$ -	\$ 8,836	\$ 14,798	\$ (10,232)	\$ 4,559	\$ 10,087	\$ 7,592	\$ 3,982	\$ 11,494	\$ 15,551	\$ 15,185	\$ 22,777	\$ 15,185
Beginning Period Bad Debt Balance		\$ (44,260)	\$ (35,532)	\$ (20,810)	\$ (31,113)	\$ (26,632)	\$ (16,604)	\$ (9,046)	\$ (5,083)	\$ 6,412	\$ 22,002	\$ 37,267	\$ 60,177
End of Period Bad Debt Balance		\$ (35,424)	\$ (20,734)	\$ (31,042)	\$ (26,554)	\$ (16,545)	\$ (9,011)	\$ (5,064)	\$ 6,411	\$ 21,964	\$ 37,187	\$ 60,045	\$ 75,362
Interest		\$ (108)	\$ (76)	\$ (70)	\$ (58)	\$ (58)	\$ (35)	\$ (19)	\$ 2	\$ 38	\$ 80	\$ 132	\$ 184
End of Period Bad Debt Balance with Interest		\$ (44,260)	\$ (35,532)	\$ (20,810)	\$ (31,113)	\$ (26,632)	\$ (16,604)	\$ (9,046)	\$ (5,083)	\$ 6,412	\$ 22,002	\$ 37,267	\$ 60,177
Local Production and Storage Capacity		\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Overhead		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475
Gas Cost Other than Bad Debt and Working Capital Over/Under Collection													
Beginning Balance Over/Under Collection	\$ 255,642	\$ 255,642	\$ (388,104)	\$ (1,010,958)	\$ (1,487,318)	\$ (2,872,647)	\$ (4,297,872)	\$ (5,558,473)	\$ (4,516,264)	\$ (3,326,667)	\$ (2,426,315)	\$ (1,426,853)	\$ (507,387)
Net Costs - Revenues		\$ (643,567)	\$ (620,962)	\$ (472,981)	\$ (1,379,433)	\$ (1,415,528)	\$ (1,247,272)	\$ 1,055,833	\$ 1,200,204	\$ 908,131	\$ 1,004,673	\$ 922,082	\$ 796,330
Ending Balance before Interest		\$ (387,925)	\$ (1,009,066)	\$ (1,483,939)	\$ (2,866,751)	\$ (4,288,175)	\$ (5,545,143)	\$ (4,502,640)	\$ (3,316,060)	\$ (2,418,535)	\$ (1,421,643)	\$ (504,771)	\$ 288,943
Average Balance		\$ (66,141)	\$ (698,585)	\$ (1,247,449)	\$ (2,177,034)	\$ (3,580,411)	\$ (4,921,508)	\$ (5,030,556)	\$ (3,916,162)	\$ (2,872,601)	\$ (1,923,979)	\$ (965,812)	\$ (109,222)
Interest Rate		3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%
Interest Expense		\$ (179)	\$ (1,892)	\$ (3,379)	\$ (5,896)	\$ (9,697)	\$ (13,329)	\$ (13,624)	\$ (10,606)	\$ (7,780)	\$ (5,211)	\$ (2,616)	\$ (296)
Ending Balance Incl Interest Expense	\$ 255,642	\$ (388,104)	\$ (1,010,958)	\$ (1,487,318)	\$ (2,872,647)	\$ (4,297,872)	\$ (5,558,473)	\$ (4,516,264)	\$ (3,326,667)	\$ (2,426,315)	\$ (1,426,853)	\$ (507,387)	\$ 288,647
Total Over/Under Collection Ending Balance	\$ 209,985	\$ (422,195)	\$ (1,025,953)	\$ (1,506,480)	\$ (2,882,511)	\$ (4,294,100)	\$ (5,545,061)	\$ (4,496,897)	\$ (3,294,064)	\$ (2,376,235)	\$ (1,359,234)	\$ (414,550)	\$ 400,195
Total Indirect Cost of Gas	\$ 209,985	\$ 168,006	\$ 173,823	\$ 149,073	\$ 160,020	\$ 160,558	\$ 152,930	\$ 11,806	\$ 22,104	\$ 29,172	\$ 31,803	\$ 42,076	\$ 37,890
Total Cost of Gas	\$ 209,985	\$ 3,193,611	\$ 4,910,299	\$ 6,843,490	\$ 5,360,009	\$ 3,992,356	\$ 2,266,226	\$ 2,154,628	\$ 1,876,887	\$ 1,661,842	\$ 2,011,556	\$ 2,047,037	\$ 2,978,044
Total Interest	\$ -	\$ (287)	\$ (1,958)	\$ (3,425)	\$ (5,935)	\$ (9,705)	\$ (13,306)	\$ (13,580)	\$ (10,536)	\$ (7,668)	\$ (5,052)	\$ (2,399)	\$ (19)

April 30th Target Balance	\$ (5,202,006)
April 30th Projected Balance	\$ (5,545,061)
Variance	\$ (343,054)

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Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

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	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				\$ 39,213,285
Working Capital Percentage				
Working Capital Allowance	\$ 23,675	\$ 13,082	\$ (1,398)	\$ 35,360
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	\$ 181	\$ 462		\$ 643
End of period with Interest				
Bad Debt				
Projected Bad Debt	\$ 35,639	\$ 84,175	\$ (44,260)	\$ 75,554
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	\$ (426)	\$ 417		\$ (9)
End of Period Bad Debt Balance with Interest				
Local Production and Storage Capacity	\$ 476,106	\$ -		\$ 476,106
				\$ -
Miscellaneous Overhead	\$ 463,606	\$ 116,849		\$ 580,455
Gas Cost Other than Bad Debt and Working Capital Over/L				
Beginning Balance Over/Under Collection				\$ (27,563,215)
Net Costs - Revenues				\$ 107,510
Ending Balance before Interest				\$ (27,455,705)
Average Balance				\$ (27,509,460)
Interest Rate				
Interest Expense				\$ (74,505)
Ending Balance Incl Interest Expense			\$ 255,642	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	\$ 964,410	\$ 174,852	\$ 209,985	\$ 1,349,246
Total Cost of Gas	\$ 26,565,991	\$ 12,729,995	\$ 209,985	\$ 39,505,971
Total Interest	\$ (34,616)	\$ (39,254)		\$ (73,870)

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical Residential Heating Bill - 133 therms/Summer
Comparison of Summer Proposed vs. Currently Effective Summer 2022 Bills

	May	June	July	August	Sept	October	Summer	
1								
2	Typical Usage: therms(*)						21	133
3	Proposed Summer 2022 Rates							
4	Customer Charge	units @	\$22.20				\$133.20	
5	First	50 units @	\$0.8841	\$22.20	\$22.20	\$22.20	\$22.20	\$117.16
6	Over	50 units @	\$0.8841	\$44.21	\$18.71	\$12.37	\$10.28	\$13.15
7		COG 1	\$0.6361	\$0.52	\$0.00	\$0.00	\$0.00	\$0.00
8		COG 2	\$0.9126	\$32.18				\$32.18
9		COG 3	\$0.9126		\$19.31			\$19.31
10		COG 4	\$0.9126			\$12.77		\$12.77
11		COG 5	\$1.1204				\$10.61	\$10.61
12		COG 6	\$1.1204				\$16.66	\$16.66
13	Summer Period 2022 Avg. COG		\$0.8633 *				\$16.66	\$16.66
14		LDAC	\$0.0816	\$4.13	\$1.73	\$1.14	\$0.95	\$1.21
15		TOTAL		\$103.23	\$61.95	\$48.48	\$44.03	\$53.23
							\$65.73	\$376.65
16								
17	Typical Usage: therms						21	133
18	Currently Effective Summer 2022 Rates							
19	Customer Charge	units @	\$22.20				\$133.20	
20	First	50 units @	\$0.8841	\$22.20	\$22.20	\$22.20	\$22.20	\$117.16
21	Over	50 units @	\$0.8841	\$44.21	\$18.71	\$12.37	\$10.28	\$13.15
22		COG 1	\$0.6361	\$0.52	\$0.00	\$0.00	\$0.00	\$0.00
23		COG 2	\$0.9126	\$32.18				\$32.18
24		COG 3	\$0.9126		\$19.31			\$19.31
25		COG 4	\$0.9126			\$12.77		\$12.77
26		COG 5	\$0.9126				\$10.61	\$10.61
27		COG 6	\$0.9126				\$13.57	\$13.57
28	Summer Period 2021 Avg. COG		\$0.8075 *				\$13.57	\$13.57
29		LDAC	\$0.0816	\$4.13	\$1.73	\$1.14	\$0.95	\$1.21
30		TOTAL		\$103.23	\$61.95	\$48.48	\$44.03	\$50.14
31		Change		\$103.23	\$61.95	\$48.48	\$44.03	\$50.14
32		% Chg		\$0.00	\$0.00	\$0.00	\$0.00	\$3.09
				0.00%	0.00%	0.00%	0.00%	\$4.34
								7.06%
								2.01%

*-Note- Weighted by usage. Actual Weather Normalized.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-40 Commercial & Industrial Bill - 283 therms/Summer
Comparison of Summer Proposed vs. Currently Effective Summer 2022 Bills

		May	June	July	August	Sept	October	Summer
1								
2	Typical Usage: therms(*)	122	42	24	20	31	44	<u>283</u>
3	Proposed Summer 2022 Rates							
4	Customer Charge units @	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$480.00
5	First 75 units @	\$0.2320	\$17.40	\$9.82	\$5.49	\$4.66	\$7.28	\$10.29
6	Over 75 units @	\$0.2320	\$10.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	COG 1	\$0.6630	\$80.65					\$80.65
8	COG 2	\$0.9395		\$39.79				\$39.79
9	COG 3	\$0.9395		\$22.23				\$22.23
10	COG 4	\$0.9395			\$18.88			\$18.88
11	COG 5	\$1.1473				\$36.01		\$36.01
12	COG 6	\$1.1473					\$50.90	\$50.90
13	Summer Period 2022 Avg. COG	\$0.8764*						
14	LDAC	\$0.0504	\$6.13	\$2.13	\$1.19	\$1.01	\$1.58	\$2.24
15	TOTAL		\$195.00	\$131.74	\$108.91	\$104.56	\$124.88	\$143.43
								\$808.51
16								
17	Typical Usage: therms	122	42	24	20	31	44	<u>283</u>
18	Currently Effective Summer 2022 Rates							
19	Customer Charge units @	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$480.00
20	First 75 units @	\$0.2320	\$17.40	\$9.82	\$5.49	\$4.66	\$7.28	\$10.29
21	Over 75 units @	\$0.2320	\$10.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
22	COG 1	\$0.6630	\$80.65					\$80.65
23	COG 2	\$0.9395		\$39.79				\$39.79
24	COG 3	\$0.9395		\$22.23				\$22.23
25	COG 4	\$0.9395			\$18.88			\$18.88
26	COG 5	\$0.9395				\$29.49		\$29.49
27	COG 6	\$0.9395					\$41.68	\$41.68
28	Summer Period 2021 Avg. COG	\$0.8209*						
29	LDAC	\$0.0504	\$6.13	\$2.13	\$1.19	\$1.01	\$1.58	\$2.24
30	TOTAL		\$195.00	\$131.74	\$108.91	\$104.56	\$118.35	\$134.21
31	Change		\$0.00	\$0.00	\$0.00	\$0.00	\$6.52	\$9.22
32	% Chg		0.00%	0.00%	0.00%	0.00%	5.51%	6.87%
								\$792.77
								\$15.74
								1.99%

*-Note- Weighted by usage. Actual Weather Normalized.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-41 Commercial & Industrial Bill - 3,509 therms/Summer
Comparison of Summer Proposed vs. Currently Effective Summer 2022 Bills

		May	June	July	August	Sept	October	Summer
1								
2	Typical Usage: therms(1)	1,273	552	360	210	438	676	3,509
3	Proposed Summer 2022 Rates							
4	Customer Charge units @	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
5	All units @	\$349.26	\$151.50	\$98.77	\$57.56	\$120.30	\$185.41	\$962.79
6	COG 1	\$843.87						\$843.87
7	COG 2		\$518.71					\$518.71
8	COG 3			\$338.18				\$338.18
9	COG 4				\$197.06			\$197.06
10	COG 5					\$502.98		\$502.98
11	COG 6						\$775.21	\$775.21
12	Summer Period 2022 Avg. COG	\$0.9052*						
13	LDAC	\$64.15	\$27.83	\$18.14	\$10.57	\$22.10	\$34.05	\$176.84
14	TOTAL	\$1,482.27	\$923.04	\$680.10	\$490.19	\$870.38	\$1,219.67	\$5,665.64
15								
16	Typical Usage: therms	1,273	552	360	210	438	676	3,509
17	Currently Effective Summer 2022 Rates							
18	Customer Charge units @	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
19	All units @	\$349.26	\$151.50	\$98.77	\$57.56	\$120.30	\$185.41	\$962.79
20	COG 1	\$843.87						\$843.87
21	COG 2		\$518.71					\$518.71
22	COG 3			\$338.18				\$338.18
23	COG 4				\$197.06			\$197.06
24	COG 5					\$411.88		\$411.88
25	COG 6						\$634.80	\$634.80
26	Summer Period 2021 Avg. COG	\$0.8392*						
27	LDAC	\$64.15	\$27.83	\$18.14	\$10.57	\$22.10	\$34.05	\$176.84
28	TOTAL	\$1,482.27	\$923.04	\$680.10	\$490.19	\$779.28	\$1,079.26	\$5,434.13
29	Change	\$0.00	\$0.00	\$0.00	\$0.00	\$91.10	\$140.41	\$231.51
30	% Chg	0.00%	0.00%	0.00%	0.00%	11.69%	13.01%	4.26%

*-Note- Weighted by usage. Actual Weather Normalized.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-51 Commercial & Industrial Bill - 6,060 therms/Summer
Comparison of Summer Proposed vs. Currently Effective Summer 2022 Bills

			May	June	July	August	Sept	October	Summer
1									
2		Typical Usage: therms(1)	990	951	992	928	1,122	1,078	6,060
3		Proposed Summer 2022 Rates							
4	Customer Charge	units @ \$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
5	First	1,000 units @ \$0.1656	\$163.96	\$157.43	\$164.19	\$153.64	\$165.60	\$165.60	\$970.42
6	Over	1,000 units @ \$0.1312	\$0.00	\$0.00	\$0.00	\$0.00	\$16.01	\$10.27	\$26.28
7		COG 1 \$0.5925	\$586.63						\$586.63
8		COG 2 \$0.8690		\$826.14					\$826.14
9		COG 3 \$0.8690			\$861.62				\$861.62
10		COG 4 \$0.8690				\$806.23			\$806.23
11		COG 5 \$1.0768					\$1,208.24		\$1,208.24
12		COG 6 \$1.0768						\$1,161.07	\$1,161.07
13		Summer Period 2022 Avg. COG \$0.8993*							
14		LDAC \$0.0504	\$49.90	\$47.91	\$49.97	\$46.76	\$56.55	\$54.34	\$305.44
15		TOTAL	\$1,025.50	\$1,256.49	\$1,300.78	\$1,231.62	\$1,671.41	\$1,616.28	\$8,102.07
16									
17		Typical Usage: therms	990	951	992	928	1,122	1,078	6,060
18		Currently Effective Summer 2022 Rates							
19	Customer Charge	units @ \$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
20	First	1,000 units @ \$0.1656	\$163.96	\$157.43	\$164.19	\$153.64	\$165.60	\$165.60	\$970.42
21	Over	1,000 units @ \$0.1312	\$0.00	\$0.00	\$0.00	\$0.00	\$16.01	\$10.27	\$26.28
22		COG 1 \$0.5925	\$586.63						\$586.63
23		COG 2 \$0.8690		\$826.14					\$826.14
24		COG 3 \$0.8690			\$861.62				\$861.62
25		COG 4 \$0.8690				\$806.23			\$806.23
26		COG 5 \$0.8690					\$975.07		\$975.07
27		COG 6 \$0.8690						\$937.00	\$937.00
28		Summer Period 2021 Avg. COG \$0.8238*							
29		LDAC \$0.0504	\$49.90	\$47.91	\$49.97	\$46.76	\$56.55	\$54.34	\$305.44
30		TOTAL	\$1,025.50	\$1,256.49	\$1,300.78	\$1,231.62	\$1,438.24	\$1,392.22	\$7,644.84
31		Change	\$0.00	\$0.00	\$0.00	\$0.00	\$233.17	\$224.06	\$457.23
32		% Chg	0.00%	0.00%	0.00%	0.00%	16.21%	16.09%	5.98%

*-Note- Weighted by usage.

NORTHERN UTILITIES, INC. -- NEW HAMPSHIRE DIVISION
Impact of Rate Changes on Residential Heating Bills by Usage Level
Comparison of Summer Proposed vs. Currently Effective Summer 2022 Bills

Residential Heating		
	<u>Current Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$22.20	\$22.20
First 50 Therms	\$0.8841	\$0.8841
Over 50 therms	\$0.8841	\$0.8841
LDAC	\$0.0816	\$0.0816
Average CGA	\$0.8075	\$0.8633

Usage (Therms)	Current Bill Amount	Proposed Bill Amount	Total Bill		Base Rate		COG		LDAC	
			\$	%	\$	%	\$	%	\$	%
5	\$31.07	\$31.35	\$0.28	0.9%	\$0.00	0.0%	\$0.28	0.9%	\$0.00	0.0%
10	\$39.93	\$40.49	\$0.56	1.4%	\$0.00	0.0%	\$0.56	1.4%	\$0.00	0.0%
20	\$57.66	\$58.78	\$1.12	1.9%	\$0.00	0.0%	\$1.12	1.9%	\$0.00	0.0%
Monthly*	\$66.53	\$67.93	\$1.39	2.1%	\$0.00	0.0%	\$1.39	2.1%	\$0.00	0.0%
30	\$75.40	\$77.07	\$1.67	2.2%	\$0.00	0.0%	\$1.67	2.2%	\$0.00	0.0%
45	\$101.99	\$104.51	\$2.51	2.5%	\$0.00	0.0%	\$2.51	2.5%	\$0.00	0.0%
50	\$110.86	\$113.65	\$2.79	2.5%	\$0.00	0.0%	\$2.79	2.5%	\$0.00	0.0%
75	\$155.19	\$159.38	\$4.18	2.7%	\$0.00	0.0%	\$4.18	2.7%	\$0.00	0.0%
125	\$243.85	\$250.83	\$6.97	2.9%	\$0.00	0.0%	\$6.97	2.9%	\$0.00	0.0%
150	\$288.18	\$296.55	\$8.37	2.9%	\$0.00	0.0%	\$8.37	2.9%	\$0.00	0.0%
200	\$376.84	\$388.00	\$11.16	3.0%	\$0.00	0.0%	\$11.16	3.0%	\$0.00	0.0%

* Monthly amount for benchmarking purposes, does not represent the average monthly use of Northern's residential class.