

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
May 2022 Estimated

1	April 30, 2022 Target Balance	\$ (5,202,006)	
2			
3	Forecasted firm therm sales 05/01/22-10/31/22		
4	Residential Heat & Non Heat	3,673,138	Attachment 2, PG. 2, Line 2
5	HLF Classes	1,996,958	Attachment 2, PG. 2, Line 3
6	LLF Classes	3,236,934	Attachment 2, PG. 2, Line 4
7			
8	Current recovery rate per therm		
9	Residential heat & non heat	\$0.6361	Attachment 2, PG. 1, Line 7
10	HLF classes	\$0.5925	Attachment 2, PG. 1, Line 8
11	LLF classes	\$0.6630	Attachment 2, PG. 1, Line 9
12			
13	Total	\$ (5,665,768)	(LN 4 * Ln 9) + (LN 5 * LN 10) + (LN 6 * LN 11)
14			
15	Forecasted recovered costs at current rates 05/01/22 - 10/31/22	\$ (5,665,768)	LN 13
16	Actual recovered costs	\$ -	
17	Estimated total recovered costs 05/01/22 - 10/31/22	\$ (5,665,768)	LN 15 + LN 16
18			
19	Revised projected direct gas costs [1]	\$ 12,588,018	Attachment 2, PG. 2, Line 68
20	Revised projected indirect gas costs [2]	\$ 215,099	Attachment 2, PG. 4, Line 100
21	Revised total projected gas costs 05/01/2022 - 10/31/2022	\$ 12,803,117	LN 19 + LN 20
22			
23	Projected October 31, 2022 Summer Season Balance	\$ 1,935,343	LN 1 + LN 17 + LN 21
24			
25	Projected Winter Season Variance	\$ 426,968	Attachment 2, Page 3, LN 110
26			
27	Projected End of Year Balance	\$ 2,362,311	Attachment 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	25.46%	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)	\$ 512,125	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 - June through October 2022	6,999,419	Attachment 2, PG. 1, Line 5 - June through October
44			
45	Increase in cost of gas rates - June through October 2022 - per therm	\$ 0.2765	LN 23 / LN 43

NOTES

[1] Reflects futures prices as of May 9, 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

Sales Revenues	Winter							Summer						
	Oct-21	(Actual) Nov-21	(Actual) Dec-21	(Actual) Jan-22	(Actual) Feb-22	(Actual) Mar-22	(Forecast) Apr-22	(Forecast) May-22	(Forecast) Jun-22	(Forecast) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22	
Volumes														
Residential Heat & Non Heat							1,615,855	791,744	517,185	437,049	443,237	491,840	992,084	
Sales HLF Classes							280,756	418,861	250,296	285,038	254,950	275,778	512,036	
Sales LLF Classes							1,559,929	697,006	455,024	386,854	392,235	440,500	865,314	
Total							3,456,540	1,907,611	1,257,246	1,074,199	1,090,422	1,208,118	2,369,434	
Rates														
Residential Heat & Non Heat CGA							\$ 1.0547	\$ 0.6361	\$ 0.6361	\$ 0.6361	\$ 0.6361	\$ 0.6361	\$ 0.6361	
Sales HLF Classes CGA							\$ 0.9608	\$ 0.5925	\$ 0.5925	\$ 0.5925	\$ 0.5925	\$ 0.5925	\$ 0.5925	
Sales LLF Classes CGA							\$ 1.0706	\$ 0.6630	\$ 0.6630	\$ 0.6630	\$ 0.6630	\$ 0.6630	\$ 0.6630	
Revenues														
Residential Heat & Non Heat					\$ -		\$ (1,704,242)	\$ (503,628)	\$ (328,981)	\$ (278,007)	\$ (281,943)	\$ (312,860)	\$ (631,064)	
Sales HLF Classes					\$ -		\$ (269,751)	\$ (248,175)	\$ (168,885)	\$ (148,300)	\$ (151,058)	\$ (163,398)	\$ (303,382)	
Sales LLF Classes					\$ -		\$ (1,670,060)	\$ (462,115)	\$ (301,681)	\$ (256,484)	\$ (260,052)	\$ (292,051)	\$ (573,703)	
Total Sales		\$ (3,825,791)	\$ (5,514,058)	\$ (7,324,017)	\$ (6,736,040)	\$ (5,403,945)	\$ (3,644,053)	\$ (1,213,919)	\$ (799,547)	\$ (682,791)	\$ (693,053)	\$ (768,309)	\$ (1,508,149)	
Gas Costs and Credits														
Demand Costs (net of Capacity Assignment)														
Pipeline							\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	
Storage							\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	
On-system Peaking							\$ 97,714	\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975	
Off-System Peaking							\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	
Total Demand Costs							\$ 1,510,232	\$ 1,429,493						
Asset Management and Capacity Release														
NUI AMA Revenue							\$ (1,743,852)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	
NUI Capacity Release							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
NUI AMA Rev & Cap. Release Subtotal							\$ (717,957)	\$ (340,264)						
NH AMA Revenue							\$ (717,957)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	
NH Capacity Release							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
NH Total Asset Management and Capacity Release							\$ (717,957)	\$ (340,264)						
Outage Replacement							\$ 7,067	\$ 328	\$ 328	\$ 328	\$ 328	\$ 328	\$ 328	
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	\$ 799,342	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	
NUI Commodity Costs														
NUI Total Pipeline Volumes							1,103,596	623,919	427,539	395,807	401,078	426,093	718,859	
Pipeline Costs Modeled in Sendout™							\$ 4,220,796	\$ 2,197,031	\$ 1,475,856	\$ 1,373,084	\$ 1,382,979	\$ 1,410,783	\$ 2,512,274	
NYMEX Price Used for Forecast							\$ 3,930	\$ 3,810	\$ 3,830	\$ 3,871	\$ 3,870	\$ 3,863	\$ 3,890	
NYMEX Price Used for Update							\$ 5,187	\$ 7,267	\$ 7,026	\$ 7,106	\$ 7,091	\$ 7,050	\$ 7,052	
Increase/(Decrease) NYMEX Price							\$ 1.25	\$ 3.46	\$ 3.19	\$ 3.24	\$ 3.21	\$ 3.19	\$ 3.16	
Percentage of purchases tied to NYMEX							100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
Increase/(Decrease) in Pipeline Costs							\$ 1,377,288	\$ 2,156,888	\$ 1,362,567	\$ 1,280,436	\$ 1,288,263	\$ 1,359,663	\$ 2,273,032	
Total Updated Pipeline Costs							\$ 5,598,084	\$ 4,353,919	\$ 2,838,423	\$ 2,653,519	\$ 2,671,242	\$ 2,770,446	\$ 4,785,306	
New Hampshire Allocated Percentage							31.67%	30.87%	29.65%	27.35%	27.40%	28.59%	33.29%	
NH Updated Pipeline Costs							\$ 1,772,670	\$ 1,344,039	\$ 841,704	\$ 725,855	\$ 732,036	\$ 792,111	\$ 1,593,130	
NH Peaking Volumes														
NH Peaking Costs Modeled in Sendout							\$ 1,794	\$ 1,860	\$ 1,800	\$ 1,860	\$ 1,860	\$ 1,800	\$ 1,860	
Percentage of purchases tied to NYMEX							10,221	10,555	11,094	11,464	11,464	13,455	14,402	
Change in NYMEX Price							3.18%	3.18%	3.18%	3.18%	3.18%	3.18%	3.18%	
Increase/(Decrease) in Peaking Costs							\$ 1.25	\$ 3.46	\$ 3.19	\$ 3.24	\$ 3.21	\$ 3.19	\$ 3.16	
Total Update Peaking Costs							\$ 71	\$ 205	\$ 183	\$ 192	\$ 190	\$ 183	\$ 187	
New Hampshire Allocated Percentage							10,292	10,760	11,276	11,655	11,654	13,638	14,589	
NH Updated Peaking Costs							\$ 3,259	\$ 3,322	\$ 3,344	\$ 3,188	\$ 3,194	\$ 3,899	\$ 4,857	
NH Commodity Costs														
Pipeline							\$ 1,772,670	\$ 1,344,039	\$ 841,704	\$ 725,855	\$ 732,036	\$ 792,111	\$ 1,593,130	
Storage							\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Peaking							\$ 3,259	\$ 3,322	\$ 3,344	\$ 3,188	\$ 3,194	\$ 3,899	\$ 4,857	
Total Commodity Costs		\$ 1,688,692	\$ 3,522,039	\$ 5,641,895	\$ 4,036,029	\$ 2,592,281	\$ 1,775,929	\$ 1,347,361	\$ 845,048	\$ 729,043	\$ 735,230	\$ 796,010	\$ 1,597,987	
Inventory Finance Charge							\$ 114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Anticipated Direct Cost of Gas		\$ 2,977,059	\$ 4,791,616	\$ 6,940,621	\$ 5,361,599	\$ 3,847,488	\$ 2,575,385	\$ 2,436,917	\$ 1,934,604	\$ 1,818,600	\$ 1,824,786	\$ 1,885,566	\$ 2,687,544	

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

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Sales Revenues				
Volumes	Winter	Summer	Prior Period	Total
Residential Heat & Non Heat				
Sales HLF Classes				
Sales LLF Classes				
Total				
Rates				
Residential Heat & Non Heat CGA				
Sales HLF Classes CGA				
Sales LLF Classes CGA				
Revenues				
Residential Heat & Non Heat				
Sales HLF Classes				
Sales LLF Classes				
Total Sales	\$ (32,447,904)	\$ (5,665,768)		\$ (38,113,672)
Gas Costs and Credits				
				Total
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	\$ 7,236,789	\$ 6,537,339		\$ 13,774,128
NUI Commodity Costs				
NUI Total Pipeline Volumes				
Pipeline Costs Modeled in Sendout™				
NYMEX Price Used for Forecast				
NYMEX Price Used for Update				
Increase/(Decrease) NYMEX Price				
Percentage of purchases tied to NYMEX				
Increase/(Decrease) in Pipeline Costs				
Total Updated Pipeline Costs				
New Hampshire Allocated Percentage				
NH Updated Pipeline Costs				
NH Peaking Volumes				
NH Peaking Volumes				
NH Peaking Costs Modeled in Sendout				
Percentage of purchases tied to NYMEX				
Change in NYMEX Price				
Increase/(Decrease) in Peaking Costs				
Total Update Peaking Costs				
New Hampshire Allocated Percentage				
NH Updated Peaking Costs				
NH Commodity Costs				
Pipeline				
Storage				
Peaking				
Total Commodity Costs	\$ 19,256,864	\$ 6,050,679		\$ 25,307,543
Inventory Finance Charge	\$ 114	\$ -		\$ 114
Total Anticipated Direct Cost of Gas	\$ 26,493,768	\$ 12,588,018		\$ 39,081,785

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	(Forecast) Apr-22	(Forecast) May-22	(Forecast) Jun-22	(Forecast) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Working Capital													
Total Anticipated Direct Cost of Gas		\$ 3,133,678	\$ 4,948,234	\$ 7,097,240	\$ 5,518,217	\$ 4,004,107	\$ 2,732,004	\$ 2,456,392	\$ 1,954,079	\$ 1,838,074	\$ 1,844,261	\$ 1,905,041	\$ 2,707,018
Working Capital Percentage		0.0892%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%
Working Capital Allowance		\$ 2,795	\$ 4,414	\$ 6,331	\$ 4,922	\$ 3,572	\$ 2,437	\$ 1,743	\$ 1,640	\$ 1,640	\$ 1,645	\$ 1,699	\$ 2,415
Beginning Period Working Capital Balance		\$ (1,398)	\$ 1,398	\$ 5,821	\$ 12,176	\$ 17,138	\$ 20,761	\$ 23,258	\$ 25,515	\$ 27,329	\$ 29,045	\$ 30,771	\$ 32,556
End of Period Working Capital Allowance		\$ 1,398	\$ 5,812	\$ 12,152	\$ 17,099	\$ 20,710	\$ 23,198	\$ 25,449	\$ 27,258	\$ 28,969	\$ 30,690	\$ 32,470	\$ 34,971
Interest		\$ 0	\$ 10	\$ 24	\$ 40	\$ 51	\$ 60	\$ 66	\$ 71	\$ 76	\$ 81	\$ 86	\$ 91
End of period with Interest	\$ (1,398)	\$ 1,398	\$ 5,821	\$ 12,176	\$ 17,138	\$ 20,761	\$ 23,258	\$ 25,515	\$ 27,329	\$ 29,045	\$ 30,771	\$ 32,556	\$ 35,062
Bad Debt													
Projected Bad Debt	\$ -	\$ 8,836	\$ 14,798	\$ (10,232)	\$ 4,559	\$ 10,087	\$ 7,592	\$ 15,185	\$ 15,185	\$ 22,777	\$ 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)	\$ 6,135	\$ 21,357	\$ 44,223	\$ 59,548	\$ 82,518
End of Period Bad Debt Balance		\$ (35,424)	\$ (20,734)	\$ (31,042)	\$ (26,554)	\$ (16,545)	\$ (9,011)	\$ 6,139	\$ 21,320	\$ 44,134	\$ 59,408	\$ 82,326	\$ 97,703
Interest		\$ (108)	\$ (76)	\$ (70)	\$ (58)	\$ (35)	\$ (4)	\$ 37	\$ 89	\$ 140	\$ 192	\$ 244	\$ 244
End of Period Bad Debt Balance with Interest	\$ (44,260)	\$ (35,532)	\$ (20,810)	\$ (31,113)	\$ (26,632)	\$ (16,604)	\$ (9,046)	\$ 6,135	\$ 21,357	\$ 44,223	\$ 59,548	\$ 82,518	\$ 97,947
Local Production and Storage Capacity		\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Overhead		\$ 77,268	\$ 77,268	\$ 77,268	\$ 77,268	\$ 77,268	\$ 77,268	\$ 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	\$ (436,716)	\$ (1,004,488)	\$ (1,234,293)	\$ (2,457,107)	\$ (3,865,496)	\$ (4,789,249)	\$ (3,558,064)	\$ (2,411,605)	\$ (1,261,289)	\$ (111,937)	\$ 1,026,031
Net Costs - Revenues		\$ (692,113)	\$ (565,823)	\$ (226,777)	\$ (1,217,823)	\$ (1,399,839)	\$ (912,049)	\$ 1,242,474	\$ 1,154,532	\$ 1,155,283	\$ 1,151,208	\$ 1,136,732	\$ 1,198,869
Ending Balance before Interest		\$ (436,471)	\$ (1,002,539)	\$ (1,231,265)	\$ (2,452,115)	\$ (3,856,946)	\$ (4,777,545)	\$ (3,546,776)	\$ (2,403,532)	\$ (1,256,322)	\$ (110,080)	\$ 1,024,795	\$ 2,224,900
Average Balance		\$ (90,414)	\$ (719,627)	\$ (1,117,876)	\$ (1,843,204)	\$ (3,157,027)	\$ (4,321,521)	\$ (4,168,012)	\$ (2,980,798)	\$ (1,833,963)	\$ (685,684)	\$ 456,429	\$ 1,625,465
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		\$ (245)	\$ (1,949)	\$ (3,028)	\$ (4,992)	\$ (8,550)	\$ (11,704)	\$ (11,288)	\$ (8,073)	\$ (4,967)	\$ (1,857)	\$ 1,236	\$ 4,402
Ending Balance Incl Interest Expense	\$ 255,642	\$ (436,716)	\$ (1,004,488)	\$ (1,234,293)	\$ (2,457,107)	\$ (3,865,496)	\$ (4,789,249)	\$ (3,558,064)	\$ (2,411,605)	\$ (1,261,289)	\$ (111,937)	\$ 1,026,031	\$ 2,229,302
Total Over/Under Collection Ending Balance	\$ 209,985	\$ (470,850)	\$ (1,019,477)	\$ (1,253,229)	\$ (2,466,601)	\$ (3,861,339)	\$ (4,775,038)	\$ (3,526,414)	\$ (2,362,918)	\$ (1,188,020)	\$ (21,618)	\$ 1,141,105	\$ 2,362,311
Total Indirect Cost of Gas	\$ 209,985	\$ 167,897	\$ 173,815	\$ 149,644	\$ 161,069	\$ 161,720	\$ 154,969	\$ 25,625	\$ 28,438	\$ 39,090	\$ 34,669	\$ 45,465	\$ 41,812
Total Cost of Gas	\$ 209,985	\$ 3,144,957	\$ 4,965,430	\$ 7,090,265	\$ 5,522,668	\$ 4,009,208	\$ 2,730,354	\$ 2,462,542	\$ 1,963,043	\$ 1,857,689	\$ 1,859,455	\$ 1,931,032	\$ 2,729,356
Total Interest	\$ -	\$ (353)	\$ (2,015)	\$ (3,073)	\$ (5,030)	\$ (8,557)	\$ (11,679)	\$ (11,226)	\$ (7,964)	\$ (4,802)	\$ (1,636)	\$ 1,514	\$ 4,738

April 30th Target Balance	\$ (5,202,006)
April 30th Projected Balance	\$ (4,775,038)
Variance	\$ 426,968

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

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	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				\$ 40,138,346
Working Capital Percentage				
Working Capital Allowance	\$ 24,471	\$ 11,333	\$ (1,398)	\$ 34,406
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	\$ 185	\$ 472		\$ 656
End of period with Interest				
Bad Debt				
Projected Bad Debt	\$ 35,639	\$ 106,295	\$ (44,260)	\$ 97,674
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	\$ (426)	\$ 698		\$ 273
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				\$ (19,848,571)
Net Costs - Revenues				\$ 2,024,675
Ending Balance before Interest				\$ (17,823,896)
Average Balance				\$ (18,836,233)
Interest Rate				
Interest Expense				\$ (51,015)
Ending Balance Incl Interest Expense			\$ 255,642	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	\$ 969,114	\$ 215,099	\$ 209,985	\$ 1,394,197
Total Cost of Gas	\$ 27,462,881	\$ 12,803,117	\$ 209,985	\$ 40,475,983
Total Interest	\$ (30,709)	\$ (19,377)		\$ (50,086)

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(*)	51	21	14	12	15	21	133
3	Proposed Summer 2022 Rates							
4	Customer Charge units @	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20
5	First 50 units @	\$33.91	\$14.35	\$9.49	\$7.88	\$10.09	\$14.15	\$89.87
6	Over 50 units @	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40
7	COG 1	\$32.18						\$32.18
8	COG 2		\$19.31					\$19.31
9	COG 3			\$12.77				\$12.77
10	COG 4				\$10.61			\$10.61
11	COG 5					\$13.57		\$13.57
12	COG 6						\$19.04	\$19.04
13	Summer Period 2022 Avg. COG	\$0.8075 *						
14	LDAC	\$4.13	\$1.73	\$1.14	\$0.95	\$1.21	\$1.70	\$10.86
15	TOTAL	\$92.81	\$57.59	\$45.60	\$41.64	\$47.07	\$57.10	\$341.81
16								
17	Typical Usage: therms	51	21	14	12	15	21	133
18	Currently Effective Summer 2022 Rates							
19	Customer Charge units @	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20
20	First 50 units @	\$33.91	\$14.35	\$9.49	\$7.88	\$10.09	\$14.15	\$89.87
21	Over 50 units @	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40
22	COG 1	\$32.18						\$32.18
23	COG 2		\$13.46					\$13.46
24	COG 3			\$8.90				\$8.90
25	COG 4				\$7.39			\$7.39
26	COG 5					\$9.46		\$9.46
27	COG 6						\$13.27	\$13.27
28	Summer Period 2021 Avg. COG	\$0.6361 *						
29	LDAC	\$4.13	\$1.73	\$1.14	\$0.95	\$1.21	\$1.70	\$10.86
30	TOTAL	\$92.81	\$51.74	\$41.73	\$38.42	\$42.96	\$51.33	\$319.00
31	Change	\$0.00	\$5.85	\$3.87	\$3.21	\$4.11	\$5.77	\$22.82
32	% Chg	0.00%	11.31%	9.27%	8.36%	9.57%	11.24%	7.15%

*-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	283
3	Proposed Summer 2022 Rates								
4	Customer Charge	units @ \$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$450.54
5	First	75 units @ \$0.2090	\$15.68	\$8.85	\$4.94	\$4.20	\$6.56	\$9.27	\$49.50
6	Over	75 units @ \$0.2090	\$9.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.75
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 \$0.9395					\$29.49		\$29.49
12		COG 6 \$0.9395						\$41.68	\$41.68
13	Summer Period 2022 Avg. COG \$0.8209*								
14	LDAC \$0.0504		\$6.13	\$2.13	\$1.19	\$1.01	\$1.58	\$2.24	\$14.29
15	TOTAL		\$187.29	\$125.86	\$103.45	\$99.19	\$112.72	\$128.28	\$756.79
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16									
17	Typical Usage: therms		122	42	24	20	31	44	283
18	Currently Effective Summer 2022 Rates								
19	Customer Charge	units @ \$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$450.54
20	First	75 units @ \$0.2090	\$15.68	\$8.85	\$4.94	\$4.20	\$6.56	\$9.27	\$49.50
21	Over	75 units @ \$0.2090	\$9.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.75
22		COG 1 \$0.6630	\$80.65						\$80.65
23		COG 2 \$0.6630		\$28.08					\$28.08
24		COG 3 \$0.6630			\$15.68				\$15.68
25		COG 4 \$0.6630				\$13.32			\$13.32
26		COG 5 \$0.6630					\$20.81		\$20.81
27		COG 6 \$0.6630						\$29.41	\$29.41
28	Summer Period 2021 Avg. COG \$0.6630*								
29	LDAC \$0.0504		\$6.13	\$2.13	\$1.19	\$1.01	\$1.58	\$2.24	\$14.29
30	TOTAL		\$187.29	\$114.15	\$96.91	\$93.63	\$104.04	\$116.01	\$712.04
31	Change		\$0.00	\$11.71	\$6.54	\$5.56	\$8.68	\$12.27	\$44.75
32	% Chg		0.00%	10.26%	6.75%	5.94%	8.34%	10.57%	6.29%

*-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	Typical Usage: therms(1)		1,273	552	360	210	438	676	3,509
3	Proposed Summer 2022 Rates								
4	Customer Charge	units @ \$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84
5	All	units @ \$0.2120	\$269.83	\$117.05	\$76.31	\$44.47	\$92.94	\$143.24	\$743.85
6		COG 1 \$0.6630	\$843.87						\$843.87
7		COG 2 \$0.9395		\$518.71					\$518.71
8		COG 3 \$0.9395			\$338.18				\$338.18
9		COG 4 \$0.9395				\$197.06			\$197.06
10		COG 5 \$0.9395					\$411.88		\$411.88
11		COG 6 \$0.9395						\$634.80	\$634.80
12		Summer Period 2022 Avg. COG \$0.8392*							
13		LDAC \$0.0504	\$64.15	\$27.83	\$18.14	\$10.57	\$22.10	\$34.05	\$176.84
14		TOTAL	\$1,400.49	\$886.22	\$655.28	\$474.74	\$749.56	\$1,034.74	\$5,201.03
15	Typical Usage: therms		1,273	552	360	210	438	676	3,509
17	Currently Effective Summer 2022 Rates								
18	Customer Charge	units @ \$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84
19	All	units @ \$0.2120	\$269.83	\$117.05	\$76.31	\$44.47	\$92.94	\$143.24	\$743.85
20		COG 1 \$0.6630	\$843.87						\$843.87
21		COG 2 \$0.6630		\$366.05					\$366.05
22		COG 3 \$0.6630			\$238.66				\$238.66
23		COG 4 \$0.6630				\$139.07			\$139.07
24		COG 5 \$0.6630					\$290.66		\$290.66
25		COG 6 \$0.6630						\$447.97	\$447.97
26		Summer Period 2021 Avg. COG \$0.6630*							
27		LDAC \$0.0504	\$64.15	\$27.83	\$18.14	\$10.57	\$22.10	\$34.05	\$176.84
28		TOTAL	\$1,400.49	\$733.57	\$555.75	\$416.74	\$628.34	\$847.91	\$4,582.80
29		Change	\$0.00	\$152.66	\$99.53	\$58.00	\$121.22	\$186.83	\$618.23
30		% Chg	0.00%	20.81%	17.91%	13.92%	19.29%	22.03%	13.49%

*-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 @ \$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84
5	First	1,000 units @ \$0.1562	\$154.65	\$148.50	\$154.87	\$144.92	\$156.20	\$156.20	\$915.34
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 \$0.8690					\$975.07		\$975.07
12		COG 6 \$0.8690						\$937.00	\$937.00
13		Summer Period 2022 Avg. COG \$0.8238*							
14		LDAC \$0.0504	\$49.90	\$47.91	\$49.97	\$46.76	\$56.55	\$54.34	\$305.44
15		TOTAL	\$1,013.83	\$1,245.19	\$1,289.10	\$1,220.54	\$1,426.48	\$1,380.46	\$7,575.60
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 @ \$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84
20	First	1,000 units @ \$0.1562	\$154.65	\$148.50	\$154.87	\$144.92	\$156.20	\$156.20	\$915.34
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 \$0.5925		\$563.28					\$563.28
24		COG 3 \$0.5925			\$587.46				\$587.46
25		COG 4 \$0.5925				\$549.70			\$549.70
26		COG 5 \$0.5925					\$664.82		\$664.82
27		COG 6 \$0.5925						\$638.87	\$638.87
28		Summer Period 2021 Avg. COG \$0.5925*							
29		LDAC \$0.0504	\$49.90	\$47.91	\$49.97	\$46.76	\$56.55	\$54.34	\$305.44
30		TOTAL	\$1,013.83	\$982.33	\$1,014.95	\$964.02	\$1,116.23	\$1,082.32	\$6,173.67
31		Change	\$0.00	\$262.86	\$274.15	\$256.53	\$310.25	\$298.14	\$1,401.93
32		% Chg	0.00%	26.76%	27.01%	26.61%	27.79%	27.55%	22.71%

*-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	\$0.6782	\$0.6782
Over 50 therms	\$0.6782	\$0.6782
LDAC	\$0.0816	\$0.0816
Average CGA	\$0.6361	\$0.8075

Usage (Therms)	Current Bill Amount	Proposed Bill Amount	Total Bill		Base Rate		COG		LDAC	
			Amount	%	Amount	%	Amount	%	Amount	%
5	\$29.18	\$30.04	\$0.86	2.9%	\$0.00	0.0%	\$0.86	2.9%	\$0.00	0.0%
10	\$36.16	\$37.87	\$1.71	4.7%	\$0.00	0.0%	\$1.71	4.7%	\$0.00	0.0%
20	\$50.12	\$53.55	\$3.43	6.8%	\$0.00	0.0%	\$3.43	6.8%	\$0.00	0.0%
Monthly* 25	\$57.10	\$61.38	\$4.29	7.5%	\$0.00	0.0%	\$4.29	7.5%	\$0.00	0.0%
30	\$64.08	\$69.22	\$5.14	8.0%	\$0.00	0.0%	\$5.14	8.0%	\$0.00	0.0%
45	\$85.02	\$92.73	\$7.71	9.1%	\$0.00	0.0%	\$7.71	9.1%	\$0.00	0.0%
50	\$92.00	\$100.57	\$8.57	9.3%	\$0.00	0.0%	\$8.57	9.3%	\$0.00	0.0%
75	\$126.89	\$139.75	\$12.86	10.1%	\$0.00	0.0%	\$12.86	10.1%	\$0.00	0.0%
125	\$196.69	\$218.11	\$21.43	10.9%	\$0.00	0.0%	\$21.43	10.9%	\$0.00	0.0%
150	\$231.59	\$257.30	\$25.71	11.1%	\$0.00	0.0%	\$25.71	11.1%	\$0.00	0.0%
200	\$301.38	\$335.66	\$34.28	11.4%	\$0.00	0.0%	\$34.28	11.4%	\$0.00	0.0%

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