

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
June 2022 Estimated

1	April 30, 2022 Target Balance	\$ (5,202,006)	
2			
3	Forecasted firm therm sales 06/01/22-10/31/22		
4	Residential Heat & Non Heat	2,881,394	Attachment 2, PG. 2, Line 2
5	HLF Classes	1,578,097	Attachment 2, PG. 2, Line 3
6	LLF Classes	2,539,928	Attachment 2, PG. 2, Line 4
7			
8	Current recovery rate per therm		
9	Residential heat & non heat	\$0.9126	Attachment 2, PG. 1, Line 7
10	HLF classes	\$0.8690	Attachment 2, PG. 1, Line 8
11	LLF classes	\$0.9395	Attachment 2, PG. 1, Line 9
12			
13	Total	\$ (6,387,189)	(LN 4 * Ln 9) + (LN 5 * LN 10) + (LN 6 * LN 11)
14			
15	Forecasted recovered costs at current rates 06/01/22 - 10/31/22	<u>\$ (6,387,189)</u>	LN 13
16	Actual recovered costs 05/01/2022 - 05/31/2022	<u>\$ (1,106,465)</u>	LN 15 + LN 16
17	Estimated total recovered costs 05/01/22 - 10/31/22	<u>\$ (7,493,654)</u>	LN 15 + LN 16
18			
19	Revised projected direct gas costs [1]	\$ 13,564,251	Attachment 2, PG. 2, Line 68
20	Revised projected indirect gas costs [2]	\$ 191,880	Attachment 2, PG. 4, Line 100
21	Revised total projected gas costs 05/01/2022 - 10/31/2022	\$ 13,756,131	LN 19 + LN 20
22			
23	Projected October 31, 2022 Summer Season Balance	\$ 1,060,472	LN 1 + LN 17 + LN 21
24			
25	Projected Winter Season Variance	\$ 56,310	Attachment 2, Page 3, LN 110
26			
27	Projected End of Year Balance	\$ 1,116,782	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	12.40%	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)	\$ 550,245	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 - July through October 2022	5,742,173	Attachment 2, PG. 1, Line 5 - July through October
44			
45	Increase in cost of gas rates - July through October 2022 - per therm	\$ 0.1847	LN 23 / LN 43
46			
47	Projected Sales - August through October 2022	4,667,974	Attachment 2, PG. 1, Line 5 - August through October
48			
49	Increase in cost of gas rates - August through October 2022 - per therm	\$ 0.2272	LN 23 / LN 47

NOTES

[1] Reflects futures prices as of June 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	(Forecast) Jun-22	(Forecast) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Sales Revenues													
Volumes													
Residential Heat & Non Heat									517,185	437,049	443,237	491,840	992,084
Sales HLF Classes									285,038	250,296	254,950	275,778	512,036
Sales LLF Classes									455,024	386,854	392,235	440,500	865,314
Total									1,257,246	1,074,199	1,090,422	1,208,118	2,369,434
Rates													
Residential Heat & Non Heat CGA									\$0.9126	\$0.9126	\$0.9126	\$0.9126	\$0.9126
Sales HLF Classes CGA									\$0.8690	\$0.8690	\$0.8690	\$0.8690	\$0.8690
Sales LLF Classes CGA									\$0.9395	\$0.9395	\$0.9395	\$0.9395	\$0.9395
Revenues													
Residential Heat & Non Heat					\$ -		\$ -		\$ (471,983)	\$ (398,851)	\$ (404,498)	\$ (448,853)	\$ (905,376)
Sales HLF Classes					\$ -		\$ -		\$ (247,698)	\$ (217,507)	\$ (221,551)	\$ (239,651)	\$ (444,960)
Sales LLF Classes					\$ -		\$ -		\$ (427,495)	\$ (363,450)	\$ (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)	\$ (1,147,175)	\$ (979,807)	\$ (994,555)	\$ (1,102,354)	\$ (2,163,298)
Gas Costs and Credits													
Demand Costs (net of Capacity Assignment)													
Pipeline									\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451
Storage									\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421
On-system Peaking									\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975
Off-System Peaking									\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646
Total Demand Costs									\$ 1,429,493	\$ 1,429,493	\$ 1,429,493	\$ 1,429,493	\$ 1,429,493
Asset Management and Capacity Release													
NUI AMA Revenue									\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)
NUI Capacity Release									\$ -	\$ -	\$ -	\$ -	\$ -
NUI AMA Rev & Cap. Release Subtotal									\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)
NH Total Asset Management and Capacity Release									\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)
Outage Replacement									\$ 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	\$ 757,863	\$ 1,066,612	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556
NUI Commodity Costs													
NUI Total Pipeline Volumes									427,539	395,807	401,078	426,093	718,859
Pipeline Costs Modeled in Sendout™									\$ 1,475,856	\$ 1,373,084	\$ 1,382,979	\$ 1,410,783	\$ 2,512,274
NYMEX Price Used for Forecast									\$ 3,8390	\$ 3,8710	\$ 3,8790	\$ 3,8630	\$ 3,8900
NYMEX Price Used for Update									\$ 8,9080	\$ 8,8500	\$ 8,8670	\$ 8,8470	\$ 8,8450
Increase/(Decrease) NYMEX Price									\$ 5.07	\$ 4.98	\$ 4.99	\$ 4.98	\$ 4.96
Percentage of purchases tied to NYMEX									100.00%	100.00%	100.00%	100.00%	100.00%
Increase/(Decrease) in Pipeline Costs									\$ 2,167,195	\$ 1,970,723	\$ 2,000,577	\$ 2,123,648	\$ 3,561,946
Total Updated Pipeline Costs									\$ 3,643,052	\$ 3,343,807	\$ 3,383,556	\$ 3,534,430	\$ 6,074,220
New Hampshire Allocated Percentage									29.65%	27.35%	27.40%	28.59%	33.29%
NH Updated Pipeline Costs									\$ 1,080,308	\$ 914,679	\$ 927,241	\$ 1,010,545	\$ 2,022,237
NH Peaking Volumes									1,800	1,860	1,860	1,800	1,860
NH Peaking Costs Modeled in Sendout									\$ 11,094	\$ 11,464	\$ 11,464	\$ 13,455	\$ 14,402
Percentage of purchases tied to NYMEX									3.18%	3.18%	3.18%	3.18%	3.18%
Change in NYMEX Price									\$ 5.07	\$ 4.98	\$ 4.99	\$ 4.98	\$ 4.96
Increase/(Decrease) in Peaking Costs									\$ 291	\$ 295	\$ 295	\$ 286	\$ 293
Total Update Peaking Costs									\$ 11,384	\$ 11,758	\$ 11,759	\$ 13,741	\$ 14,695
New Hampshire Allocated Percentage									29.65%	27.35%	27.40%	28.59%	33.29%
NH Updated Peaking Costs									\$ 3,376	\$ 3,216	\$ 3,222	\$ 3,929	\$ 4,892
NH Commodity Costs													
Pipeline									\$ 1,080,308	\$ 914,679	\$ 927,241	\$ 1,010,545	\$ 2,022,237
Storage									\$ -	\$ -	\$ -	\$ -	\$ -
Peaking									\$ 3,376	\$ 3,216	\$ 3,222	\$ 3,929	\$ 4,892
Total Commodity Costs		\$ 1,688,692	\$ 3,522,039	\$ 5,641,895	\$ 4,036,029	\$ 2,592,281	\$ 1,320,941	\$ 1,076,211	\$ 1,083,684	\$ 917,896	\$ 930,464	\$ 1,014,474	\$ 2,027,130
Inventory Finance Charge									\$ -	\$ -	\$ -	\$ -	\$ -
Total Anticipated Direct Cost of Gas		\$ 2,977,059	\$ 4,791,616	\$ 6,940,621	\$ 5,361,599	\$ 3,847,488	\$ 2,078,805	\$ 2,142,823	\$ 2,173,240	\$ 2,007,452	\$ 2,020,020	\$ 2,104,030	\$ 3,116,686

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

Sales Revenues				
	Winter	Summer	Prior Period	Total
Volumes				
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	\$ (32,321,037)	\$ (7,493,654)		\$ (39,814,690)
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	\$ 7,195,310	\$ 6,514,394		\$ 13,709,705
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 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	\$ 18,801,877	\$ 7,049,857		\$ 25,851,734
Inventory Finance Charge	\$ -	\$ -		\$ -
Total Anticipated Direct Cost of Gas	\$ 25,997,187	\$ 13,564,251		\$ 39,561,438

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	(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	\$ 2,235,423	\$ 2,162,297	\$ 2,192,715	\$ 2,026,927	\$ 2,039,495	\$ 2,123,505	\$ 3,136,161
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	\$ 1,994	\$ 1,929	\$ 1,956	\$ 1,808	\$ 1,819	\$ 1,894	\$ 2,797
Beginning Period Working Capital Balance		\$ (1,398)	\$ 1,398	\$ 5,821	\$ 12,176	\$ 17,138	\$ 20,761	\$ 22,814	\$ 24,807	\$ 26,833	\$ 28,716	\$ 30,616	\$ 32,595
End of Period Working Capital Allowance		\$ 1,398	\$ 5,812	\$ 12,152	\$ 17,099	\$ 20,710	\$ 22,755	\$ 24,743	\$ 26,763	\$ 28,641	\$ 30,535	\$ 32,510	\$ 35,393
Interest		\$ 0	\$ 10	\$ 24	\$ 40	\$ 51	\$ 59	\$ 64	\$ 70	\$ 75	\$ 80	\$ 85	\$ 92
End of period with Interest	\$ (1,398)	\$ 1,398	\$ 5,821	\$ 12,176	\$ 17,138	\$ 20,761	\$ 22,814	\$ 24,807	\$ 26,833	\$ 28,716	\$ 30,616	\$ 32,595	\$ 35,485
Bad Debt													
Projected Bad Debt	\$ -	\$ 8,836	\$ 14,798	\$ (10,232)	\$ 4,559	\$ 10,087	\$ 7,592	\$ 3,982	\$ 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)	\$ (5,083)	\$ 10,109	\$ 32,944	\$ 48,239	\$ 71,178
End of Period Bad Debt Balance		\$ (35,424)	\$ (20,734)	\$ (31,042)	\$ (26,554)	\$ (16,545)	\$ (9,011)	\$ (5,064)	\$ 10,102	\$ 32,886	\$ 48,129	\$ 71,017	\$ 86,363
Interest		\$ (108)	\$ (76)	\$ (70)	\$ (78)	\$ (58)	\$ (35)	\$ (19)	\$ 7	\$ 58	\$ 110	\$ 161	\$ 213
End of Period Bad Debt Balance with Interest	\$ (44,260)	\$ (35,532)	\$ (20,810)	\$ (31,113)	\$ (26,632)	\$ (16,604)	\$ (9,046)	\$ (5,083)	\$ 10,109	\$ 32,944	\$ 48,239	\$ 71,178	\$ 86,576
Local Production and Storage Capacity		\$ 79,351	\$ 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)	\$ (5,159,464)	\$ (4,116,175)	\$ (3,080,367)	\$ (2,040,172)	\$ (999,342)	\$ 20,485
Net Costs - Revenues		\$ (692,113)	\$ (565,823)	\$ (226,777)	\$ (1,217,823)	\$ (1,399,839)	\$ (1,281,763)	\$ 1,055,833	\$ 1,045,540	\$ 1,047,120	\$ 1,044,941	\$ 1,021,151	\$ 972,863
Ending Balance before Interest		\$ (436,471)	\$ (1,002,539)	\$ (1,231,265)	\$ (2,452,115)	\$ (3,856,946)	\$ (5,147,259)	\$ (4,103,631)	\$ (3,070,635)	\$ (2,033,248)	\$ (995,232)	\$ 21,809	\$ 993,348
Average Balance		\$ (90,414)	\$ (719,627)	\$ (1,117,876)	\$ (1,843,204)	\$ (3,157,027)	\$ (4,506,378)	\$ (4,631,547)	\$ (3,593,405)	\$ (2,556,807)	\$ (1,517,702)	\$ (488,767)	\$ 506,917
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)	\$ (12,205)	\$ (12,544)	\$ (9,732)	\$ (6,925)	\$ (4,110)	\$ (1,324)	\$ 1,373
Ending Balance Incl Interest Expense	\$ 255,642	\$ (436,716)	\$ (1,004,488)	\$ (1,234,293)	\$ (2,457,107)	\$ (3,865,496)	\$ (5,159,464)	\$ (4,116,175)	\$ (3,080,367)	\$ (2,040,172)	\$ (999,342)	\$ 20,485	\$ 994,721
Total Over/Under Collection Ending Balance	\$ 209,985	\$ (470,850)	\$ (1,019,477)	\$ (1,253,229)	\$ (2,466,801)	\$ (3,861,339)	\$ (5,145,696)	\$ (4,096,451)	\$ (3,043,425)	\$ (1,978,512)	\$ (920,487)	\$ 124,258	\$ 1,116,782
Total Indirect Cost of Gas	\$ 209,985	\$ 167,897	\$ 173,815	\$ 149,644	\$ 161,069	\$ 161,720	\$ 154,025	\$ 12,887	\$ 26,960	\$ 37,269	\$ 32,559	\$ 43,070	\$ 39,136
Total Cost of Gas	\$ 209,985	\$ 3,144,957	\$ 4,965,430	\$ 7,090,265	\$ 5,522,668	\$ 4,009,208	\$ 2,232,829	\$ 2,155,710	\$ 2,200,200	\$ 2,044,721	\$ 2,052,579	\$ 2,147,100	\$ 3,155,821
Total Interest	\$ -	\$ (353)	\$ (2,015)	\$ (3,073)	\$ (5,030)	\$ (8,557)	\$ (12,181)	\$ (12,498)	\$ (9,656)	\$ (6,791)	\$ (3,920)	\$ (1,077)	\$ 1,678

April 30th Target Balance	\$ (5,202,006)
April 30th Projected Balance	\$ (5,145,696)
Variance	\$ 56,310

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				\$ 40,617,999
Working Capital Percentage				
Working Capital Allowance	\$ 24,028	\$ 12,204	\$ (1,398)	\$ 34,834
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	\$ 184	\$ 467		\$ 651
End of period with Interest				
Bad Debt				
Projected Bad Debt	\$ 35,639	\$ 95,092	\$ (44,260)	\$ 86,471
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	\$ (426)	\$ 531		\$ 105
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/Under				
Beginning Balance Over/Under Collection				\$ (24,117,493)
Net Costs - Revenues				\$ 803,309
Ending Balance before Interest				\$ (23,314,184)
Average Balance				\$ (23,715,838)
Interest Rate				
Interest Expense				\$ (64,230)
Ending Balance Incl Interest Expense			\$ 255,642	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	\$ 968,169	\$ 191,880	\$ 209,985	\$ 1,370,034
Total Cost of Gas	\$ 26,965,356	\$ 13,756,131	\$ 209,985	\$ 40,931,472
Total Interest	\$ (31,210)	\$ (32,264)		\$ (63,474)

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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	\$22.20	\$133.20
5	First	50 units @ \$0.6782	\$33.91	\$14.35	\$9.49	\$7.88	\$10.09	\$14.15	\$89.87
6	Over	50 units @ \$0.6782	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40
7		COG 1 \$0.6361	\$32.18						\$32.18
8		COG 2 \$0.9126		\$19.31					\$19.31
9		COG 3 \$1.0973			\$15.35				\$15.35
10		COG 4 \$1.0973				\$12.75			\$12.75
11		COG 5 \$1.0973					\$16.32		\$16.32
12		COG 6 \$1.0973						\$22.90	\$22.90
13	Summer Period 2022 Avg. COG \$0.8927*								
14	LDAC \$0.0816		\$4.13	\$1.73	\$1.14	\$0.95	\$1.21	\$1.70	\$10.86
15	TOTAL		\$92.81	\$57.59	\$48.18	\$43.79	\$49.82	\$60.95	\$353.15
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	\$22.20	\$133.20
20	First	50 units @ \$0.6782	\$33.91	\$14.35	\$9.49	\$7.88	\$10.09	\$14.15	\$89.87
21	Over	50 units @ \$0.6782	\$0.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.40
22		COG 1 \$0.6361	\$32.18						\$32.18
23		COG 2 \$0.9126		\$19.31					\$19.31
24		COG 3 \$0.9126			\$12.77				\$12.77
25		COG 4 \$0.9126				\$10.61			\$10.61
26		COG 5 \$0.9126					\$13.57		\$13.57
27		COG 6 \$0.9126						\$19.04	\$19.04
28	Summer Period 2021 Avg. COG \$0.8075*								
29	LDAC \$0.0816		\$4.13	\$1.73	\$1.14	\$0.95	\$1.21	\$1.70	\$10.86
30	TOTAL		\$92.81	\$57.59	\$45.60	\$41.64	\$47.07	\$57.10	\$341.81
31	Change		\$0.00	\$0.00	\$2.58	\$2.15	\$2.75	\$3.85	\$11.33
32	% Chg		0.00%	0.00%	5.67%	5.16%	5.84%	6.75%	3.32%

*-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 @ \$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 \$1.1242			\$26.60				\$26.60
10		COG 4 \$1.1242				\$22.59			\$22.59
11		COG 5 \$1.1242					\$35.29		\$35.29
12		COG 6 \$1.1242						\$49.87	\$49.87
13	Summer Period 2022 Avg. COG \$0.8987*								
14		LDAC \$0.0504	\$6.13	\$2.13	\$1.19	\$1.01	\$1.58	\$2.24	\$14.29
15	TOTAL		\$187.29	\$125.86	\$107.82	\$102.90	\$118.52	\$136.47	\$778.86
16									
17	Typical Usage: therms		122	42	24	20	31	44	<u>283</u>
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 \$0.9395		\$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	\$14.29
30	TOTAL		\$187.29	\$125.86	\$103.45	\$99.19	\$112.72	\$128.28	\$756.79
31	Change		\$0.00	\$0.00	\$4.37	\$3.71	\$5.80	\$8.19	\$22.07
32	% Chg		0.00%	0.00%	4.22%	3.74%	5.14%	6.39%	2.92%

*-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	\$0.9395						
4	Customer Charge units @	\$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
6	COG 1	\$0.6630	\$843.87					\$843.87
7	COG 2	\$0.9395	\$518.71					\$518.71
8	COG 3	\$1.1242		\$404.67				\$404.67
9	COG 4	\$1.1242			\$235.80			\$235.80
10	COG 5	\$1.1242				\$492.86		\$492.86
11	COG 6	\$1.1242					\$759.60	\$759.60
12	Summer Period 2022 Avg. COG	\$0.9278*						
13	LDAC	\$0.0504	\$64.15	\$27.83	\$18.14	\$10.57	\$22.10	\$34.05
14	TOTAL		\$1,401.43	\$886.22	\$721.76	\$513.48	\$830.53	\$1,159.54
								\$5,512.03
15								
16	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	\$1,335.84
19	All units @	\$0.2120	\$269.83	\$117.05	\$76.31	\$44.47	\$92.94	\$143.24
20	COG 1	\$0.6630	\$843.87					\$843.87
21	COG 2	\$0.9395	\$518.71					\$518.71
22	COG 3	\$0.9395		\$338.18				\$338.18
23	COG 4	\$0.9395			\$197.06			\$197.06
24	COG 5	\$0.9395				\$411.88		\$411.88
25	COG 6	\$0.9395					\$634.80	\$634.80
26	Summer Period 2021 Avg. COG	\$0.8392*						
27	LDAC	\$0.0504	\$64.15	\$27.83	\$18.14	\$10.57	\$22.10	\$34.05
28	TOTAL		\$1,400.49	\$886.22	\$655.28	\$474.74	\$749.56	\$1,034.74
29	Change		\$0.94	\$0.00	\$66.49	\$38.74	\$80.97	\$124.80
30	% Chg		0.07%	0.00%	10.15%	8.16%	10.80%	12.06%
								\$5,201.03
								\$311.00
								5.98%

*-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	\$1,335.84
5	First	1,000 units @	\$0.1562	\$154.65	\$148.50	\$154.87	\$144.92	\$156.20	\$915.34
6	Over	1,000 units @	\$0.1312	\$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	\$1.0537		\$1,044.75				\$1,044.75
10		COG 4	\$1.0537			\$977.59			\$977.59
11		COG 5	\$1.0537				\$1,182.32		\$1,182.32
12		COG 6	\$1.0537					\$1,136.16	\$1,136.16
13	Summer Period 2022 Avg. COG		\$0.9494*						
14		LDAC	\$0.0504	\$49.90	\$47.91	\$49.97	\$46.76	\$56.55	\$54.34
15	TOTAL			\$1,013.83	\$1,245.19	\$1,472.23	\$1,391.90	\$1,633.73	\$1,579.61
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	\$1,335.84
20	First	1,000 units @	\$0.1562	\$154.65	\$148.50	\$154.87	\$144.92	\$156.20	\$915.34
21	Over	1,000 units @	\$0.1312	\$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
30	TOTAL			\$1,013.83	\$1,245.19	\$1,289.10	\$1,220.54	\$1,426.48	\$1,380.46
31	Change			\$0.00	\$0.00	\$183.13	\$171.36	\$207.25	\$199.15
32	% Chg			0.00%	0.00%	14.21%	14.04%	14.53%	14.43%

*-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	\$0.8075	\$0.8927

Usage (Therms)	Current Bill Amount	Proposed Bill Amount	Total Bill		Base Rate		COG		LDAC	
5	\$30.04	\$30.46	\$0.43	1.4%	\$0.00	0.0%	\$0.43	1.4%	\$0.00	0.0%
10	\$37.87	\$38.72	\$0.85	2.2%	\$0.00	0.0%	\$0.85	2.2%	\$0.00	0.0%
20	\$53.55	\$55.25	\$1.70	3.2%	\$0.00	0.0%	\$1.70	3.2%	\$0.00	0.0%
Monthly* 25	\$61.38	\$63.51	\$2.13	3.5%	\$0.00	0.0%	\$2.13	3.5%	\$0.00	0.0%
30	\$69.22	\$71.77	\$2.55	3.7%	\$0.00	0.0%	\$2.55	3.7%	\$0.00	0.0%
45	\$92.73	\$96.56	\$3.83	4.1%	\$0.00	0.0%	\$3.83	4.1%	\$0.00	0.0%
50	\$100.57	\$104.82	\$4.26	4.2%	\$0.00	0.0%	\$4.26	4.2%	\$0.00	0.0%
75	\$139.75	\$146.13	\$6.39	4.6%	\$0.00	0.0%	\$6.39	4.6%	\$0.00	0.0%
125	\$218.11	\$228.76	\$10.64	4.9%	\$0.00	0.0%	\$10.64	4.9%	\$0.00	0.0%
150	\$257.30	\$270.07	\$12.77	5.0%	\$0.00	0.0%	\$12.77	5.0%	\$0.00	0.0%
200	\$335.66	\$352.69	\$17.03	5.1%	\$0.00	0.0%	\$17.03	5.1%	\$0.00	0.0%

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