

Northern Utilities, Inc.
DG 22-059
Winter 2022-2023 and Summer 2023 Cost of Gas
Record Request Set 1

Date Request Received: 10/20/22

Date of Response: 10/25/22

Question:

Please provide the weighted average COG and LDAC rates for the 2022-2023 winter and 2023 summer periods compared to prior year as well as a bill impact analysis, by rate component (base, COG & LDAC).

Response:

Please refer to Record Request 1 Attachment 1, Pages 1 through 3 for the proposed weighted average COG and LDAC rates for the 2022-2023 winter and 2023 summer periods compared to prior year.

A bill impact analysis comparing the proposed rates to those in the prior period by rate component is provided in Record Request 1 Attachment 1, Page 4. The support for the information summarized on this page is provided in Record Request 1 Attachments 2 and 3.

Person Responsible: Daniel Nawazelski

Date: 10/25/22

Northern Utilities, Inc.
New Hampshire Division
Rate Comparison
Based on Weighted Average Rates

Northern Utilities, Inc.
DG 22-059
Record Request 1 Attachment 1
Page 1 of 4

Line No.	Description	Winter 2021-2022 Rate	Winter 2022-2023 Rate	Winter \$ Change	Winter % Change	Summer 2021-2022 Rate	Summer 2022-2023 Rate	Summer \$ Change	Summer % Change
1	<u>Seasonal Cost of Gas Rates</u>								
2	Residential Heating	\$ 0.9691	\$ 1.1289	\$ 0.1598	16.5%	0.8781	0.6916	\$ (0.1865)	-21.2%
3	High Load Factor C&I	\$ 0.8769	\$ 1.0536	\$ 0.1767	20.1%	0.8835	0.6331	\$ (0.2504)	-28.3%
4	Low Load Factor C&I	\$ 0.9847	\$ 1.1428	\$ 0.1581	16.0%	0.8938	0.7383	\$ (0.1555)	-17.4%
5	<u>Annual LDAC Rates</u>								
6	Residential Heating	\$ 0.0702	0.1850	\$ 0.1148	163.4%	0.0816	0.1850	\$ 0.1034	126.7%
7	High Load Factor C&I	\$ 0.0440	0.0493	\$ 0.0053	12.0%	0.0504	0.0493	\$ (0.0011)	-2.2%
8	Low Load Factor C&I	\$ 0.0445	0.0493	\$ 0.0048	10.7%	0.0504	0.0493	\$ (0.0011)	-2.2%

Northern Utilities, Inc.
New Hampshire Division
Winter Period Weighted Average Rate Calculation

Northern Utilities, Inc.
DG 22-059
Record Request 1 Attachment 1
Page 2 of 4

Line No.	Description	Nov	Dec	Jan	Feb	Mar	Apr	Winter	
1	Residential Heating (R5) Weighted LDAC & COG								
2	Typical Usage: Therms ⁽¹⁾	51	96	125	121	119	70	582	
3	LDAC Rate	\$ 0.0631	\$ 0.0631	\$ 0.0658	\$ 0.0658	\$ 0.0816	\$ 0.0816		
4	Monthly LDAC Component Bill	\$ 3.19	\$ 6.09	\$ 8.25	\$ 7.99	\$ 9.71	\$ 5.69		
5	Weighted Average LDAC Rate								\$ 0.0702
6	COG Rate	\$ 0.9392	\$ 0.9392	\$ 0.8975	\$ 0.9462	\$ 1.0547	\$ 1.0547		
7	Monthly COG Component Bill	\$ 47.47	\$ 90.59	\$ 112.52	\$ 114.87	\$ 125.44	\$ 73.49		
8	Weighted Average COG Rate								\$ 0.9691
9	Small C&I High Winter (G40) Weighted LDAC & COG								
10	Typical Usage: Therms ⁽¹⁾	138	290	401	397	373	213	1,812	
11	LDAC Rate	\$ 0.0360	\$ 0.0360	\$ 0.0448	\$ 0.0448	\$ 0.0504	\$ 0.0504		
12	Monthly LDAC Component Bill	\$ 4.98	\$ 10.44	\$ 17.95	\$ 17.79	\$ 18.80	\$ 10.72		
13	Weighted Average LDAC Rate								\$ 0.0445
14	COG Rate	\$ 0.9551	\$ 0.9551	\$ 0.9134	\$ 0.9621	\$ 1.0706	\$ 1.0706		
15	Monthly COG Component Bill	\$ 132.01	\$ 276.85	\$ 366.06	\$ 382.01	\$ 399.31	\$ 227.68		
16	Weighted Average COG Rate								\$ 0.9847
17	Medium C&I High Winter (G41) Weighted LDAC & COG								
18	Typical Usage: Therms ⁽¹⁾	1,710	3,040	3,954	3,758	3,606	2,229	18,298	
19	LDAC Rate	\$ 0.0360	\$ 0.0360	\$ 0.0448	\$ 0.0448	\$ 0.0504	\$ 0.0504		
20	Monthly LDAC Component Bill	\$ 61.55	\$ 109.44	\$ 177.14	\$ 168.37	\$ 181.76	\$ 112.34		
21	Weighted Average LDAC Rate								\$ 0.0443
22	COG Rate	\$ 0.9551	\$ 0.9551	\$ 0.9134	\$ 0.9621	\$ 1.0706	\$ 1.0706		
23	Monthly COG Component Bill	\$ 1,633.01	\$ 2,903.54	\$ 3,611.70	\$ 3,615.91	\$ 3,861.00	\$ 2,386.37		
24	Weighted Average COG Rate								\$ 0.9844
25	Medium C&I Low Winter (G51) Weighted LDAC & COG								
26	Typical Usage: Therms ⁽¹⁾	1,484	1,967	2,180	2,139	2,117	1,720	11,606	
27	LDAC Rate	\$ 0.0360	\$ 0.0360	\$ 0.0448	\$ 0.0448	\$ 0.0504	\$ 0.0504		
28	Monthly LDAC Component Bill	\$ 53.43	\$ 70.80	\$ 97.65	\$ 95.81	\$ 106.69	\$ 86.68		
29	Weighted Average LDAC Rate								\$ 0.0440
30	COG Rate	\$ 0.8453	\$ 0.8453	\$ 0.8036	\$ 0.8523	\$ 0.9608	\$ 0.9608		
31	Monthly COG Component Bill	\$ 1,254.50	\$ 1,662.40	\$ 1,751.58	\$ 1,822.80	\$ 2,033.87	\$ 1,652.50		
32	Weighted Average COG Rate								\$ 0.8769

Notes:

Reflects actual November 2021 through April 2022 weather normalized sales

Northern Utilities, Inc.
New Hampshire Division
Summer Period Weighted Average Rate Calculation

Northern Utilities, Inc.
DG 22-059
Record Request 1 Attachment 1
Page 3 of 4

Line No.	Description	May	Jun	Jul	Aug	Sep	Oct	Summer	
1	Residential Heating (R5) Weighted LDAC & COG								
2	Typical Usage: Therms ⁽¹⁾	43	19	14	13	13	24	124	
3	LDAC Rate	\$ 0.0816	\$ 0.0816	\$ 0.0816	\$ 0.0816	\$ 0.0816	\$ 0.0816		
4	Monthly LDAC Component Bill	\$ 3.49	\$ 1.51	\$ 1.10	\$ 1.03	\$ 1.02	\$ 1.94		
5	Weighted Average LDAC Rate								\$ 0.0816
6	COG Rate	\$ 0.6361	\$ 0.9126	\$ 0.9126	\$ 0.9126	\$ 1.1204	\$ 1.1204		
7	Monthly COG Component Bill	\$ 27.18	\$ 16.90	\$ 12.33	\$ 11.55	\$ 14.02	\$ 26.65		
8	Weighted Average COG Rate								\$ 0.8781
9	Small C&I High Winter (G40) Weighted LDAC & COG								
10	Typical Usage: Therms ⁽¹⁾	111	40	26	26	26	59	287	
11	LDAC Rate	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504		
12	Monthly LDAC Component Bill	\$ 5.60	\$ 2.01	\$ 1.30	\$ 1.31	\$ 1.29	\$ 2.97		
13	Weighted Average LDAC Rate								\$ 0.0504
14	COG Rate	\$ 0.6630	\$ 0.9395	\$ 0.9395	\$ 0.9395	\$ 1.1473	\$ 1.1473		
15	Monthly COG Component Bill	\$ 73.61	\$ 37.51	\$ 24.32	\$ 24.35	\$ 29.45	\$ 67.55		
16	Weighted Average COG Rate								\$ 0.8938
17	Medium C&I High Winter (G41) Weighted LDAC & COG								
18	Typical Usage: Therms ⁽¹⁾	1,283	526	391	382	389	825	3,797	
19	LDAC Rate	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504		
20	Monthly LDAC Component Bill	\$ 64.69	\$ 26.52	\$ 19.70	\$ 19.25	\$ 19.62	\$ 41.59		
21	Weighted Average LDAC Rate								\$ 0.0504
22	COG Rate	\$ 0.6630	\$ 0.9395	\$ 0.9395	\$ 0.9395	\$ 1.1473	\$ 1.1473		
23	Monthly COG Component Bill	\$ 850.94	\$ 494.37	\$ 367.18	\$ 358.90	\$ 446.74	\$ 946.85		
24	Weighted Average COG Rate								\$ 0.9125
25	Medium C&I Low Winter (G51) Weighted LDAC & COG								
26	Typical Usage: Therms ⁽¹⁾	1,465	1,237	1,134	1,220	1,164	1,310	7,530	
27	LDAC Rate	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504	\$ 0.0504		
28	Monthly LDAC Component Bill	\$ 73.84	\$ 62.34	\$ 57.15	\$ 61.49	\$ 58.68	\$ 66.03		
29	Weighted Average LDAC Rate								\$ 0.0504
30	COG Rate	\$ 0.5925	\$ 0.8690	\$ 0.8690	\$ 0.8690	\$ 1.0768	\$ 1.0768		
31	Monthly COG Component Bill	\$ 868.08	\$ 1,074.80	\$ 985.44	\$ 1,060.21	\$ 1,253.74	\$ 1,410.79		
32	Weighted Average COG Rate								\$ 0.8835

Notes:

Reflects actual May 2021 through October 2021 weather normalized sales

Northern Utilities, Inc.
New Hampshire Division
Bill Impact Analysis
Based on Weighted Average Rates ⁽¹⁾

Northern Utilities, Inc.
DG 22-059
Record Request 1 Attachment 1
Page 4 of 4

Line No.	Description	Winter \$ Change	Winter % Change	Summer \$ Change	Summer % Change	Annual \$ Change	Annual % Change
1	Residential Heating (R5)						
2	Base	\$ 96.85	8.2%	\$ 19.08	5.5%	\$ 115.93	7.6%
3	COG	\$ 93.07	7.9%	\$ (23.07)	-6.6%	\$ 70.00	4.6%
4	LDAC	\$ 66.84	5.7%	\$ 12.79	3.7%	\$ 79.63	5.2%
5	Total	\$ 256.76	21.7%	\$ 8.80	2.5%	\$ 265.56	17.4%
6	Small C&I High Winter (G40)						
7	Base	\$ 113.88	4.2%	\$ 23.56	2.9%	\$ 137.44	3.9%
8	COG	\$ 286.32	10.6%	\$ (44.68)	-5.6%	\$ 241.64	6.9%
9	LDAC	\$ 8.64	0.3%	\$ (0.32)	0.0%	\$ 8.32	0.2%
10	Total	\$ 408.84	15.2%	\$ (21.43)	-2.7%	\$ 387.40	11.1%
11	Medium C&I High Winter (G41)						
12	Base	\$ 440.50	1.8%	\$ 179.97	3.0%	\$ 620.46	2.0%
13	COG	\$ 2,899.07	11.59%	\$ (661.52)	-11.2%	\$ 2,237.55	7.2%
14	LDAC	\$ 91.46	0.4%	\$ (4.18)	-0.1%	\$ 87.28	0.3%
15	Total	\$ 3,431.02	13.7%	\$ (485.73)	-8.2%	\$ 2,945.29	9.5%
16	Medium C&I Low Winter (G51)						
17	Base	\$ (60.53)	-0.4%	\$ 119.09	1.2%	\$ 58.55	0.2%
18	COG	\$ 2,050.27	14.49%	\$ (1,885.53)	-19.7%	\$ 164.75	0.7%
19	LDAC	\$ 61.11	0.4%	\$ (8.28)	-0.1%	\$ 52.82	0.2%
20	Total	\$ 2,050.85	14.5%	\$ (1,774.72)	-18.5%	\$ 276.12	1.2%

Notes:

(1) For weighted average calculations please refer to Page 2 of 3 and Record Request 1 Attachments 2 & 3

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical Residential Heating Bill - 706 therms/year
Comparison of Winter 2022-2023 vs. Winter 2021-2022

Northern Utilities, Inc.
New Hampshire Division
Record Request 1 Attachment 2
Page 1 of 5

		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
	Typical Usage: therms (*)	51	96	125	121	119	70	582	43	19	14	13	13	24	124	706	
Winter 2022 - 2023																	
4	Customer Charge units @	\$ 22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20									
5	All units @	\$0.9266	\$46.83	\$89.37	\$116.17	\$112.49	\$110.21	\$64.56									
6	COG 1	\$1.1289	\$57.05					\$57.05									
7	COG 2	\$1.1289	\$108.88					\$108.88									
8	COG 3	\$1.1289		\$141.53				\$141.53									
9	COG 4	\$1.1289			\$137.06			\$137.06									
10	COG 5	\$1.1289				\$134.27		\$134.27									
11	COG 6	\$1.1289					\$78.66	\$78.66									
12	LDAC	\$0.1850	\$9.35	\$17.84	\$23.19	\$22.46	\$22.00	\$12.89	\$107.74								
Summer 2023																	
14	Customer Charge units @	\$ 22.20							\$ 22.20	\$22.20	\$22.20	\$22.20	\$ 22.20	\$22.20	\$133.20		
15	All units @	\$0.9266							\$39.60	\$17.16	\$12.52		\$11.58	\$22.02	\$69.28		
16	All eff. Aug 1, 2023	\$0.9259										\$11.72		\$22.02	\$45.33		
17	COG 1	\$0.6916							\$29.56						\$29.56		
18	COG 2	\$0.6916								\$12.81					\$12.81		
19	COG 3	\$0.6916									\$9.35				\$9.35		
20	COG 4	\$0.6916										\$8.76			\$8.76		
21	COG 5	\$0.6916											\$8.65		\$8.65		
22	COG 6	\$0.6916												\$16.45	\$16.45		
23	Summer Period Weighted Avg. COG	\$0.6916															
24	LDAC	\$ 0.1850							\$7.91	\$3.43	\$2.50	\$2.34	\$2.31	\$4.40	\$22.89		
25	TOTAL		\$135.43	\$238.30	\$303.09	\$294.21	\$288.68	\$178.31	\$1,438.02	\$99.26	\$55.60	\$46.57	\$45.02	\$44.75	\$65.07	\$356.27	\$1,794.28
Base Rate Change Winter																	
	\$ Change		\$8.40	\$16.04	\$20.85	\$20.19	\$19.78	\$11.59	\$96.85								
	% Change		7.55%	8.35%	8.75%	8.51%	7.98%	7.51%	8.20%								
COG Change Winter																	
	\$ Change		\$9.59	\$18.30	\$29.01	\$22.18	\$8.83	\$5.17	\$93.07								
	% Change		8.62%	9.52%	12.17%	9.34%	3.56%	3.35%	7.88%								
LDAC Change Winter																	
	\$ Change		\$6.16	\$11.76	\$14.94	\$14.47	\$12.30	\$7.20	\$66.84								
	% Change		5.54%	6.12%	6.27%	6.10%	4.96%	4.67%	5.66%								
Winter 2021 - 2022																	
29	Customer Charge units @	\$ 22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20									
30	First 50 units @	\$0.7603	\$38.02	\$38.02	\$38.02	\$38.02	\$38.02	\$228.09									
31	Over 50 units @	\$0.7603	\$0.41	\$35.32	\$57.30	\$54.29	\$52.41	\$214.69									
32	COG 1	\$0.9392	\$47.47					\$47.47									
33	COG 2	\$0.9392		\$90.59				\$90.59									
34	COG 3	\$0.8975			\$112.52			\$112.52									
35	COG 4	\$0.9462				\$114.87		\$114.87									
36	COG 5	\$1.0547					\$125.44	\$125.44									
37	COG 6	\$1.0547					\$73.49	\$73.49									
38	Winter Period Weighted Avg. COG	\$0.9691															
39	LDAC	\$ 0.0631	\$3.19	\$6.09				\$9.28									
40	LDAC 2, January 1	\$ 0.0658			\$8.25	\$7.99		\$16.24									
41	LDAC 3, March 1	\$ 0.0816					\$9.71	\$5.69									
Summer 2022																	
43	Customer Charge units @	\$ 22.20							\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20		
44	First 50 units @	\$0.6782							\$28.98	\$12.56	\$9.17				\$50.71		
45	Over 50 units @	\$0.6782							\$0.00	\$0.00	\$0.00				\$0.00		
46	Eff. Aug 1, 2022	\$0.8841										\$11.19			\$11.19		
47	Eff. Sept 1, 2022	\$0.9266											\$11.59	\$22.04	\$33.63		
48	COG 1	\$0.6361							\$27.18						\$27.18		
49	COG 2	\$0.9126								\$16.90					\$16.90		
50	COG 3	\$0.9126									\$12.33				\$12.33		
51	COG 4	\$0.9126										\$11.55			\$11.55		
52	COG 5	\$1.1204											\$14.02		\$14.02		
53	COG 6	\$1.1204												\$26.65	\$26.65		
54	Summer Period Weighted Avg. COG	\$0.8781															
55	LDAC	\$ 0.0816							\$3.49	\$1.51	\$1.10	\$1.03	\$1.02	\$1.94	\$10.10		
56	TOTAL		\$111.28	\$192.20	\$238.28	\$237.37	\$247.78	\$154.35	\$1,181.26	\$81.85	\$53.17	\$44.80	\$45.98	\$48.83	\$72.83	\$347.47	\$1,528.73
57	Change		\$24.15	\$46.09	\$64.80	\$56.84	\$40.90	\$23.96	\$256.76	\$17.41	\$2.42	\$1.77	(\$0.96)	(\$4.08)	(\$7.76)	\$8.80	\$265.56
58	% Chg		21.70%	23.98%	27.20%	23.95%	16.51%	15.52%	21.7%	21.26%	4.56%	3.95%	-2.09%	-8.36%	-10.65%	2.53%	17.37%

*-Note- Weighted by usage. Most recent 12 months actual Weather Normalized.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-40 Commercial & Industrial Bill - 2,099 therms/year
Comparison of Winter 2022-2023 vs. Winter 2021-2022

Northern Utilities, Inc.
 New Hampshire Division
 Record Request 1 Attachment 2
 Page 2 of 5

			Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
1																	
2	Typical Usage: therms (*)		138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099
3	Winter 2022 - 2023																
4	Customer Charge	units @ \$ 80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$480.00								
5	All	units @ \$0.2556	\$35.33	\$74.09	\$102.44	\$101.49	\$95.33	\$54.36	\$463.03								
6		COG 1 \$1.1428	\$157.96						\$157.96								
7		COG 2 \$1.1428		\$331.26					\$331.26								
8		COG 3 \$1.1428			\$458.00				\$458.00								
9		COG 4 \$1.1428				\$453.76			\$453.76								
10		COG 5 \$1.1428					\$426.24		\$426.24								
11		COG 6 \$1.1428						\$243.03	\$243.03								
12		LDAC \$0.0493	\$6.81	\$14.29	\$19.76	\$19.57	\$18.39	\$10.48	\$89.31								
13	Summer 2023																
14	Customer Charge	units @ \$ 80.00								\$ 80.00	\$80.00	\$80.00	\$80.00	\$ 80.00	\$80.00	\$480.00	
15	All	units @ \$0.2556								\$28.38	\$10.21	\$6.62				\$45.20	
16	All eff. Aug 1, 2023	units @ \$0.2554											\$6.62	\$6.56	\$15.04	\$28.21	
17		COG 1 \$0.7383								\$81.97						\$81.97	
18		COG 2 \$0.7383									\$29.48					\$29.48	
19		COG 3 \$0.7383										\$19.11				\$19.11	
20		COG 4 \$0.7383											\$19.13			\$19.13	
21		COG 5 \$0.7383												\$18.95		\$18.95	
22		COG 6 \$0.7383													\$43.47	\$43.47	
23	Summer Period Weighted Avg. COG	\$0.7383															
24	LDAC	\$ 0.0493								\$5.47	\$1.97	\$1.28	\$1.28	\$1.27	\$2.90	\$14.16	
25	TOTAL		\$280.10	\$499.64	\$660.19	\$654.82	\$619.96	\$387.87	\$3,102.58	\$195.82	\$121.66	\$107.00	\$107.03	\$106.78	\$141.41	\$779.70	\$3,882.28
	Base Rate Change Winter	\$ Change	\$11.35	\$18.42	\$23.59	\$23.41	\$22.29	\$14.82	\$113.88								
		% Change	5%	4%	4%	4%	4%	4%	4%								
	COG Change Winter	\$ Change	\$25.94	\$54.41	\$91.94	\$71.75	\$26.93	\$15.35	\$286.32								
		% Change	11%	13%	17%	13%	5%	4%	11%								
	LDAC Change Winter	\$ Change	\$1.84	\$3.86	\$1.80	\$1.79	-\$0.41	-\$0.23	\$8.64								
		% Change	0.8%	0.9%	0.3%	0.3%	-0.1%	-0.1%	0.3%								
26																	
27	Typical Usage: therms		138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099
28	Winter 2021 - 2022																
29	Customer Charge	units @ \$ 75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$450.54								
30	First	75 units @ \$0.2090	\$15.68	\$15.68	\$15.68	\$15.68	\$15.68	\$15.68	\$94.05								
31	Over	75 units @ \$0.2090	\$13.21	\$44.91	\$68.09	\$67.31	\$62.28	\$28.77	\$284.56								
32		COG 1 \$0.9551	\$132.01						\$132.01								
33		COG 2 \$0.9551		\$276.85					\$276.85								
34		COG 3 \$0.9134			\$366.06				\$366.06								
35		COG 4 \$0.9621				\$382.01			\$382.01								
36		COG 5 \$1.0706					\$399.31		\$399.31								
37		COG 6 \$1.0706						\$227.68	\$227.68								
38	Winter Period Weighted Avg. COG	\$0.9847															
39	LDAC	\$ 0.0360	\$4.98	\$10.44					\$15.41								
40	LDAC 2, January 1	\$ 0.0448			\$17.95	\$17.79			\$35.74								
41	LDAC 3, March 1	\$ 0.0504					\$18.80	\$10.72	\$29.52								
42	Summer 2022																
43	Customer Charge**	units @ \$ 75.09								\$75.09	\$75.09	\$75.09	\$80.00	\$80.00	\$80.00	\$465.27	
44	First	75 units @ \$0.2090								\$15.68	\$8.35	\$5.41				\$29.43	
45	Over	75 units @ \$0.2090								\$7.53	\$0.00	\$0.00				\$7.53	
46	Eff. Aug. 1, 2022	All @ \$0.2320											\$6.01			\$6.01	
47	Eff. Sept. 1, 2022	All @ \$0.2556												\$6.56	\$15.05	\$21.61	
48		COG 1 \$0.6630								\$73.61						\$73.61	
49		COG 2 \$0.9395									\$37.51					\$37.51	
50		COG 3 \$0.9395										\$24.32				\$24.32	
51		COG 4 \$0.9395											\$24.35			\$24.35	
52		COG 5 \$1.1473												\$29.45		\$29.45	
53		COG 6 \$1.1473													\$67.55	\$67.55	
54	Summer Period Weighted Avg. COG	\$0.8938															
55	LDAC	\$ 0.0504								\$5.60	\$2.01	\$1.30	\$1.31	\$1.29	\$2.97	\$14.48	
56	TOTAL		\$240.97	\$422.96	\$542.86	\$557.87	\$571.15	\$357.93	\$2,693.75	\$177.50	\$122.96	\$106.13	\$111.67	\$117.31	\$165.57	\$801.13	\$3,494.88
57	Change		\$39.13	\$76.68	\$117.32	\$96.95	\$48.81	\$29.94	\$408.84	\$18.32	(\$1.31)	\$0.88	(\$4.64)	(\$10.53)	(\$24.16)	(\$21.43)	\$387.40
58	% Chg		16.24%	18.13%	21.61%	17.38%	8.55%	8.36%	15.18%	10.32%	-1.06%	0.83%	-4.15%	-8.98%	-14.59%	-2.68%	11.08%

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

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-41 Commercial & Industrial Bill - 22,095 therms/year
Comparison of Winter 2022-2023 vs. Winter 2021-2022

		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
1																	
2	Typical Usage: therms (*)	1,710	3,040	3,954	3,758	3,606	2,229	18,298	1,283	526	391	382	389	825	3,797	22,095	
3	Winter 2022 - 2023																
4	Customer Charge units @	\$ 225.00						\$1,350.00									
5	All units @	\$0.2883	\$492.93	\$876.44	\$1,139.97	\$1,083.53	\$1,039.72	\$642.62	\$5,275.22								
6	COG 1	\$1.1428	\$1,953.94					\$1,953.94									
7	COG 2	\$1.1428		\$3,474.16				\$3,474.16									
8	COG 3	\$1.1428			\$4,518.78			\$4,518.78									
9	COG 4	\$1.1428				\$4,295.04		\$4,295.04									
10	COG 5	\$1.1428					\$4,121.38	\$4,121.38									
11	COG 6	\$1.1428					\$2,547.31	\$2,547.31									
12	LDAC	\$0.0493	\$84.29	\$149.87	\$194.94	\$185.29	\$177.80	\$109.89	\$902.08								
13	Summer 2023																
14	Customer Charge units @	\$ 225.00							\$ 225.00	\$225.00	\$225.00	\$225.00	\$ 225.00	\$225.00	\$1,350.00		
15	All units @	\$0.2883							\$370.02	\$151.70	\$112.67				\$634.40		
16	All eff. Aug 1, 2023 units @	\$0.2881										\$110.06	\$112.18	\$237.76	\$460.00		
17	COG 1	\$0.7383							\$947.58						\$947.58		
18	COG 2	\$0.7383								\$388.49					\$388.49		
19	COG 3	\$0.7383									\$288.55				\$288.55		
20	COG 4	\$0.7383										\$282.04			\$282.04		
21	COG 5	\$0.7383											\$287.48		\$287.48		
22	COG 6	\$0.7383												\$609.31	\$609.31		
23	Summer Period Weighted Avg. COG	\$0.7383															
24	LDAC	\$ 0.0493							\$63.27	\$25.94	\$19.27	\$18.83	\$19.20	\$40.69	\$187.20		
25	TOTAL		\$2,756.16	\$4,725.48	\$6,078.69	\$5,788.86	\$5,563.90	\$3,524.82	\$28,437.90	\$1,605.88	\$791.14	\$645.49	\$635.93	\$643.86	\$1,112.76	\$5,435.05	\$33,872.95
	Base Rate Change Winter	\$ Change	\$42.20	\$73.19	\$94.49	\$89.93	\$86.39	\$54.30	\$440.50								
		% Change	1.78%	1.81%	1.87%	1.80%	1.65%	1.64%	1.76%								
	COG Change Winter	\$ Change	\$320.93	\$570.62	\$907.08	\$679.13	\$260.38	\$160.93	\$2,899.07								
		% Change	13.54%	14.12%	17.93%	13.57%	4.99%	4.86%	11.59%								
	LDAC Change Winter	\$ Change	\$22.74	\$40.43	\$17.79	\$16.91	-\$3.97	-\$2.45	\$91.46								
		% Change	0.959%	1.000%	0.352%	0.338%	-0.076%	-0.074%	0.37%								
26																	
27	Typical Usage: therms		1,710	3,040	3,954	3,758	3,606	2,229	18,298	1,283	526	391	382	389	825	3,797	22,095
28	Winter 2021 - 2022																
29	Customer Charge units @	\$ 222.64						\$1,335.84									
30	All units @	\$0.2650	\$453.09	\$805.61	\$1,047.84	\$995.96	\$955.69	\$590.69	\$4,848.89								
31	COG 1	\$0.9551	\$1,633.01					\$1,633.01									
32	COG 2	\$0.9551		\$2,903.54				\$2,903.54									
33	COG 3	\$0.9134			\$3,611.70			\$3,611.70									
34	COG 4	\$0.9621				\$3,615.91		\$3,615.91									
35	COG 5	\$1.0706					\$3,861.00	\$3,861.00									
36	COG 6	\$1.0706						\$2,386.37									
37	Winter Period Weighted Avg. COG	\$0.9844															
38	LDAC	\$ 0.0360	\$61.55	\$109.44				\$170.99									
39	LDAC 2, January 1	\$ 0.0448			\$177.14	\$168.37		\$345.52									
40	LDAC 3, March 1	\$ 0.0504					\$181.76	\$112.34	\$294.10								
41	Summer 2022																
42	Customer Charge** units @	\$ 222.64							\$222.64	\$222.64	\$222.64	\$225.00	\$225.00	\$225.00	\$1,342.92		
43	All units @	\$0.2120							\$272.09	\$111.55	\$82.85				\$466.50		
44	Eff, Aug. 1, 2022 All @	\$0.2744										\$104.82			\$104.82		
45	Eff, Sept. 1, 2022 All @	\$0.2883											\$112.26	\$237.93	\$350.19		
46	COG 1	\$0.6630							\$850.94						\$850.94		
47	COG 2	\$0.9395								\$494.37					\$494.37		
48	COG 3	\$0.9395									\$367.18				\$367.18		
49	COG 4	\$0.9395										\$358.90			\$358.90		
50	COG 5	\$1.1473											\$446.74		\$446.74		
51	COG 6	\$1.1473												\$946.85	\$946.85		
52	Summer Period Weighted Avg. COG	\$0.9125															
53	LDAC	\$ 0.0504							\$64.69	\$26.52	\$19.70	\$19.25	\$19.62	\$41.59	\$191.38		
54	TOTAL		\$2,370.29	\$4,041.24	\$5,059.33	\$5,002.88	\$5,221.10	\$3,312.04	\$25,006.88	\$1,410.36	\$855.08	\$692.37	\$707.97	\$803.62	\$1,451.37	\$5,920.78	\$30,927.66
55	Change		\$385.86	\$684.24	\$1,019.36	\$785.98	\$342.80	\$212.78	\$3,431.02	\$195.52	(\$63.94)	(\$46.88)	(\$72.05)	(\$159.76)	(\$338.61)	(\$485.73)	\$2,945.29
56	% Chg		16.28%	16.93%	20.15%	15.71%	6.57%	6.42%	13.72%	13.86%	-7.48%	-6.77%	-10.18%	-19.88%	-23.33%	-8.20%	9.52%

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

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-51 Commercial & Industrial Bill - 19,136 therms/year
Comparison of Winter 2022-2023 vs. Winter 2021-2022

Northern Utilities, Inc.
 New Hampshire Division
 Record Request 1 Attachment 2
 Page 4 of 5

		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
1																	
2	Typical Usage: therms (*)	1,484	1,967	2,180	2,139	2,117	1,720	11,606	1,465	1,237	1,134	1,220	1,164	1,310	7,530	19,136	
3	Winter 2022 - 2023																
4	Customer Charge units @	\$ 225.00						\$1,350.00									
5	All units @	\$0.1770						\$2,054.24									
6	COG 1	\$1.0536	\$1,563.64					\$1,563.64									
7	COG 2	\$1.0536		\$2,072.05				\$2,072.05									
8	COG 3	\$1.0536			\$2,296.50			\$2,296.50									
9	COG 4	\$1.0536				\$2,253.32		\$2,253.32									
10	COG 5	\$1.0536					\$2,230.31	\$2,230.31									
11	COG 6	\$1.0536						\$1,812.11									
12	LDAC	\$0.0493	\$73.17	\$96.96	\$107.46	\$105.44	\$104.36	\$84.79	\$572.17								
13	Summer 2023																
14	Customer Charge units @	\$ 225.00							\$ 225.00	\$225.00	\$225.00	\$225.00	\$ 225.00	\$225.00	\$1,350.00		
15	All units @	\$0.1770							\$259.32	\$218.92	\$200.72				\$678.96		
16	All eff. Aug 1, 2023 units @	\$0.1763										\$215.09	\$205.27	\$230.98	\$651.34		
17	COG 1	\$0.6331							\$927.56						\$927.56		
18	COG 2	\$0.6331								\$783.04					\$783.04		
19	COG 3	\$0.6331									\$717.93				\$717.93		
20	COG 4	\$0.6331										\$772.40			\$772.40		
21	COG 5	\$0.6331											\$737.13		\$737.13		
22	COG 6	\$0.6331												\$829.47	\$829.47		
23	Summer Period Weighted Avg. COG	\$0.6331															
24	LDAC	\$ 0.0493							\$72.23	\$60.98	\$55.91	\$60.15	\$57.40	\$64.59	\$371.25		
25	TOTAL		\$2,124.49	\$2,742.10	\$3,014.76	\$2,962.31	\$2,934.35	\$2,426.33	\$16,204.34	\$1,484.12	\$1,287.93	\$1,199.55	\$1,272.64	\$1,224.80	\$1,350.04	\$7,819.08	\$24,023.41
	Base Rate Change Winter	\$ Change	-\$16.66	-\$9.62	-\$6.51	-\$7.11	-\$7.42	-\$13.22	-\$60.53								
		% Change	-0.92%	-0.42%	-0.26%	-0.28%	-0.27%	-0.58%	-0.43%								
	COG Change Winter	\$ Change	\$309.14	\$409.65	\$544.92	\$430.52	\$196.44	\$159.61	\$2,050.27								
		% Change	17.06%	17.69%	22.09%	17.02%	7.15%	6.99%	14.49%								
	LDAC Change Winter	\$ Change	\$19.74	\$26.16	\$9.81	\$9.62	-\$2.33	-\$1.89	\$61.11								
		% Change	1.09%	1.13%	0.40%	0.38%	-0.08%	-0.08%	0.43%								
26																	
27	Typical Usage: therms		1,484	1,967	2,180	2,139	2,117	1,720	11,606	1,465	1,237	1,134	1,220	1,164	1,310	7,530	19,136
28	Winter 2021 - 2022																
29	Customer Charge units @	\$ 222.64						\$1,335.84									
30	First 1,300 units @	\$0.1937						\$1,510.86									
31	Over 1,300 units @	\$0.1624	\$29.90	\$108.26	\$142.86	\$136.20	\$132.66	\$68.20	\$618.07								
32	COG 1	\$0.8453	\$1,254.50					\$1,254.50									
33	COG 2	\$0.8453		\$1,662.40				\$1,662.40									
34	COG 3	\$0.8036			\$1,751.58			\$1,751.58									
35	COG 4	\$0.8523				\$1,822.80		\$1,822.80									
36	COG 5	\$0.9608					\$2,033.87	\$2,033.87									
37	COG 6	\$0.9608						\$1,652.50	\$1,652.50								
38	Winter Period Weighted Avg. COG	\$0.8769															
39	LDAC	\$ 0.0360	\$53.43	\$70.80				\$124.23									
40	LDAC 2, January 1	\$ 0.0448			\$97.65	\$95.81		\$193.46									
41	LDAC 3, March 1	\$ 0.0504					\$106.69	\$86.68	\$193.37								
42	Summer 2022																
43	Customer Charge** units @	\$ 222.64							\$222.64	\$222.64	\$222.64	\$225.00	\$225.00	\$225.00	\$1,342.92		
44	First 1,000 units @	\$0.1562							\$156.20	\$156.20	\$156.20				\$468.60		
45	Over 1,000 units @	\$0.1312							\$61.02	\$31.07	\$17.58				\$109.67		
46	Eff. Aug. 1, 2022 All @	\$0.1656										\$202.04			\$202.04		
47	Eff. Sept. 1, 2022 All @	\$0.1770											\$206.08	\$231.90	\$437.98		
48	COG 1	\$0.5925							\$868.08						\$868.08		
49	COG 2	\$0.8690								\$1,074.80					\$1,074.80		
50	COG 3	\$0.8690									\$985.44				\$985.44		
51	COG 4	\$0.8690										\$1,060.21			\$1,060.21		
52	COG 5	\$1.0768											\$1,253.74		\$1,253.74		
53	COG 6	\$1.0768												\$1,410.79	\$1,410.79		
54	Summer Period Weighted Avg. COG	\$0.8835															
55	LDAC	\$ 0.0504							\$73.84	\$62.34	\$57.15	\$61.49	\$58.68	\$66.03	\$379.53		
56	TOTAL		\$1,812.28	\$2,315.91	\$2,466.54	\$2,529.27	\$2,747.66	\$2,281.83	\$14,153.49	\$1,381.78	\$1,547.05	\$1,439.01	\$1,548.73	\$1,743.50	\$1,933.72	\$9,593.80	\$23,747.29
57	Change		\$312.21	\$426.19	\$548.22	\$433.04	\$186.69	\$144.50	\$2,050.85	\$102.33	(\$259.12)	(\$239.46)	(\$276.09)	(\$518.70)	(\$583.68)	(\$1,774.72)	\$276.12
58	% Chg		17.23%	18.40%	22.23%	17.12%	6.79%	6.33%	14.49%	7.41%	-16.75%	-16.64%	-17.83%	-29.75%	-30.18%	-18.50%	1.16%

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

NORTHERN UTILITIES, INC. -- NEW HAMPSHIRE DIVISION
Impact of Rate Changes on Residential Heating Bills by Usage Level
Forecast Winter 2022-2023 vs. Actual Winter 2021-2022

Northern Utilities, Inc.
New Hampshire Division
Record Request 1 Attachment 2
Page 5 of 5

Residential Heating		
	<u>Winter 2021- 2022</u>	<u>Winter 2022 2023</u>
Customer Charge	\$22.20	\$22.20
First 50 Therms	\$0.7603	\$0.9266
Over 50 therms	\$0.7603	\$0.9266
LDAC**	\$0.0702	\$0.1850
CGA	\$0.9691	\$1.1289

Usage (Therms)	Winter 2021-2022 Bill Amount	Winter 2022-2023 Bill Amount	Total Bill		Base Rate		CGA		LDAC	
5	\$31.20	\$33.40	\$2.20	7.1%	\$0.83	2.7%	\$0.80	2.6%	\$0.57	1.8%
10	\$40.20	\$44.61	\$4.41	11.0%	\$1.66	4.1%	\$1.60	4.0%	\$1.15	2.9%
20	\$58.19	\$67.01	\$8.82	15.2%	\$3.33	5.7%	\$3.20	5.5%	\$2.30	4.0%
25	\$67.19	\$78.21	\$11.02	16.4%	\$4.16	6.2%	\$4.00	6.0%	\$2.87	4.3%
30	\$76.19	\$89.42	\$13.23	17.4%	\$4.99	6.5%	\$4.79	6.3%	\$3.44	4.5%
45	\$103.18	\$123.02	\$19.84	19.2%	\$7.48	7.2%	\$7.19	7.0%	\$5.16	5.0%
50	\$112.18	\$134.23	\$22.04	19.7%	\$8.32	7.4%	\$7.99	7.1%	\$5.74	5.1%
75	\$157.17	\$190.24	\$33.07	21.0%	\$12.48	7.9%	\$11.99	7.6%	\$8.61	5.5%
Monthly*	\$247.15	\$302.26	\$55.11	22.3%	\$20.79	8.4%	\$19.98	8.1%	\$14.35	5.8%
150	\$292.14	\$358.28	\$66.13	22.6%	\$24.95	8.5%	\$23.97	8.2%	\$17.21	5.9%
200	\$382.13	\$470.30	\$88.17	23.1%	\$33.27	8.7%	\$31.96	8.4%	\$22.95	6.0%

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

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical Residential Heating Bill - 124 therms/Summer
Comparison of Summer 2023 vs. Summer 2022

			May	June	July	August	Sept	October	Summer
1	Typical Usage: therms(*)		43	19	14	13	13	24	124
2	Summer 2023								
3									
4	Customer Charge	units @ \$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20
5	All	units @ \$0.9266	\$39.60	\$17.16	\$12.52				\$69.28
6	All eff. Aug 1, 2023	units @ \$0.9259				\$11.72	\$11.58	\$22.02	\$45.33
7		COG 1 \$0.6916	\$29.56						\$29.56
8		COG 2 \$0.6916		\$12.81					\$12.81
9		COG 3 \$0.6916			\$9.35				\$9.35
10		COG 4 \$0.6916				\$8.76			\$8.76
11		COG 5 \$0.6916					\$8.65		\$8.65
12		COG 6 \$0.6916						\$16.45	\$16.45
13	Summer Period 2021 Avg. COG \$0.6916*								
14		LDAC \$0.1850	\$7.91	\$3.43	\$2.50	\$2.34	\$2.31	\$4.40	\$22.89
15	TOTAL		\$99.26	\$55.60	\$46.57	\$45.02	\$44.75	\$65.07	\$356.27
Base Rate Change			\$10.62	\$4.60	\$3.36	\$0.53	-\$0.01	-\$0.02	\$19.08
% Change			12.97%	8.65%	7.49%	1.15%	-0.02%	-0.02%	5.49%
COG Change			\$2.37	-\$4.09	-\$2.99	-\$2.80	-\$5.36	-\$10.20	-\$23.07
% Change			2.90%	-7.70%	-6.67%	-6.09%	-10.99%	-14.00%	-6.64%
LDAC Change			\$4.42	\$1.92	\$1.40	\$1.31	\$1.29	\$2.46	\$12.79
% Change			5.40%	3.60%	3.12%	2.85%	2.65%	3.38%	3.68%
16	Typical Usage: therms		43	19	14	13	13	24	124
17	Summer 2022								
18									
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	\$28.98	\$12.56	\$9.17				\$50.71
21	Over	50 units @ \$0.6782	\$0.00	\$0.00	\$0.00				\$0.00
22	Eff. Aug 1, 2022	All @ \$0.8841				\$11.19			\$11.19
23	Eff. Sept 1, 2022	All @ \$0.9266					\$11.59	\$22.04	\$33.63
24		COG 1 \$0.6361	\$27.18						\$27.18
25		COG 2 \$0.9126		\$16.90					\$16.90
26		COG 3 \$0.9126			\$12.33				\$12.33
27		COG 4 \$0.9126				\$11.55			\$11.55
28		COG 5 \$1.1204					\$14.02		\$14.02
29		COG 6 \$1.1204						\$26.65	\$26.65
30	Summer Period 2020 Avg. COG \$0.8781*								
31		LDAC \$0.0816	\$3.49	\$1.51	\$1.10	\$1.03	\$1.02	\$1.94	\$10.10
32	TOTAL		\$81.85	\$53.17	\$44.80	\$45.98	\$48.83	\$72.83	\$347.47
33	Change		\$17.41	\$2.42	\$1.77	-\$0.96	-\$4.08	-\$7.76	\$8.80
34	% Chg		21.26%	4.56%	3.95%	-2.09%	-8.36%	-10.65%	2.53%

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

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-40 Commercial & Industrial Bill - 287 therms/Summer
Comparison of Summer 2023 vs. Summer 2022

		May	June	July	August	Sept	October	Summer	
1									
2	Typical Usage: therms(*)	111	40	26	26	26	59	<u>287</u>	
3	Summer 2023								
4	Customer Charge units @	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$480.00	
5	All units @	\$0.2556	\$28.38	\$10.21	\$6.62			\$45.20	
6	All eff. Aug 1, 2023 units @	\$0.2554			\$6.62	\$6.56	\$15.04	\$28.21	
7	COG 1	\$0.7383	\$81.97					\$81.97	
8	COG 2	\$0.7383		\$29.48				\$29.48	
9	COG 3	\$0.7383		\$19.11				\$19.11	
10	COG 4	\$0.7383			\$19.13			\$19.13	
11	COG 5	\$0.7383				\$18.95		\$18.95	
12	COG 6	\$0.7383					\$43.47	\$43.47	
13	Summer Period 2021 Avg. COG	\$0.7383*							
14	LDAC	\$0.0493	\$5.47	\$1.97	\$1.28	\$1.28	\$1.27	\$2.90	
15	TOTAL		\$195.82	\$121.66	\$107.00	\$107.03	\$106.78	\$141.41	
	Base Rate Change	\$ Change	\$10.08	\$6.77	\$6.12	\$0.61	-\$0.01	-\$0.01	\$23.56
		% Change	5.68%	5.51%	5.76%	0.54%	0.00%	-0.01%	2.94%
	COG Change	\$ Change	\$8.36	-\$8.03	-\$5.21	-\$5.21	-\$10.50	-\$24.08	-\$44.68
		% Change	4.71%	-6.53%	-4.91%	-4.67%	-8.95%	-14.54%	-5.58%
	LDAC Change	\$ Change	-\$0.12	-\$0.04	-\$0.03	-\$0.03	-\$0.03	-\$0.06	-\$0.32
		% Change	-0.07%	-0.04%	-0.03%	-0.03%	-0.02%	-0.04%	-0.04%
16									
17	Typical Usage: therms	111	40	26	26	26	59	<u>287</u>	
18	Summer 2022								
19	Customer Charge** units @	\$75.09	\$75.09	\$75.09	\$80.00	\$80.00	\$80.00	\$465.27	
20	First 75 units @	\$0.2090	\$15.68	\$8.35	\$5.41			\$29.43	
21	Over 75 units @	\$0.2090	\$7.53	\$0.00	\$0.00			\$7.53	
22	Eff, Aug. 1, 2022 All @	\$0.2320			\$6.01			\$6.01	
23	Eff, Sept. 1, 2022 All @	\$0.2556				\$6.56	\$15.05	\$21.61	
24	COG 1	\$0.6630	\$73.61					\$73.61	
25	COG 2	\$0.9395		\$37.51				\$37.51	
26	COG 3	\$0.9395		\$24.32				\$24.32	
27	COG 4	\$0.9395			\$24.35			\$24.35	
28	COG 5	\$1.1473				\$29.45		\$29.45	
29	COG 6	\$1.1473					\$67.55	\$67.55	
30	Summer Period 2020 Avg. COG	\$0.8938*							
31	LDAC	\$0.0504	\$5.60	\$2.01	\$1.30	\$1.31	\$1.29	\$2.97	
32	TOTAL		\$177.50	\$122.96	\$106.13	\$111.67	\$117.31	\$165.57	
33	Change		\$18.32	-\$1.31	\$0.88	-\$4.64	-\$10.53	-\$24.16	
34	% Chg		10.32%	-1.06%	0.83%	-4.15%	-8.98%	-14.59%	

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

**Effective August 1, 2022 the Customer Charge increased to \$80.00.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-41 Commercial & Industrial Bill - 3,797 therms/Summer
Comparison of Summer 2023 vs. Summer 2022

			May	June	July	August	Sept	October	Summer
1	Typical Usage: therms(1)		1,283	526	391	382	389	825	3,797
2									
3	Summer 2023								
4	Customer Charge	units @ \$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
5	All	units @ \$0.2883	\$370.02	\$151.70	\$112.67				\$634.40
6	All eff. Aug 1, 2023	units @ \$0.2881				\$110.06	\$112.18	\$237.76	\$460.00
7		COG 1 \$0.7383	\$947.58						\$947.58
8		COG 2 \$0.7383		\$388.49					\$388.49
9		COG 3 \$0.7383			\$288.55				\$288.55
10		COG 4 \$0.7383				\$282.04			\$282.04
11		COG 5 \$0.7383					\$287.48		\$287.48
12		COG 6 \$0.7383						\$609.31	\$609.31
13	Summer Period 2021 Avg. COG \$0.7383*								
14	LDAC \$0.0493		\$63.27	\$25.94	\$19.27	\$18.83	\$19.20	\$40.69	\$187.20
15	TOTAL		\$1,605.88	\$791.14	\$645.49	\$635.93	\$643.86	\$1,112.76	\$5,435.05
Base Rate Change			\$100.29	\$42.51	\$32.18	\$5.23	-\$0.08	-\$0.17	\$179.97
% Change			7.11%	4.97%	4.65%	0.74%	-0.01%	-0.01%	3.04%
COG Change			\$96.64	-\$105.87	-\$78.63	-\$76.86	-\$159.26	-\$337.54	-\$661.52
% Change			6.85%	-12.38%	-11.36%	-10.86%	-19.82%	-23.26%	-11.17%
LDAC Change			-\$1.41	-\$0.58	-\$0.43	-\$0.42	-\$0.43	-\$0.91	-\$4.18
% Change			-0.10%	-0.07%	-0.06%	-0.06%	-0.05%	-0.06%	-0.07%
<hr/>									
16	Typical Usage: therms		1,283	526	391	382	389	825	3,797
17									
18	Summer 2022								
19	Customer Charge**	units @ \$222.64	\$222.64	\$222.64	\$222.64	\$225.00	\$225.00	\$225.00	\$1,342.92
20	All	units @ \$0.2120	\$272.09	\$111.55	\$82.85				\$466.50
21	Eff, Aug. 1, 2022	All @ \$0.2744				\$104.82			\$104.82
22	Eff, Sept. 1, 2022	All @ \$0.2883					\$112.26	\$237.93	\$350.19
23		COG 1 \$0.6630	\$850.94						\$850.94
24		COG 2 \$0.9395		\$494.37					\$494.37
25		COG 3 \$0.9395			\$367.18				\$367.18
26		COG 4 \$0.9395				\$358.90			\$358.90
27		COG 5 \$1.1473					\$446.74		\$446.74
28		COG 6 \$1.1473						\$946.85	\$946.85
29	Summer Period 2020 Avg. COG \$0.9125*								
30	LDAC \$0.0504		\$64.69	\$26.52	\$19.70	\$19.25	\$19.62	\$41.59	\$191.38
31	TOTAL		\$1,410.36	\$855.08	\$692.37	\$707.97	\$803.62	\$1,451.37	\$5,920.78
32	Change		\$195.52	-\$63.94	-\$46.88	-\$72.05	-\$159.76	-\$338.61	-\$485.73
33	% Chg		13.86%	-7.48%	-6.77%	-10.18%	-19.88%	-23.33%	-8.20%

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

** Effective August 1, 2022 the Customer Charge increased to \$225.00.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
Typical G-51 Commercial & Industrial Bill - 7,530 therms/Summer
Comparison of Summer 2023 vs. Summer 2022

		May	June	July	August	Sept	October	Summer
1								
2	Typical Usage: therms(1)	1,465	1,237	1,134	1,220	1,164	1,310	7,530
3	Summer 2023							
4	Customer Charge units @	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
5	All units @	\$259.32	\$218.92	\$200.72				\$678.96
6	All eff. Aug 1, 2023 units @				\$215.09	\$205.27	\$230.98	\$651.34
7	COG 1	\$927.56						\$927.56
8	COG 2		\$783.04					\$783.04
9	COG 3			\$717.93				\$717.93
10	COG 4				\$772.40			\$772.40
11	COG 5					\$737.13		\$737.13
12	COG 6						\$829.47	\$829.47
13	Summer Period 2021 Avg. COG	\$0.6331*						
14	LDAC	\$72.23	\$60.98	\$55.91	\$60.15	\$57.40	\$64.59	\$371.25
15	TOTAL	\$1,484.12	\$1,287.93	\$1,199.55	\$1,272.64	\$1,224.80	\$1,350.04	\$7,819.08
	Base Rate Change	\$44.46	\$34.01	\$29.30	\$13.05	-\$0.82	-\$0.92	\$119.09
	% Change	3.22%	2.20%	2.04%	0.84%	-0.05%	-0.05%	1.24%
	COG Change	\$59.48	-\$291.77	-\$267.51	-\$287.81	-\$516.61	-\$581.32	-\$1,885.53
	% Change	4.30%	-18.86%	-18.59%	-18.58%	-29.63%	-30.06%	-19.65%
	LDAC Change	-\$1.61	-\$1.36	-\$1.25	-\$1.34	-\$1.28	-\$1.44	-\$8.28
	% Change	-0.12%	-0.09%	-0.09%	-0.09%	-0.07%	-0.07%	-0.09%
16								
17	Typical Usage: therms	1,465	1,237	1,134	1,220	1,164	1,310	7,530
18	Summer 2022							
19	Customer Charge units @	\$222.64	\$222.64	\$222.64	\$225.00	\$225.00	\$225.00	\$1,342.92
20	First 1,000 units @	\$156.20	\$156.20	\$156.20				\$468.60
21	Over 1,000 units @	\$61.02	\$31.07	\$17.58				\$109.67
22	Eff. Aug. 1, 2022 All @				\$202.04			\$202.04
23	Eff. Sept. 1, 2022 All @					\$206.08	\$231.90	\$437.98
24	COG 1	\$868.08						\$868.08
25	COG 2		\$1,074.80					\$1,074.80
26	COG 3			\$985.44				\$985.44
27	COG 4				\$1,060.21			\$1,060.21
28	COG 5					\$1,253.74		\$1,253.74
29	COG 6						\$1,410.79	\$1,410.79
30	Summer Period 2020 Avg. COG	\$0.8835*						
31	LDAC	\$73.84	\$62.34	\$57.15	\$61.49	\$58.68	\$66.03	\$379.53
32	TOTAL	\$1,381.78	\$1,547.05	\$1,439.01	\$1,548.73	\$1,743.50	\$1,933.72	\$9,593.80
33	Change	\$102.33	-\$259.12	-\$239.46	-\$276.09	-\$518.70	-\$583.68	-\$1,774.72
34	% Chg	7.41%	-16.75%	-16.64%	-17.83%	-29.75%	-30.18%	-18.50%

*-Note- Weighted by usage.

** Effective August 1, 2022 the Customer Charge increased to \$225.00.

NORTHERN UTILITIES, INC. -- NEW HAMPSHIRE DIVISION
Impact of Rate Changes on Residential Heating Bills by Usage Level
Forecast Summer 2023 vs. Actual Summer 2022

Residential Heating		
	<u>Summer 2022</u>	<u>Summer 2023</u>
Customer Charge	\$22.20	\$22.20
First 50 Therms**	\$0.7629	\$0.9264
Over 50 therms**	\$0.7629	\$0.9264
LDAC	\$0.0816	\$0.1850
CGA	\$0.8781	\$0.6916

	Usage (Therms)	Summer 2022 Bill Amount	Summer 2023 Bill Amount	Total Bill		Base Rate		COG		LDAC	
	5	\$30.81	\$31.22	\$0.40	1.3%	\$0.82	2.7%	(\$0.93)	-3.0%	\$0.52	1.7%
	10	\$39.43	\$40.23	\$0.80	2.0%	\$1.64	4.2%	(\$1.86)	-4.7%	\$1.03	2.6%
	20	\$56.65	\$58.26	\$1.61	2.8%	\$3.27	5.8%	(\$3.73)	-6.6%	\$2.07	3.7%
Monthly*	25	\$65.26	\$67.28	\$2.01	3.1%	\$4.09	6.3%	(\$4.66)	-7.1%	\$2.59	4.0%
	30	\$73.88	\$76.29	\$2.41	3.3%	\$4.91	6.6%	(\$5.59)	-7.6%	\$3.10	4.2%
	45	\$99.71	\$103.34	\$3.62	3.6%	\$7.36	7.4%	(\$8.39)	-8.4%	\$4.65	4.7%
	50	\$108.33	\$112.35	\$4.02	3.7%	\$8.18	7.6%	(\$9.32)	-8.6%	\$5.17	4.8%
	75	\$151.39	\$157.43	\$6.03	4.0%	\$12.27	8.1%	(\$13.98)	-9.2%	\$7.76	5.1%
	125	\$237.52	\$247.58	\$10.06	4.2%	\$20.44	8.6%	(\$23.31)	-9.8%	\$12.93	5.4%
	150	\$280.58	\$292.65	\$12.07	4.3%	\$24.53	8.7%	(\$27.97)	-10.0%	\$15.51	5.5%
	200	\$366.71	\$382.80	\$16.09	4.4%	\$32.71	8.9%	(\$37.29)	-10.2%	\$20.68	5.6%

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

** Average distribution rates.