

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
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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.
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Record Request 1 Attachment 1
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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
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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
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Line No.	Description	Winter \$ Change	Winter % Change	Summer \$ Change	Summer % Change	Annual \$ Change	Annual % Change
1	<u>Residential Heating (R5)</u>						
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	<u>Small C&I High Winter (G40)</u>						
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	<u>Medium C&I High Winter (G41)</u>						
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	<u>Medium C&I Low Winter (G51)</u>						
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
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1				Nov	Dec	Jan	Feb	Mar	Apr		May	June	July	August	Sept	October	Summer	Annual
2	Typical Usage: therms (*)		51	96	125	121	119	70	582		43	19	14	13	13	24	124	706
3	Winter 2022 - 2023																	
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	\$46.83	\$89.37	\$116.17	\$112.49	\$110.21	\$64.56	\$539.63								
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								
13	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				\$69.28	
16	All eff. Aug 1, 2023	units @	\$0.9259											\$11.72	\$11.58	\$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%								
26				Nov	Dec	Jan	Feb	Mar	Apr		May	June	July	August	Sept	October	Summer	Annual
27	Typical Usage: therms		51	96	125	121	119	70	582		43	19	14	13	13	24	124	706
28	Winter 2021 - 2022																	
29	Customer Charge	units @	\$ 22.20	\$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	\$38.02	\$228.09								
31	Over	50 units @	\$0.7603	\$0.41	\$35.32	\$57.30	\$54.29	\$52.41	\$14.96	\$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	\$15.39								
42	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	All @	\$0.8841											\$11.19			\$11.19	
47	Eff. Sept 1, 2022	All @	\$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
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2	Typical Usage: therms (*)		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
3			138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099	
4	Winter 2022 - 2023																	
5	Customer Charge	units @	\$ 80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$480.00								
6	All	units @	\$0.2556	\$35.33	\$74.09	\$102.44	\$101.49	\$95.33	\$54.36	\$463.03								
7		COG 1	\$1.1428	\$157.96						\$157.96								
8		COG 2	\$1.1428		\$331.26					\$331.26								
9		COG 3	\$1.1428			\$458.00				\$458.00								
10		COG 4	\$1.1428				\$453.76			\$453.76								
11		COG 5	\$1.1428					\$426.24		\$426.24								
12		COG 6	\$1.1428						\$243.03	\$243.03								
13		LDAC	\$0.0493	\$6.81	\$14.29	\$19.76	\$19.57	\$18.39	\$10.48	\$89.31								
14	Summer 2023																	
15	Customer Charge	units @	\$ 80.00															
16	All	units @	\$0.2556															
17	All eff. Aug 1, 2023	units @	\$0.2554															
18		COG 1	\$0.7383															
19		COG 2	\$0.7383															
20		COG 3	\$0.7383															
21		COG 4	\$0.7383															
22		COG 5	\$0.7383															
23		COG 6	\$0.7383															
24	Summer Period Weighted Avg. COG		\$0.7383															
25	LDAC		\$ 0.0493															
26	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
27	Base Rate Change Winter			\$ Change	\$11.35	\$18.42	\$23.59	\$23.41	\$22.29	\$14.82	\$113.88							
28				% Change	5%	4%	4%	4%	4%	4%	4%							
29	COG Change Winter			\$ Change	\$25.94	\$54.41	\$91.94	\$71.75	\$26.93	\$15.35	\$286.32							
30				% Change	11%	13%	17%	13%	5%	4%	11%							
31	LDAC Change Winter			\$ Change	\$1.84	\$3.86	\$1.80	\$1.79	-\$0.41	-\$0.23	\$8.64							
32				% Change	0.8%	0.9%	0.3%	0.3%	-0.1%	-0.1%	0.3%							
33																		
34	Typical Usage: therms		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
35			138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099	
36	Winter 2021 - 2022																	
37	Customer Charge	units @	\$ 75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$450.54									
38	First	75 units @	\$0.2090	\$15.68	\$15.68	\$15.68	\$15.68	\$15.68	\$94.05									
39	Over	75 units @	\$0.2090	\$13.21	\$44.91	\$68.09	\$67.31	\$62.28	\$28.77	\$284.56								
40		COG 1	\$0.9551	\$132.01					\$132.01									
41		COG 2	\$0.9551		\$276.85				\$276.85									
42		COG 3	\$0.9134			\$366.06			\$366.06									
43		COG 4	\$0.9621				\$382.01		\$382.01									
44		COG 5	\$1.0706					\$399.31	\$399.31									
45		COG 6	\$1.0706						\$227.68	\$227.68								
46	Winter Period Weighted Avg. COG		\$0.9847															
47		LDAC	\$ 0.0360	\$4.98	\$10.44				\$15.41									
48		LDAC 2, January 1	\$ 0.0448			\$17.95	\$17.79		\$35.74									
49		LDAC 3, March 1	\$ 0.0504					\$18.80	\$10.72	\$29.52								
50	Summer 2022																	
51	Customer Charge**	units @	\$ 75.09															
52	First	75 units @	\$0.2090															
53	Over	75 units @	\$0.2090															
54	Eff, Aug. 1, 2022	All @	\$0.2320															
55	Eff, Sept. 1, 2022	All @	\$0.2556															
56		COG 1	\$0.6630															
57		COG 2	\$0.9395															
58		COG 3	\$0.9395															
59		COG 4	\$0.9395															
60		COG 5	\$1.1473															
61		COG 6	\$1.1473															
62	Summer Period Weighted Avg. COG		\$0.8938															
63	LDAC		\$ 0.0504															
64	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
65	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
66	% 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

Northern Utilities, Inc.
New Hampshire Division
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1				Nov	Dec	Jan	Feb	Mar	Apr	Winter		May	June	July	August	Sept	October	Summer	Annual
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	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$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	\$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				Nov	Dec	Jan	Feb	Mar	Apr	Winter		May	June	July	August	Sept	October	Summer	Annual
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	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$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	\$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
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1				Nov	Dec	Jan	Feb	Mar	Apr		May	June	July	August	Sept	October	Summer	Annual
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	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00								
5	All	units @	\$0.1770	\$262.68	\$348.09	\$385.80	\$378.55	\$374.68	\$304.43	\$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	\$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				Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
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	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84								
30	First	1,300 units @	\$0.1937	\$251.81	\$251.81	\$251.81	\$251.81	\$251.81	\$251.81	\$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
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<u>Residential Heating</u>		
	<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* 125	\$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.

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New Hampshire Division
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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									
2	Typical Usage: therms(*)		43	19	14	13	13	24	124
3	Summer 2023								
4	Customer Charge	units @	\$22.20						\$133.20
5	All	units @	\$0.9266						\$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						
15	TOTAL		\$99.26	\$55.60	\$46.57	\$45.02	\$44.75	\$65.07	\$356.27
	Base Rate Change	\$ 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	\$ 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	\$ 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									
17	Typical Usage: therms		43	19	14	13	13	24	124
18	Summer 2022								
19	Customer Charge	units @	\$22.20						\$133.20
20	First	50 units @	\$0.6782						\$50.71
21	Over	50 units @	\$0.6782						\$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						
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.

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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	287
3	Summer 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	\$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	\$14.16
15	TOTAL		\$195.82	\$121.66	\$107.00	\$107.03	\$106.78	\$141.41	\$779.70
	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	287
18	Summer 2022								
19	Customer Charge**	units @ \$75.09	\$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	\$14.48
32	TOTAL		\$177.50	\$122.96	\$106.13	\$111.67	\$117.31	\$165.57	\$801.13
33	Change		\$18.32	-\$1.31	\$0.88	-\$4.64	-\$10.53	-\$24.16	-\$21.43
34	% Chg		10.32%	-1.06%	0.83%	-4.15%	-8.98%	-14.59%	-2.68%

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

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

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New Hampshire Division
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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									
2	Typical Usage: therms(1)		1,283	526	391	382	389	825	3,797
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	\$ 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	\$ 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	\$ 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%
16									
17	Typical Usage: therms		1,283	526	391	382	389	825	3,797
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
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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	\$0.0493	\$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	\$ 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	\$ 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	\$ 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	\$0.0504	\$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
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NORTHERN UTILITIES, INC. -- NEW HAMPSHIRE DIVISION
Impact of Rate Changes on Residential Heating Bills by Usage Level
Forecast Summer 2023 vs. Actual Summer 2022

<u>Residential Heating</u>		
	<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.

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

Northern Utilities, Inc.
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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.
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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.
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Line No.	Description	May	Jun	Jul	Aug	Sep	Oct	Summer
1	<u>Residential Heating (R5) Weighted LDAC & COG</u>							
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	<u>Small C&I High Winter (G40) Weighted LDAC & COG</u>							
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	<u>Medium C&I High Winter (G41) Weighted LDAC & COG</u>							
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	<u>Medium C&I Low Winter (G51) Weighted LDAC & COG</u>							
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.
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Line No.	Description	Winter \$ Change	Winter % Change	Summer \$ Change	Summer % Change	Annual \$ Change	Annual % Change
1	<u>Residential Heating (R5)</u>						
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	<u>Small C&I High Winter (G40)</u>						
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	<u>Medium C&I High Winter (G41)</u>						
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	<u>Medium C&I Low Winter (G51)</u>						
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

			Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
1			51	96	125	121	119	70	582	43	19	14	13	13	24	124	706
2	Typical Usage: therms (*)																
3	Winter 2022 - 2023																
4	Customer Charge	units @	\$ 22.20														
5	All	units @	\$0.9266	\$22.20	\$22.20	\$22.20	\$22.20	\$22.20	\$133.20	\$ 22.20	\$22.20	\$22.20	\$22.20	\$ 22.20	\$22.20	\$133.20	
6		COG 1	\$1.1289	\$46.83	\$89.37	\$116.17	\$112.49	\$110.21	\$539.63	\$39.60	\$17.16	\$12.52				\$69.28	
7		COG 2	\$1.1289	\$57.05					\$57.05							\$45.33	
8		COG 3	\$1.1289		\$108.88				\$108.88							\$29.56	
9		COG 4	\$1.1289			\$141.53			\$141.53							\$12.81	
10		COG 5	\$1.1289				\$137.06		\$137.06							\$9.35	
11		COG 6	\$1.1289					\$134.27	\$134.27				\$8.76			\$8.76	
12		LDAC	\$0.1850	\$9.35	\$17.84	\$23.19	\$22.46	\$22.00	\$78.66					\$8.65		\$8.65	
13	Summer 2023								\$107.74						\$16.45	\$16.45	
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				\$69.28	
16	All eff. Aug 1, 2023	units @	\$0.9259							\$29.56			\$11.72	\$11.58	\$22.02	\$45.33	
17		COG 1	\$0.6916								\$12.81					\$29.56	
18		COG 2	\$0.6916									\$9.35				\$12.81	
19		COG 3	\$0.6916													\$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	\$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%								
26			Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
27	Typical Usage: therms		51	96	125	121	119	70	582	43	19	14	13	13	24	124	706
28	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								
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	\$15.39								
42	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	All @	\$0.8841										\$11.19			\$11.19	
47	Eff. Sept 1, 2022	All @	\$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	\$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
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%	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
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		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
1	Typical Usage: therms (*)	138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099
2	Winter 2022 - 2023															
3																
4	Customer Charge	units @	\$ 80.00	\$80.00	\$80.00	\$80.00	\$80.00	\$480.00								
5	All	units @	\$35.33	\$74.09	\$102.44	\$101.49	\$95.33	\$54.36								
6	COG 1		\$157.96					\$157.96								
7	COG 2			\$331.26				\$331.26								
8	COG 3				\$458.00			\$458.00								
9	COG 4					\$453.76		\$453.76								
10	COG 5						\$426.24	\$426.24								
11	COG 6							\$243.03								
12	LDAC		\$0.0493	\$6.81	\$14.29	\$19.76	\$19.57	\$18.39	\$10.48							
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	\$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	Typical Usage: therms	Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
27	Winter 2021 - 2022	138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099
28																
29	Customer Charge	units @	\$ 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								
31	Over	75 units @	\$0.2090	\$13.21	\$44.91	\$68.09	\$67.31	\$28.77								
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								
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								
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
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)
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%

*-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

Northern Utilities, Inc.
New Hampshire Division
Record Request 1 Attachment 2
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			Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
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	\$225.00	\$225.00	\$225.00	\$225.00	\$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	Typical Usage: therms		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual	
27			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	\$222.64	\$222.64	\$222.64	\$222.64	\$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	\$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
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		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
1	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	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00								
5	All units @	\$0.1770	\$262.68	\$348.09	\$385.80	\$378.55	\$304.43	\$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	\$1,812.11								
12	LDAC	\$0.0493	\$73.17	\$96.96	\$107.46	\$105.44	\$104.36	\$84.79								
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	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	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84								
30	First 1,300 units @	\$0.1937	\$251.81	\$251.81	\$251.81	\$251.81	\$251.81	\$1,510.86								
31	Over 1,300 units @	\$0.1624	\$29.90	\$108.26	\$142.86	\$136.20	\$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								
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								
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)	\$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
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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	Winter 2022-2023	Total Bill		Base Rate		CGA		LDAC		
	Bill Amount	Bill Amount									
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*	125	\$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									
2	Typical Usage: therms(*)		43	19	14	13	13	24	124
3	Summer 2023								
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	\$ 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	\$ 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	\$ 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									
17	Typical Usage: therms		43	19	14	13	13	24	124
18	Summer 2022								
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	287
3	Summer 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	\$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	\$14.16
15	TOTAL		\$195.82	\$121.66	\$107.00	\$107.03	\$106.78	\$141.41	\$779.70
	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	287
18	Summer 2022								
19	Customer Charge**	units @ \$75.09	\$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	\$14.48
32	TOTAL		\$177.50	\$122.96	\$106.13	\$111.67	\$117.31	\$165.57	\$801.13
33	Change		\$18.32	-\$1.31	\$0.88	-\$4.64	-\$10.53	-\$24.16	-\$21.43
34	% Chg		10.32%	-1.06%	0.83%	-4.15%	-8.98%	-14.59%	-2.68%

*-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

1										
2	Typical Usage: therms(1)			May	June	July	August	Sept	October	Summer
3	Summer 2023			1,283	526	391	382	389	825	3,797
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	\$ 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	\$ 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	\$ 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%
16				May	June	July	August	Sept	October	Summer
17	Typical Usage: therms			1,283	526	391	382	389	825	3,797
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
Typical Usage: therms(1)			1,465	1,237	1,134	1,220	1,164	1,310	7,530
Summer 2023									
Customer Charge	units @	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$225.00	\$1,350.00
All	units @	\$0.1770	\$259.32	\$218.92	\$200.72				\$678.96
All eff. Aug 1, 2023	units @	\$0.1763				\$215.09	\$205.27	\$230.98	\$651.34
	COG 1	\$0.6331	\$927.56						\$927.56
	COG 2	\$0.6331		\$783.04					\$783.04
	COG 3	\$0.6331			\$717.93				\$717.93
	COG 4	\$0.6331				\$772.40			\$772.40
	COG 5	\$0.6331					\$737.13		\$737.13
	COG 6	\$0.6331						\$829.47	\$829.47
Summer Period 2021 Avg. COG									\$0.6331 *
	LDAC	\$0.0493	\$72.23	\$60.98	\$55.91	\$60.15	\$57.40	\$64.59	\$371.25
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
			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
			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
			-0.12%	-0.09%	-0.09%	-0.09%	-0.07%	-0.07%	-0.09%
			May	June	July	August	Sept	October	Summer
Typical Usage: therms			1,465	1,237	1,134	1,220	1,164	1,310	7,530
Summer 2022									
Customer Charge	units @	\$222.64	\$222.64	\$222.64	\$222.64	\$225.00	\$225.00	\$225.00	\$1,342.92
First	1,000 units @	\$0.1562	\$156.20	\$156.20	\$156.20				\$468.60
Over	1,000 units @	\$0.1312	\$61.02	\$31.07	\$17.58				\$109.67
Eff. Aug. 1, 2022	All @	\$0.1656				\$202.04			\$202.04
Eff. Sept. 1, 2022	All @	\$0.1770					\$206.08	\$231.90	\$437.98
	COG 1	\$0.5925	\$868.08						\$868.08
	COG 2	\$0.8690		\$1,074.80					\$1,074.80
	COG 3	\$0.8690			\$985.44				\$985.44
	COG 4	\$0.8690				\$1,060.21			\$1,060.21
	COG 5	\$1.0768					\$1,253.74		\$1,253.74
	COG 6	\$1.0768						\$1,410.79	\$1,410.79
Summer Period 2020 Avg. COG									\$0.8835 *
	LDAC	\$0.0504	\$73.84	\$62.34	\$57.15	\$61.49	\$58.68	\$66.03	\$379.53
TOTAL			\$1,381.78	\$1,547.05	\$1,439.01	\$1,548.73	\$1,743.50	\$1,933.72	\$9,593.80
Change			\$102.33	-\$259.12	-\$239.46	-\$276.09	-\$518.70	-\$583.68	-\$1,774.72
% 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

<u>Residential Heating</u>		
	<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.