



October 4, 2022

BY E-MAIL

Daniel Goldner, Chair
New Hampshire Public Utilities Commission
21 S. Fruit Street, Suite 10
Concord, NH 03301-2429

Re: **Northern Utilities, Inc. -- DG 22-059**
2022 / 2023 Annual Cost of Gas

Second Supplemental Cost of Gas Rate Filing – Rate Case Expense

Dear Chair Goldner:

Enclosed please find the supplemental filing of Northern Utilities, Inc.'s ("Northern" or the "Company") proposed 2022 / 2023 Annual Cost of Gas ("COG") Adjustment filing. This supplemental filing is being submitted due to the recent receipt of an additional invoice from the New Hampshire Department of Energy ("DOE") pertaining to Northern's last rate case filing in Docket No. DG 21-104.

Northern's original rate case expense filing in Docket No. DG 21-104 was made in accordance with the Settlement Agreement filed on May 27, 2022 and approved by the Commission on July 20, 2022 in Order No. 26,650. Section 8.2 of the Settlement provides that Northern's rate case expenses and regulatory proceeding expenses incurred by the Commission, the DOE, and the Office of the Consumer Advocate and charged to the Company would be recovered over one year through the Rate Case Expense Charge, which is part of the Company's the Local Distribution Adjustment Charges ("LDAC") in the Company's next scheduled LDAC rate change effective November 1, 2022. Northern made its LDAC filing on September 16, 2022 as part of the COG in this proceeding.

Also on September 16, 2022, Northern filed an update to its rate case expense information in Docket No. DG 21-104. At that time, Northern noted that it was aware of an additional invoice that was outstanding for a DOE witness, Dr. Woolridge. Northern stated that it would process that invoice when received and would include the costs in the LDAC. Northern has recently received and processed that invoice and submits this revision to the COG filing to account for the inclusion of that cost. Northern is also submitting an update to its rate case expense filing in Docket No. DG 21-104 to reflect the new information.

Matthew J. Fossum
Senior Counsel
fossumm@unitil.com

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Hampton, NH 03842

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As a result of the above update, Northern is submitting revisions to the following Tariff Sheets:

Ninth Revised Page 62 (LDAC);
Sixteenth & Seventeenth Revised Page No. 86 (Rate Summaries); and
Fifteenth & Sixteenth Revised Page No. 88 (Rate Summaries).

Also provided is the supplemental testimony and revised attachments of Elena Demeris explaining the updates and the impact on the LDAC calculation and typical bill impacts. The revised 2022 / 2023 LDAC for Residential customers is \$0.1850 per therm and the revised C&I LDAC is \$0.0493 per therm. This is an increase of \$0.0005 per therm for all rate classes above the rates presented in the September 23 revised filing.

The typical bill for a Residential heating customer for the 2022 / 2023 Winter Season is projected to be \$1,438.02. This is higher than the 2021 / 2022 Winter Season bill by \$256.76 or 21.7%.¹ The typical bill for a Residential heating customer for the 2023 Summer Season is projected to be \$356.27. This is higher than the 2022 Summer Season bill by \$8.80 or 2.53%.

If you have any questions or need additional information, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew J. Fossum".

Matthew J. Fossum
Senior Counsel

CC: Service List

¹ This bill impact includes changes to the Company's COG, LDAC and Distribution Base Rates.

Local Delivery Adjustment Clause

Rate Schedule	GAP	EEC	LRR	ERC	ITMC	RCE	RPC	PTAM	RAAM	LDAC
Residential Heating	\$0.0037	\$0.0499	\$0.0000	\$0.0058	\$0.0000	\$0.0048	\$0.1206	\$0.0000	\$0.0002	\$0.1850
Residential Non-Heating	\$0.0037	\$0.0499	\$0.0000	\$0.0058	\$0.0000	\$0.0048	\$0.1206	\$0.0000	\$0.0002	\$0.1850
Small C&I	\$0.0037	\$0.0247	\$0.0000	\$0.0058	\$0.0000	\$0.0048	\$0.0101	\$0.0000	\$0.0002	\$0.0493
Medium C&I	\$0.0037	\$0.0247	\$0.0000	\$0.0058	\$0.0000	\$0.0048	\$0.0101	\$0.0000	\$0.0002	\$0.0493
Large C&I	\$0.0037	\$0.0247	\$0.0000	\$0.0058	\$0.0000	\$0.0048	\$0.0101	\$0.0000	\$0.0002	\$0.0493
No Previous Sales Service										

Issued: October 4, 2022
 Effective: With Service Rendered On and After November 1, 2022
 Authorized by NHPUC Order No. in Docket No. DG 22- , dated , 2022

Issued by: **Robert B. Hevert**
 Title: **Senior Vice President**

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Seventeenth Revised Page 86
Superseding Sixteenth Revised Page 86

**NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE RESIDENTIAL RATES**

Summer Season May 2023 - October 2023		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas	
Residential Heating	<u>Tariff Rate R 5:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$22.20 \$0.9266 \$0.1850 \$0.6927	\$22.20 \$1.1116	\$22.20 \$1.8043	\$22.20
Residential Heating Low Income	<u>Tariff Rate R 10:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$22.20 \$0.9266 \$0.1850 \$0.6927	\$22.20 \$1.1116	\$22.20 \$1.8043	\$22.20
Discount*	Monthly Customer Charge	\$0.00	\$0.00	\$0.00	\$0.00
Discount*	All usage	\$0.0000	\$0.0000	\$0.0000	
Discount*	LDAC	\$0.0000			
Discount*	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.0000			
Residential Non-Heating	<u>Tariff Rate R 6:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$22.20 \$1.4053 \$0.1850 \$0.6927	\$22.20 \$1.5903	\$22.20 \$2.2830	\$22.20

*: Discount applicable to winter months November through April only.

Issued: October 4, 2022
Effective: With Service Rendered On and After May 1, 2023
Authorized by NHPUC Order Nos. _____ in Docket Nos. DG _____, dated _____

Issued by: **Robert B. Hevert**
Title: **Senior Vice President**

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Sixteenth Revised Page 86
Superseding Fifteenth Revised Page 86

**NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE RESIDENTIAL RATES**

Winter Season November 2022 - April 2023		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	<u>Tariff Rate R 5:</u>			
	Monthly Customer Charge	\$22.20	\$22.20	\$22.20
	All usage	\$0.9266	\$1.1116	\$2.2473
	LDAC	\$0.1850		
	<u>Gas Cost Adjustment:</u>			
	Cost of Gas	\$1.1357		
Residential Heating Low Income	<u>Tariff Rate R 10:</u>			
	Monthly Customer Charge	\$22.20	\$22.20	\$22.20
	All usage	\$0.9266	\$1.1116	\$2.2473
	LDAC	\$0.1850		
	<u>Gas Cost Adjustment:</u>			
	Cost of Gas	\$1.1357		
	Monthly Customer Charge	(\$9.99)	(\$9.99)	(\$9.99)
	All usage	(\$0.4170)	(\$0.4170)	(\$0.9280)
LDAC	\$0.0000			
<u>Gas Cost Adjustment:</u>				
	Cost of Gas	(\$0.5111)		
Residential Non-Heating	<u>Tariff Rate R 6:</u>			
	Monthly Customer Charge	\$22.20	\$22.20	\$22.20
	All usage	\$1.4053	\$1.5903	\$2.7260
	LDAC	\$0.1850		
	<u>Gas Cost Adjustment:</u>			
	Cost of Gas	\$1.1357		

*: Discount applicable to winter months November through April only.

Issued: October 4, 2022

Effective: With Service Rendered On and After November 1, 2022

Authorized by NHPUC Order Nos. _____ in Docket Nos. DG _____, dated _____

Issued by: **Robert B. Hevert**
Title: Senior Vice President

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Sixteenth Revised Page 88
Superseding Fifteenth Revised Page 88

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE C & I RATES

Summer Season May 2023 - October 2023		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	<u>Tariff Rate G 40:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2556 \$0.0493 \$0.7394	\$80.00 \$0.3049	\$80.00 \$1.0443
C&I Low Annual/Low Winter	<u>Tariff Rate G 50:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2359 \$0.0493 \$0.6342	\$80.00 \$0.2852	\$80.00 \$0.9194
C&I Medium Annual/High Winter	<u>Tariff Rate G 41:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.2883 \$0.0493 \$0.7394	\$225.00 \$0.3376	\$225.00 \$1.0770
C&I Medium Annual/Low Winter	<u>Tariff Rate G 51:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.1770 \$0.0493 \$0.6342	\$225.00 \$0.2263	\$225.00 \$0.8605
C&I High Annual/High Winter	<u>Tariff Rate G 42:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.2185 \$0.0493 \$0.7394	\$1,350.00 \$0.2678	\$1,350.00 \$1.0072
C&I High Annual/Low Winter	<u>Tariff Rate G 52:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.1096 \$0.0493 \$0.6342	\$1,350.00 \$0.1589	\$1,350.00 \$0.7931

Issued: October 4, 2022
Effective: With Service Rendered On and After November 1, 2022
Authorized by NHPUC Order Nos. _____ in Docket Nos. DG _____, dated _____

Issued by: Robert B. Hevert
Title: Senior Vice President

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Fifteenth Revised Page 88
Superseding Fourteenth Revised Page 88

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE C & I RATES

Winter Season November 2022 - April 2023	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter Tariff Rate G 40: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2556 \$0.0493 \$1.1496	\$80.00 \$0.3049	\$80.00 \$1.4545
C&I Low Annual/Low Winter Tariff Rate G 50: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2359 \$0.0493 \$1.0604	\$80.00 \$0.2852	\$80.00 \$1.3456
C&I Medium Annual/High Winter Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.2883 \$0.0493 \$1.1496	\$225.00 \$0.3376	\$225.00 \$1.4872
C&I Medium Annual/Low Winter Tariff Rate G 51: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.1770 \$0.0493 \$1.0604	\$225.00 \$0.2263	\$225.00 \$1.2867
C&I High Annual/High Winter Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.2185 \$0.0493 \$1.1496	\$1,350.00 \$0.2678	\$1,350.00 \$1.4174
C&I High Annual/Low Winter Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.1796 \$0.0493 \$1.0604	\$1,350.00 \$0.2289	\$1,350.00 \$1.2893

Issued: October 4, 2022

Effective: With Service Rendered On and After November 1, 2022

Authorized by NHPUC Order Nos. _____ in Docket Nos. DG _____, dated _____

Issued by:

Title:

Robert B. Hevert

Senior Vice President

N.H.P.U.C. No. 12 - Gas
Northern Utilities, Inc.

~~Ninth~~ ~~Eighth~~ Revised Page 62
Superseding ~~Eighth~~ ~~Seventh~~ Revised Page 62

Local Delivery Adjustment Clause

Rate Schedule	GAP	<i>GAP</i>	EEC	LRR	<i>LRR</i>	ERC	<i>ERC</i>	ITMC	RGE	<i>RCE</i>	RPC	<i>RPC</i>	PTAM	<i>PTAM</i>	RAAM	<i>RAAM</i>	LDAC	<i>LDAC</i>
Residential Heating	\$0.0033	<i>\$0.0037</i>	\$0.0499	\$0.0066	<i>\$0.0000</i>	\$0.0056	<i>\$0.0058</i>	\$0.0000	\$0.0000	<i>\$0.0048</i>	\$0.0000	<i>\$0.1206</i>	\$0.0435	<i>\$0.0000</i>	\$0.0027	<i>\$0.0002</i>	\$0.0846	<i>\$0.1850</i>
Residential Non-Heating	\$0.0033	<i>\$0.0037</i>	\$0.0499	\$0.0066	<i>\$0.0000</i>	\$0.0056	<i>\$0.0058</i>	\$0.0000	\$0.0000	<i>\$0.0048</i>	\$0.0000	<i>\$0.1206</i>	\$0.0435	<i>\$0.0000</i>	\$0.0027	<i>\$0.0002</i>	\$0.0846	<i>\$0.1850</i>
Small C&I	\$0.0033	<i>\$0.0037</i>	\$0.0247	\$0.0006	<i>\$0.0000</i>	\$0.0056	<i>\$0.0058</i>	\$0.0000	\$0.0000	<i>\$0.0048</i>	\$0.0000	<i>\$0.0101</i>	\$0.0435	<i>\$0.0000</i>	\$0.0027	<i>\$0.0002</i>	\$0.0504	<i>\$0.0493</i>
Medium C&I	\$0.0033	<i>\$0.0037</i>	\$0.0247	\$0.0006	<i>\$0.0000</i>	\$0.0056	<i>\$0.0058</i>	\$0.0000	\$0.0000	<i>\$0.0048</i>	\$0.0000	<i>\$0.0101</i>	\$0.0435	<i>\$0.0000</i>	\$0.0027	<i>\$0.0002</i>	\$0.0504	<i>\$0.0493</i>
Large C&I	\$0.0033	<i>\$0.0037</i>	\$0.0247	\$0.0006	<i>\$0.0000</i>	\$0.0056	<i>\$0.0058</i>	\$0.0000	\$0.0000	<i>\$0.0048</i>	\$0.0000	<i>\$0.0101</i>	\$0.0435	<i>\$0.0000</i>	\$0.0027	<i>\$0.0002</i>	\$0.0504	<i>\$0.0493</i>
No Previous Sales Service																		

Issued: ~~October 4, 2022~~ ~~February 25, 2022~~
 Effective: With Service Rendered On and After ~~November~~ ~~March~~ 1, 2022
 Authorized by NHPUC Order No. ~~26-579~~ in Docket No. ~~DE-20-092~~, dated ~~February 10, 2022~~
 and ~~Order No. 26-581~~ in Docket No. ~~DG-21-123~~, dated ~~February 15, 2022~~

Issued by: Robert B. Hevert
 Title: Senior Vice President

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Sixteenth ~~Seventeenth~~ Revised Page 86
Superseding ~~Fifteenth~~ ~~Sixteenth~~ Page 86

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE RESIDENTIAL RATES

	Winter Summer Season May 2023 - October 2023 November 2022 - April 2023	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	Tariff Rate R 5: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.9266 \$0.1850 \$1.1357 \$0.6927	\$22.20 \$1.1116	\$22.20 \$2.2473 \$1.8043
Residential Heating Low income	Tariff Rate R 10: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.9266 \$0.1850 \$1.1357 \$0.6927	\$22.20 \$1.1116	\$22.20 \$2.2473 \$1.8043
Discount	Monthly Customer Charge	(\$9.99) \$0.0000	(\$9.99) \$0.0000	(\$9.99) \$0.0000
Discount	All usage	(\$0.4170) \$0.0000	(\$0.4170) \$0.0000	(\$0.9280) \$0.0000
Discount	LDAC	\$0.0000 \$0.0000	\$0.0000 \$0.0000	\$0.0000 \$0.0000
Discount	Gas Cost Adjustment: Cost of Gas	(\$0.5111) \$0.0000		
Residential Non-Heating	Tariff Rate R 6: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$1.4053 \$0.1850 \$1.1357 \$0.6927	\$22.20 \$1.5903	\$22.20 \$2.7260 \$2.2830

*: Discount applicable to winter months November through April only.

Issued: ~~September 16~~ ~~October 4~~, 2022

Effective: With Service Rendered On and After ~~November 1, 2022~~ ~~May 1, 2023~~

Authorized by NHPUC Order Nos. ~~26,539~~ _____ in Docket Nos. DG ~~21-434~~ _____, dated ~~October 29, 2021~~ _____

Issued by:

Robert B. Hevert

Title:

Senior Vice President

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

~~Fifteenth~~ ~~Sixteenth~~ Revised Page 86
Superseding ~~Fourteenth~~ Fifteenth Page 86

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE RESIDENTIAL RATES

		<u>Summer Winter Season</u> <u>May 2023 – October 2022</u> <u>November 2022 - April 2023</u>		Tariff Rates		Total Delivery Rates (Includes LDAC)		Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas	
Residential Heating	Tariff Rate R 5: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.9266 \$0.0816 <u>\$0.1850</u> \$1.1204 <u>\$1.1357</u>		\$22.20 \$1.0082 <u>\$1.1116</u>		\$22.20 \$2.1286 <u>\$2.2473</u>		\$22.20 \$2.1286 <u>\$2.2473</u>	
Residential Heating Low income	Tariff Rate R 10: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.9266 \$0.0816 <u>\$0.1850</u> \$1.1204 <u>\$1.1357</u> \$0.0000 (<u>\$9.9900</u>) \$0.0000 (<u>\$0.4170</u>) \$0.0000 (\$0.5042) (<u>\$0.5111</u>)		\$22.20 \$1.0082 <u>\$1.1116</u> (\$9.99) \$0.0000 (<u>\$0.4170</u>)		\$22.20 \$2.1286 <u>\$2.2473</u> (\$9.99) \$0.0000 (<u>\$0.9280</u>)		\$22.20 \$2.1286 <u>\$2.2473</u> (\$9.99) \$0.0000 (<u>\$0.9280</u>)	
Residential Non-Heating	Tariff Rate R 6: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$1.4053 \$0.0816 <u>\$0.1850</u> \$1.1204 <u>\$1.1357</u>		\$22.20 \$1.4869 <u>\$1.5903</u>		\$22.20 \$2.6073 <u>\$2.7260</u>		\$22.20 \$2.6073 <u>\$2.7260</u>	

*: Discount applicable to winter months November through April only.

Issued: ~~September 8~~ October 4, 2022

Effective: With Service Rendered On and After ~~September~~ November 1, 2022

Authorized by NHPUC Order Nos. ~~26,539~~ _____ in Docket Nos. DG ~~21-434~~ _____, dated ~~October 29, 2021~~ _____

Issued by:

Robert B. Hevert

Title:

Senior Vice President

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Fifteenth Sixteenth Revised Page 88
Superseding Fourteenth Fifteenth Page 88

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE C & I RATES

	<u>Winter</u> <u>Summer</u> Season <u>May 2023 - October 2023</u> <u>November 2022 - April 2023</u>	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	Tariff Rate G 40: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2556 \$0.0493 \$1.1496 \$0.7394	\$80.00 \$0.3049	\$80.00 \$1.4545 \$1.0443
C&I Low Annual/Low Winter	Tariff Rate G 50: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2359 \$0.0493 \$1.0604 \$0.6342	\$80.00 \$0.2852	\$80.00 \$1.3456 \$0.9194
C&I Medium Annual/High Winter	Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.2883 \$0.0493 \$1.1496 \$0.7394	\$225.00 \$0.3376	\$225.00 \$1.4872 \$1.0770
C&I Medium Annual/Low Winter	Tariff Rate G 51: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.1770 \$0.0493 \$1.0604 \$0.6342	\$225.00 \$0.2263	\$225.00 \$1.2867 \$0.8605
C&I High Annual/High Winter	Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.2185 \$0.0493 \$1.1496 \$0.7394	\$1,350.00 \$0.2678	\$1,350.00 \$1.4174 \$1.0072
C&I High Annual/Low Winter	Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.1796 \$0.1096 \$0.0493 \$1.0604 \$0.6342	\$1,350.00 \$0.2289 \$0.1589	\$1,350.00 \$1.2893 \$0.7931

Issued: ~~September 16~~ October 4, 2022
 Effective: With Service Rendered On and After ~~September 1, 2022~~ May 1, 2023
 Authorized by NHPUC Order Nos. 26,539 in Docket Nos. DG 21-131, dated ~~October 29, 2021~~

Issued by: **Robert B. Hevert**
 Title: Senior Vice President

NHPUC No. 12 - Gas
NORTHERN UTILITIES, INC.

Fourteenth Fifteenth Revised Page 88
Superseding Thirteenth Fourteenth Page 88

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE C & I RATES

	Summer Winter Season May 2022 - October 2022 November 2022 - April 2023	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	Tariff Rate G 40: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2556 \$0.0504 <u>\$0.0493</u> \$1.1473 <u>\$1.1496</u>	\$80.00 \$0.3060 <u>\$0.3049</u>	\$80.00 \$1.4533 <u>\$1.4545</u>
C&I Low Annual/Low Winter	Tariff Rate G 50: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2359 \$0.0504 <u>\$0.0493</u> \$1.0768 <u>\$1.0604</u>	\$80.00 \$0.2863 <u>\$0.2852</u>	\$80.00 \$1.3631 <u>\$1.3456</u>
C&I Medium Annual/High Winter	Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.2883 \$0.0504 <u>\$0.0493</u> \$1.1473 <u>\$1.1496</u>	\$225.00 \$0.3387 <u>\$0.3376</u>	\$225.00 \$1.4860 <u>\$1.4872</u>
C&I Medium Annual/Low Winter	Tariff Rate G 51: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$225.00 \$0.1770 \$0.0504 <u>\$0.0493</u> \$1.0768 <u>\$1.0604</u>	\$225.00 \$0.2274 <u>\$0.2263</u>	\$225.00 \$1.3042 <u>\$1.2867</u>
C&I High Annual/High Winter	Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.2185 \$0.0504 <u>\$0.0493</u> \$1.1473 <u>\$1.1496</u>	\$1,350.00 \$0.2689 <u>\$0.2678</u>	\$1,350.00 \$1.4162 <u>\$1.4174</u>
C&I High Annual/Low Winter	Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,350.00 \$0.1096 <u>\$0.1796</u> \$0.0504 <u>\$0.0493</u> \$1.0768 <u>\$1.0604</u>	\$1,350.00 \$0.1600 <u>\$0.2289</u>	\$1,350.00 \$1.2368 <u>\$1.2893</u>

Issued: ~~September 8~~ October 4, 2022

Effective: With Service Rendered On and After ~~September~~ November 1, 2022

Authorized by NHPUC Order Nos. ~~26,539~~ _____ in Docket Nos. DG ~~21-134~~ _____, dated ~~October 29, 2021~~ _____

Issued by:

Robert B. Hevert

Title:

Senior Vice President

**NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
NOVEMBER 2022/OCTOBER 2023 ANNUAL COST OF GAS
ADJUSTMENT FILING
PREFILED SECOND SUPPLEMENT TO THE TESTIMONY OF
S. ELENA DEMERIS**

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is S. Elena Demeris. My business address is 6 Liberty Lane West, Hampton,
4 New Hampshire.

5

6 **Q. For whom do you work and in what capacity?**

7 A. I am a Senior Regulatory Analyst for Unitil Service Corp. (“Unitil Service”), a subsidiary
8 of Unitil Corporation that provides managerial, financial, regulatory and engineering
9 services to Unitil Corporation’s principal subsidiaries Fitchburg Gas and Electric Light
10 Company, d/b/a Unitil (“FG&E”), Granite State Gas Transmission, Inc. (“Granite”),
11 Northern Utilities, Inc. d/b/a Unitil (“Northern”), and Unitil Energy Systems, Inc.
12 (“UES”) (together “Unitil”). In this capacity I am responsible for preparing regulatory
13 filings, pricing research, regulatory analysis, tariff administration, revenue requirements
14 calculations, customer research, and other analytical services.

15

16 **Q. Please summarize your professional and educational background.**

17 A. In 1996, I graduated from the University of Massachusetts - Lowell with a Bachelor’s of
18 Science Degree in Civil Engineering. In 2005, I earned a Master’s Degree in Business
19 Administration and in 2006 a Master’s Degree in Finance from Southern New Hampshire
20 University. I joined Unitil in July 1998 in the regulatory/rate department.

**Prefiled Second Supplement to the Testimony of S. Elena Demeris
 Annual 2022/2023 COG Filing
 Page 2 of 4**

1 **Q. Please explain why you are providing a second supplement to your testimony in this**
 2 **proceeding?**

3 A. Due to additional invoices and adjustments to the total Rate Case Expenses I am revising
 4 the calculation of the Rate Case Expense (“RCE”) included in the Local Delivery
 5 Adjustment Charges (“LDAC”) for effect November 1, 2022. In addition to the revised
 6 RCE, this revision includes updated bill impacts and tariff pages for effect November 1,
 7 2022.

8
 9 **Q. What are the Company’s revised LDAC surcharges?**

10 A. The revised LDAC is \$0.1850 per therm for the Residential Class and \$0.0493 per therm
 11 for the Commercial/Industrial (C&I) Class effective November 1, 2022 through October
 12 31, 2023. The proposed rates are included on the Ninth Revised Tariff Page 62,
 13 superseding the Eighth Revised Tariff Page 62. The table below summarizes the rate
 14 changes proposed in this filing. Residential customers will see an increase of \$0.1034 in
 15 LDAC charges, driven primarily by the RPC. C&I customers will see a decrease in
 16 LDAC charges of \$0.0011, the C&I specific RPC is offset by PTAM and RAAM
 17 decreases.

Charge	Current \$/therm	Proposed \$/therm	Difference
GAP	\$0.0033	\$0.0037	\$0.0004
LRR – Residential	\$0.0066	\$0.0000	(\$0.0066)
ERC	\$0.0056	\$0.0058	\$0.0002
RCE	\$0.0000	\$0.0048	\$0.0048
RPC – Residential	\$0.0000	\$0.1206	\$0.1206
PTAM	\$0.0135	\$0.0000	(\$0.0135)
RAAM	\$0.0027	\$0.0002	(\$0.0025)
Total Difference Residential	\$0.0317	\$0.1351	\$0.1034

**Prefiled Second Supplement to the Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 3 of 4**

Charge	Current \$/therm	Proposed \$/therm	Difference
GAP	\$0.0033	\$0.0037	\$0.0004
LRR – C&I	\$0.0006	\$0.0000	(\$0.0006)
ERC	\$0.0056	\$0.0058	\$0.0002
RCE	\$0.0000	\$0.0048	\$0.0048
RPC – C&I	\$0.0000	\$0.0101	\$0.0101
PTAM	\$0.0135	\$0.0000	(\$0.0135)
RAAM	\$0.0027	\$0.0002	(\$0.0025)
Total Difference C&I	\$0.0257	\$0.0246	(\$0.0011)

1

2 **Q. Please explain the revised calculation of the proposed RCE rate.**

3 **A.** Revised Attachment NUI-SED-1 RCE provides the updated calculation of the RCE. The
4 Company is also submitting an update to the total rate case expenses in Docket No. DG
5 21-104. Revised Attachment NUI-SED-1 RCE, line 1, reflects the total rate case
6 expenses including an adjustment identified in the audit of total rate case expense and
7 two additional invoices that were received subsequent to the Company’s September 16th
8 filing. That amount, divided by forecasted sales for the November 2022 – October 2023
9 period, results in a per therm RCE of \$0.0048. This is an increase of \$0.0005 from the
10 rate proposed on September 16th.

11

12 **Q. Have you prepared typical bill analyses showing the impacts of the proposed COG
13 and revised LDAC rate changes for effect on November 1, 2022 for typical
14 Residential heating customers over the upcoming Winter Season?**

15 **A.** Yes, Second Revised Attachment NUI-SED-3, page 1 provides the analyses including
16 revisions submitted September 23. It shows that a typical Residential heating customer
17 consuming 582 therms during the 2022/2023 Winter Season can expect a bill of

**Prefiled Second Supplement to the Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 4 of 4**

1 \$1,438.02. This is an increase of \$256.76, or 21.7% compared to the 2021/2022 Winter
2 Season bill with the same consumption.

3

4 **Q. Have you prepared typical bill analyses showing the impacts of the proposed COG**
5 **and revised LDAC for effect on May 1, 2023 for typical Residential heating gas**
6 **customers over the next Summer Season?**

7 A. Yes, Second Revised Attachment NUI-SED-3, page 6 provides this analysis including
8 revisions filed on September 23. It shows that a typical residential heating customer
9 consuming 124 therms during the 2023 Summer Season can expect a bill of \$356.27.
10 This is an increase of \$8.80, or 2.53% compared to the 2022 Summer Season bill with the
11 same consumption.

12

13 **Q. Does this conclude your testimony?**

14 A. Yes, it does.

Northern Utilities, Inc.
New Hampshire Division
Annual 2022/2023 COG/LDAC Filing
Revised Attachment SED-1 RCE
Page 1 of 1

NORTHERN UTILITIES, INC.
RATE CASE EXPENSE ("RCE")
NOVEMBER 1, 2022 THROUGH OCTOBER 31, 2023

Line #	Description	Amount	Reference
1	Rate Case Expense to be Recovered	\$373,871	DG 21-104 Rate Case Expense Filing
2	Forecasted Firm Sales & Firm Transportation Volumes (therms) (1)	77,881,226	
3	RCE Rate (\$/therm)	<u><u>\$0.0048</u></u>	

(1) Forecasted sales for November 1, 2022 through October 31, 2023.

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	Typical Usage: therms (*)	51	96	125	121	119	70	582	43	19	14	13	13	24	124	706
2																
3	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								
13	Summer 2023															
14	Customer Charge units @	\$ 22.20	\$ 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	
15	All units @	\$0.9266	\$39.60	\$17.16	\$12.52			\$69.28	\$17.16	\$12.52	\$11.72	\$11.58	\$22.02	\$22.02	\$45.33	
16	All eff. Aug 1, 2023 units @	\$0.9259	\$29.56					\$29.56							\$29.56	
17	COG 1	\$0.6916						\$0.6916		\$12.81					\$12.81	
18	COG 2	\$0.6916						\$0.6916			\$9.35				\$9.35	
19	COG 3	\$0.6916						\$0.6916				\$8.76			\$8.76	
20	COG 4	\$0.6916						\$0.6916					\$8.65		\$8.65	
21	COG 5	\$0.6916						\$0.6916						\$16.45	\$16.45	
22	COG 6	\$0.6916						\$0.6916								
23	Summer Period Weighted Avg. COG	\$0.6916						\$0.6916								
24	LDAC	\$ 0.1850	\$7.91	\$3.43	\$2.50	\$2.34	\$2.31	\$4.40	\$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	\$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								
		% Change	7.55%	8.35%	8.75%	8.51%	7.98%	7.51%								
	COG Change Winter	\$ Change	\$9.59	\$18.30	\$29.01	\$22.18	\$8.83	\$5.17								
		% Change	8.62%	9.52%	12.17%	9.34%	3.56%	3.35%								
	LDAC Change Winter	\$ Change	\$6.16	\$11.76	\$14.94	\$14.47	\$12.30	\$7.20								
		% Change	5.54%	6.12%	6.27%	6.10%	4.96%	4.67%								
26	Typical Usage: therms	51	96	125	121	119	70	582	43	19	14	13	13	24	124	706
27																
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	\$38.02								
31	Over 50 units @	\$0.7603	\$0.41	\$35.32	\$57.30	\$54.29	\$52.41	\$14.96								
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						\$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								
42	Summer 2022															
43	Customer Charge units @	\$ 22.20	\$ 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	
44	First 50 units @	\$0.6782	\$28.98	\$12.56	\$9.17			\$50.71	\$12.56	\$9.17					\$0.00	
45	Over 50 units @	\$0.6782	\$0.00	\$0.00	\$0.00			\$0.00							\$0.00	
46	Eff. Aug 1, 2022 All @	\$0.8841						\$0.8841			\$11.19				\$11.19	
47	Eff. Sept 1, 2022 All @	\$0.9266						\$0.9266				\$11.59	\$22.04		\$33.63	
48	COG 1	\$0.6361	\$27.18					\$27.18							\$27.18	
49	COG 2	\$0.9126						\$0.9126		\$16.90					\$16.90	
50	COG 3	\$0.9126						\$0.9126			\$12.33				\$12.33	
51	COG 4	\$0.9126						\$0.9126				\$11.55			\$11.55	
52	COG 5	\$1.1204						\$1.1204					\$14.02		\$14.02	
53	COG 6	\$1.1204						\$1.1204						\$26.65	\$26.65	
54	Summer Period Weighted Avg. COG	\$0.8781						\$0.8781								
55	LDAC	\$ 0.0816	\$3.49	\$1.51	\$1.10	\$1.03	\$1.02	\$1.94	\$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	\$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	\$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%	21.26%	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
SECOND REVISED Attachment NUI-SED-3
Page 2 of 10

		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																
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	\$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	\$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									
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	\$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									
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

**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
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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 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 G-51 Commercial & Industrial Bill - 19,136 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	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
2																
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	\$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%	-0.28%	-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
27																
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	\$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								
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)	(\$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

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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	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	\$133.20	
5	All units @	\$0.9266	\$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	
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	\$0.00	\$0.00	\$0.00	\$18.57
		% Change	12.97%	8.65%	7.49%	0.00%	0.00%	0.00%	5.35%
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%
		May	June	July	August	Sept	October	Summer	
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	\$133.20	
20	First 50 units @	\$0.6782	\$12.56	\$9.17				\$50.71	
21	Over 50 units @	\$0.6782	\$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	
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

1			May	June	July	August	Sept	October	Summer
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	\$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			\$10.08	\$6.77	\$6.12	\$11.53	\$11.47	\$19.95	\$65.91
			5.68%	5.51%	5.76%	10.80%	10.20%	12.42%	8.38%
COG Change			\$8.36	-\$8.03	-\$5.21	-\$5.21	-\$10.50	-\$24.08	-\$44.68
			4.71%	-6.53%	-4.91%	-4.88%	-9.34%	-14.99%	-5.68%
LDAC Change			-\$0.12	-\$0.04	-\$0.03	-\$0.03	-\$0.03	-\$0.06	-\$0.32
			-0.07%	-0.04%	-0.03%	-0.03%	-0.03%	-0.04%	-0.04%
16			May	June	July	August	Sept	October	Summer
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	\$75.09	\$75.09	\$75.09	\$75.09	\$450.54
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	\$106.76	\$112.40	\$160.66	\$786.40
33	Change		\$18.32	-\$1.31	\$0.88	\$0.27	-\$5.62	-\$19.25	-\$6.70
34	% Chg		10.32%	-1.06%	0.83%	0.26%	-5.00%	-11.98%	-0.85%

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

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	<u>Summer</u>	
1	Typical Usage: therms(1)	1,283	526	391	382	389	825	3,797	
3	Summer 2023								
4	Customer Charge units @	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84	
5	All units @	\$0.1895	\$243.22	\$99.72	\$74.06			\$416.99	
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		\$1,476.71	\$736.79	\$604.51	\$633.57	\$641.50	\$1,110.40	\$5,203.48

Base Rate Change	\$ Change	-\$28.88	-\$11.84	-\$8.79	\$0.00	\$0.00	\$0.00	-\$49.51
	% Change	-2.05%	-1.38%	-1.27%	0.00%	0.00%	0.00%	-0.84%
COG Change	\$ Change	\$96.64	-\$105.87	-\$78.63	-\$76.86	-\$159.26	-\$337.54	-\$661.52
	% Change	6.85%	-12.38%	-11.36%	-10.89%	-19.88%	-23.29%	-11.19%
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%

		May	June	July	August	Sept	October	<u>Summer</u>	
16	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	\$222.64	\$222.64	\$1,335.84	
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	\$705.61	\$801.26	\$1,449.01	\$5,913.70
32	Change		\$66.35	-\$118.29	-\$87.86	-\$72.05	-\$159.76	-\$338.61	-\$710.22
33	% Chg		4.70%	-13.83%	-12.69%	-10.21%	-19.94%	-23.37%	-12.01%

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

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	Typical Usage: therms(1)		1,465	1,237	1,134	1,220	1,164	1,310	7,530
2	Summer 2023								
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 @	\$0.1770	\$259.32	\$218.92	\$200.72			\$678.96
6	All eff. Aug 1, 2023	units @	\$0.1763			\$215.09	\$205.27	\$230.98	\$651.34
7		COG 1	\$0.6331	\$927.56					\$927.56
8		COG 2	\$0.6331		\$783.04				\$783.04
9		COG 3	\$0.6331		\$717.93				\$717.93
10		COG 4	\$0.6331			\$772.40			\$772.40
11		COG 5	\$0.6331				\$737.13		\$737.13
12		COG 6	\$0.6331					\$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
15	TOTAL			\$1,484.12	\$1,287.93	\$1,199.55	\$1,272.64	\$1,224.80	\$1,350.04
									\$7,819.08
									\$114.85
									1.29%
									-\$1,234.64
									-13.82%
									-\$8.28
									-0.09%
									\$8,935.83
									-\$1,116.76
									-12.50%

*-Note- Weighted by usage.

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	
			Amount	%	Amount	%	Amount	%	Amount	%
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*	\$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.