



September 16, 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-XXX**
2022 / 2023 Annual Cost of Gas and Associated Charges Filing

Dear Chair Goldner:

Enclosed please find redacted and confidential versions of Northern Utilities, Inc.'s ("Northern" or the "Company") proposed 2022 / 2023 Annual Cost of Gas ("COG") Adjustment filing and other proposed rate and tariff changes.

Northern respectfully requests approval for the following Tariff Sheets:

Fifth Revised Page 40 (COG);
Fifth Revised Page 41 (COG);
Twelfth Revised Page 42 (COG);
Fifteenth Revised Page 43 (COG);
Ninth Revised Page 62 (LDAC);
Sixteenth & Seventeenth Revised Page No. 86 (Rate Summaries);
Fifteenth & Sixteenth Revised Page No. 88 (Rate Summaries);
Sixth Revised Page 141 (Appendix A);
Fifth Revised Page 153 (Appendix C); and
Fifth Revised Page 158 (Appendix D).

The above listed Tariff Sheets are issued September 16, 2022 by Robert B. Hevert, Senior Vice President to be effective November 1, 2022 and May 1, 2023.

Fifth Revised Page 40 (COG) is a statement of the Company's anticipated direct and indirect costs of gas for the 2022 / 2023 Winter Period.

Fifth Revised Page 41 (COG) is a statement of the Company's anticipated direct and indirect costs of gas for the 2023 Summer Period.

Matthew J. Fossum
Senior Counsel
fossumm@unitil.com

6 Liberty Lane West
Hampton, NH 03842

T 603.773.6537
www.unitil.com



Twelfth Revised Page 42 (COG) contains the calculations of the proposed 2022 / 2023 Winter Period COG Adjustment Rates for Residential and General Service (C&I) Sales Customers.

Fifteenth Revised Page 43 (COG) contains the calculations of the proposed 2023 Summer Period COG Adjustment Rates for Residential and General Service (C&I) Sales Customers.

Ninth Revised Page 62 (LDAC) contains proposed rates for the Company's GAP, EEC, LRR, PTAM, ITMC, REC, RPC, RAAM, and ERC, all of which are components of the Company's Local Distribution Adjustment Charge (LDAC) Rate. Support for the ERC will be filed under separate cover.

Sixteenth Revised Page 86 and Fifteenth Revised Page 88, (Rate Summaries) have been updated to reflect the proposed 2022-2023 Winter Period COG and LDAC Rates.

Seventeenth Revised Page 86 and Sixteenth Revised Page 88 (Rate Summaries) have been updated to reflect the proposed 2023 Summer Period COG and LDAC Rates.

Sixth Revised Page 141 (Appendix A), Schedule of Administrative Fees and Charges, has been updated to reflect the Company's latest proposed Supplier Balancing Charge, Company Allowance Calculation and Peaking Service Demand Charge.

Fifth Revised Page 156 (Appendix C) lists the proposed Capacity Assignment Allocators.

Fifth Revised Page 158 (Appendix D) includes the proposed Re-entry Rate and Conversion Rate for November 2022 through April 2023, and for May through October 2023.

The proposed 2022 / 2023 Winter Season COG rate for Residential customers is \$1.1357 per therm and the proposed 2023 Summer Season COG rate for Residential customers is \$0.6927 per therm. The proposed LDAC Rate for Residential customers is \$0.1845 per therm.

The typical bill for a Residential heating customer for the 2022 / 2023 Winter Season is projected to be \$1,441.68. This is higher than the 2021 / 2022 Winter Season bill by \$260.42 or 22%.¹ The typical bill for a Residential heating customer for the 2023 Summer Season is projected to be \$356.34. This is higher than the 2022 Summer Season bill by \$8.87 or 2.55%.

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



Please note the following pages of this filing contain the following CONFIDENTIAL data: delivered city-gate costs and delivered cost per dekatherm (Attachment NUI-FXW-12, pages 1 and 2 of 2); peaking demand cost estimates (Attachment NUI-FXW-5, page 5 of 6); asset management agreement (“AMA”) revenue (Attachment NUI-FXW-5, page 6 of 6); natural gas commodity price forecast (Attachment NUI-FXW-10, page 1 of 3); the projected value of capacity assignment and AMA revenues (Attachment NUI-FXW-6, page 5 of 7); LNG inventory costs (Attachment NUI-CAK-7); total commodity cost and per unit commodity cost by supply source (Attachment NUI-FXW-8, pages 1 and 3 of 3); reconciliation costs and volumes (Attachment NUI-CAK-10, Form III, Schedule 4, pages 3 and 4 of 4); and detailed basis price information (Attachment NUI-FXW-9, pages 1 through 10 and 13 through 15 of 15). The Company submits that this material falls within the provisions of Puc 201.06(a)(26), and it is relying upon the procedures outlined in Puc 201.06 and 201.07 to protect confidentiality.

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", with a long horizontal flourish extending to the right.

Matthew J. Fossum
Senior Counsel

CC: Faisal Deen Arif, New Hampshire Department of Energy
Mary Schwarzer, New Hampshire Department of Energy
Donald Kreis, New Hampshire Office of the Consumer Advocate
Energy-litigation@energy.nh.gov
OCAlitigation@oca.nh.gov

Matthew J. Fossum
Senior Counsel
fossumm@unitil.com

6 Liberty Lane West
Hampton, NH 03842

T 603.773.6537
www.unitil.com

Northern Utilities, Inc.

New Hampshire Division

2022 / 2023 WINTER & SUMMER SEASON PROPOSED COST OF GAS ADJUSTMENT

WINTER RATES TO BE EFFECTIVE NOVEMBER 1, 2022

SUMMER RATES TO BE EFFECTIVE MAY 1, 2023

FILED SEPTEMBER 16, 2022

**Northern Utilities, Inc.
New Hampshire Division
2022 / 2023 Annual Cost of Gas Filing
Winter and Summer Periods**

Tariff Sheets

Fifth Revised Page No. 40
Calculation of proposed Cost of Gas Adjustment
Winter Season

Fifth Revised Page No. 41
Calculation of proposed Cost of Gas Adjustment
Summer Season

Twelfth Revised Page No. 42
Calculation of proposed Cost of Gas Adjustment
Winter Season

Fifteenth Revised Page No. 43
Calculation of proposed Cost of Gas Adjustment
Summer Season

Ninth Revised Page No. 62
LDAC Rates

Sixteenth & Seventeenth Revised Page No. 86
Rate Summary (Summer Season)
Residential Rate Classes

Fifteenth & Sixteenth Revised Page No. 88
Rate Summary (Summer Season)
Commercial / Industrial Rate Classes

Northern Utilities, Inc.
New Hampshire Division
2022 / 2023 Annual Cost of Gas Filing
Winter and Summer Periods

Sixth Revised Page No. 141
Appendix A
Supplier Balancing Charge &
Peaking Service Demand Charge

Fifth Revised Page No. 156
Appendix C
Capacity Allocators

Fifth Revised Page No. 158
Appendix D
Re-entry Rate & Conversion Rate

Northern Utilities, Inc.
New Hampshire Division

CHECK SHEET

The title page and pages 1-160 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

<u>Pages</u>	<u>Revision</u>	<u>Proposed</u>
Title	Original	
i	Original	
ii	Original	
iii	Original	
iv	Original	
v	Original	
vi	First Revised	
1	Original	
2	Original	
3	Original	
4	Original	
5	Second Revised	
6	Original	
7	Original	
8	Original	
9	Original	
10	Second Revised	
11	Original	
12	Original	
13	Original	
14	Original	
15	Original	
16	Original	
17	Original	
18	Original	
19	Original	
20	Original	
21	Original	
22	Second Revised	
23	Original	
24	Original	
25	Original	
26	Original	
27	Original	
28	Original	
29	Original	
30	Original	
31	Original	
32	Original	
33	Original	
34	Original	
35	Original	
36	Original	
37	Original	
38	Original	
39	Original	
40	Original	
38	Original	
39	Original	
40	Fourth Revised	Fifth Revised

Northern Utilities, Inc.
 New Hampshire Division

CHECK SHEET

The title page and pages 1-160 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

<u>Pages</u>	<u>Revision</u>	<u>Proposed</u>
41	Fourth Revised	Fifth Revised
42	Eleventh Revised	Twelfth Revised
43	Fourteenth Revised	Fifteenth Revised
44	Third revised	
45	Fourth Revised	
46	Second Revised	
46A	First Revised	
47	First Revised	
48	Original	
49	Original	
50	Original	
51	Original	
52	Original	
53	Second Revised	
54	Second Revised	
55	Second Revised	
56	Second Revised	
57	First Revised	
58	First Revised	
59	Third Revised	
60	Second Revised	
60A	First Revised	
60B	First Revised	
61	Third Revised	
61A	Original	
61B	First Revised	
62	Eighth Revised	Ninth Revised
63	Fifth Revised	
64	Original	
65	Second Revised	
66	Fourth Revised	
67	Original	
68	Fifth Revised	
69	Original	
70	Second Revised	
71	Original	
72	Second Revised	
73	Sixth Revised	
74	Original	
75	Sixth Revised	
76	Original	
77	Sixth Revised	
78	Original	
79	Sixth Revised	
80	Original	
81	Sixth Revised	
82	Original	
83	Sixth Revised	
84	Original	
85	Eleventh Revised	

Northern Utilities, Inc.
New Hampshire Division

CHECK SHEET

The title page and pages 1-160 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

<u>Pages</u>	<u>Revision</u>	<u>Proposed</u>
86	Fifteenth Revised	16th & 17th Revised
87	Tenth Revised	
88	Fourteenth Revised	15th & 16 th Revised
89	Original	
90	Original	
91	Original	
92	Original	
93	Original	
94	Original	
95	Original	
96	Original	
97	Original	
98	Original	
99	Second Revised	
100	Original	
100A	Original	
101	Original	
102	Original	
103	Original	
104	Original	
105	Original	
106	Original	
107	Original	
108	Original	
109	Original	
110	Original	
111	Original	
112	Original	
113	Original	
114	Original	
115	Original	
116	Original	
117	Original	
118	Original	
119	Original	
120	Original	
121	Original	
122	Original	
123	Original	
123	Original	
124	First Revised	
125	Original	
126	Original	
127	Original	
128	Original	
129	Original	
130	Original	
131	Original	
132	Original	
133	Original	

Northern Utilities, Inc.
New Hampshire Division

CHECK SHEET

The title page and pages 1-160 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

<u>Pages</u>	<u>Revision</u>	<u>Proposed</u>
134	Original	
135	Original	
136	Original	
137	Original	
138	Original	
139	Original	
140	Original	
141	Fifth Revised	Sixth Revised
142	Original	
143	Original	
144	Original	
145	Original	
146	Original	
147	Original	
148	Original	
149	Original	
150	Original	
151	Original	
153	Original	
154	Original	
155	Original	
156	Fourth Revised	Fifth Revised
157	Original	
158	Fourth Revised	Fifth Revised
159	Original	
160	Original	

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Fifth Revised Page 40
Superseding Fourth Revised Page 40

Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2022 - April 30, 2023

(Col 1)	(Col 2)	(Col 3)
<u>ANTICIPATED DIRECT COST OF GAS</u>		
Purchased Gas:		
Demand Costs:	\$6,358,704	
Supply Costs:	\$20,129,627	
Storage & Peaking Gas:		
Demand, Capacity:	\$12,558,149	
Commodity Costs:	\$11,531,102	
Interruptible Included Above	\$0	
Inventory Finance Charge	\$6,382	
Capacity Release, & Asset Management	(\$8,570,786)	
Re-entry Rate & Conversion Rate Revenues	\$ (5,000)	
Total Anticipated Direct Cost of Gas		<u>\$42,008,180</u>
<u>ANTICIPATED INDIRECT COST OF GAS</u>		
Adjustments:		
Prior Period Under/(Over) Collection	(\$2,519,772)	
Interest	(\$44,494)	
Refunds	\$0	
<u>Interruptible Margins</u>	<u>\$0</u>	
Total Adjustments		(\$2,564,267)
Working Capital:		
Total Anticipated Direct Cost of Gas	\$42,008,180	
Working Capital Percentage	<u>0.1398%</u>	
Working Capital Allowance	\$ 58,708	
Plus: Working Capital Reconciliation (Acct 173)	<u>\$7,583</u>	
Total Working Capital Allowance		\$66,291
Bad Debt:		
Bad Debt Allowance	\$121,564	
Plus: Bad Debt Reconciliation (Acct 173)	(\$10,581)	
Total Bad Debt Allowance		\$110,983
Local Production and Storage Capacity		\$214,538
Miscellaneous Overhead-80.46% Allocated to Winter Season		<u>\$492,287</u>
Total Anticipated Indirect Cost of Gas		(\$1,680,168)
Total Cost of Gas		<u>\$40,328,012</u>

Issued: September 16, 2022

Issued By: Robert B. Hevert
Senior Vice President

Effective Date: November 1, 2022

Authorized by NHPUC Order No. _____, in Docket No. DG 22-____, dated _____, 2022

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Fifth Revised Page No. 41
Superseding Fourth Revised Page No. 41

Anticipated Cost of Gas
New Hampshire Division
Period Covered: May 1, 2022 - October 31, 2023

(Col 1)	(Col 2)	(Col 3)
<u>ANTICIPATED DIRECT COST OF GAS</u>		
Purchased Gas:		
Demand Costs:	\$ 1,055,340	
Supply Costs:	\$ 4,140,569	
Storage & Peaking Gas:		
Demand, Capacity:	\$ 397,527	
Commodity Costs:	\$ 162,908	
Interruptible Included Above	\$0	
Inventory Finance Charge	\$0	
Capacity Release & Asset Management	\$0	
Re-entry Rate and Conversion Rate Revenues	\$0	
Total Anticipated Direct Cost of Gas		<u>\$5,756,343</u>
<u>ANTICIPATED INDIRECT COST OF GAS</u>		
Adjustments:		
Prior Period Under/(Over) Collection	\$100,234	
Interest	(\$27,269)	
Refunds	\$0	
<u>Interruptible Margins</u>	<u>\$0</u>	
Total Adjustments		\$72,965
Working Capital:		
Total Anticipated Direct Cost of Gas	\$5,756,344	
Working Capital Percentage	<u>0.1398%</u>	
Working Capital Allowance	\$8,045	
Plus: Working Capital Reconciliation (Acct 173)	<u>\$1,842</u>	
Total Working Capital Allowance		\$9,887
Bad Debt:		
Bad Debt Allowance	\$17,079	
Plus: Bad Debt Reconciliation (Acct 173)	(\$557)	
Total Bad Debt Allowance		\$16,522
Local Production and Storage Capacity		\$0
Miscellaneous Overhead-19.54% Allocated to Summer Season		\$119,588
Total Anticipated Indirect Cost of Gas		\$218,962
Total Cost of Gas		<u>\$5,975,306</u>

Issued: September 16, 2022

Issued By: Robert B. Hevert

Effective Date: May 1, 2023

Senior Vice President

Authorized by NHPUC Order No. _____, in Docket No. DG 22-____, dated _____, 2022

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Twelfth Revised Page 42
Superseding Elventh Revised Page 42

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2021 - April 30, 2022

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$42,008,180	
Projected Prorated Sales (11/01/22 - 04/30/23)	35,507,405	
Direct Cost of Gas Rate		\$1.1831 per therm
Demand Cost of Gas Rate	\$10,341,068	\$0.2912 per therm
Commodity Cost of Gas Rate	\$31,667,112	\$0.8918 per therm
Total Direct Cost of Gas Rate	\$42,008,180	\$1.1830 per therm
Total Anticipated Indirect Cost of Gas	(\$1,680,168)	
Projected Prorated Sales (11/01/22 - 04/30/23)	35,507,405	
Indirect Cost of Gas		(\$0.0473) per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$1.1357 per therm

RESIDENTIAL COST OF GAS RATE -11/01/22	COGwr	\$1.1357 per therm
	Maximum (COG+25%)	\$1.4196

COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/22	COGwl	\$1.0604 per therm
	Maximum (COG+25%)	\$1.3255

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$569,531
PLUS: RESIDENTIAL DEMAND REALLOCATION TO C&I HLF	\$8,570
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$578,101
C&I HLF PROJECTED PRORATED SALES (11/01/22 - 04/30/23)	2,898,272
DEMAND COST OF GAS RATE	\$0.1995
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$2,634,583
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	(\$2,272)
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$2,632,312
C&I HLF PROJECTED PRORATED SALES (11/01/22 - 04/30/23)	2,898,272
COMMODITY COST OF GAS RATE	\$0.9082
INDIRECT COST OF GAS	(\$0.0473)
TOTAL C&I HLF COST OF GAS RATE	\$1.0604

COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/22	COGwh	\$1.1496 per therm
	Maximum (COG+25%)	\$1.4370

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$4,796,055
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	\$72,168
C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$4,868,223
C&I LLF PROJECTED PRORATED SALES (11/01/22 - 04/30/23)	15,802,392
DEMAND COST OF GAS RATE	\$0.3081
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$14,057,910
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	(\$12,123)
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	\$14,045,788
C&I LLF PROJECTED PRORATED SALES (11/01/22 - 04/30/23)	15,802,392
COMMODITY COST OF GAS RATE	\$0.8888
INDIRECT COST OF GAS	(\$0.0473)
TOTAL C&I LLF COST OF GAS RATE	\$1.1496

Issued: September 16, 2022
Effective Date: November 1, 2022
Authorized by NHPUC Order No. _____, in Docket No. DG 22- ____, dated _____.

Issued By: Robert B. Hevert
Senior Vice President

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Fifteenth Revised Page No. 43
Superseding Fourteenth Revised Page No. 43

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2023 - October 31, 2023

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$5,756,344	
Projected Prorated Sales (05/01/23 - 10/31/23)	8,625,565	
Direct Cost of Gas Rate		\$0.6674 per therm
Demand Cost of Gas Rate	\$1,452,867	\$0.1684 per therm
Commodity Cost of Gas Rate	<u>\$4,303,477</u>	<u>\$0.4989 per therm</u>
Total Direct Cost of Gas Rate	\$5,756,344	\$0.6673 per therm
Total Anticipated Indirect Cost of Gas	\$218,962	
Projected Prorated Sales (05/01/23 - 10/31/23)	8,625,565	
Indirect Cost of Gas		\$0.0254 per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.6927 per therm

RESIDENTIAL COST OF GAS RATE -05/01/23	COGwr	\$0.6927 per therm
Maximum Preapproved Adjustment (COG+25%)*		\$0.8659

COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/23	COGwl	\$0.6342 per therm
Maximum Preapproved Adjustment (COG+25%)*		\$0.7928

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$230,600
PLUS: RESIDENTIAL DEMAND REALLOCATION TO C&I HLF	\$11,833
C&I HLF TOTAL ADJUSTED DEMAND COSTS	<u>\$242,434</u>
C&I HLF PROJECTED PRORATED SALES (05/01/23 - 10/31/23)	2,206,001
DEMAND COST OF GAS RATE	\$0.1099

C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,100,620
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	\$34
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$1,100,655</u>
C&I HLF PROJECTED PRORATED SALES (05/01/23 - 10/31/23)	2,206,001
COMMODITY COST OF GAS RATE	\$0.4989

INDIRECT COST OF GAS	\$0.0254
TOTAL C&I HLF COST OF GAS RATE	\$0.6342

COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/23	COGwh	\$0.7394 per therm
Maximum Preapproved Adjustment (COG+25%)*		\$0.9243

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$566,892
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	\$29,091
C&I LLF TOTAL ADJUSTED DEMAND COSTS	<u>\$595,983</u>
C&I LLF PROJECTED PRORATED SALES (05/01/23 - 10/31/23)	2,770,809
DEMAND COST OF GAS RATE	\$0.2151

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,382,415
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	\$43
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$1,382,458</u>
C&I LLF PROJECTED PRORATED SALES (05/01/23 - 10/31/23)	2,770,809
COMMODITY COST OF GAS RATE	\$0.4989

INDIRECT COST OF GAS	\$0.0254
TOTAL C&I LLF COST OF GAS RATE	\$0.7394

Issued: September 16, 2022
Effective Date: May 1, 2023
Authorized by NHPUC Order No. _____, in Docket No. DG 22-____, dated _____.

Issued By: Robert B. Hevert
Senior Vice President

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	\$0.0043	\$0.1206	\$0.0000	\$0.0002	\$0.1845
Residential Non-Heating	\$0.0037	\$0.0499	\$0.0000	\$0.0058	\$0.0000	\$0.0043	\$0.1206	\$0.0000	\$0.0002	\$0.1845
Small C&I	\$0.0037	\$0.0247	\$0.0000	\$0.0058	\$0.0000	\$0.0043	\$0.0101	\$0.0000	\$0.0002	\$0.0488
Medium C&I	\$0.0037	\$0.0247	\$0.0000	\$0.0058	\$0.0000	\$0.0043	\$0.0101	\$0.0000	\$0.0002	\$0.0488
Large C&I	\$0.0037	\$0.0247	\$0.0000	\$0.0058	\$0.0000	\$0.0043	\$0.0101	\$0.0000	\$0.0002	\$0.0488
No Previous Sales Service										

Issued: September 16, 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

**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	\$1.1111	\$2.2468
	LDAC	\$0.1845		
	<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	\$1.1111	\$2.2468
	LDAC	\$0.1845		
	<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	\$1.5898	\$2.7255
	LDAC	\$0.1845		
	<u>Gas Cost Adjustment:</u>			
	Cost of Gas	\$1.1357		

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

Issued: September 16, 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.

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 \$0.1845 \$0.6927	\$22.20 \$1.1111	\$22.20 \$1.8038
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 \$0.1845 \$0.6927	\$22.20 \$1.1111	\$22.20 \$1.8038
Discount*	Monthly Customer Charge	\$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 \$0.1845 \$0.6927	\$22.20 \$1.5898	\$22.20 \$2.2825

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

Issued: September 16, 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.

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	<u>Tariff Rate G 40:</u> Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2556 \$0.0488 \$1.1496	\$80.00 \$0.3044	\$80.00 \$1.4540
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 \$0.0488 \$1.0604	\$80.00 \$0.2847	\$80.00 \$1.3451
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 \$0.0488 \$1.1496	\$225.00 \$0.3371	\$225.00 \$1.4867
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 \$0.0488 \$1.0604	\$225.00 \$0.2258	\$225.00 \$1.2862
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 \$0.0488 \$1.1496	\$1,350.00 \$0.2673	\$1,350.00 \$1.4169
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 \$0.1796 \$0.0488 \$1.0604	\$1,350.00 \$0.2284	\$1,350.00 \$1.2888

Issued: September 16, 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

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	Tariff Rate G 40: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$80.00 \$0.2556 \$0.0488 \$0.7394	\$80.00 \$0.3044	\$80.00 \$1.0438
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 \$0.0488 \$0.6342	\$80.00 \$0.2847	\$80.00 \$0.9189
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 \$0.0488 \$0.7394	\$225.00 \$0.3371	\$225.00 \$1.0765
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 \$0.0488 \$0.6342	\$225.00 \$0.2258	\$225.00 \$0.8600
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 \$0.0488 \$0.7394	\$1,350.00 \$0.2673	\$1,350.00 \$1.0067
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 \$0.0488 \$0.6342	\$1,350.00 \$0.1584	\$1,350.00 \$0.7926

Issued: September 16, 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

VII. DELIVERY SERVICE TERMS AND CONDITION

APPENDIX A

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: \$1.00 per MMBtu of Daily Imbalance Volumes

- Updated effective every November 1 to reflect the Company’s latest balancing resources and associated capacity costs.
- Daily Imbalance Volumes represent the difference between ATV and ATV adjusted for actual EDDs.

II. Peaking Service Demand Charge: \$ 72.72 per MMBtu per MDPQ per month for November 2022 through April 2023. Provided on Page 6 of Attachment NUI-FXW-6.

- Updated effective every November 1 to reflect the Company’s Peaking resources and associated costs.

III. Company Allowance Calculation: 0.97% - Provided in Attachment NUI-FXW-3

IV. Supplier Services and Associated Fees:

<u>SERVICE</u>	<u>PRICING</u>
Pool Administration (required) Non-Daily Metered Pools only	• \$0.10/month/customer billed @ marketer level
Standard Passthrough Billing (required)	• \$0.60/customer/month billed @ marketer level
Standard Complete Billing (optional – Passthrough Billing fee not required if this service is elected)	• \$1.50/customer/month billed @ marketer level
Customer Administration (required)	• \$10/customer/switch billed @ marketer level

V. Meter Read Charge: \$78.00 when customer phone line is not reporting daily data

VI. Meter Read via Cellular Service: \$20.00 per month

Issued: September 16, 2022

Issued by: Robert B. Hevert

Effective: November 1, 2022

Senior Vice President

Authorized by NHPUC Order No. _____ in Docket No. DG 22 - ___, dated _____.

NHPUC No. 12 – Gas
Northern Utilities, Inc.

Fifth Revised Page 156
Superseding Fourth Revised Page 156

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX C

Capacity Allocators

Capacity Allocators shall be calculated and filed with the Commission each year with the Winter Cost of Gas filing. The following Capacity Allocators shall be applicable for capacity assignments during the period of November 1, 2022 through October 31, 2023.

Commercial and Industrial

	<u>High Winter Use</u>	<u>Low Winter Use</u>
Pipeline:	29.51%	65.64%
Storage:	32.47%	15.82%
Peaking:	38.02%	18.54%

Issued: September 16, 2022

Issued by: Robert B. Hevert
Senior Vice President

Effective: November 1, 2022

Authorized by NHPUC Order No. _____ in Docket No. DG 22-__ __, dated _____.

VII. DELIVERY SERVICE TERMS AND CONDITIONS (continued)

Appendix D

**Re-entry Surcharge and Conversion Surcharge
 (continued)**

D. Information to be Filed with the Commission:

As part of the annual Cost of Gas filing, the Company shall file with the Commission a report showing the number of customers assessed the Re-entry Surcharge and the Conversion Surcharge and the amount of revenue received for each charge through the prior April 30. Pursuant to the Company’s Cost of Gas Clause, the Company will apply such revenues as credits to the Company’s New Hampshire Division Cost of Gas.

The following Re-entry Surcharge and Conversion Surcharge shall be applicable for the periods of November 1, 2022 through April 30, 2023 and May 1, 2023 through October 2023.

Effective Dates:	November 1, 2022 – April 30, 2022	May 1, 2023 – October 30, 2023
Re-entry Surcharge:	\$0.0709 per therm	\$0.0000 per therm
Conversion Surcharge, Low Load Factor (G-40, G-41, G-42):	\$1.5529 per therm	\$0.0000 per therm
Conversion Surcharge, High Load Factor (G-50, G-51, G-52):	\$1.6421 per therm	\$0.0000 per therm

Issued: September 16, 2022
 Effective: November 1, 2022

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

Authorized by NHPUC Order No. _____ in Docket No. DG 22- , dated .

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2021~~22~~ - October 31, 2022~~23~~

(Col 1)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS		
Purchased Gas:		
Demand Costs:	\$ 4,553,044	\$ 6,358,704
Supply Costs:	\$ 11,472,168	\$ 20,129,627
Storage & Peaking Gas:		
Demand, Capacity:	\$ 12,327,011	\$ 12,558,149
Commodity Costs:	\$ 7,733,349	\$ 11,531,102
Interruptible Included Above	\$ —	\$ —
Inventory Finance Charge	\$ 1,378	\$ 6,382
Capacity Release	\$ (4,076,771)	\$ (8,570,786)
Re-entry Rate & Conversion Rate Revenues	\$ (5,000)	\$ (5,000)
Total Anticipated Direct Cost of Gas	\$ 32,005,179	\$ 42,008,180
ANTICIPATED INDIRECT COST OF GAS		
Adjustments:		
Prior Period Under/(Over) Collection	\$ 189,294	\$ (2,519,772)
Interest	\$ (42,086)	\$ (44,494)
Refunds	\$ —	\$ —
<u>Interruptible Margins</u>	\$ —	\$ —
Total Adjustments	\$ 147,208	\$ (2,564,267)
Working Capital:		
Total Anticipated Direct Cost of Gas	\$ 32,005,179	\$ 42,008,180
Working Capital Percentage	0.0892%	0.1398%
Working Capital Allowance	\$ 28,555	\$ 58,708
Plus: Working Capital Reconciliation (Acct 173)	\$ (5,834)	\$ 7,583
Total Working Capital Allowance	\$ 22,721	\$ 66,291
Bad Debt:		
Bad Debt Allowance	\$ 137,320	\$ 121,564
Plus: Bad Debt Reconciliation (Acct 173)	\$ (61,950)	\$ (10,581)
Total Bad Debt Allowance	\$ 75,370	\$ 110,983
Local Production and Storage Capacity	\$ 476,106	\$ 214,538
Miscellaneous Overhead -79.8780.46% Allocated to Winter Season	\$ 463,606	\$ 492,287
Total Anticipated Indirect Cost of Gas	\$ 1,185,012	\$ (1,680,168)
Total Cost of Gas	\$ 33,190,191	\$ 40,328,012

Issued: ~~November 4, 2021~~ September 16, 2022
Effective Date: November 1, 2021~~22~~

Issued By: Robert B. Hevert
Senior Vice President

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Fourth Revised Page 41
Superseding Third Revised Page 41

Anticipated Cost of Gas
New Hampshire Division
Period Covered: May 1, 2022 - October 31, 2022

(Col 1)	(Col 2)	(Col 2)	(Col 3)	(Col 3)
ANTICIPATED DIRECT COST OF GAS				
Purchased Gas:				
Demand Costs:	\$956,729	\$1,055,340		
Supply Costs:	\$3,110,213	\$4,140,569		
Storage & Peaking Gas:				
Demand, Capacity:	\$397,395	\$397,527		
Commodity Costs:	\$21,467	\$162,908		
Interruptible Included Above	\$0	\$0		
Inventory Finance Charge	\$0	\$0		
Capacity Release & Asset Management	\$0	\$0		
Re-entry Rate & Conversion Rate Revenues	\$0	\$0		
Total Anticipated Direct Cost of Gas			\$4,485,805	\$5,756,343
ANTICIPATED INDIRECT COST OF GAS				
Adjustments:				
Prior Period Under/(Over) Collection Interest	\$47,710	\$100,234		
Refunds	(\$41,380)	(\$27,269)		
Interruptible Margins	\$0	\$0		
Total Adjustments	\$0	\$0	\$6,330	\$72,965
Working Capital:				
Total Anticipated Direct Cost of Gas	\$4,485,805	\$5,756,344		
Working Capital Percentage	0.0892%	0.1398%		
Working Capital Allowance	\$4,002	\$8,045		
Plus: Working Capital Reconciliation (Acct 173)	(\$1,470)	\$1,842		
Total Working Capital Allowance			\$2,532	\$9,887
Bad Debt:				
Bad Debt Allowance	\$14,529	\$17,079		
Plus: Bad Debt Reconciliation (Acct 173)	(\$15,614)	(\$557)		
Total Bad Debt Allowance			(\$1,084)	\$16,523
Local Production and Storage Capacity			\$0	\$0
Miscellaneous Overhead-20.13% Allocated to the Summer Season			\$116,849	\$119,588
Total Anticipated Indirect Cost of Gas			\$124,627	\$218,962
Total Cost of Gas			\$4,610,433	\$5,975,306

Issued: ~~November 4, 2021~~ September 16, 2022

Effective Date: May 1, ~~2022~~ 2023

Authorized by NHPUC Order No. _____, in Docket No. DG 22-____, dated _____, 2022

Robert B. Hevert
Senior Vice President

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

~~Eleventh~~ Twelfth Revised Page 42
Superseding ~~Tenth~~ Eleventh Revised Page 42

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2022 - April 30, 2023

(Col 1)	(Col 2)	(Col 3)		
Total Anticipated Direct Cost of Gas	\$32,005,179	\$42,008,180		
Projected Prorated Sales (11/01/22 - 04/30/22)	35,339,329	35,507,405		
Direct Cost of Gas Rate			\$0.9057	\$1.1831 per therm
Demand Cost of Gas Rate	\$12,798,284	\$10,341,068	\$0.3622	\$0.2912 per therm
Commodity Cost of Gas Rate	\$19,206,895	\$31,667,112	\$0.5435	\$0.8918 per therm
Total Direct Cost of Gas Rate	\$32,005,179	\$42,008,180	\$0.9057	\$1.1830 per therm
Total Anticipated Indirect Cost of Gas	\$1,185,012	(\$1,680,168)		
Projected Prorated Sales (11/01/22 - 04/30/22)	35,339,329	35,507,405		
Indirect Cost of Gas			\$0.0336	(\$0.0473) per therm
TOTAL PERIOD AVERAGE COST OF GAS			\$0.9392	\$1.1357 per therm
Period ending under-collection to be recovered as determined on 12/24/2021			(\$996,768)	
Projected Sales (01/01/22 - 04/30/2022)			23,905,790	
Per-unit change in Cost of Gas (01/01/21 - 04/30/22)			(\$0.0417)	
Period ending under-collection to be recovered as determined on 1/24/2022			\$779,744	
Projected Sales (02/01/22 - 04/30/2022)			16,025,403	
Per-unit change in Cost of Gas (02/01/21 - 04/30/22)			\$0.0487	
Period ending under-collection to be recovered as determined on 2/22/2022			\$1,003,825	
Projected Sales (03/01/22 - 04/30/2022)			9,250,804	
Per-unit change in Cost of Gas (03/01/21 - 04/30/22)			\$0.1085	

RESIDENTIAL COST OF GAS RATE - 03/01/22-11/01/2022	COGwr	\$4.0547	\$1.1357	per therm
	Maximum (COG+25%)	\$4.1740	\$1.4196	
RESIDENTIAL COST OF GAS RATES - 11/01/2021		\$0.9392		
CHANGE IN PER UNIT COST		(\$0.0417)		
RESIDENTIAL COST OF GAS RATES - 01/01/2022		\$0.8975		
CHANGE IN PER UNIT COST		\$0.0487		
RESIDENTIAL COST OF GAS RATES - 02/01/2022		\$0.9462		
CHANGE IN PER UNIT COST		\$0.1085		
RESIDENTIAL COST OF GAS RATES - 03/01/2022		\$1.0547		

COM/IND LOW WINTER USE COST OF GAS RATE - 03/01/22-11/01/2022	COGwl	\$0.9608	\$1.0604	per therm
	Maximum (COG+25%)	\$1.0566	\$1.3255	
COM/IND LOW WINTER USE COST OF GAS RATES - 11/01/2021		\$0.8453		
CHANGE IN PER UNIT COST		(\$0.0417)		
COM/IND LOW WINTER USE COST OF GAS RATES - 01/01/2022		\$0.8036		
CHANGE IN PER UNIT COST		\$0.0487		
COM/IND LOW WINTER USE COST OF GAS RATES - 02/01/2022		\$0.8523		
CHANGE IN PER UNIT COST		\$0.1085		
COM/IND LOW WINTER USE COST OF GAS RATES - 03/01/2022		\$0.9608		
C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$569,531			
PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF	\$8,570			
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$578,101			
C&I HLF PROJECTED PRORATED SALES (11/01/21 - 04/30/22)	2,898,272			
DEMAND COST OF GAS RATE	\$0.1995			
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$2,634,583			
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	(\$2,272)			
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$2,632,312			
C&I HLF PROJECTED PRORATED SALES (11/01/21 - 04/30/22)	2,898,272			
COMMODITY COST OF GAS RATE	\$0.9082			
INDIRECT COST OF GAS	(\$0.0473)			
TOTAL C&I HLF COST OF GAS RATE	\$1.0604			

COM/IND HIGH WINTER USE COST OF GAS RATE - 03/01/22-11/01/2022	COGwh	\$1.0706	\$1.1496	per therm
	Maximum (COG+25%)	\$1.4939	\$1.4370	
COM/IND HIGH WINTER USE COST OF GAS RATES - 11/01/2021		\$0.9554		
CHANGE IN PER UNIT COST		(\$0.0417)		
COM/IND HIGH WINTER USE COST OF GAS RATES - 01/01/2022		\$0.9134		
CHANGE IN PER UNIT COST		\$0.0487		
COM/IND HIGH WINTER USE COST OF GAS RATES - 02/01/2022		\$0.9624		
CHANGE IN PER UNIT COST		\$0.1085		
COM/IND HIGH WINTER USE COST OF GAS RATES - 03/01/2022		\$1.0706		
C&I LLF DEMAND COSTS ALLOCATED PER SMBA	\$4,796,055			
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	\$72,168			
C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$4,868,223			
C&I LLF PROJECTED PRORATED SALES (11/01/21 - 04/30/22)	\$15,802,392			
DEMAND COST OF GAS RATE	\$0.3081			
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$14,057,910			
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	(\$12,123)			
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	\$14,045,788			
C&I LLF PROJECTED PRORATED SALES (11/01/21 - 04/30/22)	15,802,392			
COMMODITY COST OF GAS RATE	\$0.8888			
INDIRECT COST OF GAS	(\$0.0473)			
TOTAL C&I LLF COST OF GAS RATE	\$1.1496			

Issued: February 22, 2022
Effective Date: March 1, 2022
Authorized by NHPUC Order No. 26,539, in Docket No. DG 21-134, dated October 29, 2024.

Issued By: Robert B. Hevert
Senior Vice President

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Fourteenth Revised Page No. 43
Superseding Thirteenth Page No. 43

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2023 - October 31, 2023

(Col 1)	(Col 2)		(Col 3)	
Total Anticipated Direct Cost of Gas	\$4,486,806	\$5,756,344		
Projected Prorated Sales (05/01/2023- 10/31/2023)	<u>8,907,030</u>	<u>8,625,565</u>		
Direct Cost of Gas Rate			\$0.5036	\$0.6674 per therm
Demand Cost of Gas Rate	\$1,364,125	\$1,452,867	\$0.1520	\$0.1684 per therm
Commodity Cost of Gas Rate	\$3,134,680	\$4,303,477	\$0.3516	\$0.4989 per therm
Total Direct Cost of Gas Rate	\$4,486,806	\$5,756,344	\$0.5036	\$0.6673 per therm
Total Anticipated Indirect Cost of Gas	\$124,627	\$218,962		
Projected Prorated Sales (05/01/2023- 10/31/2023)	<u>8,907,030</u>	<u>8,625,565</u>		
Indirect Cost of Gas			\$0.0140	\$0.0254 per therm
TOTAL PERIOD AVERAGE COST OF GAS			\$0.5176	\$0.6927 per therm
Period ending under-collection to be recovered - per April Report	\$1,056,500			
Projected sales (05/01/22 - 10/31/22)	<u>8,907,030</u>			
Per-unit change in Cost of Gas (05/01/22 - 10/31/22)				
Period ending under-collection to be recovered - per May Report	\$1,935,343			
Projected sales (06/01/22 - 10/31/22)	<u>\$6,999,418,0074</u>			
Per-unit change in Cost of Gas (06/01/22 - 10/31/22)				
Period ending under-collection to be recovered - per August Report	\$743,260			
Projected sales (09/01/22 - 10/31/22)	<u>\$3,577,552</u>			
Per-unit change in Cost of Gas (09/01/22 - 10/31/22)				

RESIDENTIAL COST OF GAS RATE	09/05/01/2223	COGwr	\$1.1204	\$0.6927	per therm
Maximum Preapproved Adjustment (COG+25%)*			\$0.6479	\$0.8659	
INITIAL RESIDENTIAL COST OF GAS RATE - 05/01/22			\$0.6176		
CHANGE IN PER UNIT COST			\$0.1185		
REVISED RESIDENTIAL COST OF GAS RATE - 05/01/22			\$0.6361		
CHANGE IN PER UNIT COST			\$0.2765		
RESIDENTIAL COST OF GAS RATE - 06/01/22			\$0.9126		
CHANGE IN PER UNIT COST			\$0.2078		
RESIDENTIAL COST OF GAS RATE - 09/01/22			\$1.1204		

COM/IND LOW WINTER USE COST OF GAS RATE	09/05/01/2223	COGwl	\$1.0768	\$0.6342	per therm
Maximum Preapproved Adjustment (COG+25%)*			\$0.6926	\$0.7928	
INITIAL COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/22			\$0.4740		
CHANGE IN PER UNIT COST			\$0.1185		
REVISED COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/22			\$0.5925		
CHANGE IN PER UNIT COST			\$0.2765		
COM/IND LOW WINTER USE COST OF GAS RATE - 06/01/22			\$0.8699		
CHANGE IN PER UNIT COST			\$0.2078		
COM/IND LOW WINTER USE COST OF GAS RATE - 09/01/22			\$1.0768		

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$230,600
PLUS: RESIDENTIAL DEMAND REALLOCATION TO C&I HLF	\$11,833
C&I HLF TOTAL ADJUSTED DEMAND COSTS	<u>\$242,434</u>
C&I HLF PROJECTED PRORATED SALES (05/01/23 - 10/31/23)	<u>2,206,001</u>
DEMAND COST OF GAS RATE	\$0.1099
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,100,620
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF	\$34
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$1,100,655</u>
C&I HLF PROJECTED PRORATED SALES (05/01/23 - 10/31/23)	<u>2,206,001</u>
COMMODITY COST OF GAS RATE	\$0.4989
INDIRECT COST OF GAS	\$0.0254
TOTAL C&I HLF COST OF GAS RATE	\$0.6342

COM/IND HIGH WINTER USE COST OF GAS RATE	09/05/01/2223	COGwh	\$1.1473	\$0.7394	per therm
Maximum Preapproved Adjustment (COG+25%)*			\$0.6896	\$0.9243	
INITIAL COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/22			\$0.5445		
CHANGE IN PER UNIT COST			\$0.1185		
REVISED COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/22			\$0.6630		
CHANGE IN PER UNIT COST			\$0.2765		
COM/IND LOW WINTER USE COST OF GAS RATE - 06/01/22			\$0.9395		
CHANGE IN PER UNIT COST			\$0.2078		
COM/IND LOW WINTER USE COST OF GAS RATE - 09/01/22			\$1.1473		

C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$566,892
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF	\$29,091
C&I LLF TOTAL ADJUSTED DEMAND COSTS	<u>\$595,983</u>
C&I LLF PROJECTED PRORATED SALES (05/01/22 - 10/31/22)	<u>2,770,809</u>
DEMAND COST OF GAS RATE	\$0.2151
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$1,382,415
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	\$43
C&I LLF TOTAL ADJUSTED COMMODITY COSTS	<u>\$1,382,458</u>
C&I LLF PROJECTED PRORATED SALES (05/01/22 - 10/31/22)	<u>2,770,809</u>
COMMODITY COST OF GAS RATE	\$0.4989
INDIRECT COST OF GAS	\$0.0254
TOTAL C&I LLF COST OF GAS RATE	\$0.7394

*Rate increases in June and September were implemented through amended COG filings and not preapproved
Issued: August 29, September 16, 2022
Effective Date: September 1, 2022 May 1, 2023
Authorized by NHPUC Order No. 26-539, in Docket No. DG 24-131, dated October 29, 2024.
& Order No. 626 in Docket No. DG 24-131, dated June 12, 2022.

Robert B. Hevert
Senior Vice President

Local Delivery Adjustment Clause

Rate Schedule	GAP	GAP	EEC	LRR	LRR	ERC	ERC	ITMC	RCE	RCE	RPC	RPC	PTAM	PTAM	RAAM	RAAM	LDAC	LDAC
Residential Heating	\$0.0033	\$0.0037	\$0.0499	\$0.0066	\$0.0000	\$0.0056	\$0.0058	\$0.0000	\$0.0000	\$0.0043	\$0.0000	\$0.1206	\$0.0435	\$0.0000	\$0.0027	\$0.0002	\$0.0846	\$0.1845
Residential Non-Heating	\$0.0033	\$0.0037	\$0.0499	\$0.0066	\$0.0000	\$0.0056	\$0.0058	\$0.0000	\$0.0000	\$0.0043	\$0.0000	\$0.1206	\$0.0435	\$0.0000	\$0.0027	\$0.0002	\$0.0846	\$0.1845
Small C&I	\$0.0033	\$0.0037	\$0.0247	\$0.0006	\$0.0000	\$0.0056	\$0.0058	\$0.0000	\$0.0000	\$0.0043	\$0.0000	\$0.0101	\$0.0435	\$0.0000	\$0.0027	\$0.0002	\$0.0504	\$0.0488
Medium C&I	\$0.0033	\$0.0037	\$0.0247	\$0.0006	\$0.0000	\$0.0056	\$0.0058	\$0.0000	\$0.0000	\$0.0043	\$0.0000	\$0.0101	\$0.0435	\$0.0000	\$0.0027	\$0.0002	\$0.0504	\$0.0488
Large C&I	\$0.0033	\$0.0037	\$0.0247	\$0.0006	\$0.0000	\$0.0056	\$0.0058	\$0.0000	\$0.0000	\$0.0043	\$0.0000	\$0.0101	\$0.0435	\$0.0000	\$0.0027	\$0.0002	\$0.0504	\$0.0488
No Previous Sales Service																		

Issued: ~~September 16, 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:
Title:

Robert B. Hevert
Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE RESIDENTIAL RATES

	Summer Winter Season May 2023 - October 2022 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 \$0.0816 <u>\$0.1845</u> \$1.1204 <u>\$1.1357</u>	\$22.20 \$1.0082 <u>\$1.1111</u>	\$22.20 \$2.1286 <u>\$2.2468</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>\$0.1845</u> \$1.1204 <u>\$1.1357</u> \$0.0000 (\$9.9900) \$0.0000 (\$0.4170) \$0.0000 (\$0.5042) (\$0.5111)	\$22.20 \$1.0082 <u>\$1.1111</u> (\$9.99) \$0.0000 (\$0.4170)	\$22.20 \$2.1286 <u>\$2.2468</u> (\$9.99) \$0.0000 (\$0.9280)
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>\$0.1845</u> \$1.1204 <u>\$1.1357</u>	\$22.20 \$1.4869 <u>\$1.5898</u>	\$22.20 \$2.6073 <u>\$2.7255</u>

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

Issued: September 8~~16~~, 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

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

	<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
Residential Heating	Tariff Rate R 5: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.9266 \$0.1845 \$1.1357 <u>\$0.6927</u>	\$22.20 \$1.1111	\$22.20 \$2.2468 <u>\$1.8038</u>
Residential Heating Low income	Tariff Rate R 10: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.9266 \$0.1845 \$1.1357 <u>\$0.6927</u>	\$22.20 \$1.1111	\$22.20 \$2.2468 <u>\$1.8038</u>
Discount	Monthly Customer Charge	(\$0.99) <u>\$0.0000</u>	(\$0.99) <u>\$0.0000</u>	(\$0.99) <u>\$0.0000</u>
Discount	All usage	(\$0.4170) <u>\$0.0000</u>	(\$0.4170) <u>\$0.0000</u>	(\$0.9280) <u>\$0.0000</u>
Discount	LDAC	\$0.0000	\$0.0000	
Discount	Gas Cost Adjustment:			
Discount	Cost of Gas	(\$0.5111) <u>\$0.0000</u>		
Residential Non-Heating	Tariff Rate R 6: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$1.4053 \$0.1845 \$1.1357 <u>\$0.6927</u>	\$22.20 \$1.5898	\$22.20 \$2.7265 <u>\$2.2825</u>

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

Issued: September 8 16, 2022

Effective: With Service Rendered On and After ~~September 4, 2022~~ May 1, 2023

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 - NEW HAMPSHIRE DIVISION
CURRENTLY EFFECTIVE C & I RATES

	<u>Summer</u> <u>Winter Season</u> <u>May 2022 - 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
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>\$0.0488</u> \$1.1473 <u>\$1.1496</u>	\$80.00 \$0.3060 <u>\$0.3044</u>	\$80.00 \$1.4533 <u>\$1.4540</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>\$0.0488</u> \$1.0768 <u>\$1.0604</u>	\$80.00 \$0.2863 <u>\$0.2847</u>	\$80.00 \$1.3634 <u>\$1.3451</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>\$0.0488</u> \$1.1473 <u>\$1.1496</u>	\$225.00 \$0.3387 <u>\$0.3371</u>	\$225.00 \$1.4860 <u>\$1.4867</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>\$0.0488</u> \$1.0768 <u>\$1.0604</u>	\$225.00 \$0.2274 <u>\$0.2258</u>	\$225.00 \$1.3042 <u>\$1.2862</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>\$0.0488</u> \$1.1473 <u>\$1.1496</u>	\$1,350.00 \$0.2689 <u>\$0.2673</u>	\$1,350.00 \$1.4162 <u>\$1.4169</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>\$0.0488</u> \$1.0768 <u>\$1.0604</u>	\$1,350.00 \$0.1600 <u>\$0.2284</u>	\$1,350.00 \$1.2368 <u>\$1.2888</u>

Issued: September 8¹⁶, 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

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> <u>Season</u> <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 \$0.0488 \$1.1496 <u>\$0.7394</u>	\$80.00 \$0.3044	\$80.00 \$1.4540 <u>\$1.0438</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 \$0.0488 \$1.0604 <u>\$0.6342</u>	\$80.00 \$0.2847	\$80.00 \$1.3451 <u>\$0.9189</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 \$0.0488 \$1.1496 <u>\$0.7394</u>	\$225.00 \$0.3371	\$225.00 \$1.4867 <u>\$1.0765</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 \$0.0488 \$1.0604 <u>\$0.6342</u>	\$225.00 \$0.2258	\$225.00 \$1.2862 <u>\$0.8600</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 \$0.0488 \$1.1496 <u>\$0.7394</u>	\$1,350.00 \$0.2673	\$1,350.00 \$1.4169 <u>\$1.0067</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 \$0.1796 <u>\$0.1096</u> \$0.0488 \$1.0604 <u>\$0.6342</u>	\$1,350.00 \$0.2284 <u>\$0.1584</u>	\$1,350.00 \$1.2888 <u>\$0.7926</u>

Issued: September 8 16, 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.

~~Fifth-Sixth~~ Revised Page 141
Superseding ~~Fourth-Fifth~~ Revised Page 141

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX A

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: ~~\$0.711.00~~ **per MMBtu of Daily Imbalance Volumes**

- Updated effective every November 1 to reflect the Company’s latest balancing resources and associated capacity costs.
- Daily Imbalance Volumes represent the difference between ATV and ATV adjusted for actual EDDs.

II. Peaking Service Demand Charge: ~~\$71.8572.72~~ **per MMBtu per MDPQ per month for November ~~2021-2022~~ through April ~~2022~~2023. Provided on Page 6 of Attachment NUI-FXW-6.**

- Updated effective every November 1 to reflect the Company’s Peaking resources and associated costs.

III. Company Allowance Calculation: ~~1.250.97~~ **% - Provided in Attachment NUI-FXW-3**

IV. Supplier Services and Associated Fees:

<u>SERVICE</u>	<u>PRICING</u>
Pool Administration (required) Non-Daily Metered Pools only	• \$0.10/month/customer billed @ marketer level
Standard Passthrough Billing (required)	• \$0.60/customer/month billed @ marketer level
Standard Complete Billing (optional – Passthrough Billing fee not required if this service is elected)	• \$1.50/customer/month billed @ marketer level
Customer Administration (required)	• \$10/customer/switch billed @ marketer level

V. Meter Read Charge: \$78 when customer phone line is not reporting daily data.

VI. Meter Read via Cellular Service: \$20.00 per month

Issued: ~~August 1, 2022~~September 16, 2022

Issued by: Robert. B. Hevert

Effective: ~~August 1, 2022~~November 1, 2022

Senior Vice President

Authorized by NHPUC Order No. ~~26,650~~ _____ in Docket No. DG ~~21-104~~ _____ dated ~~July 20, 2022~~

NHPUC No. 12 – Gas
Northern Utilities, Inc.

~~Fourth-Fifth~~ Revised Page 156
Superseding ~~Fifth-Sixth~~ Revised Page 156

VII. DELIVERY SERVICE TERMS AND CONDITIONS

APPENDIX C

Capacity Allocators

Capacity Allocators shall be calculated and filed with the Commission each year with the Winter Cost of Gas filing. The following Capacity Allocators shall be applicable for capacity assignments during the period of November 1, ~~2021-2022~~ through October 31, ~~2022-2023~~.

Commercial and Industrial

	<u>High Winter Use</u>	<u>Low Winter Use</u>
Pipeline:	22.82 <u>29.51</u> %	60.95 <u>65.64</u> %
Storage:	32.31 <u>32.47</u> %	16.23 <u>15.82</u> %
Peaking:	45.41 <u>38.02</u> %	22.82 <u>18.54</u> %

Issued: ~~November 9, 2021~~September 16, 2022

Issued by: Robert B. Hevert

Effective: November 1, ~~2021~~2022

Senior Vice President

Authorized by NHPUC Order No. ~~26,539~~ _____ in Docket No. DG-~~21-131~~ _____, dated ~~October 29,~~
~~2021~~ _____.

VII. DELIVERY SERVICE TERMS AND CONDITIONS (continued)

Appendix D

**Re-entry Surcharge and Conversion Surcharge
(continued)**

D. Information to be Filed with the Commission:

As part of the annual Cost of Gas filing, the Company shall file with the Commission a report showing the number of customers assessed the Re-entry Surcharge and the Conversion Surcharge and the amount of revenue received for each charge through the prior April 30. Pursuant to the Company’s Cost of Gas Clause, the Company will apply such revenues as credits to the Company’s New Hampshire Division Cost of Gas.

The following Re-entry Surcharge and Conversion Surcharge shall be applicable for the periods of November 1, ~~2021-2022~~ through April 30, ~~2022-2023~~ and May 1, ~~2022-2023~~ through October ~~2022-2023~~.

Effective Dates:	November 1, 2021 <u>2022</u> – April 30, 2022-2023	May 1, 2022-2023 – October 30, 2022-2023
Re-entry Surcharge:	\$ 0.0000 <u>0.709</u> per therm	\$0.0000 per therm
Conversion Surcharge, Low Load Factor (G-40, G-41, G-42):	\$ 0.7543 <u>1.5529</u> per therm	\$0.0000 per therm
Conversion Surcharge, High Load Factor (G-50, G-51, G-52):	\$ 0.8641 <u>1.6421</u> per therm	\$0.0000 per therm

Issued: ~~November 4, 2021~~September 16, 2022
Effective: November 1, ~~2021~~2022

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

Authorized by NHPUC Order No. ~~26,539~~ _____ in Docket No. DG ~~21-131~~ _____, dated ~~October 29, 2021~~ _____.

**NORTHERN UTILITIES, INC. - NEW HAMSHIRE DIVISION
2022 / 2023 Annual Cost of Gas Filing**

Table of Contents

Title	Description
Kahl Testimony	Pre-filed Testimony
Wells Testimony	Pre-filed Testimony
Demeris Testimony	Pre-filed Testimony
Nawazelski Testimony	Pre-filed Testimony
Attachment NUI-CAK-1	Allocation of Demand Costs to ME & NH
Attachment NUI-CAK-2	NH Allocated Demand Costs
Attachment NUI-CAK-2A	Support for Outage Replacement Costs
Attachment NUI-CAK-3	Forecast Firm Sales
Attachment NUI-CAK-4	Allocation of Capacity Costs to Firm Sales Rate Classes
Attachment NUI-CAK-5	Allocation of Commodity Costs to ME & NH
Attachment NUI-CAK-6	NH Allocated Commodity Costs
Attachment NUI-CAK-7	Inventory Activity
Attachment NUI-CAK-8	Allocation of Commodity Costs to Firm Sales Rate Classes
Attachment NUI-CAK-9	Calculation of high and low load factor C&I rate adjustments
Attachment NUI-CAK-10	2021 – 2022 Annual Cost of Gas Reconciliation
Attachment NUI-CAK-11	Bad Debt Calculation
Attachment NUI-CAK-12	COG Over / Under Cumulative Recovery Balances and Interest Calculation
Attachment NUI-CAK-13	Summary of Cost of Gas Rates Calculations
Attachment NUI-CAK-14	Comparison of Proposed Rates to Current Rates
Attachment NUI-CAK-15	Supplier Balancing Charge Calculation
Attachment NUI-CAK-16	Prior Year Re-entry Rate and Conversion Volumes & Revenues
Attachment NUI-CAK-17	Short Term Debt Limit Calculation
Attachment NU-FXW-1	Metered Distribution Deliveries and Meter Counts
Attachment NU-FXW-2	Sales Service Deliveries Forecast by Rate Class
Attachment NU-FXW-3	Company Gas Allowance Calculations
Attachment NU-FXW-4	Capacity Path Diagrams and Details by Supply Source

Attachment NU-FXW-5	Demand Cost Forecast
Attachment NU-FXW-6	Capacity Assignment Revenues & Peaking Service Demand Charge
Attachment NU-FXW-7	Capacity Allocators Calculation
Attachment NU-FXW-8	Commodity Cost Forecast
Attachment NU-FXW-9	Detailed City Gate Cost Calculations
Attachment NU-FXW-10	Supplier Prices
Attachment NUI-FXW-11	Re-entry Rate and Conversion Rate Calculation
Attachment NUI-FXW-12	Contracts Ranked on a Per-Unit Cost Basis
Attachment NUI-FXW-13	Normal Year Sendout Volumes
Attachment NUI-FXW-14	Design Year Sendout Volumes
Attachment NUI-FXW-15	Normal Year Capacity Utilization
Attachment NUI-FXW-16	Design Year Capacity Utilization
Attachment NUI-FXW-17	Forecast of Upcoming Winter Period Design Day Report
Attachment NUI-FXW-18	New Hampshire 7 Day Cold Snap Analysis
Attachment NUI-FXW-19	Migration From Sales Service to Transportation Service
Attachment NUI-SED-1	Local Distribution Adjustment Charge (LDAC) Calculation
Attachment NUI-SED-2	Environmental Response Cost
Attachment NUI-SED-3	Typical Bill Impacts
Attachment NUI-DTN-1	NH Property Tax Expense Analysis
Attachment NUI-DTN-2	NH Property Tax Payment Support

**NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
NOVEMBER 2022 / OCTOBER 2023 ANNUAL PERIOD
COST OF GAS ADJUSTMENT FILING
PREFILED TESTIMONY OF
CHRISTOPHER A. KAHL**

1 **I. INTRODUCTION**

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

3 A. My name is Christopher A. Kahl. My business address is 6 Liberty Lane West,
4 Hampton, New Hampshire.

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

6 A. I am a Senior Regulatory Analyst for Until Service Corp. (“Until Service”), a subsidiary
7 of Until Corporation (“Until”). Until Service provides managerial, financial, regulatory
8 and engineering services to the principal subsidiaries of Until. These subsidiaries are
9 Fitchburg Gas and Electric Light Company d/b/a Until, Granite State Gas Transmission,
10 Inc. (“Granite”), Northern Utilities, Inc. d/b/a Until (“Northern” or “the Company”), and
11 Until Energy Systems, Inc. I am responsible for developing, providing and sponsoring
12 certain reports, testimony and proposals filed with regulatory agencies.

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

14 A. I have worked in the natural gas industry for over twenty-five years. Before joining
15 Until in January 2011, I was employed as an Analyst with Columbia Gas of
16 Massachusetts (“Columbia”) where I had worked since 1997 in supply planning. Prior to
17 working for Columbia, I was employed as an Analyst in the Rates and Regulatory Affairs
18 Department of Algonquin Gas Transmission Company (“Algonquin”) from 1993 to 1997.
19 Prior to working for Algonquin, I was employed as a Senior Associate/Energy Consultant

1 for DRI/McGraw-Hill. I received a Bachelor of Sciences degree and a Masters of Arts
2 degree in Economics from Northeastern University.

3 **Q. Have you previously testified before the New Hampshire Public Utilities**
4 **Commission or for Unitil?**

5 A. Yes, I have testified before the Commission in the 2021 / 2020 Annual Cost of Gas
6 (“COG”) proceeding, Docket No. DG 21-131 and the 2020 / 2021 Annual COG
7 proceeding, Docket No. DG 20-154. I have testified in numerous other Cost of Gas
8 proceedings as well.

9 **Q. Please explain the purpose of your pre-filed direct testimony in this proceeding.**

10 A. This proceeding reflects the annual COG filing and will present both the 2022 / 2023
11 Winter Season and 2023 Summer Season COG rates as well as various ancillary rates. I,
12 Francis Wells, Manager of Gas Supply for Unitil Service, Elena Demeris, Senior
13 Regulatory Analyst for Unitil Service, and Daniel Nawazelski, Manager of Revenue
14 Requirements for Unitil Service are sharing the responsibility of supporting Northern’s
15 proposed New Hampshire Division 2022 / 2023 Annual COG and other proposed rate
16 adjustments in this proceeding.

17 Mr. Wells is sponsoring the customer demand forecast and the resulting forecasted gas
18 sendout and gas costs he developed for Northern’s Maine and New Hampshire Divisions.
19 He is also providing the Capacity Allocation Percentages, the Peaking Demand Rate
20 calculation and the Re-entry Rate and Conversion Rate calculations.

1 Ms. Demeris is sponsoring the calculation of the 2022 / 2023 Local Distribution
2 Adjustment Clause (“LDAC”), and the typical customer bill impacts resulting from the
3 proposed 2022 / 2023 Winter Season and 2023 Summer Season COG rates.

4 Mr. Nawazelski is sponsoring the recovery of the expenses associated with the property
5 tax adjustment mechanism component of the LDAC.

6 My testimony presents and explains the New Hampshire Division’s 2021 / 2022 Annual
7 COG reconciliation, the calculation of the 2022 / 2023 annual COG and the rates
8 Northern proposes to charge customers for the November 1, 2022 to April 30, 2023
9 Winter Season, and for the May 1, 2023 to October 31, 2023 Summer Season. In
10 addition, I will also discuss some of the proposed ancillary rates that are to be effective
11 November 1, 2022 and May 1, 2023.

12 **Q. Please provide a list of the Attachments that you have prepared in support of your**
13 **testimony.**

14 The Attachments that I have prepared in support of my testimony are listed below.

Attachment NUI-CAK-1	Allocation of Northern Fixed Capacity Costs To New Hampshire and Maine Divisions
Attachment NUI-CAK-2	Allocation of New Hampshire Fixed Capacity Costs To Months and Seasons
Attachment NUI-CAK-3	Division Sales and Sendout Forecast
Attachment NUI-CAK-4	Allocation of New Hampshire Demand Costs To New Hampshire Firm Sales Rate Classes
Attachment NUI-CAK-5	Allocation of Northern Commodity Costs To New Hampshire and Maine Divisions

Attachment NUI-CAK-6	New Hampshire Division Commodity Cost Analysis
Attachment NUI-CAK-7	Northern Utilities Inventory Activity
Attachment NUI-CAK-8	Allocation of New Hampshire Variable Gas Costs To New Hampshire Firm Sales Rate Classes
Attachment NUI-CAK-9	Calculation of High and Low Load Factor Commercial & Industrial Customer Rate Adjustments
Attachment NUI-CAK-10	2021 - 2022 Annual Reconciliation
Attachment NUI-CAK-11	Bad Debt Calculation
Attachment NUI-CAK-12	New Hampshire Division (Over) / Under-collection Balances and Interest Calculations
Attachment NUI-CAK-13	Summary of Cost of Gas Rate Calculations
Attachment NUI-CAK-14	Comparison of Proposed Rates to Current Rates
Attachment NUI-CAK-15	Supplier Balancing Charge
Attachment NUI-CAK-16	Prior Year Re-entry Rate and Conversion Rate Revenues
Attachment NUI-CAK-17	Short Term Debt Limit Calculation

1

2 **II Summary**

3 **Q. Please Summarize Northern’s proposed 2022 / 2023 Summer Period and Winter**
4 **Period COG rates and describe how they compare to last year’s rates.**

5 A. Table 1 below provides Northern’s proposed 2022 / 2023 Winter Period COG rates and
6 compares them to the average COG rates for the 2021 / 2022 Winter Period. As this table
7 shows, Winter Period COG rates are higher than those in 2021 / 2022 by \$0.1638 for
8 residential customers and higher by \$0.1824 and \$0.1618 per therm for High and Low
9 Load Factor Commercial / Industrial (“C / I”) customers, respectively.

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Table 1

Winter Period Cost of Gas Rates

Class	2022 / 2023 Proposed Rate per therm	2021 / 2022 Average Rate per therm	Percent Change From 2021/2022 Winter Period
Residential Non-Heat (R-5, R-6 & R-10)	\$1.1357	\$0.9719	16.85%
C & I - High Load Factor (G-50, G-51 & G-52)	\$1.0604	\$0.8780	20.77%
C & I - Low Load Factor (G-40, G-41 & G-42)	\$1.1496	\$0.9878	16.38%

Table 2 below provides Northern’s proposed 2022 / 2023 Summer Period COG rates and compares them to the average COG rates for the 2021 / 2022 Summer Period. As this table shows, the proposed COG rates are \$0.2431 lower for Residential customers, \$0.2580 lower for High Load Factor C / I customers and \$0.2233 lower for Low Load Factor C / I customers.

Table 2

Summer Period Cost of Gas Rates

Class	2022 / 2023 Proposed Rate per therm	2021 / 2022 Average Rate per therm	Percent Change From 2021 / 2022 Summer Period
Residential Non-Heat (R-5, R-6 & R-10)	\$0.6927	\$0. 9358	(25.98)%
C & I - High Load Factor (G-50, G-51 & G-52)	\$0.6342	\$0. 8922	(28.92)%
C & I - Low Load Factor (G-40, G-41 & G-42)	\$0.7394	\$0. 9627	(23.20)%

A summary of the calculation of these rates, and the components that make up these rates is provided in Attachment NUI-CAK-13. A more detailed comparison of 2022 / 2023 residential COG rates to 2022 / 2023 residential rates is provided in Attachment NUI-CAK-14. I will describe the reasons for the change in COG rates later in my testimony. Customer bill impacts resulting from the change in COG rates are discussed in the testimony of Ms. Demeris and are presented in Attachment NUI-SED-3.

II. COST OF GAS FACTOR

Q. Please provide an overview of how Northern’s COG-related costs are allocated to the New Hampshire Division rate classes.

A. The allocation of Northern’s costs to the New Hampshire Division rate classes is derived through three steps. They are as follows:

1 Step 1 – Allocate total Northern costs between the New Hampshire and Maine Divisions.

2 Step 2 - Allocate New Hampshire Division costs to the Winter and Summer Seasons.

3 Step 3 – Allocate New Hampshire Division seasonal costs to each rate class.

4 I will provide a detailed explanation of how these three steps are conducted.

5 **A. Allocation of Northern’s Demand-related Costs to the Maine and New**
6 **Hampshire Divisions**

7 **Q. Please explain how Northern’s projected fixed costs, i.e. (a) pipeline reservation and**
8 **gas supply demand charges, (b) underground storage capacity costs and (c) peaking**
9 **resource capacity costs are allocated between Northern’s Maine and New**
10 **Hampshire Divisions.**

11 A. Northern’s total demand costs are allocated to the Maine and New Hampshire Divisions
12 by application of the Modified Proportional Responsibility (“MPR”) methodology. The
13 MPR methodology allocates fixed gas costs to the Maine and New Hampshire Divisions
14 in a two-step process: (1) costs, by resource type¹, are allocated to months by application
15 of MPR allocation factors; and (2) the costs allocated to each month are then allocated to
16 the Maine and New Hampshire Divisions based on the relative shares of Design Year

¹ Pipeline, storage and peaking.

1 demand² in that month. This MPR methodology was approved by the Commission
2 pursuant to settlements in Docket Nos. 2005-087 and 2005-273.

3 As I will explain in more detail below, I used the MPR methodology to allocate
4 Northern's projected total annual demand costs to the Maine and New Hampshire
5 Divisions for the 2022 / 2023 Winter Season (November 2022 through April 2023) and
6 for the 2023 Summer Season (May 2023 through October 2023).

7 **Q. Please give an overview of the process you followed to derive the MPR allocator**
8 **used to assign Northern's projected total demand costs for the 12-month period**
9 **November 2022 through October 2023 to the Maine and New Hampshire Divisions.**

10 A. I have prepared Attachment NUI-CAK-1 to explain how I calculated the MPR factors
11 and how I used these factors to allocate Northern's total demand costs for November
12 2022 through October 2023 ("COG Period") to the Maine and New Hampshire Divisions.
13 In this attachment, I distinguish between two types of demand costs; Capacity-related and
14 Off-system Peaking demand costs. Capacity-related demand costs reflect the resource
15 costs of Pipeline, Storage and On-system Peaking supplies, as well as credits for capacity
16 release and asset management agreements, for both Sales Service and capacity assigned
17 Delivery Service customers. Off-system Peaking demand costs reflect the costs

² For the MPR allocation process, Design Year demand is calculated as the actual demand to Maine and New Hampshire Division's firm sales and assigned capacity / non-grandfathered transportation customers for the period May 2021 through April 2022, adjusted to reflect design weather conditions from November through April and normal weather conditions from May through October.

1 associated with Northern's Off-system Peaking resources used for Sales Service
2 customers only.

3 Attachment NUI-CAK-1 is arranged in the following six sections;

4 (1) Total Capacity-related demand costs, by type of resource (Pipeline, Storage,
5 On-system Peaking, and other capacity related costs and credits), are summarized
6 in Lines 1 through 14.

7 (2) Capacity-related demand costs for each resource type are allocated to each
8 month in the COG Period according to MPR allocators that were developed
9 specifically for each resource type, as shown on Lines 16 through 52, where the
10 MPR allocators are based on design year sendout volumes for each resource type.

11 (3) Capacity-related demand costs that are allocated to each month in Section 2
12 are allocated to the Maine and New Hampshire Divisions according to design year
13 total firm sendout as shown in Lines 53 through 96.

14 4) Off-system Peaking demand costs, shown on Line 97, are allocated to each
15 month in the Winter Period according to MPR allocators that were developed
16 based on the dispatch of Sales Service customer demand as shown in Lines 99
17 through 106.

18 5) Off-system Peaking demand costs that are allocated to each month in Section 4
19 are then allocated to the Maine and New Hampshire Divisions according to design
20 year total Sales Service sendout as shown in Lines 108 through 123.

1 6) Total Demand costs for each division are then calculated by applying the ratio
2 of each division's Capacity-related demand costs and Off-system Peaking demand
3 costs to Northern's total costs as shown in Lines 124 through 137. From these
4 calculations, the PR allocators are determined. As shown, for November 2022
5 through October 2023, the PR allocators are 59.14% for the Company's Maine
6 Division and 40.86% for the New Hampshire Division.

7 I note the second column of Pages 2, 4 and 6 of Attachment NUI-CAK-1 describes the
8 sources of data and explains the calculations included in Attachment NUI-CAK-1, on
9 Pages 1, 3 and 5. Similar explanations are included in other attachments referenced in
10 my testimony.

11 **Q. Why are Off-system Peaking demand costs listed in steps 4 through 6 allocated**
12 **separately from all other demands costs?**

13 A. Northern no longer purchases Off-system Peaking supplies for capacity-assigned
14 Delivery Service customers in either its Maine or New Hampshire Divisions³.
15 Accordingly, these costs should not be included in the allocation of Capacity-related
16 demand costs because the associated dispatch of these resources includes capacity-
17 assigned (i.e. Sales Service plus capacity-assigned Delivery Service) load. A capacity
18 resource, like the Company's Off-system Peaking Supplies, that reflects only the cost

³ Northern ceased purchasing Off-system Peaking supplies for capacity assignment customers in the New Hampshire Division effective November 1, 2016.

1 associated with Sales Service customers should be allocated between divisions based on
2 the dispatch of Sales Service load only.

3 **Q. Please explain how you allocated Northern's forecasted total Capacity-related**
4 **demand costs to the months in the COG Period.**

5 A. Lines 3 through 5 of Attachment NUI-CAK-1 show Northern's total projected demand
6 costs for Pipeline, Storage, and On-system Peaking resources⁴. Also included are
7 estimates of Northern's Capacity Release and Asset Management revenues, which I have
8 summarized in Lines 8 and 9 of Attachment NUI-CAK-1.

9 The development of the MPR factors and the application of these factors to allocate
10 Pipeline, Storage and On-system Peaking demand costs to each month are shown on
11 Attachment NUI-CAK-1, Lines 20 through 25, Lines 36 through 43 and Lines 47 through
12 52, respectively. In addition, Lines 29 through 32 show the calculation of the Storage
13 Injection Fees, by month. Storage Injection Fees represent capacity costs that comprise
14 the portion of Northern's pipeline capacity that is used to transport gas to and from the
15 underground storage fields. If the Company expects to incur such fees, they are added to
16 the Storage demand costs, as shown on Line 42, and subtracted from the Pipeline demand
17 costs, as shown on Line 57. However, as indicated, for the 2022 / 2023 Winter Season,
18 storage injection fees are zero. This is because Northern is purchasing storage gas

⁴ The forecast of demand costs is provided in Attachment NUI-FXW-5.

1 directly at the underground storage facility thereby eliminating the need for transportation
2 to the facility and the associated transfer of costs.

3 Northern's fixed capacity costs that have been allocated to each month are summarized
4 and consolidated on Lines 54 through 60. Lines 54, 55 and 56 repeat the Pipeline,
5 Storage, and On-system Peaking capacity costs from Lines 25, 43, and 52. Line 57
6 shows the credit to Pipeline capacity costs that is related to the Storage Injection Fees that
7 have been added to the Storage capacity costs⁵. In addition, 1/5 of total Capacity Release
8 revenues are allocated evenly to each month from November through March, as shown
9 on Line 58, and 1/6 of total Asset Management revenues are allocated evenly to each
10 month from November through April, as shown on Line 59.

11 **Q. How are the total Capacity-related Demand Costs and the Capacity Release and**
12 **Asset Management revenues, which have been allocated to each month according to**
13 **the process that you described above, allocated to the Maine and New Hampshire**
14 **Divisions?**

15 A. Northern's Total Capacity-related Demand Costs⁶ and Capacity Release and Asset
16 Management revenues allocated to each month are then allocated to the Maine and New
17 Hampshire Divisions according to the design year total firm sendout for both divisions,
18 which is shown in Lines 65 and 66 of Attachment NUI-CAK-1; the calculated
19 percentages are provided in Lines 70 and 71. In accordance with Commission-approved

⁵ As indicated, for the 2022 / 2023 Winter Season, the credit is zero due to purchases being made directly at the storage facility.

⁶ Costs reflect pipeline, storage and on-system peaking resources.

1 settlements⁷, the design-year firm sendout quantities for the COG Period as shown on
2 Lines 65 and 66 are the sendout quantities required to serve the Maine and New
3 Hampshire Divisions' firm sales and transportation customers that are subject to the
4 assigned-capacity requirements under design winter conditions from May 2021 to April
5 2022.

6 **Q. Is the same process used for allocating Capacity-related demand costs also used for**
7 **Off-system Peaking demand costs?**

8 A. Yes. Lines 101 through 106 of Attachment NUI-CAK-1 use the same process for
9 allocating resource costs to each month as that used in Lines 47 through 52. Also, Lines
10 109 through 123 use the same process for applying monthly costs to divisional sendout as
11 used in Lines 62 through 77. As shown in Lines 121 and 122, Off-system Peaking
12 demand costs are allocated to each division based on the design winter dispatch of Sales
13 Service customers only.

14 **Q. Finally, how are the combined PR Allocators for both Capacity-related and Sales**
15 **Service demands calculated?**

16 A. The combined PR allocators are based on the percentage of total Capacity-related and
17 Off-System Peaking PRs costs allocated to each division. Lines 125 and 130 of
18 Attachment NUI-CAK-1 show the Capacity-related PR allocators while Lines 126 and
19 131 show the corresponding values for Off-system peaking PR allocators. Lines 127 and

⁷ These settlements were approved in Maine PUC Docket Nos. 2005-87 and 2005-273.

1 132 show the combined PR Allocators, 59.14% for Maine and 40.86% for New
2 Hampshire, used to assign costs between divisions.

3 **B. Allocation of New Hampshire Demand-Related Costs to Seasons**

4 **Q. Please explain how the projected annual demand-related costs that are allocated to**
5 **the New Hampshire Division are then assigned to be recovered in the 2022 / 2023**
6 **Winter Season and the 2023 Summer Season.**

7 A. Northern allocates costs between the seasons as well as among customer classes through
8 the Simplified Market Based Allocation (“SMBA”) method. I have prepared Attachment
9 NUI-CAK-2 to show detailed support for the allocation of New Hampshire Division
10 Sales Service demand costs to months, and then to seasons utilizing the SMBA method.
11 Lines 2 through 4 of Attachment NUI-CAK-2 summarize the Pipeline and Storage and
12 On-system Peaking demand costs that are allocated to the New Hampshire Division, as
13 determined in Attachment NUI-CAK-1. Lines 12 through 22 of Attachment NUI-CAK-2
14 show the calculation of Net Demand Costs for firm sales customers, which is Total
15 Demand Costs allocated to the New Hampshire Division less the capacity assignment
16 revenues from New Hampshire Division transportation customers. The Winter and
17 Summer Season rates that will be charged to New Hampshire Division firm sales
18 customers from November 2022 through October 2023 will recover: (1) the Net Pipeline

1 Demand costs shown on Line 19; (2) the Net Storage costs shown on Line 20; and (3) the
2 On-system Peaking demand costs shown on Line 21 of Attachment NUI-CAK-2.⁸

3 Lines 26 through 40 of Attachment NUI-CAK-2 show the calculation of pipeline demand
4 costs for sales customers, separated into (1) Base Use demand costs and (2) Remaining
5 Use demand costs.⁹ The Base Use that is shown on Line 31 of Attachment NUI-CAK-2
6 is the average projected daily use in July and August 2023¹⁰ for all firm sales classes. The
7 Base Pipeline Use Demand cost that is shown on Line 39 of Attachment NUI-CAK-2 is
8 calculated by multiplying Firm Sales Base Use, shown on Line 31, times the weighted
9 average annual cost of pipeline capacity, as shown on Line 35 of Attachment NUI-CAK-
10 2. Line 40 shows the Remaining Pipeline Use Net Pipeline Demand costs for sales
11 customers, which is the difference between total net Pipeline and Product Demand costs
12 and Base Pipeline Use demand costs.

13 Lines 44 through 49 of Attachment NUI-CAK-2 show the calculation of the Proportional
14 Responsibility (“PR”) allocator that is used to allocate (a) Remaining Use Net Pipeline
15 Demand costs and (b) Storage and On-system Peaking costs related to Firm Sales
16 customers for twelve months, November 2022 through October 2023. Lines 51 through
17 56 show the calculation of the PR factor that is used to allocate (c) Capacity Release and
18 Asset Management revenues, (d) Interruptible margins and Re-entry Rate and Conversion

⁸ These direct demand costs are adjusted by Capacity Release and Asset Management revenues (Line 77); Interruptible margins (Line 78); and Re-Entry Rate and Conversion Rate Credits (Line 79).

⁹ This separation is necessary because the SMBA allocation methodology allocates Base Use demand costs to seasons on a different basis than Remaining Use demand costs.

¹⁰ Average Projected Daily demand by class in July and August is shown in Attachment NUI-CAK-3, Line 48.

1 Rate revenues and (e) Off-system Peaking Supplies to the Winter Season months,
2 November 2022 through April 2023. These PR factors are summarized by type of
3 capacity cost at lines 60 through 65. Line 60 of Attachment NUI-CAK-2 shows that
4 1/12th of the net annual Base Use pipeline demand costs is allocated to each month, and
5 Lines 69 through 79 show the detailed allocation to months of all components that are
6 included in the Total Net Demand Costs, based on the “All Months” and “Peak Months
7 Only” allocation factors.

8 As shown on Line 80 of Attachment NUI-CAK-2, \$10,341,068 of total direct demand
9 costs are allocated to the 2022 / 2023 Winter Season, and \$1,4520,867 is allocated to the
10 2023 Summer Season.

11 **C. Allocation of New Hampshire Winter and Summer Season Demand Costs to**
12 **Customer Classes**

13 **Q. Please explain how the New Hampshire Division sales service demand-related costs**
14 **that were allocated to the Winter and Summer Seasons are allocated to each sales**
15 **rate class.**

16 **A.** The New Hampshire Division sales service Base Use demand-related costs for each
17 month are allocated to each Sales Service rate class based on that class’s pro rata share of
18 total forecasted firm sendout to sales customers under normal weather conditions in that
19 month. The Remaining Use demand-related costs for each month are allocated to each
20 Sales Service rate class based on that class’s pro rata share of total forecasted firm sales
21 design day, temperature-sensitive demand.

1 I have prepared Attachment NUI-CAK-3 to show the calculation of the factors that are
2 used to allocate New Hampshire Division Sales Service Winter and Summer Season Base
3 Use demand-related costs for each month to each sales service rate class. The firm sales
4 forecast, shown on Lines 1 to 16, and the firm sendout forecast by class, shown on Lines
5 18 to 33, are used to determine: daily Base Use, shown on Lines 35 to 48; Base Use
6 sendout, shown on Lines 49 to 64; and Remaining Use sendout, shown on Lines 66 to 80.
7 The Base and Remaining Use sendout values for each class are used to allocate the
8 seasonal demand costs to the New Hampshire Division firm sales classes.

9 I have prepared Attachment NUI-CAK-4 to show the allocation of Winter and Summer
10 Season New Hampshire Division Net Demand costs to each firm sales rate class, based
11 on (a) the New Hampshire Net Demand costs that are allocated to each Winter Season
12 and Summer Season month as shown in Attachment NUI-CAK-2, Lines 69 through 79,
13 and (b) the rate class allocators as shown Attachment NUI-CAK-3, Lines 49 to 80. The
14 Base Use Sendout allocators, which are used to allocate base demand costs to firm sales
15 rate classes, are shown on Lines 3 through 22 of Attachment NUI-CAK-4. The
16 Remaining Use Design Day allocators, which are used to allocate all other demand-
17 related costs and credits to firm Sales Service rate classes, are shown on Lines 39 through
18 48.

19 The following table shows the location in Attachment NUI-CAK-4 of the Net Demand-
20 related costs and credits by component allocated to each firm sales rate class:

Demand Cost Component	Attachment NUI-CAK-4
Base Capacity	Lines 24 through 37
Remaining Pipeline Capacity	Lines 50 through 66

Peaking and Storage Demand	Lines 68 through 84
Off-system Peaking Demand & Outage Expense	Lines 86 through 102
Capacity Release & Asset Mgmt. Revenues	Lines 105 through 121
Interruptible, Re-entry & Conversion Revenues	Lines 123 through 139
Total Non-Base Capacity Costs	Lines 141 through 155
Total Capacity Costs	Lines 157 through 175

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D. Allocation of Variable Costs

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Q. Please provide a description of Variable costs, and explain how Variable costs are allocated to Northern’s Maine and New Hampshire Divisions.

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A. Variable costs include commodity costs and variable pipeline and storage costs¹¹ for firm sales. Mr. Wells prepared a forecast of Northern’s variable gas costs by month, which is provided in Attachment NUI-FXW-8. These variable gas costs have been allocated between the Maine and New Hampshire Divisions based on each Division’s percentage of monthly firm normal sendout. I have prepared Attachment NUI-CAK-5 to show the allocation of the 2022 / 2023 Winter and Summer Season variable gas costs between the Maine and New Hampshire Divisions.

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Q. Please explain Attachment NUI-CAK-5.

13

A. Lines 1 through 10 of Attachment NUI-CAK-5 show the projected sendout volumes, by month and by resource type, which Mr. Wells provided to me. Mr. Wells also provided the projected variable costs by month and by type of gas supply resource that are shown on Lines 19, 20 and 21 of Attachment NUI-CAK-5. This Attachment also shows

14

15

16

¹¹ Variable costs include pipeline usage/commodity charges, pipeline fuel retention, storage commodity injection and withdrawal charges, and storage fuel retention.

1 projected Off-system Sales revenues on Line 22. The pipeline commodity costs shown
2 on Lines 12 and 19 are based on projected NYMEX prices as of September 7, 2022. The
3 total variable gas costs for firm Sales Service, on Lines 24 and 36, are allocated to the
4 Maine and New Hampshire Divisions based on projected monthly firm sales sendout in
5 each division; the allocators are shown on Lines 40, 41, 45 and 46. Attachment NUI-
6 CAK-5 also shows the allocation of Commodity costs to the two Divisions, (Maine
7 Division: Lines 51 through 57; New Hampshire Division: Lines 59 through 65). Finally,
8 Attachment NUI-CAK-5 shows the inventory finance costs for underground storage and
9 LNG resources (Lines 82 to 84), the allocation of these costs to the Maine and New
10 Hampshire Divisions (Lines 87 to 89), and the allocation of New Hampshire Division's
11 allocated share of annual inventory finance costs to the Winter Season, using the firm
12 sales remaining sendout allocators (Lines 98 to 100).

13 I have prepared Attachment NUI-CAK-6 to summarize the New Hampshire Division
14 variable gas costs that were determined in Attachment NUI-CAK-5. This attachment also
15 shows the calculation of base and remaining commodity costs.

16 **Q. Please explain how you calculated the inventory finance costs for underground**
17 **storage and LNG resources that are included in Attachment NUI-CAK-5.**

18 A. The allocation of inventory finance charges to the Company's Maine and New
19 Hampshire Divisions are shown on Lines 87 and 88 of Attachment NUI-CAK-5. These
20 inventory finance costs, as shown on Lines 82 and 83 were calculated based on
21 forecasted inventory activity calculations which are shown in Attachment NUI-CAK-7.

1 **Q. Please explain how the New Hampshire Division variable gas costs for sales**
2 **customers are allocated to each firm sales class.**

3 A. I have prepared Attachment NUI-CAK-8 to show the allocation of New Hampshire
4 Division variable gas costs to each firm sales class. Lines 1 to 21 show the calculation of
5 the Base Sendout allocators by rate class. Lines 22 to 35 show the allocation of the
6 monthly New Hampshire Division Base Commodity costs¹² to each rate class. Lines 37
7 to 56 show the calculation of the Remaining Sendout allocators by rate class. Lines 57 to
8 70 show the allocation of the monthly New Hampshire Division Remaining Commodity
9 costs¹³ to each rate class. A summary of all commodity costs allocated to the New
10 Hampshire Division's firm sales classes is shown on Lines 71 to 84.

11 **E. Adjustments**

12 **Q. Once direct demand and commodity costs are determined for the rate classes, are**
13 **any adjustments made?**

14 A. Yes. Since Residential COG rates are based on the average cost of gas (total seasonal
15 cost of gas divided by total seasonal demand), and the High and Low Load Factor
16 Commercial and Industrial ("C&I") COG rates are determined through the SMBA
17 method, an adjustment to C&I COG rates is required in order to properly recover all
18 costs. Attachment NUI-CAK-9 adjusts C&I COG rates in order to account for differences

¹² New Hampshire Division Base Commodity costs by month are shown in Attachment NUI-CAK-6, Line 34.

¹³ New Hampshire Division Remaining Commodity costs by month are shown in Attachment NUI-CAK-6, Line 35.

1 between the average cost and SMBA methodologies. This adjustment is based on the
2 difference in total projected costs that would be assigned to Residential customers under
3 the two methodologies, and applies the difference to the C&I customer classes based on
4 their percentage of total allocated C&I demand and commodity costs.

5 **F. Refunds**

6 **Q. Are there any refunds included in this filing?**

7 A. There are no refunds included in this filing.

8 **G. Indirect Costs and Miscellaneous Charges / Credits**

9 **Q. Please explain the 2021 / 2022 Annual COG Reconciliation.**

10 A. The 2021 / 2022 Annual COG Reconciliation is provided as Attachment NUI-CAK-10.
11 As Page 1 of this Attachment indicates, the projected October 31, 2022 annual ending
12 balance is an over-collection of (\$2,419,538). This balance is comprised of a Winter
13 Season over-collection of (\$2,519,772) and a Summer Season under-collection of
14 \$100,234.

15 **Q. How are the respective Summer and Winter reconciliation balances calculated?**

16 A. The end of season balances for the Summer and Winter periods are calculated in
17 Appendix F of the reconciliation. For the Winter Season, the ending balance is
18 determined by first calculating the difference between the estimated and actual April 30,
19 2022 balance as shown on Lines 1 through 4. This amount reflects the total cost of gas of
20 which the working capital and bad debt balances (lines 4 & 5) must then be subtracted in

1 order to determine the balance for demand and commodity, an over-collection of
2 (\$265,275) (Line 8). From this amount, an adjustment must be made for changes in asset
3 management agreement (“AMA”) revenues. These AMA revenues of (\$2,247,007) are
4 shown on Line 10 of Attachment F. Combining the commodity and demand balance
5 (Line 8) with AMA revenue and interest (Lines 10 & 12) equals the Winter Season
6 balance of (\$2,419,538). The Summer Season balance, \$100,234 (Line 18), is
7 determined by subtracting the Winter Season balance (Line 14) from the annual
8 reconciliation balance (Line 16).

9 **Q. Please explain why AMA revenues are factored in to the Winter Season ending**
10 **balance?**

11 A. AMA revenue is updated annually beginning in April of each year and all revenues are
12 received in twelve equal monthly installments. For the period April 2022 through March
13 2023, AMA revenues are substantially higher than in the prior year. In addition, all AMA
14 revenues are allocated to the winter period as shown in Attachment NUI-CAK-2, Line
15 77. Therefore, the credits from the increase in AMA revenue must also be flowed back to
16 the winter period. Due to the timing of the change in AMA revenues, winter period rates
17 cannot be adjusted during the winter months and the impact of changes in AMA revenue,
18 from May through October, must be recovered in the reconciliation. If there had been no
19 change in AMA revenues, the winter balance would have been an over-collection of
20 (\$265,275) as listed on Line 8.

21 **Q. How did Northern develop its current projected Bad Debt expense for inclusion in**
22 **the 2022 / 2023 Winter Season and 2023 Summer Season COGs?**

1 A. To develop its bad debt projections, Northern forecasts 12 months of customer
2 write-offs for both supply and distribution service. This forecast is based on actual
3 experience and any recent unexpected increases or decreases in the number of customer
4 write-offs. As shown on Line 14 of Attachment NUI-CAK-11, for the twelve months
5 ended December 31, 2023, Northern projects annual Bad Debt expense to be \$400,000.
6 The projected annual Bad Debt expense was then allocated to supply (35%) and
7 distribution (65%) services based on the actual Bad Debt experience of these components
8 over the 12-months ended July 30, 2022. This is shown on Lines 7 and 5, respectively, of
9 Attachment NUI-CAK-11. The annual Bad Debt expense forecast allocated to supply
10 was then allocated further to the 2022 / 2023 Winter Season (88%) and 2023 Summer
11 Season (12%) based on the allocation of direct demand costs between the Winter and
12 Summer seasons. This breakout establishes the Winter Season Bad Debt of \$121,564
13 (Line 16) and a Summer Season Bad Debt expense of \$17,079, (Line 17). I have also
14 included these expenses at lines 36 and 144 in Attachment NUI-CAK-13.

15 **Q. How were Northern's Working Capital Costs derived?**

16 The Working Capital Costs were based on a formula approved in Northern's 2021 base
17 rate proceeding, Docket No. DG 21-104. This formula derives the working capital
18 percentage by dividing the supply related net lag of 9.30 days by 366 days and then
19 multiplying the result by the prime interest rate. Based on the current prime rate of 5.5%,
20 the Working Capital Percentage is 0.1398%. This percentage, when multiplied by each
21 season's forecasted Direct Cost of Gas, yields a 2022 / 2023 Winter Season Working

1 Capital Cost of \$58,708 and a 2023 Summer Season Working Capital Cost of \$8,045.

2 These amounts are included in Attachment NUI-CAK-13 at lines 29 and 138.

3 **Q. Please explain the costs related to the Company's local production and storage**
4 **facilities, and Other Administrative and General ("A&G") expenses that are**
5 **included in the Winter Season COG.**

6 A. Northern's local production and storage costs were set at \$214,538 in the Company's
7 most recent base rate case proceeding, Docket No. DG 21-104, and are recovered solely
8 in the Winter Season. Also in the last base rate case proceeding, A&G expenses were set
9 at \$611,875. Of this amount, \$492,287 is recovered from sales customers in the Winter
10 Season and \$119,588 is recovered in the Summer Season. These amounts are included in
11 Attachment NUI-CAK-13 on lines 40, 42 and 150 respectively.

12 **Q. Please explain the calculation of the Winter and Summer interest expense.**

13 A. Interest expense is calculated in Attachment NUI-CAK-12 (Line 100) and is based on the
14 latest prime rate and expected costs and revenues during the Winter and Summer seasons.
15 Winter and Summer period interest expense is also shown on Attachment NUI-CAK-13,
16 on Lines 21 and 130 respectively

17 **H. Cost of Gas Factor**

18 **Q. Please explain the calculation of the proposed New Hampshire Division COG**
19 **Factors or Rates for the 2022 / 2023 Winter Season and the 2023 Summer Season.**

1 A. Attachment NUI-CAK-13, which is similar to the Company's COG tariff Pages 40
2 through 43, has been prepared to explain the calculation of the proposed 2022 / 2023
3 Winter and 2023 Summer COG Factors. Attachment NUI-CAK-13 shows the calculation
4 of the Winter and Summer Season COGs for each of Northern's three COG Rate Groups:
5 (1) Residential classes R-5, R-6 and R-10; (2) C&I Low Winter use classes G-50, G-51
6 and G-52; and (3) C&I High Winter use classes G-40, G-41 and G-42.

7 As shown on Page 3 of the Attachment, the 2022 / 2023 Winter Season projected
8 Average COG is \$1.1357 per therm (Line 66), which is the sum of the average Total
9 Direct COG, \$1.1830 per therm (Line 59) and the average Indirect COG, (\$0.0473) per
10 therm (Line 63). As shown of Page 7 of the Attachment, the 2023 Summer Season, the
11 projected Average COG is \$0.6927 per therm (Line 175), which is the sum of the average
12 Total Direct COG, \$0.6673 per therm (Line 168) and the average Indirect COG, \$0.0254
13 per therm (Line 172).

14 Also shown on the Attachment are the proposed Residential COG Factors for the 2022 /
15 2023 Winter Period (Line 68) and the 2023 Summer Period (Line 177), the proposed C&I
16 Low Winter Use COG Factors for the 2022 / 2023 Winter Period (Line 72) and 2023
17 Summer Period (Line 181), and the proposed C&I High Winter Use COG Factors the
18 Winter 2022 / 2023 Winter Period (Line 92) and 2023 Summer Period (Line 201).

19 **Q. Please explain the calculation of the Working Capital allowances for the 2022 / 2023**
20 **Winter Season.**

1 The total Working Capital allowance, \$66,291 as shown on Line 33 of Attachment NUI-
2 CAK-13 is the sum of the current period working capital allowance (Line 29) plus the
3 prior seasonal allocation of Working Capital reconciliation balance (Line 31).

4 **Q. Please explain the calculation of the Bad Debt allowance for 2022 / 2023 Winter**
5 **Season.**

6 A. The Bad Debt allowance, \$110,983 (Line 38), is the sum of the current period bad debt
7 allowance (Line 36) plus the seasonal allocation of the Bad Debt reconciliation balance
8 (Line 37).

9 **Q. Please explain the calculation of the 2023 Summer Season Working Capital**
10 **allowances.**

11 The total Working Capital allowance, \$9,887 as shown on Line 141 of Attachment NUI-
12 CAK-13 is the sum of the current period working capital allowance (Line 138) plus the
13 prior seasonal allocations of Working Capital reconciliation balance (Line 139).

14 **Q. Please explain the calculation of the Bad Debt allowance for 2023 Summer Season.**

15 A. The Bad Debt allowance, \$16,522 (Line 146), is the sum of the current period bad debt
16 allowances (Line 144), plus the seasonal allocations of the Bad Debt reconciliation
17 balance (Line 145).

18 **Q. Is Northern proposing any credits to the COG for transportation customers**
19 **returning to Sales Service?**

1 A. Northern is projecting a combined total of \$5,000 in revenues associated with the Re-
2 entry Rate and Conversion Rate. This amount is included in Attachment NUI-CAK-13 at
3 Line 14.

4 **I. Summary Analyses**

5 **Q. How does the proposed average 2022 / 2023 Winter Season Residential COG rate**
6 **compare to the average 2021 / 2022 Winter Season Residential COG rate?**

7 A. Attachment NUI-CAK-14 compares the proposed 2022 / 2023 Winter Season Residential
8 COG rate to the average 2021 / 2022 Winter Season Residential COG rate. As
9 Attachment shows, the proposed 2022 / 2023 Winter Season COG rate, \$1.357 per therm,
10 is \$0.1638 per therm higher than the average 2021 / 2022 Winter Season COG rate,
11 \$0.9719 per therm. The increase is due to a significant increase in gas supply costs. The
12 impact of higher commodity costs is partially offset by an increase AMA revenue, and a
13 reconciliation over-collection compared to an under-collection compared the prior year.
14 Commodity costs are higher due to material increases in NYMEX prices. The change in
15 costs and AMA revenues for Residential customers is also applicable to C&I customers.

16 **Q. How does the proposed 2023 Summer Season Residential COG rate compare to the**
17 **filed 2022 Summer Season COG rate?**

18 A. Attachment NUI-CAK-14 also compares the proposed 2023 Summer Season Residential
19 COG rate to the average 2022 Summer Season Residential COG rate. As this
20 Attachment indicates, the proposed 2023 Summer Season average COG rate, \$0.6927 per
21 therm, is \$0.2431 per therm lower than the 2022 Summer Season Average COG, \$0.9358

1 per therm. The rate decrease is due to the amended CGF rates in September and October
2 2022 that were required to cover the expected costs associated with very high NYMEX
3 prices during the second half of the 2022 Summer Season. At this time, 2023 NYMEX
4 prices are significantly lower than those in 2022 which reduce projected CGF rates below
5 2022 levels. This decrease in commodity costs is partially offset by higher demand costs,
6 a larger reconciliation under-collection and small increases in bad debt, working capital
7 and miscellaneous overhead. This change in COG rates for Residential customers is also
8 applicable to C&I customers.

9 **III. ANCILLARY CHARGES & SUPPORTING INFORMATION**

10 **Q. What ancillary charges and schedules have you updated for this filing?**

11 A. I have provided updates to four ancillary charges / schedules and supporting information
12 to four separate schedules. First, I have updated the Supplier Balancing Charge to be
13 effective November 1, 2022. The proposed charge remains unchanged at \$1.00 per
14 MMBtu. I have prepared Attachment NUI-CAK-15 to support the updated Supplier
15 Balancing Charge calculation. Second, I have updated the On-system Peaking Demand
16 charge to be effective November 1, 2022 through April 30, 2023. The proposed charge is
17 \$72.72 per Dth. Support for this charge is provided by Mr. Wells in Attachment NUI-
18 FXW-5. Both the Supplier Balancing Charge and On-system Peaking Demand Charge
19 are included in Tariff Page No. 141, Appendix A.

20 Third, I have updated Tariff Page 156 which updates the capacity allocation percentages
21 for all non-exempt Delivery Service customers for the period November 1, 2022 through

1 October 31, 2023. The calculations supporting the capacity allocators are provided by
2 Mr. Wells in Attachment NUI-FXW-7.

3 Lastly, I have updated the Re-entry Rates and Conversion Rates to be effective
4 November 1, 2022 through April 30, 2023, and May 1, 2023 through October 31, 2023.
5 For the Winter Season, the Re-entry Rate is \$.0709 per therm for both high and low load
6 factor customers. For the Summer Season the Re-entry Rate is \$0.0000 in the Summer
7 Seasons for the both the high and low load factor C&I rate classes. In the Winter Season,
8 the proposed Conversion Rate is \$1.6421 per therm for High Load Factor customers and
9 \$1.5529 per therm for Low Load Factor C&I customers. In the Summer Season, the
10 Conversion Rate is \$0.0000 per therm for both High and Low Load Factor customers.
11 These rates appear on Tariff Page No. 158, Appendix D. Support for these rates is
12 provided by Mr. Wells in Attachment NUI-FXW-11.

13 **Q. Are there any additional schedules that are included in this filing?**

14 A. Yes, Attachments NUI-CAK-16 and NUI-CAK-17 have not been discussed in my
15 testimony. Attachment NUI-CAK-16 provides the historical revenues from the Re-entry
16 Rate and Conversion Rate Surcharges that are applied to transportation customers
17 returning to the Company's Sales Service. Attachment NUI-CAK-17 determines
18 Northern's short-term debt limit calculation for the period November 2022 through
19 October 2023.

1 **IV. FINAL MATTERS**

2 **Q. Will the Company propose to revise the 2022 / 2023 Winter Season COG rates if it**
3 **receives any new or updated information on gas supplier or transportation rates?**

4 A. If requested by the Commission or Department of Energy Staff, the Company will file a
5 revised calculation of its 2022 / 2023 Winter and Summer Season COG rates to reflect
6 updated gas and pipeline transportation cost projections as well as any other cost
7 information a few weeks prior to the effective date of the Winter Season, November 1,
8 2022. In addition, the Company will file proposed changes to the approved 2022 / 2023
9 Winter Season COG rates when the projected end-of-season variance exceeds 2% of the
10 target projected cost of gas. As mentioned above, Attachment NUI-CAK-12 projects
11 Northern's monthly COG over/under collections, balances and interest. Northern will
12 update this schedule each month with actual costs and updated NYMEX prices in order to
13 determine the variance between the latest projected end-of-season balances and the target
14 end-of-season balances established in this COG filing. As indicated on Line 92 on that
15 Attachment, Northern projects a target balance over collection of \$2,067,835¹⁴ on April
16 30, 2023. This target balance will be updated in November to adjust for the actual
17 balance effective October 31, 2022. If, during the upcoming Winter Season, the
18 Company's monthly projected April 30, 2023 ending balance varies from the target
19 balance by 2% or more of total target projected gas costs, then the Company will file to
20 adjust the 2022 / 2023 Winter Season COG for the subsequent month. These rates will

¹⁴ This over-collection is projected to be near \$0 by October 31, 2023

1 take effect without further action by the Commission for any decrease and for increases
2 up to 25% of the initially-approved 2022 / 2023 Winter Season COG rates.

3 Lastly, the Company will also file proposed changes to the approved 2023 Summer
4 Season COG when the projected annual variance exceeds 4% of the target projected gas
5 costs. If, during the upcoming Summer Season, the Company's updated projected
6 October 31, 2023 ending balance varies from the target Annual COG period balance by
7 4% or more of total Summer Period projected gas costs, the Company will file to change
8 the 2023 Summer COG for the subsequent month. These rates will take effect without
9 further action by the Commission for any decrease and for increases up to 25% of the
10 initially-approved 2023 Summer Period COG.

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

12 **A.** Yes it does.

**NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
ANNUAL PERIOD 2022-2023
COST OF GAS FILING**

**PREFILED TESTIMONY OF
FRANCIS X. WELLS**

1 **I. INTRODUCTION**

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

3 A. My name is Francis X. Wells. My business address is 6 Liberty Lane West, Hampton,
4 NH.

5 **Q. What is your relationship with Northern Utilities, Inc.?**

6 A. I am employed by Unitil Service Corp. (the "Service Company") as Manager of Energy
7 Planning. The Service Company provides professional services to Northern Utilities, Inc.

8 **Q. Please briefly describe your educational and business experience.**

9 A. I earned my Bachelor of Arts Degree in both Economics and History from the
10 University of Maine in 1995. I joined the Service Company in September 1996 and
11 have worked primarily in the Energy Contracts department. My primary
12 responsibilities involve gas supply planning and acquisition.

13 **Q. Have you previously testified before the New Hampshire Public Utilities
14 Commission ("Commission")?**

15 A. Yes. I have testified as Northern's gas supply witness before the Commission in
16 Northern's Cost of Gas ("COG") proceedings.

17 **Q. Please summarize your prepared direct testimony in this proceeding.**

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1 A. The purpose of my testimony is to present and support Northern's gas supply cost
2 forecast, which was used for the calculation of the proposed COG.

3 The 2022-2023 fixed, annual demand cost estimates are 9% lower than the fixed, annual
4 demand cost estimates provided for the prior 2021-2022 Winter Period COG filing. The
5 major reason for this decrease are due to higher Asset Management Agreement
6 revenue credits, partially offset by higher pipeline transportation charges due mostly to
7 the addition of WXP Project capacity to Northern's portfolio. Estimated average
8 delivered commodity rates for the 2022-2023 Winter Period are 64% higher than the
9 average delivered commodity rates estimated for the 2021-2022 Winter Period COG.
10 The major reason for this increase is higher NYMEX supply costs and higher delivered
11 peaking supply costs. Estimated average delivery commodity rates for the 2023
12 Summer Period are 42% higher than the average delivered commodity rates estimated
13 for the 2022 Summer Period COG. Higher NYMEX supply costs are the major reason
14 for this increase.

15 Northern projects combined sales service and delivery service distribution deliveries to
16 be 8,924,865 Dth in the New Hampshire Division for the 2022-2023 Annual Period,
17 which is 2.0% higher than the 2021-2022 Annual Period weather-normalized distribution
18 deliveries and 3.2% higher than the 2020-2021 Annual Period weather-normalized
19 distribution deliveries. Of the 8,924,865 Dth of projected distribution system deliveries,
20 Northern projects that 4,413,297 Dth will be supplied by the Company through Sales
21 Service. In order to supply 4,413,297 Dth of supply to customer's retail meters, Northern
22 projects a city-gate requirement of 4,456,526 Dth. In addition, Northern expects its
23 Company-Managed Sales obligation to equal 120,428 Dth for the New Hampshire
24 Division, bringing the total projected New Hampshire sendout requirement to 4,576,954

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1 Dth for the upcoming year. The details behind these estimates are contained in
2 Attachments NUI-FXW-1 and -2.

3 Northern's portfolio has 142,844 Dth maximum daily quantity of Pipeline, Storage and
4 Peaking Capacity (each of these Capacity terms as defined in the Company's New
5 Hampshire Division Delivery Service Terms and Conditions). I review the portfolio in
6 more detail in the body of my testimony. Details of this portfolio are provided in
7 Attachment NUI-FXW-4. I review the portfolio in more detail in the body of my
8 testimony, including updates to the portfolio that have occurred since the 2021-2022
9 Annual Period COG Filing as well as an update on Northern's implementation of its Price
10 Risk Mitigation Plan.

11 I project Northern's total company (including both the Maine and New Hampshire
12 Divisions) demand cost for the November 2022 through October 2023 gas year to be
13 \$42,229,147. (See Attachment NUI-FXW-5). Mr. Chris Kahl, who is also testifying in this
14 proceeding, presents the allocation of the total annual demand cost to Northern's New
15 Hampshire Division and the portion of that allocation of annual demand costs between
16 the Winter and Summer COG recoveries. I also projected the demand revenue from the
17 New Hampshire Division's capacity assignment program to be \$5,457,743. (See
18 Attachment NUI-FXW-6). I also discuss the updated Capacity Allocators and Capacity
19 Ratio pursuant to the New Hampshire Division capacity assignment program, which are
20 provided as Attachment NUI-FXW-7.

21 I project that Northern's total company (including both the Maine and New Hampshire
22 Divisions) commodity cost to provide sales service during the 2022-2023 Winter Period
23 will be \$84,546,814 at an average rate equal to \$8.772 per Dth. (See Attachment NUI-
24 FXW-8). 2023 Summer Period commodity cost to provide sales service are projected to
25 be \$13,507,267 at an average rate equal to \$4.940 per Dth.

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1 Finally, I provide the proposed Re-entry Rate, applicable to Capacity Assigned Delivery
2 Service customers who switch to Northern's Sales Service, and the proposed
3 Conversion Rates, applicable to Capacity Exempt Delivery Service customers who
4 switch to Northern's Sales Service. I also provide the supporting calculations for these
5 proposed rates. These calculations are provided in Attachment NUI-FXW-11.

6 **II. SALES AND SENDOUT FORECAST**

7 **Q. Please describe the Company's forecasts sales.**

8 A. The sales forecast for the residential, regular general, and large rate classes are
9 developed by independently forecasting meter growth and usage per meter. The
10 forecasted usage per meter assumes 'normal' weather which is the average of the actual
11 degree days over the last 20 years. In addition, Business Development personnel are
12 consulted for comments on significant usage changes for the Company's large
13 customers which, when necessary, are included in the sales forecast. The forecast
14 seeks to limit subjectivity and typically relies on historical trends.

15 **Q. Please provide the forecast distribution deliveries, meter counts and use-per-**
16 **meter figures utilized in this COG filing and a comparison of this forecast to**
17 **weather normalized data for prior periods.**

18 A. I have prepared Table 1, below, which provides a summary of the company's forecast of
19 total billed distribution deliveries (Dth) for the upcoming 2022-2023 Annual Period.

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Table 1. 2022-2023 Annual New Hampshire Division Billed Distribution Service Volumes Forecast Compared to Prior Years

Month	2022-2023 Forecast	2021-2022 Weather-Normalized Actual	2022-2023 minus 2021-2022	Percent Change	2020-2021 Weather-Normalized Actual	2022-2023 minus 2020-2021	Percent Change
Nov	707,240	686,286	20,954	3.1%	681,275	25,964	3.8%
Dec	1,044,293	986,864	57,428	5.8%	1,006,190	38,102	3.8%
Jan	1,253,703	1,245,140	8,563	0.7%	1,185,985	67,718	5.7%
Feb	1,276,489	1,202,527	73,962	6.2%	1,216,725	59,764	4.9%
Mar	1,140,573	1,187,573	-47,001	-4.0%	1,153,597	-13,024	-1.1%
Apr	831,157	812,221	18,936	2.3%	800,853	30,304	3.8%
May	591,576	558,280	33,296	6.0%	598,944	-7,367	-1.2%
Jun	424,207	422,350	1,856	0.4%	396,066	28,141	7.1%
Jul	390,362	388,256	2,106	0.5%	399,523	-9,161	-2.3%
Aug	379,912	377,834	2,078	0.6%	365,908	14,004	3.8%
Sep	385,483	383,775	1,709	0.4%	366,793	18,691	5.1%
Oct	499,870	498,659	1,211	0.2%	475,230	24,640	5.2%
Winter	6,253,454	6,120,613	132,842	2.2%	6,044,625	208,830	3.5%
Summer	2,671,411	2,629,155	42,256	1.6%	2,602,464	68,947	2.6%
Annual	8,924,865	8,749,768	175,098	2.0%	8,647,089	277,776	3.2%

Forecast distribution deliveries are projected to increase 2.0% compared to the 2021-2022 weather-normalized actual sales. Page 1 of Attachment NUI-FXW-1 shows that the increase in sales is explained by a 2.3% projected increase in meter counts and a 0.3% decrease in projected average use per meter.

I provide a detailed review of Northern’s forecast of metered distribution deliveries, meter counts and use-per-meter calculations for the 2022-2023 Annual Period in Attachment NUI-FXW-1. Page 1 of Attachment NUI-FXW-1 provides total data for the New Hampshire Division. Pages 2, 3 and 4 provide data for non-heating residential rate class, heating residential rate class and commercial and industrial rate classes, respectively. The top section of each page provides the 2022-2023 Winter Period distribution deliveries forecast and a comparison of that forecast to actual, weather normalized data for the 2021-2022 and 2020-2021 Winter Periods. The changes in the distribution deliveries from the prior period are presented in terms of changes in meter counts and changes in use-per-meter. The middle section of each page presents forecasts and a comparison to prior period actual meter counts. The bottom section of each page of Attachment NUI-FXW-1 provides a calculation of the use-per-meter, which

1 has been calculated using the distribution deliveries and meter count data presented in
2 the top and middle sections of the page.

3 **Q. How does the Company allocate total distribution deliveries between Sales**
4 **Service and Delivery Service deliveries?**

5 A. For each rate class, the Company calculated the percentage of total distribution
6 deliveries that were attributable to Sales Service for the 12-month period May 2021
7 through April 2022. These percentages were used to estimate the percentage of billed
8 sales that would be supplied by the Company under Sales Service. Delivery Service
9 sales were allocated between Capacity Assigned and Capacity Exempt based on
10 monthly percentage of weather-normalized deliveries by rate class over the same 12-
11 month period.

12 **Q. Please summarize the Company's forecast of sales service deliveries and city-**
13 **gate receipts required to meet the projected sales service deliveries.**

14 A. I have prepared Table 2, below, which provides a summary of the Company's forecast of
15 Total Deliveries, Sales Service Deliveries, Company Managed Deliveries and City-Gate
16 Receipts¹ for the upcoming Winter Period.

¹ When I use the term "City-Gate Receipts", I refer to the volume of gas needed to be received by the distribution system in order to deliver the projected volumes of sales service. These volumes are measured at the Company's interconnections with Granite State Gas Transmission, an affiliated pipeline, and Maritimes and Northeast, L.L.C and the Company's LNG facility.

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Table 2. Distribution and Sales Service Deliveries & Required City-Gate Receipts Summary				
Month	Total Distribution Service Deliveries (Dth)	Sales Service Deliveries (Dth)	Company Managed Deliveries (Dth)	City-Gate Receipts (Dth)
Nov-22	892,002	469,181	22,530	496,306
Dec-22	1,128,540	677,718	24,499	708,855
Jan-23	1,291,829	799,512	28,481	835,824
Feb-23	1,144,769	685,333	21,637	713,683
Mar-23	1,056,868	582,909	23,281	611,900
Apr-23	739,448	336,088	0	339,380
May-23	503,741	186,357	0	188,183
Jun-23	398,215	120,723	0	121,906
Jul-23	395,168	103,147	0	104,158
Aug-23	396,846	104,010	0	105,029
Sep-23	407,549	115,370	0	116,500
Oct-23	569,892	232,948	0	235,230
Winter	6,253,454	3,550,740	120,428	3,705,948
Summer	2,671,411	862,556	0	871,006
Annual	8,924,865	4,413,297	120,428	4,576,954

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The detailed calculations can be found in Attachment NUI-FXW-2. On Pages 1 and 2 of Attachment NUI-FXW-2, I present calendar month and billed sales service deliveries by rate class. The Sales Service deliveries for each rate class were summed to determine the total Sales Service deliveries for the New Hampshire Division. An annual summary of the impact of migration by rate class can be found in Attachment NUI-FXW-19.

6

7

On Page 3 of Attachment NUI-FXW-2, I present my calculations of the city-gate receipts. First, I estimated Company Gas Allowance by multiplying the forecast Sales Service Deliveries and the Company Gas Allowance percentage. Company Gas Allowance includes both Company Use and Lost and Unaccounted For. The Company Gas Allowance Percentage was based on the recent history of actual data, which are presented in Attachment NUI-FXW-3. Finally, I added Northern's projection of Company Managed Sales pursuant to the New Hampshire Division's capacity assignment program.

14

15

Q. What are Company Managed Sales?

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1 A. Company Managed Sales are a form of Capacity Assignment. Capacity Assignment is a
2 means of transferring the demand cost responsibility for capacity contracts from
3 Northern to the retail marketers on its system. Whenever a retail marketer enrolls a
4 customer, who is “capacity assigned,” the retail marketer assumes cost and benefits of a
5 pro-rated portion of the capacity contracts entered into by Northern, subject to the
6 capacity assignment provisions of each division. These capacity contracts can include
7 interstate pipeline contracts, underground storage contracts and on-site peaking
8 facilities. Such transfer may be achieved by releasing capacity directly to the retail
9 marketer (“Capacity Release”), who may then purchase their own supplies and utilize
10 the released contracts to deliver supplies to their customers. Pursuant to Northern’s
11 Delivery Service Terms and Conditions for its New Hampshire Division, all upstream
12 pipeline and underground storage capacity that delivers to Northern’s system is
13 assigned via Capacity Release except for upstream pipeline and storage capacity
14 resources that require the Bay State Exchange Agreement. These excepted pipeline
15 and storage resources are assigned via Company Managed Supply. On-system
16 peaking capacity, such as Northern’s Lewiston LNG plant, is also assigned via Company
17 Managed Supply. Under the Company Managed Supply form of capacity assignment,
18 Northern bills the retail marketer for a pro-rated portion of these capacity resources at
19 their respective actual costs and offers a city-gate delivered supply service. Such city-
20 gate supplies are priced in accordance with the capacity assignment provisions of each
21 division. Such arrangements are known as “Company Managed Sales.”

22 **Q. Please explain the process used to project Company Managed Sales.**

23 A. Company Managed resources for the New Hampshire Division include pipeline
24 (specifically Iroquois Receipts and Algonquin Receipts capacity paths) and on-system
25 peaking resources (Lewiston LNG plant). The maximum daily volume of each Company

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1 managed resource was estimated based on the allocations presented in Attachment
2 NUI-FXW-6. Northern allows marketers to nominate their peaking Company managed
3 resources on a daily basis. In addition, marketers are required to purchase pipeline
4 baseload supplies that are associated with the Company Managed pipeline resources.
5 The Company Managed Sales forecast assumes that marketers will utilize all Pipeline
6 and Peaking Company-managed supply available to them under the capacity
7 assignment program.

8 **III. NORTHERN'S GAS SUPPLY PORTFOLIO**

9 **Q. Please provide an overview of the gas supply portfolio that the Company uses to**
10 **supply its Sales Service customers and meet Company Managed Supply**
11 **obligations.**

12 A. I have prepared Table 3, below, which provides an overview of the sources of supply
13 available to Northern through its portfolio of contracts, including transportation contracts,
14 storage contracts, baseload and peaking supply contracts and an exchange agreement
15 with Bay State Gas Company.

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Table 3. Northern Capacity Summary (Dth/Day)

<u>Pipeline Capacity Paths</u>	
Tennessee Zone 0 and Zone L Pools	13,109
Tennessee Niagara	2,327
Iroquois Receipts	6,434
Leidy Hub Supply (Texas Eastern, Algonquin)	965
Transco Zone 6, non-NY Supply (Algonquin)	286
PXP Dawn Hub	9,965
WXP Dawn Hub	9,965
Atlantic Bridge Ramapo	7,500
Total Pipeline Capacity	50,551
<u>Storage Capacity Paths</u>	
Tennessee Firm Storage	2,644
Dawn Hub Storage	39,863
Total Storage Capacity	42,507
<u>Peaking Capacity Paths</u>	
LNG - On-System	6,500
Peaking Contract 1	39,860
Peaking Contract 2	2,990
Additional Granite Capacity	436
Total Peaking Capacity	49,786
Total Design Day Capacity	142,844

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Table 3 presents a summary of the Pipeline, Storage and Peaking Capacity for the 2022-2023 Winter Period. Total Design Day Capacity is calculated by adding the total Pipeline, Storage and Peaking Capacity figures above.

Table 3 can also be found on page 1 of Attachment NUI-FXW-4. Subsequent pages of Attachment NUI-FXW-4 include capacity path diagrams and capacity path details for each of the supply sources listed above, showing the transportation, storage and supply contracts required to provide the Northern Capacity listed for each source of supply.

Northern's portfolio of transportation contracts includes contracts with Granite State Gas Transmission, Inc. ("GSGT" or "Granite"), Maritimes & Northeast Pipelines, L.L.C. ("MNUS" or "Maritimes"), Tennessee Gas Pipeline Company ("TGP" or "Tennessee"), Portland Natural Gas Transmission System ("PNGTS"), TransCanada Pipelines Limited

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1 (“TransCanada”), Enbridge Gas, Inc. (“Enbridge” or “Union”) , Algonquin Gas
2 Transmission Company (“Algonquin”), Iroquois Gas Transmission System, L.P.
3 (“Iroquois”) and Texas Eastern Transmission System, L.P. (“Texas Eastern” or
4 “TETCO”). The gas supply portfolio also includes long-term storage contracts with
5 Enbridge and Tennessee. Northern’s gas supply portfolio for 2022-2023 includes a
6 multi-year peaking contract (“Peaking Contract 1”) and a single-year peaking contract
7 (“Peaking Contract 2”). The multi-year peaking supply arrangement was procured
8 through a Request-For-Proposals (“RFP”) and has a delivery period November through
9 March for 4 years beginning November 2019. Peaking Contract 2 has a delivery period
10 from November through March for the 2022-2023 Winter Period. Peaking Contract 2
11 was procured via an RFP process that concluded in June 2022. Northern also owns and
12 operates a Liquefied Natural Gas (“LNG”) facility in Lewiston, ME, which Northern relies
13 on to produce 6,500 Dth per day with a storage capacity of approximately 12,000 Dth of
14 LNG. Also through an RFP Northern has procured an LNG Contract for up to 3,000 Dth
15 per day with an annual contract quantity of up to 75,000 Dth beginning November 2022
16 and ending October 2023 in order to supply this facility. The gas supply portfolio
17 includes an exchange agreement with Bay State Gas Company (“BSG Exchange” or
18 “Bay State Exchange Agreement”), which is needed to bring the Iroquois Receipts, Leidy
19 Hub Supply and Transco Zone 6, non-NY capacity path supplies into Northern’s system,
20 as the delivery points on these capacity paths are on the Bay State Gas Company
21 system.

22 The portfolio I used to project gas supply costs for the 2022-2023 winter season includes
23 the Westbrook XPress (“WXP”) project. Northern’s precedent agreement for the WXP
24 project was approved by the Commission in Docket No. DG 19-116. This supply source
25 is new to the portfolio for the 2022-2023 Annual Period.

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1 The capacity path diagrams and capacity path details in Attachment NUI-FXW-4 show
2 how Northern has combined its transportation, storage and peaking supply contracts,
3 along with the BSG Exchange, to move natural gas supplies from the sources of supply
4 listed in Table 3 to Northern's distribution system. Each of these contractual
5 arrangements represents a segment in one or more capacity paths. The capacity path
6 diagrams show how each segment in the path is interconnected within the path. The
7 capacity path details provide basic contract information, such as product (transportation,
8 storage, peaking supply or exchange), vendor, contract ID number, contract rate
9 schedule, contract end date, contract maximum daily quantity ("MDQ"), contract
10 availability (year-round or winter-only), receipt and delivery points of the contract and
11 interconnecting pipelines with the contract delivery point.

12 **Q. Please describe the Company's process for procuring its gas supply commodity**
13 **supplies.**

14 A. Northern's practice is to secure most of its gas supply and asset management services
15 through an annual RFP for terms beginning April 1 and running through March 31 each
16 year. In March Northern completed its annual RFP for the delivery period of April 1,
17 2022 through March 31, 2023. Northern has entered into asset management
18 agreements for the Atlantic Bridge Ramapo, Iroquois Receipts, Algonquin Receipts,
19 Niagara, Tennessee Zone 0/L, PXP Dawn Hub, WXP Dawn Hub and Dawn Hub Storage
20 capacity paths. Northern also entered into baseload supply agreements through this
21 RFP. Northern has also completed its RFP process for LNG supplies for the upcoming
22 winter.

23 **Q. Please describe any changes in Northern's portfolio for the upcoming 2022-2023**
24 **Annual Period compared to the portfolio relied upon for the 2021-2022 Annual**
25 **Period.**

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1 A. The following changes have been made to Northern's portfolio for the 2022-2023 Winter
2 Period.

3 1. WXP Dawn Hub Capacity Path is expected to commence November 1, 2022.

4 This will provide Northern with an additional 9,965 Dth of capacity from its system
5 back to the Dawn Hub. All Dawn Hub capacity (including Dawn Hub Storage,
6 PXP Dawn Hub and WXP Dawn Hub) is supplied through a single asset
7 management agreement and commodity cost projections provided in
8 Attachments NUI-FXW-8 and -9 present these capacity paths as a combined
9 resource, although each of the corresponding pipeline contracts are modeled
10 separately.

11 2. For the 2021-2022 Winter Period, Northern procured a short-term peaking supply
12 contract with a maximum daily quantity equal to 10,000 Dth per Day and
13 seasonal quantity equal to 300,000 Dth². For the 2022-2023 Winter Period, this
14 peaking supply has been replaced with Peaking Contract 2, which provides a
15 maximum daily quantity equal to 3,000 Dth and a seasonal quantity equal to
16 60,000 Dth. Additionally, PNGTS Delivered Baseload supplies of 2,500 Dth per
17 Day from December 2021 through February 2022 have not been replaced for the
18 2022-2023 Winter Period. Addition of the WXP Dawn Hub capacity to the
19 portfolio provides Northern the ability to reduce these peaking supply purchases.

20 3. For the 2021-2022 Winter Period, Northern targeted protecting 70 percent of its
21 November through March projected sendout requirements from NYMEX volatility.
22 Northern has implemented a Price Risk Mitigation Plan in response to the

² This peaking supply contract was referred to as "Peaking Contract 2" in the 2021-2022 Winter COG filing.

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1 volatility that has occurred in the last year. Under the Price Risk Mitigation Plan,
2 Northern has updated this target to 75 percent of its November through March
3 projected sendout requirements. In addition to normal underground storage
4 inventory purchases, conversions of pipeline purchases for November through
5 March delivery from variable NYMEX prices to fixed NYMEX prices took place in
6 four blocks from June through September. Northern has completed each of
7 these four blocks prior to the initial filing in this proceeding.

- 8 4. Effective April 1, 2023, Northern will increase the maximum storage balance of its
9 Enbridge Dawn Storage from 4,000,000 Dth to 6,000,000 Dth. The new storage
10 contract (Contract No. LST155) has a five year term. Increased storage capacity
11 will allow the Company to rely less on baseload supplies to meet its 75 percent
12 target for supplies protected from increases in NYMEX prices beginning the
13 2023-2024 Winter Period and beyond.

14 **Q. Please provide an overview of Northern's Price Risk Mitigation Plan.**

15 A. In response to the sharp increases and volatility observed during the pendency of
16 Northern's 2021-2022 Annual Period COG filing, Northern locked in the NYMEX portion
17 of its physical supply contracts to achieve a 70 percent hedged from further NYMEX
18 volatility. I prepared Supplemental Testimony in this proceeding for the purpose of
19 explaining this action taken to mitigate the risk of COG rate increases to Northern's
20 customers during the 2021-2022 Winter Period increases. In that Supplemental
21 Testimony, I explained that Northern would develop a plan on how its procurement
22 process may need to be modified to protect against price volatility in the future. Northern
23 developed its Price Risk Mitigation Plan ("Plan") during the spring of 2022. The Plan is
24 summarized in Figure 1, below.

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Figure 1. Summary of Price Risk Mitigation Plan	
Goals and Objectives:	Northern’s objective is to mitigate the risk of significant mid-Winter Period Cost of Gas increases and to provide improved price certainty for customers during the Winter Season when usage is highest, while maintaining a high level of portfolio flexibility to respond to changes in demand due to weather, retail choice and other factors.
Target Ratio:	Northern plans to hedge 75 percent (“Target Ratio”) of November through March projected volumes against increases in NYMEX prices. The Target Volume will be determined by multiplying Northern’s projected sales service volumes times the Target Ratio.
Contracting Process:	Northern plans to utilize physical gas purchases to implement NYMEX hedges, in the form of underground storage and physical gas purchases under which the NYMEX portion of the price is fixed in advance of the Winter Season. The volume of physical gas purchases with fixed NYMEX pricing will be determined by subtracting underground storage deliverability from the Target Volume.
Timing:	Northern plans no changes to its current underground storage injection practices ³ . NYMEX price locks under the Plan for baseload pipeline supplies would be implemented in 4 monthly blocks during June through September and be completed prior to the update in the Winter CGF filing such that all fixed price supply is reflected in the final approved CGF rates.
New England Spot Price Exposure:	In addition to the changes discussed above, Northern will continue to limit exposure to daily New England spot prices, including the Algonquin city-gates and Tennessee Zone 6 daily index prices.

1

2

In accordance with the Maine PUC Order in Docket No. 2021-00249, Northern filed

3

testimony in Maine on May 6, 2022, which explained the Plan and described the analysis

4

it used to formulate the Plan. At a high level, Northern analyzed the probability of a

5

major mid-season cost of gas rate increase at various levels of NYMEX hedging, utilizing

³ Enbridge Dawn storage injection occurs April through September. Tennessee FS-MA storage injection occurs April through October.

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1 Monte Carlo sampling of NYMEX prices, and used this analysis to help guide what level
2 of hedging could provide reasonable protection from major mid-season Cost of Gas rate
3 increases while maintaining a high level of portfolio flexibility to respond to changes in
4 demand due to weather, retail choice and other factors

5 **Q. Please provide an update on the Atlantic Bridge (“AB”) Project.**

6 A. The AB project was subject to additional process established by an Order Establishing
7 Briefing issued by the FERC on February 19, 2021 in Docket No. CP16-9 (“Briefing
8 Order”). FERC’s Briefing Order stated that in response to a request for rehearing of its
9 September 24, 2020 order authorizing Algonquin Gas Transmission, LLC (“Algonquin”)
10 to place the Weymouth Compressor Station into service and “numerous other pleadings
11 expressing safety concerns regarding the operation of the project,” the FERC
12 determined that “concerns raised regarding the operation of the project warrant further
13 consideration by the Commission.” The Briefing Order specifically requested that parties
14 address whether it is consistent with the Natural Gas Act to allow the Weymouth
15 Compressor Station to remain in service, whether the FERC should reconsider the
16 current operation of the Weymouth Compressor Station in light of changed
17 circumstances, whether the FERC should impose additional mitigation measures on
18 Weymouth Compressor Station and what the consequences would be if the FERC
19 reversed or stayed the Authorization Order. The Briefing Order permitted Weymouth
20 Compressor Station to remain in service while the FERC considers these issues. Initial
21 and Reply Briefs were filed pursuant to the Briefing Order.

22 The Briefing Order, itself, had been challenged in federal court with Algonquin
23 challenging the FERC’s authority to consider any changes to its authority to modify the
24 operation of the Weymouth Compressor Station. On January 20, 2022, the FERC
25 terminated the Briefing Order.

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1 However, numerous legal challenges to the Weymouth Compressor Station remain both
2 at the federal and state levels. These include challenges to the FERC Certificate and
3 challenges to the Massachusetts waterways permit. Success of any of these legal
4 challenges could result in the loss of availability of Atlantic Bridge Ramapo capacity path
5 supplies.

6 Northern's supply plan and corresponding estimated cost of gas supply assumes
7 continued operation of the Weymouth Compressor Station, which is necessary to ship
8 supplies from the Algonquin system into the Maritimes system for ultimate delivery to
9 Northern. Should Atlantic Bridge supplies become unavailable during the 2022-2023
10 Winter Period, Northern would attempt to replace this supply with delivered supplies as
11 needed.

12 **IV. GAS SUPPLY COST FORECAST**

13 **Q. Please provide an overview of the Company's estimated gas supply costs that you**
14 **provided to Mr. Kahl to calculate the 2022-2023 Winter and 2023 Summer COG**
15 **rates.**

16 A. I have provided Mr. Kahl the following cost estimates for the period beginning November
17 2022 through October 2023, which he used to calculate the proposed COG.

- 18 • Northern's fixed demand costs, including revenue offsets due to capacity
19 release and asset management activities
- 20 • New Hampshire Division Capacity Assignment program demand revenues
- 21 • Northern's commodity costs

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1 The allocation of Northern’s supply costs to the New Hampshire Division was performed
2 by Mr. Kahl. The figures I present in my testimony relate to total company costs,
3 inclusive of both the Maine and New Hampshire Divisions.

4 **Q. Please provide Northern’s demand cost forecast.**

5 A. Please refer to Table 4, below, titled, “Estimated Gas Supply Demand Costs.”

Table 4. Estimated Gas Supply Demand Costs November 1, 2022 through October 31, 2023			
Line	Description	Amount	Reference
1.	Pipeline Demand Costs	\$ 24,102,032	Att NUI-FXW-5, Page 3 - Pipeline Allocated Cost
2.	Storage Allocated Pipeline Demand Costs	\$ 21,827,803	Att NUI-FXW-5, Page 3 - Storage Allocated Cost
3.	Storage Demand Costs	\$ 4,206,606	Att NUI-FXW-5, Page 4 - Annual Fixed Charges
4.	Peaking Allocated Pipeline Demand Costs	\$ 1,598,890	Att NUI-FXW-5, Page 3 - Peaking Allocated Cost
5.	Peaking Contract Costs	\$ 11,428,417	Att NUI-FXW-5, Page 5, Annual Fixed Charges
6.	Asset Management and Capacity Release Revenue	\$ (20,934,600)	Att NUI-FXW-5, Page 6 - T total Asset Management and Capacity Release Revenue
7.	Total Demand Costs	\$ 42,229,147	Sum Lines 1 through 6.

6

7 I present the detailed calculations of this demand cost forecast in Attachment NUI-FXW-
8 5. Page 1 of Attachment NUI-FXW-5 provides the summary data presented here in
9 Table 4. On page 2 of Attachment NUI-FXW-5, I have calculated the annual demand
10 cost forecast for Northern’s portfolio of transportation contracts. On page 3 of
11 Attachment NUI-FXW-5, I designate each transportation contract as a pipeline, storage
12 or peaking resource and allocate transportation costs based upon these designations.
13 Pages 4 and 5 of Attachment NUI-FXW-5 provide my calculations of demand costs for
14 storage and peaking supply contracts, respectively. On page 6 of Attachment NUI-FXW-
15 5, I forecast the capacity release and asset management revenue the Company expects
16 to receive. Support for the transportation, storage and supply demand rates used in
17 Attachment NUI-FXW-5 are found in the Attachment NUI-FXW-10, Supplier Prices.

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1 **Q. How does the 2022-2023 Winter COG forecasted annual demand cost compare**
2 **with the 2021-2022 Winter COG forecasted annual demand cost?**

3 A. 2021-2022 Winter COG forecasted annual demand costs were equal to \$46,657,517.
4 2022-2023 Winter COG forecasted annual demand costs are equal to \$42,229,147,
5 reflecting a decrease in forecasted annual demand costs equal to \$4,428,370 or 9%.

6 The majority of the change in projected demand cost is explained by the following.

7 1. Increase in projected Asset Management Agreement revenue by \$11,032,500. Higher
8 AMA revenue reflects the results of Northern's annual request-for-proposals process,
9 reflecting higher overall value obtained through asset management agreements.

10 2. The increase in projected Asset Management Agreement revenue is partially offset by
11 increases in Pipeline, Storage and Peaking Supply Contract costs equal to \$6,604,130.

12 Pipeline capacity contract cost estimates increased \$5,326,412 due mostly to the
13 addition of WXP capacity contracts and an anticipated increase in Granite demand rates.
14 Higher Storage capacity contract cost estimates increased \$1,246,968 due to increasing
15 Enbridge Dawn Hub storage volumes and demand rates in the new storage contract
16 beginning April 1, 2023. Peaking Supply Contract cost estimates increased \$30,750 due
17 to the increased LNG Contract demand costs as a result of the annual RFP for LNG
18 supply.

19 **Q. Please provide Northern's forecast of Capacity Assignment Demand Revenues for**
20 **the New Hampshire Division.**

21 A. When a retail marketer enrolls one of Northern's New Hampshire Division customers,
22 the retail marketer is assigned a portion of Northern's capacity. I present the detailed
23 calculations of the demand revenues from capacity assignment in Attachment NUI-FXW-
24 6. On page 1 of Attachment NUI-FXW-6, I present a summary of the Company's

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1 forecast of New Hampshire Division capacity assignment demand revenues. On pages
2 2 through 6 of Attachment NUI-FXW-6, I present the Company's detailed calculations for
3 each component of capacity assignment, itemized on page 1 of Attachment NUI-FXW-6.
4 The 2022-2023 Capacity Assignment Demand Revenue for the New Hampshire Division
5 is projected to be \$5,457,743.

6 **Q. Have you calculated the proposed Peaking Service Demand Charge to be billed to**
7 **retail marketers for the period November 2022 through April 2023?**

8 A. Yes. The calculation of Peaking Service Demand Charge rate is provided on page 6 of
9 Attachment NUI-FXW-6. The proposed Peaking Service Demand Charge is equal to
10 \$72.72 per Dth, as shown in Attachment NUI-FXW-6 and presented in the proposed
11 revised Appendix A to the Delivery Service Terms and Conditions. Please note that the
12 Peaking Service Demand Charge applies only to capacity assignment pertaining to the
13 on-system LNG plant.

14 **Q. Please provide the Capacity Allocation Factors to be used for Capacity**
15 **Assignment under the current New Hampshire Division Delivery Service tariff for**
16 **effect November 1, 2022.**

17 A. The Capacity Allocation Factors are provided in the proposed tariff sheet, Appendix C to
18 the New Hampshire Division's Delivery Service Terms and Conditions. My calculations
19 are provided in Attachment NUI-FXW-7. These Capacity Allocation Factors reflect a
20 Capacity Ratio equal to 0.946, which is equal to Total Design Day Capacity of 142,844
21 Dth divided by the Total Design Day Planning Load (inclusive of both Maine and New
22 Hampshire) of 151,040 Dth.

23 **Q. Please describe Northern's process for forecasting commodity costs.**

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1 A. I base the Company's commodity cost forecast on Northern's projected city-gate receipts
2 for sales service customers, which I calculated in Attachment NUI-FXW-2, and the
3 supply sources available to Northern, which I presented in Attachment NUI-FXW-4. I
4 forecast supply prices at each supply source, utilizing NYMEX natural gas contract price
5 data and a forecast of the adder to NYMEX for the price of supply at each supply source
6 available to Northern through its portfolio. To the extent that Northern's supply contract
7 for a particular supply source provides for a fixed adder to the NYMEX Last Day
8 Settlement, the contract prices are used to forecast the adder. If Northern's supply
9 contract for a particular supply source does not provide for a fixed adder to the NYMEX
10 Last Day Settlement, an estimate of the adder is based on the basis futures prices,
11 through the Intercontinental Exchange ("ICE"). I also forecast variable fuel retention
12 factors and rates for Northern's transportation and storage contracts. Then, I utilized the
13 PLEXOS[®] natural gas supply cost model to determine the optimal use of Northern's
14 natural gas supply resources to meet its projected city-gate requirements.⁴

15 As discussed previously, Northern has completed NYMEX price locks on 4 monthly
16 blocks to achieve a target ratio of hedged NYMEX supplies to total supplies of 75
17 percent (the "Target Ratio"). The effect of these price locks were accounted for after the
18 PLEXOS[®] model run was completed.

19 **Q. Please present the Company's commodity cost forecast for the 2021-2022 Annual**
20 **Period.**

⁴ PLEXOS is an energy optimization software package, which was developed by Energy Exemplar. In April 2021, Unitil contracted for the use of PLEXOS to update and replace the functionality the Company had previously utilized Sendout[®] to perform. Unitil ended its service agreement for Sendout[®] in October 2021.

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1 A. I have summarized Northern’s commodity cost forecast for the upcoming Winter and
2 Summer Period in Tables 5 and 6, respectively.

Table 5. Estimated Delivered City-Gate Commodity Costs and Volumes November 2022 through April 2023			
Supply Source	Delivered City-Gate Costs	Delivered City-Gate Volumes	Delivered Cost per Dth
Base Pipeline Resources	\$ 54,005,233	6,035,977	\$ 8.947
Storage Resources	\$ 24,862,476	3,347,592	\$ 7.427
Peaking Resources	\$ 5,679,104	254,522	\$ 22.313
Total Commodity Costs	\$ 84,546,814	9,638,091	\$ 8.772

Table 6. Summer Period Estimated Delivered City-Gate Commodity Costs and Volumes May 2022 through October 2022			
Supply Source	Summer Period Delivered City-Gate Costs	Summer Period Delivered City-Gate Volumes	Summer Period Delivered Cost per Dth
Pipeline Resources	\$ 12,986,496	2,723,230	\$ 4.769
Storage Resources	\$ -	-	
Peaking Resources	\$ 520,772	11,040	\$ 47.171
Total Commodity Costs	\$ 13,507,267	2,734,270	\$ 4.940

4
5 In summary, Winter Period net projected delivered commodity costs equal approximately
6 \$84.5 million at an average delivered rate of \$8.772 per Dth, and Summer Period net
7 projected delivered commodity costs equal approximately \$13.5 million at an average
8 delivered rate of \$4.940 per Dth. In support of this forecast, I prepared Attachment NUI-
9 FXW-8 to show the monthly forecasted commodity cost by supply option. Page 1 of
10 Attachment NUI-FXW-8 provides forecasted delivered variable costs, including
11 commodity charges, transportation fuel charges, and transportation variable charges by
12 supply option. Page 2 of Attachment NUI-FXW-8 provides monthly delivered volumes
13 (Dth) by supply source. Finally, Page 3 provides monthly delivered cost per Dth by
14 supply source. Each page provides summary data for all supply sources. Attachment
15 NUI-FXW-12 provides a seasonal summary of each supply source for Winter and
16 Summer Periods, ranked by average delivered commodity cost.
17

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1 The detailed calculations of the delivered commodity cost are found in Attachment NUI-
2 FXW-9. For each supply source, I have provided the detailed monthly calculations for
3 supply cost, fuel losses and variable transportation charges, which will be incurred by
4 Northern to deliver its supplies to Northern's city-gates for ultimate consumption by our
5 customers. Support of the supply prices and variable transportation charges found in
6 Attachment NUI-FXW-9 are found in the Attachment NUI-FXW-10, Supplier Prices.
7

8 **Q. How do forecasted commodity costs for the 2022-2023 Winter Period (November**
9 **through April) compare with the forecasted commodity costs presented for the**
10 **2021-2022 Winter Period COG?**

11 A. As show in Table 5, above, the 2021-2022 Winter Period COG forecasted commodity
12 costs are equal to \$84,546,814 at an average delivered rate of \$8.772 per Dth. The
13 2021-2022 Winter Period COG forecasted commodity costs were equal to \$53,379,334
14 an average delivered rate of \$5.339 per Dth. Overall, 2022-2023 forecasted Winter
15 Period commodity costs are 58% higher than 2021-2022 forecasted Winter Period costs
16 due primarily to a 64% increase in projected average unit cost. The 2022-2023
17 projected delivered volume is 4% lower than was projected in 2021-2022. Projected
18 NYMEX prices are 44% higher at the time of this 2022-2023 Annual Period COG filing
19 (averaging \$7.32 per Dth), compared to projected NYMEX prices at the time of last
20 year's 2020-2021 Annual Period COG filing (averaging \$5.08 per Dth). The Company's
21 unit cost forecast reflects these higher NYMEX prices. The projected average unit cost
22 also reflects an increase in peaking supply commodity costs. Commodity rates for the
23 short-term peaking supplies, specifically the LNG Contract and Peaking Contract 2 are
24 significantly higher than the peaking supply commodity costs utilized for the 2021-2022
25 Winter Period. Addition of WXP Dawn Hub capacity to the portfolio mitigates the impact

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1 of these significantly higher commodity rates for peaking supplies by reducing the overall
2 need for peaking supply.

3 **Q. Please describe some of the factors that are impacting the increase in NYMEX**
4 **natural gas prices for the 2022-2023 Winter Period relative to prior winter periods.**

5 A. A number of factors contribute to the current high NYMEX prices.

- 6 1. An increase in LNG exports from the United States due to increased LNG
7 liquefaction capabilities at a time when demand for LNG in both Europe and Asia
8 are at historic highs.
- 9 2. High demand for natural gas from the power sector due to higher than normal
10 temperatures nationally and a decreasing ability for the power sector to switch to
11 coal because of higher coal prices and lower coal-fired generation capability
12 nationally, as the U.S. transitions to cleaner power supply sources.
- 13 3. Domestic supplies have been slower to increase in response to higher demand
14 and higher prices than they have in the past. This has been attributed to less
15 aggressive investment by natural gas producers to increase supplies due to a
16 focus on returning cash flow to investors rather than on deploying that cash flow
17 to increase production. Another contributing factor to slower production growth
18 has been the slower pace of regulatory review of pipeline expansion capacity
19 needed to connect new supplies to the market.
- 20 4. These factors have resulted in consistently lower U.S. storage inventory volumes
21 relative to last year and the five-year average. Combined, these factors have
22 resulted in higher, more volatile NYMEX pricing than had been observed in
23 recent years.

24 **Q. Please provide a summary of Northern's projected hedge ratio relative to the**
25 **Target Ratio in Northern's Price Risk Mitigation Plan.**

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1 A. Northern's projected supply volume for November 2022 through March 2023 is
2 8,606,982 Dth. Supplies that are not subject to NYMEX fluctuations during this period
3 total 6,717,592 Dth, which is 78%, slightly higher than the 75% Target Ratio. Fixed
4 supplies are comprised of 3,347,592 Dth of underground storage fixed price supplies,
5 3,310,000 Dth of NYMEX hedged baseload supplies and 60,000 Dth (Peaking Contract
6 2) of fixed peaking supplies. All 3,310,000 Dth of NYMEX hedged baseload supplies are
7 currently locked.

8 **Q. Please summarize the NYMEX price locks executed under the Price Risk**
9 **Mitigation Plan for the 2022-2023 Winter Period to date.**

10 A. Table 7, below, summarizes the price locks that have been entered to date. Currently,
11 these price locks compare favorably to the NYMEX price utilized for the commodity price
12 estimates I have provided. However, as stated in the Price Risk Mitigation Plan, the goal
13 and objectives of the Price Risk Mitigation Plan are to provide greater cost certainty
14 while maintaining flexibility needed to meet customer demands in a reliable fashion.

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Table 7. NYMEX Price Locks					
Item	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23
Block 1 Nov-Mar NYMEX Lock Volume	75,000	77,500	77,500	70,000	77,500
Block 1 Nov-Mar NYMEX Lock Price	\$ 8.610	\$ 8.610	\$ 8.610	\$ 8.610	\$ 8.610
Block 1 Nov-Mar NYMEX Lock Cost	\$ 645,750	\$ 667,275	\$ 667,275	\$ 602,700	\$ 667,275
Block 1 Dec-Feb NYMEX Lock Volume		155,000	155,000	140,000	
Block 1 Dec-Feb NYMEX Lock Price		\$ 8.800	\$ 8.800	\$ 8.800	
Block 1 Dec-Feb NYMEX Lock Cost		\$ 1,364,000	\$ 1,364,000	\$ 1,232,000	
Block 2 Nov-Mar NYMEX Lock Volume	75,000	77,500	77,500	70,000	77,500
Block 2 Nov-Mar NYMEX Lock Price	\$ 5.660	\$ 5.660	\$ 5.660	\$ 5.660	\$ 5.660
Block 2 Nov-Mar NYMEX Lock Cost	\$ 424,500	\$ 438,650	\$ 438,650	\$ 396,200	\$ 438,650
Block 2 Dec-Feb NYMEX Lock Volume		155,000	155,000	140,000	
Block 2 Dec-Feb NYMEX Lock Price		\$ 5.830	\$ 5.830	\$ 5.830	
Block 2 Dec-Feb NYMEX Lock Cost		\$ 903,650	\$ 903,650	\$ 816,200	
Block 3 Nov-Mar NYMEX Lock Volume	75,000	77,500	77,500	70,000	77,500
Block 3 Nov-Mar NYMEX Lock Price	\$ 7.460	\$ 7.460	\$ 7.460	\$ 7.460	\$ 7.460
Block 3 Nov-Mar NYMEX Lock Cost	\$ 559,500	\$ 578,150	\$ 578,150	\$ 522,200	\$ 578,150
Block 3 Dec-Feb NYMEX Lock Volume		155,000	155,000	140,000	
Block 3 Dec-Feb NYMEX Lock Price		\$ 7.765	\$ 7.765	\$ 7.765	
Block 3 Dec-Feb NYMEX Lock Cost		\$ 1,203,575	\$ 1,203,575	\$ 1,087,100	
Block 4 Nov-Mar NYMEX Lock Volume	75,000	77,500	77,500	70,000	77,500
Block 4 Nov-Mar NYMEX Lock Price	\$ 8.350	\$ 8.350	\$ 8.350	\$ 8.350	\$ 8.350
Block 4 Nov-Mar NYMEX Lock Cost	\$ 626,250	\$ 647,125	\$ 647,125	\$ 584,500	\$ 647,125
Block 4 Dec-Feb NYMEX Lock Volume		155,000	155,000	140,000	
Block 4 Dec-Feb NYMEX Lock Price		\$ 8.650	\$ 8.650	\$ 8.650	
Block 4 Dec-Feb NYMEX Lock Cost		\$ 1,340,750	\$ 1,340,750	\$ 1,211,000	
Total NYMEX Lock Volume	300,000	930,000	930,000	840,000	310,000
Weighted Average NYMEX Lock Price	\$ 7.520	\$ 7.681	\$ 7.681	\$ 7.681	\$ 7.520
Total NYMEX Lock Cost	\$ 2,256,000	\$ 7,143,175	\$ 7,143,175	\$ 6,451,900	\$ 2,331,200
Current NYMEX (September 7, 2022)	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705
Hedging Impact on Cost of Gas	\$ (114,300)	\$ (329,375)	\$ (403,775)	\$ (115,220)	\$ 252,650

Since these fixed price NYMEX hedges are incorporated into Northern's physical supply contracts, these overall block purchases are allocated to individual contracts.

Specifically, Dawn Hub, Tennessee Long-Haul, Iroquois Receipts, Niagara and Atlantic Bridge supply contracts have been amended to reflect these NYMEX hedge prices. Details of the allocations can be seen in Attachment NUI-FXW-9 for these individual contracts.

Q. Please explain some of the factors that are impacting the increase leading to significantly higher peaking supply commodity prices.

A. When New England natural gas demand exceeds the capacity of the pipeline system connecting New England to North American supplies, supply must be supplemented by

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1 imported LNG to meet all demand. New England as a whole, including Northern, is
2 reliant upon imported LNG to reliably meet demand for natural gas during periods of cold
3 weather. Therefore, peaking supply contracts (including those in Northern's portfolio)
4 are sourced on imported LNG. The global LNG market has been seen extremely high
5 prices, especially since the disruption of the supply of gas from Russia into Europe
6 caused by the Russian invasion of Ukraine, has caused European countries to seek
7 replacement of Russian pipeline gas supply with imported LNG, which has resulted in
8 extremely high prices in Europe. In order to attract LNG cargoes to New England to
9 provide peaking service, the price must be attractive relative to high European and Asian
10 markets for LNG, which currently exceed \$50 per Dth for November through March
11 deliveries.

12 **Q. How do forecasted commodity costs for the 2023 Summer Period (May through**
13 **October) compare with the forecasted commodity costs presented for the 2022**
14 **Summer Period COG?**

15 A. As show in Table 6, above, the 2023 Summer Period COG forecasted commodity costs
16 are equal to \$13,507,267 at an average delivered rate of \$4.940 per Dth. The 2022
17 Summer Period COG forecasted commodity costs were equal to \$10,424,440 at an
18 average delivered rate of \$3.470 per Dth. Overall, 2023 forecasted Summer Period
19 commodity costs at the time of this 2022-2023 Annual Period COG Filing are 30% higher
20 than 2022 forecasted Summer Period costs at the time of last year's 2021-2022 Annual
21 Period COG Filing due to a 42% increase in projected average unit cost and a 9%
22 decrease in projected delivered volumes. Projected NYMEX prices are 38% higher for
23 the 2023 Summer Period (averaging \$5.33 per Dth), compared to projected NYMEX for
24 the 2022 Summer Period (averaging \$3.86 per Dth). The Company's unit cost forecast
25 reflects these higher NYMEX prices.

**Prefiled Testimony of Francis X. Wells
Annual Period 2022-2023 COG Filing
Page 28 of 30**

1 **Q. Please provide a summary of capacity utilization by supply source projected for**
2 **the upcoming year.**

3 A. Please refer to Attachments NUI-FXW-13, -14, -15 and -16. Attachment NUI-FXW-13
4 provides monthly supply volumes for Northern's normal year weather scenario. The
5 data in Attachment NUI-FXW-13 is also found in Attachment NUI-FXW-8. Attachment
6 NUI-FXW-14 provides monthly supply volumes for Northern's design cold year weather
7 scenario. Attachment NUI-FXW-15 calculates the capacity utilization of all supply
8 resources under the normal weather scenario. Attachment NUI-FXW-16 calculates the
9 capacity utilization of all supply resources under the design cold weather scenario.

10 **Q. Please provide Northern's Design Day Report for the upcoming Winter Period.**

11 A. Northern's Design Day Report is found in Attachment NUI-FXW-17.

12 **Q. Please provide Northern's 7-Day Cold Snap Analysis for the upcoming Winter**
13 **Period.**

14 A. Northern's 7-Day Cold Snap Analysis is found in Attachment NUI-FXW-18.

15 **Q. Please provide the Company's monthly projections of storage inventory balances**
16 **for the period November 2022 through October 2023.**

17 A. These results are based upon the Company's PLEXOS® analysis, which I provided to
18 Mr. Kahl, and are the basis for his calculations in Attachment NUI-CAK-7.

19 **V. PROPOSED RE-ENTRY AND CONVERSION SURCHARGES**

20 **Q. Please describe the Re-entry Surcharge and the Conversion Surcharge.**

21 A. The Re-entry Surcharge is applicable to all Capacity Assigned Delivery Service
22 customers who switch from a retail marketer to Northern's Sales Service, and the

**Prefiled Testimony of Francis X. Wells
Annual Period 2022-2023 COG Filing
Page 29 of 30**

1 Conversion Surcharge is applicable to all Capacity Exempt Delivery Service customers
2 who switch from a retail marketer to Northern's Sales Service. I have prepared
3 proposed updated Re-entry and Conversion Surcharges to be effective for the 2022-
4 2023 Winter Period. Customers electing to migrate and purchase their supply from
5 Northern shall be required to continue purchasing Northern's Sales Service until April 30,
6 2023. After this time, such customers may elect to either switch to a retail marketer or
7 continue purchasing Sales Service from Northern under the normal cost of gas rates.

8 **Q. Please provide the proposed Re-entry Surcharge and the proposed Conversion**
9 **Surcharge.**

10 A. Proposed Appendix D to the Delivery Service Terms and Conditions, provides the Re-
11 entry Surcharge and the Conversion Surcharge. The Re-entry Surcharge and
12 Conversion Surcharge will be applied as a surcharge in addition to the normal cost of
13 gas rates. These surcharges shall only be applicable to customers switching from
14 Delivery Service to Sales Service.

15 **Q. Please provide your calculations for the Re-entry Surcharge and the Conversion**
16 **Surcharges.**

17 A. Please refer to Attachment NUI-FXW-11. Page 1 shows the Re-entry Surcharge and
18 Conversion Surcharge calculations. The Re-entry surcharge reflects the removal of any
19 prior period credits, such as an over-recovery due to incumbent Sales Service
20 Customers. The Conversion Surcharge reflects the removal of prior period credits due
21 to incumbent Sales Service customers plus the incremental cost to serve the customers,
22 based on estimated incremental commodity prices. Conversion customers will have a
23 floor price equal to the COG for Low Load Factor customers, removing prior period
24 credits.

Prefiled Testimony of Francis X. Wells
Annual Period 2022-2023 COG Filing
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1 Page 2 is the Incremental Commodity Price Worksheet. Pages 3 through 9 are the Load
2 Shape Price Factor Worksheet. Page 10 is the projected city-gate sendout forecast of
3 Delivery Service loads that are not currently subject to Capacity Assignment.

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

5 A. Yes it does.

**NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
NOVEMBER 2022/OCTOBER 2023 ANNUAL COST OF GAS
ADJUSTMENT FILING
PREFILED 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 Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 2 of 12**

1 **II. PURPOSE OF TESTIMONY**

2 **Q. What is the purpose of your testimony in this proceeding?**

3 A. The purpose of my testimony is to introduce and describe Northern's (or "the Company")
4 proposed changes to its Local Delivery Adjustment Charges ("LDAC"). Northern is
5 proposing changes to its LDAC for effect November 1, 2022 for the following
6 components: Gas Assistance Program ("GAP"), Environmental Response Cost ("ERC")
7 Rate, Lost Revenue Rate ("LRR"), Rate Case Expense ("RCE"), Reconciliation of
8 Permanent Changes ("RPC") in Distribution Rates, Property Tax Adjustment Mechanism
9 ("PTAM") and Regulatory Assessment Adjustment Mechanism ("RAAM"). Northern is
10 not proposing to change the following LDAC components: Interruptible Transportation
11 Margin (ITM)¹ and Energy Efficiency Charge ("EEC"). The Company will file a
12 proposed January 1, 2023 EEC on December 1, 2022 in accordance with HB 549. My
13 testimony also discusses the impact the proposed cost of gas (COG) and LDAC rate
14 changes have on customer bills during the 2022-2023 Winter and 2023 Summer Seasons.

15
16 **Q. What are the Company's proposed LDAC surcharges?**

17 A. The Company is submitting for approval a proposed LDAC of \$0.1845 per therm for the
18 Residential Class and \$0.0488 per therm for the Commercial/Industrial (C&I) Class
19 effective November 1, 2022 through October 31, 2023. The proposed rates are included
20 on the Ninth Revised Tariff Page 62, superseding the Eighth Revised Tariff Page 62. The

¹ The Company did not provide Interruptible Transportation service during the past year, has not provided this service for many years and does not expect to provide any in the upcoming year. Therefore, Northern has not credited any actual or expected interruptible margins back to customers.

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 3 of 12**

1 table below summarizes the rate changes proposed in this filing. Residential customers
2 will see an increase of \$0.1034 in LDAC charges, driven primarily by the RPC. C&I
3 customers will see a decrease in LDAC charges of \$0.0011, the C&I specific RPC is
4 offset by PTAM and RAAM 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	\$0.0043	\$0.0043
RPC – Residential	\$0.0000	\$0.1206	\$0.1206
PTAM	\$0.0135	\$0.0000	(\$0.0135)
RAAM	<u>\$0.0027</u>	<u>\$0.0002</u>	(\$0.0025)
Total Difference Residential	\$0.0317	\$0.1346	\$0.1029
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	\$0.0043	\$0.0043
RPC – C&I	\$0.0000	\$0.0101	\$0.0101
PTAM	\$0.0135	\$0.0000	(\$0.0135)
RAAM	<u>\$0.0027</u>	<u>\$0.0002</u>	(\$0.0025)
Total Difference C&I	\$0.0257	\$0.0241	(\$0.0016)

5

6 **III. DISCUSSION OF RATE CHANGES BY LDAC COMPONENT**

7 **Q. Please describe the purpose of the GAP.**

8 A. The purpose of this rate is to allow the Company to recover revenue discounts associated
9 with customers participating in the Gas Assistance Program (GAP), as well as the
10 associated administrative costs of that program, pursuant to the Commission’s Order in
11 Docket No. DG 05-076. The GAP recovers a 45% discount to both distribution and

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 4 of 12**

1 supply rates, excluding the LDAC, during the winter period only, in accordance with the
2 Commission's Order in Docket DG 20-013, effective November 1, 2020. The GAP rate is
3 charged on all sales and delivery only services billed under the Company's rate
4 schedules.

5

6 **Q. Please describe the proposed change to the GAP rate.**

7 A. Northern is proposing to increase the GAP rate from \$0.0033 to \$0.0037 per therm
8 effective November 1, 2022.

9

10 **Q. Could you describe the derivation of the proposed GAP rate?**

11 A. The GAP rate is derived by estimating the Company's Gas Assistance Program costs
12 from November 1, 2022 through October 31, 2023, and the total account ending balance
13 as of October 31, 2022, based on actual data through July, 2022 and estimated data from
14 August 1, 2022 to October 31, 2023. As shown on Attachment NUI-SED-1 GAP, Page 1
15 of 3, Line 12, total estimated costs are \$388,236. Lines 1-7 provide the derivation of the
16 average per customer subsidy.

17 Lastly, the projected October 31, 2022 ending balance of the GAP is an over-collection
18 of \$100,872, as shown on Attachment NUI-SED-1 GAP, Page 2 of 2. The total recovery
19 amount, \$287,364, is shown on Page 1 of 2, line 15, of Attachment NUI-SED-1 GAP,
20 and is divided by estimated weather-normalized firm therm sales billed to customers for
21 the twelve-months ended October 31, 2023 to derive the proposed GAP charge of
22 \$0.0037 per therm shown on Page 1 of 3, line 21.

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 5 of 12**

1 **Q. Does the proposed rate exceed the program cost or bill impact thresholds**
2 **established in Order No. 26,397, issued August 27, 2020 in Docket DG 20-013?**

3 **A.** No, it does not. The thresholds established in Order No. 26,397 are (1) GAP overall
4 program costs exceed one percent of a utility's gross (annual) revenue; and (2) GAP
5 overall program costs exceed one percent of the typical residential heating customer's
6 total annual bill. (1) Projected gross revenue, based on the November 2021 – October
7 2022 \$/therm times the November 2022 – October 2023 therm sales forecast of
8 77,881,226 results in an estimated gross revenue of \$85,264,366. GAP projected program
9 subsidies represent 0.45% of the estimated gross revenue. (2) As shown on Attachment
10 NUI-SED-3, Page 1 of 10, the typical residential heating customer's annual bill for the
11 November 2022 – October 2023 period is \$1,798.03. Of that amount \$2.61 or 0.15% is
12 attributable to the GAP.

13
14 **Q. Please explain the purpose of the LRR?**

15 **A.** The purpose of the LRR is to recover lost distribution revenue related to the Company's
16 Energy Efficiency programs. This rate mechanism was established in accordance with
17 Order No. 25,932 in Docket No. DE 15-137 approving a Settlement Agreement which
18 provides for the implementation of a Lost Revenue Rate adjustment mechanism.

19
20 **Q. What changes are being proposed to the LRR?**

21 **A.** The Company is proposing a rate of \$0.0000 for all classes effective November 1, 2022.
22 In its Distribution Rate Case, DG 21-104 the Commission approved Northern's revenue

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 6 of 12**

1 decoupling mechanism. Therefore, lost revenue ceased to accrue in July 2022 with a
2 nominal remaining balance. In the 2022 Annual Report filing on June 1, 2023 the
3 Company will reconcile 2022 lost revenue with actual plan savings and propose a method
4 as part of next year's LDAC filing to either credit or recover the ending LRR balance to
5 customers.

6
7 **Q. Please explain the purpose of Northern's ERC.**

8 **A.** The purpose of the ERC is to recover expenditures associated with remediation of former
9 manufactured gas plants. The ERC is applied to all gas sales and delivery service billed
10 under the Company's sales and delivery service rate schedules. The costs submitted for
11 recovery through the ERC recovery mechanism are presented in the ERC Filing
12 submitted in this docket under separate cover. The environmental investigation and
13 remediation costs that underlie these expenses are the result of efforts by the Company to
14 respond to its legal obligations at a site located in Rochester, New Hampshire. In total,
15 the Company has incurred environmental remediation costs of \$48,434 from July 2021
16 through June 2022. A summary sheet and detailed backup spreadsheets supporting 2021-
17 2022 costs are provided in the ERC Filing.

18
19 **Q. Please describe the change to Northern's ERC rate that is proposed for effect**
20 **November 1, 2022.**

21 **A.** The current ERC rate is \$0.0056 per therm. Northern proposes to increase this rate to
22 \$0.0058 per therm.

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
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Q. Please explain the calculation of the proposed ERC rate.

A. As stated above, during the period July 1, 2021 through June 30, 2022, ERC expenses totaled \$48,434. Northern is allowed to recover one-seventh of the actual response costs incurred by the Company in a twelve-month period ending June 30 of each year until fully amortized over seven years, plus any insurance and third-party expenses for the year. Due to the amortization of these costs, the ERC rate in this filing includes the current year (\$48,434 divided by 7, or \$6,919) and six prior years of unamortized amounts. Any insurance and third-party recoveries or other credits for the year are used to reduce the unamortized balance. The total ERC cost to be recovered, \$423,485, is shown in the following table and on Page 1, Line 13, of Attachment NUI-SED-2 ERC (this schedule is also Schedule 1 submitted by the Company in the Environmental Response Cost filing).

1/7 ERC costs incurred July 2021 – June 2022	\$6,919
1/7 ERC costs incurred July 2020 – June 2021	\$16,894
1/7 ERC costs incurred July 2019 – June 2020	\$11,024
1/7/ ERC costs incurred July 2018 – June 2019	\$29,051
1/7/ ERC costs incurred July 2017 – June 2018	\$40,449
1/7th ERC costs incurred July 2016 - June 2017	\$7,736
1/7th ERC costs incurred July 2015 - June 2016	\$311,412
Total	\$423,485

15
16
17

In addition, the ERC rate includes the prior period reconciliation of ERC costs. The October 31, 2022 ending balance is estimated to be an under collection of \$27,275, as

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
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1 shown on Attachment NUI-SED-1 ERC Page 2 of 2. Total ERC costs to be recovered for
2 the period of November 2022 through October 2023 are \$450,760. Dividing the
3 recoverable ERC costs by projected total annual sales of 77,881,226 therms results in an
4 ERC rate of \$0.0058 per therm. This calculation is illustrated in Attachment NUI-SED-2
5 ERC, Page 1 of 2.
6

7 **Q. Please explain the purpose of the RCE?**

8 **A.** The purpose of this provision is to establish a procedure that allows Northern Utilities to
9 adjust its rates for the recovery of NHPUC-approved rate case expenses. These expenses
10 will be recovered over a 12-month period, November 2022 – October 2023.
11

12 **Q. Please explain the calculation of the proposed RCE rate.**

13 **A.** Attachment NUI-SED-1 RCE provides the calculation of the RCE. Today, under separate
14 cover in Docket No. DG 21-104, the Company is submitting supporting schedules for its
15 rate case expenses. Attachment NUI-SED-1 RCE, line 1, reflects the total rate case
16 expenses as of the date of filing. That amount, divided by forecasted sales for the
17 November 2022 – October 2023 period, results in a per therm RCE of \$0.0043.
18

19 **Q. Please explain the purpose of the RPC?**

20 **A.** The purpose of this provision is to establish a procedure that allows Northern Utilities to
21 adjust its rates for the reconciliation of revenues related to a permanent change in the
22 Company's distribution service rates implemented subsequent to the effective date of

Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 9 of 12

1 such change. This provision includes the reconciliation for the difference in revenues
2 charged under temporary versus permanent rates. The RPC will be recovered over a 12-
3 month period, November 2022 – October 2023, per the Settlement Agreement approved
4 in DG 21-104.

5
6 **Q. Please explain the calculation of the proposed RPC rate.**

7 **A.** Attachment NUI-SED-1 RPC provides the derivation of the revenue shortfall associated
8 with the change in distribution rates over the October 2021 through July 2022 period.
9 Because customer bills typically reflect usage which occurred in the previous month,
10 October 2021 and July 2022 monthly data has been adjusted to reflect October 2021 and
11 July 2022 usage. Lines 3 through 25 provide the actual billing determinants for the Oct
12 2021 through July 2022 period. Lines 31 – 50 provide the approved distribution rates.
13 Lines 53 – 88 calculate the revenue at permanent rates. Lines 92 – 101 provide the actual
14 revenue collected for the period. Lines 104 – 115 is the difference between the permanent
15 revenues and actual revenue. The resulting amounts shown in lines 107 and 114 provide
16 the basis for the RPC for the Residential and C&I classes, respectively. As approved in
17 the Settlement Agreement a separate uniform rate per therm for the Residential and C&I
18 classes, respectively, has been calculated. This calculation is shown on lines 116 and 117.
19 As shown on Page 2, lines 116 and 117 the proposed Residential RPC is \$0.1206 per
20 therm and the proposed C&I RPC is \$0.0101 per therm.

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
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Q. Please explain the purpose of the PTAM?

A. The purpose of this provision is to establish a procedure that allows Northern Utilities to recover the increase in local property tax expense associated with HB 700 and RSA 72:8-d and -e. Please see the Testimony and Schedules of Daniel Nawazelski for a detailed analysis of the property tax proposed for recovery in the PTAM effective November 1, 2022.

Q. Please explain the calculation of the proposed PTAM rate.

A. Attachment NUI-SED-1 PTAM provides the calculation of the PTAM for effect November 1, 2022. Page 1 provides the calculation of the proposed rate. The property tax for the period, as shown in Schedule DTN-1, plus the prior period over/under collection, is offset by Excess Accumulated Deferred Income Tax resulting in a proposed recovery of \$0. Therefore, the PTAM rate proposed for November 1, 2022 is \$0.0000 per therm. Page 2 provides a reconciliation of the prior period and support for the ending balance shown on Page 1, line 2.

Q. Please explain the purpose of the RAAM?

A. The purpose of the RAAM is to establish a procedure that allows Northern to recover changes in the annual PUC Regulatory Assessment.

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 11 of 12**

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Q. What changes are being proposed to the RAAM?

A. The current RAAM is \$0.0027. Northern is proposing a RAAM of \$0.00002 effective November 1, 2022, a decrease of \$0.0025 based on a Non-Distribution Regulatory Assessment of \$0 and 2020 Covid-19 Expense of \$68,061, per DG 21-104 Order No. 26-250 dated July 20,2022, and a prior period over-collection of \$49,848.

Q. Please explain the calculation of the proposed RAAM rate.

A. See Attachment NUI-SED-1 RAAM. Page 1 of 4 provides the calculation of the proposed rate. As shown on line 4, total recoverable expense is \$18,213, divided by the forecasted sales over the November 1, 2022 through October 31, 2023, 77,881,226, results in a rate of \$0.0002. Page 2 of 4 provides a reconciliation of the current period and support for the prior period ending balance, Page 1, line 3. Page 3 provides a forecast reconciliation of the upcoming rate period. Page 4 provides support for the Non-Distribution portion of the Regulatory Assessment. In the November 1, 2022 – October 31, 2023 period the Non-Distribution portion of the Regulatory Assessment is \$0.

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

A. Yes, Attachment NUI-SED-3, page 1 provides the analyses. It shows that a typical Residential heating customer consuming 582 therms during the 2022/2023 Winter Season

**Prefiled Testimony of S. Elena Demeris
Annual 2022/2023 COG Filing
Page 12 of 12**

1 can expect a bill of \$1,441.68. This is an increase of \$260.42, or 22.0% compared to the
2 2021/2022 Winter Season bill with the same consumption.

3

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

7 A. Yes, Attachment NUI-SED-3, page 6 provides this analysis. It shows that a typical
8 residential heating customer consuming 124 therms during the 2023 Summer Season can
9 expect a bill of \$356.34. This is an increase of \$8.87, or 2.55% compared to the 2022
10 Summer Season bill with the same consumption.

11

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

13 A. Yes, it does.

**NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
NOVEMBER 2022 / OCTOBER 2023 ANNUAL PERIOD
COST OF GAS ADJUSTMENT FILING**

**PREFILED TESTIMONY OF
DANIEL T. NAWAZELSKI**

1 **I. INTRODUCTION**

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

3 **A.**My name is Daniel T. Nawazelski, and my business address is 6 Liberty Lane West,
4 Hampton, New Hampshire 03842.

5 **Q. Mr. Nawazelski, what is your position and what are your responsibilities?**

6 **A.**I am the Manager of Revenue Requirements for Unitil Service Corp. (“Unitil
7 Service”) a subsidiary of Unitil Corporation that provides managerial, financial,
8 regulatory and engineering services to Unitil Corporation’s utility subsidiaries
9 including Northern Utilities, Inc., which has operating divisions in New
10 Hampshire and Maine (the New Hampshire operating division is hereinafter
11 referred to as “Northern” or the “Company”). In this capacity I am responsible for
12 the preparation and presentation of distribution rate cases and in support of other
13 various regulatory proceedings.

14 **Q. Mr. Nawazelski, please describe your business and educational background.**

15 **A.**I began working for Unitil Service in June of 2012 as an Associate Financial
16 Analyst and have held various positions with increasing responsibilities leading to
17 my current role of Manager of Revenue Requirements. I earned a Bachelor of
18 Science degree in Business with a concentration in Finance and Operations

1 Management from the University of Massachusetts, Amherst in May of 2012. I
2 am also currently pursuing my Masters in Business Administration at the
3 University of New Hampshire.

4 **Q. Have you previously testified before the Commission or other regulatory**
5 **agencies?**

6 **A.** Yes, I testified before this Commission on various financial, ratemaking and
7 utility regulation matters. I have also testified in proceedings before the Maine
8 Public Utilities Commission and the Massachusetts Department of Public
9 Utilities.

10 **II. SUMMARY OF TESTIMONY**

11 **Q. What is the purpose of your testimony?**

12 **A.** The purpose of my testimony is to provide the Company's request for approval of
13 recovery of the increase in property taxes associated with HB 700.

14 **Q. What did HB 700 allow for?**

15 **A.** HB 700 established a methodology for valuing utility distribution assets for
16 property tax purposes, codified as RSA 72:8-d and -e. Part of that law established
17 a new methodology for assessing utility property, and a five-year phase-in period
18 to fully transition to that new methodology. The first property tax year of the
19 phase-in period is the tax year beginning April 1, 2020. The law also requires the
20 Commission to establish by order a rate recovery mechanism for the property
21 taxes paid by a public utility.

1 **Q. Has the Company included recovery of the change in state related property**
2 **taxes?**

3 A. No. The Company has excluded the changes in the state related property taxes
4 from the recovery request consistent with the language of HB 700. Recovery of
5 the state portion of the property taxes will continue to occur as it does now as part
6 of the normal rate case process.

7 **Q. How has the Company calculated the increase in property taxes related to**
8 **local property taxes?**

9 A. The Company compared the amount of property tax recovery currently in rates to
10 the actual 2021 property tax expense.

11 **Q. How did the Company calculate the amount of property tax recovery**
12 **currently in rates?**

13 A. Attachment NUI-DTN-1, page 1, lines 1-5, provides the amount of property tax
14 recovery that was in rates from January 1, 2021 through July 31, 2021. The
15 annual property tax recovery for that respective period is \$4,537,262. This amount
16 was further assigned to state property tax recovery of \$1,044,300 and local
17 property tax recovery of \$3,492,961

18 Next, Attachment NUI-DTN-1, page 1, lines 6-8, provides the amount of property
19 tax recovery that was in rates from August 1, 2021 through December 31, 2021
20 per the rate case settlement in Docket DG 21-104. The annual property tax
21 recovery for that respective period is \$5,523,332. This amount was further

1 assigned to state property tax recovery of \$1,370,478 and local property tax
2 recovery of \$4,152,854.¹

3 Finally, Attachment NUI-DTN-1, page 1, line 9, calculates the 2021 annual
4 property tax recovery level by reflecting nine months of recovery at the Docket
5 No. DG 17-070 recovery level (including the property tax recovery included in
6 the subsequent step increases on May 1, 2018 and May 1, 2019) and three months
7 at the Docket No. DG 21-104 recovery level.

8 **Q. What was the property tax expense for 2021?**

9 A. As shown on line 10 of Attachment NUI-DTN-1, page 1, the total property tax
10 expense for the Company in 2021 was \$5,342,824 of which \$1,370,478 was for
11 state property taxes and \$3,972,346 was for local property taxes. Attachment
12 NUI-DTN-1, page 2, provides a summary of the local property tax bill detail by
13 town. Attachment NUI-DTN-1, page 3, provides a reconciliation to the Property
14 Tax Expense presented in the Company's New Hampshire Public Utilities
15 Commission Annual Report. Finally, Attachment NUI-DTN-2 provides the
16 property tax bills.

17 **Q. Were any abatements received in 2021 related to 2020 and 2021 property tax**
18 **bills?**

19 A. No.

¹ Docket No. DG 21-104 Settlement Agreement Section 9.4

1 **Q. How much higher was the 2021 property tax expense than the amount**
2 **currently included in rates?**

3 A. As shown on Attachment NUI-DTN-1, page 1, line 12, the 2021 property tax
4 expense was \$314,411 higher than the amount currently included in base
5 distribution rates. Per section 9.7 of the rate case settlement agreement in Docket
6 DG 21-104,

7 **Q. Through what mechanism is the Company allowed recovery of the increase**
8 **in local property taxes?**

9 A. In Order No. 26,581 (February 15, 2022) in Docket No. DG 21-123, the
10 Commission approved the Company's proposed method for reconciliation of local
11 property taxes consistent with the authority in RSA 72:8-e as an element of the
12 Company's Local Delivery Adjustment Charge ("LDAC") through the Property
13 Tax Adjustment Mechanism ("PTAM").

14 **Q. Please provide a summary of the Company's request.**

15 A. The Company is requesting that the Commission approve the recovery of
16 \$314,411 of property taxes in 2021 related to the impacts of HB 700 through the
17 Company's PTAM. This represents a decrease of \$206,904 from the amount
18 approved in last year's PTAM of \$521,315. The settlement agreement in Docket
19 DG 21-104, section 9.7, provided that Excess Accumulated Deferred Income Tax
20 ("ADIT") from 2018-2020 in the amount of \$515,202, shall be applied to offset
21 the Company's property tax deferral balance to be recovered through the PTAM.
22 In the instant case the Company is offsetting the proposed recovery of 2021

1 property taxes as well as the prior period reconciliation resulting in a total
2 application of \$406,801 of the Excess ADIT balance, resulting in a proposed
3 recovery in the PTAM of \$0 (zero). The remaining Excess ADIT balance of
4 \$108,401 will offset future PTAM recoveries. The calculation of the proposed
5 PTAM rate and prior period reconciliation is provided in the testimony and
6 attachments of S. Elena Demeris.

7 **III. CONCLUSION**

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

9 A. Yes, it does.

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

1	Total Fixed Capacity Costs To Be Allocated	
2		NUI Total
3	Pipeline Demand	\$ 24,102,032
4	Storage Demand	\$ 26,034,409
5	<u>On-system Peaking Demand</u>	<u>\$ 3,405,640</u>
6	Subtotal Demand	\$ 53,542,080
7		
8	Capacity Release (Credit)	\$ -
9	<u>Asset Management (Credit)</u>	<u>\$ (20,934,600)</u>
10	Total Net Demand Costs	\$ 32,607,480
11		
12	Off-System Peaking Demand	\$ 9,621,667 PR Allocation on Page 5
13		
14	Total Demand Costs	\$ 42,229,146

Proportional Responsibility (PR) Allocators

Allocation of Product and Pipeline Demand Costs (including Injections) to Months

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
20 Design Year Pipeline Sendout	733,415	1,369,299	1,461,075	1,581,887	2,078,087	1,229,169	749,833	479,460	466,887	441,268	510,686	891,226	11,992,293
21 Rank	8	4	3	2	1	5	7	10	11	12	9	6	
22 % Max Month	35.29%	65.89%	70.31%	76.12%	100.00%	59.15%	36.08%	23.07%	22.47%	21.23%	24.57%	42.89%	
23 PR	1.34%	1.69%	1.47%	2.91%	23.88%	3.25%	0.11%	0.06%	0.11%	1.77%	0.17%	1.13%	37.89%
24 CumPR	3.45%	9.63%	11.11%	14.01%	37.89%	7.95%	3.56%	1.94%	1.88%	1.77%	2.11%	4.70%	100.00%
25 Product and Pipeline Demand Costs	\$ 831,234	\$ 2,321,972	\$ 2,676,784	\$ 3,377,382	\$ 9,132,401	\$ 1,915,659	\$ 858,436	\$ 468,087	\$ 453,504	\$ 426,492	\$ 508,327	\$ 1,131,753	\$ 24,102,032

Allocation of Storage Injection Fees to Months

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
28 Storage Injection Volume	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Design Year Pipeline Sendout	733,415	1,369,299	1,461,075	1,581,887	2,078,087	1,229,169	749,833	479,460	466,887	441,268	510,686	891,226	11,992,293
30 % of Deliveries Injected	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
31 Injection Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Allocation of Storage Demand Costs to Months

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
36 Design Year Storage	934,931	1,020,492	1,190,959	858,061	103,397	-	-	-	-	-	-	-	4,107,840
37 Rank	3	2	1	4	5	6	6	6	6	6	6	6	
38 % Max Month	78.50%	85.69%	100.00%	72.05%	8.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
39 PR	2.15%	3.59%	14.31%	15.84%	1.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	37.63%
40 CumPR	19.73%	23.32%	37.63%	17.58%	1.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
41 Storage Demand Costs	\$ 5,136,426	\$ 6,071,606	\$ 9,798,023	\$ 4,576,301	\$ 452,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,034,409
42 Plus Injection Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
43 TOTAL	\$ 5,136,426	\$ 6,071,606	\$ 9,798,023	\$ 4,576,301	\$ 452,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,034,409

Allocation of All Peaking Demand Costs Excluding Off-System Peaking

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
47 Design Year Peaking Volumes	1,801	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	51,301
48 Rank	8	7	1	12	6	11	5	10	4	3	9	2	
49 % Max Month	5.76%	5.95%	100.00%	5.37%	5.95%	5.76%	5.95%	5.76%	5.95%	5.95%	5.76%	5.95%	
50 PR	0.00%	0.03%	94.05%	0.45%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	94.56%
51 CumPR	0.48%	0.51%	94.56%	0.45%	0.51%	0.48%	0.51%	0.48%	0.51%	0.48%	0.48%	0.51%	100.00%
52 Peaking Demand Costs	\$ 16,455	\$ 17,373	\$ 3,220,374	\$ 15,252	\$ 17,373	\$ 16,441	\$ 17,373	\$ 16,441	\$ 17,373	\$ 17,373	\$ 16,441	\$ 17,373	\$ 3,405,640

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

1		
2		
3	Pipeline Demand	NUI-FXW-5, PG 1, LN 1
4	Storage Demand	NUI-FXW-5, PG 1, LN 2 + 3
5	<u>On-system Peaking Demand</u>	NUI-FXW-5, PG 1, LN 4 + 5
6	Subtotal Demand	Sum LN 3 : LN 5
7		
8	Capacity Release (Credit)	NUI-FXW-5, PG 6
9	<u>Asset Management (Credit)</u>	NUI-FXW-5, PG 6
10	Total Net Demand Costs	Sum LN 6 : LN 9
11		
12	Off-System Peaking Demand	NUI-FXW-5, PG 5
13		
14	Total Demand Costs	LN 10 + LN 12
15		

Proportional Responsibility (PR) Allocators

Allocation of Product and Pipeline Demand Costs (including Injections) to Months

19		
20	Design Year Pipeline Sendout	Company Analysis
21	Rank	LN 20 Ranking
22	% Max Month	LN 20 / LN 20 MAX
23	PR	The difference between LN 22 for the month and LN 22 for next highest rank
24	CumPR	Cumulative Values, LN 23
25	Product and Pipeline Demand Costs	LN 24 * LN 3
26		

Allocation of Storage Injection Fees to Months

28		
29	Storage Injection Volume	Company Analysis
30	Design Year Pipeline Sendout	LN 20
31	% of Deliveries Injected	LN 29 / Sum (LN 29 : LN 30)
32	Injection Fees	LN 31 * LN 25
33		

Allocation of Storage Demand Costs to Months

34		
35		
36	Design Year Storage	Company Analysis
37	Rank	LN 36 Ranking
38	% Max Month	LN 36 / LN 36 MAX
39	PR	The difference between LN 38 for the month and LN 38 for next highest rank
40	CumPR	Cumulative Values, LN 39
41	Storage Demand Costs	LN 40 * LN 4
42	Plus Injection Fees	LN 32
43	TOTAL	LN 41 + LN 42
44		

Allocation of All Peaking Demand Costs Excluding Off-System Peaking

45		
46		
47	Design Year Peaking Volumes	Company Analysis
48	Rank	LN 47 Ranking
49	% Max Month	LN 47 / LN 47 MAX
50	PR	The difference between LN 49 for the month and LN 49 for next highest rank
51	CumPR	Cumulative Values, LN 50
52	Peaking Demand Costs	LN 51 * LN 5

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
Pipeline & Product Demand	\$ 831,234	\$ 2,321,972	\$ 2,676,784	\$ 3,377,382	\$ 9,132,401	\$ 1,915,659	\$ 858,436	\$ 468,087	\$ 453,504	\$ 426,492	\$ 508,327	\$ 1,131,753	\$ 24,102,032
Storage Includ Inj Fees	\$ 5,136,426	\$ 6,071,606	\$ 9,798,023	\$ 4,576,301	\$ 452,052	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,034,409
On-system Peaking	\$ 16,455	\$ 17,373	\$ 3,220,374	\$ 15,252	\$ 17,373	\$ 16,441	\$ 17,373	\$ 16,441	\$ 17,373	\$ 17,373	\$ 16,441	\$ 17,373	\$ 3,405,640
Less: Injection Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less: Capacity Release	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Less: Asset Mgmt	\$ (3,489,100)	\$ (3,489,100)	\$ (3,489,100)	\$ (3,489,100)	\$ (3,489,100)	\$ (3,489,100)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (20,934,600)
Total Demand	\$ 2,495,014	\$ 4,921,850	\$ 12,206,081	\$ 4,479,836	\$ 6,112,726	\$ (1,557,000)	\$ 875,809	\$ 484,528	\$ 470,877	\$ 443,865	\$ 524,768	\$ 1,149,126	\$ 32,607,480

Capacity Cost Allocator based on Design Year Firm Sendout

	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Annual
Therms													
Maine	985,860	1,418,504	1,723,753	1,481,161	1,295,643	749,782	453,970	287,841	278,063	267,587	306,310	528,420	9,776,896
New Hampshire	684,286	1,012,694	1,233,598	1,043,889	895,702	481,187	297,723	193,419	190,684	175,541	206,176	364,666	6,779,564
Total	1,670,146	2,431,199	2,957,351	2,525,050	2,191,345	1,230,969	751,693	481,260	468,747	443,128	512,486	893,086	16,556,460

Percentage of Total

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
Maine	59.03%	58.35%	58.29%	58.66%	59.13%	60.91%	60.39%	59.81%	59.32%	60.39%	59.77%	59.17%	58.61%
New Hampshire	40.97%	41.65%	41.71%	41.34%	40.87%	39.09%	39.61%	40.19%	40.68%	39.61%	40.23%	40.83%	41.39%
Total	100.00%												

Allocation of Demand Costs by Division

Maine	\$ 1,472,766	\$ 2,871,697	\$ 7,114,566	\$ 2,627,813	\$ 3,614,179	\$ (948,368)	\$ 528,928	\$ 289,795	\$ 279,327	\$ 268,032	\$ 313,651	\$ 679,913	\$ 19,112,300
New Hampshire	\$ 1,022,248	\$ 2,050,153	\$ 5,091,515	\$ 1,852,023	\$ 2,498,547	\$ (608,633)	\$ 346,881	\$ 194,732	\$ 191,551	\$ 175,833	\$ 211,117	\$ 469,213	\$ 13,495,181
Total	\$ 2,495,014	\$ 4,921,850	\$ 12,206,081	\$ 4,479,836	\$ 6,112,726	\$ (1,557,000)	\$ 875,809	\$ 484,528	\$ 470,877	\$ 443,865	\$ 524,768	\$ 1,149,126	\$ 32,607,480

Detailed Allocation of Demand Costs by Division

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	
Maine														
Pipeline & Product Demand	\$ 490,664	\$ 1,354,775	\$ 1,560,219	\$ 1,981,128	\$ 5,399,576	\$ 1,166,826	\$ 518,436	\$ 279,962	\$ 269,021	\$ 257,541	\$ 303,825	\$ 669,634	\$ 14,251,607	59.13%
Storage Includ Injection Fees	\$ 3,031,949	\$ 3,542,532	\$ 5,710,980	\$ 2,684,398	\$ 267,278	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,237,137	58.53%
On-system Peaking	\$ 9,713	\$ 10,136	\$ 1,877,061	\$ 8,947	\$ 10,272	\$ 10,014	\$ 10,492	\$ 9,833	\$ 10,306	\$ 10,491	\$ 9,827	\$ 10,279	\$ 1,987,370	58.36%
Less: Injection Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
Capacity Release (Credit)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
Asset Management (Credit)	\$ (2,059,559)	\$ (2,035,746)	\$ (2,033,694)	\$ (2,046,660)	\$ (2,062,947)	\$ (2,125,208)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (12,363,814)	59.06%
Total Allocated Demand	\$ 1,472,766	\$ 2,871,697	\$ 7,114,566	\$ 2,627,813	\$ 3,614,179	\$ (948,368)	\$ 528,928	\$ 289,795	\$ 279,327	\$ 268,032	\$ 313,651	\$ 679,913	\$ 19,112,300	58.61%
New Hampshire														
Pipeline & Product Demand	\$ 340,570	\$ 967,197	\$ 1,116,565	\$ 1,396,254	\$ 3,732,825	\$ 748,832	\$ 340,000	\$ 188,124	\$ 184,483	\$ 168,951	\$ 204,503	\$ 462,119	\$ 9,850,425	40.87%
Storage Includ Injection Fees	\$ 2,104,478	\$ 2,529,074	\$ 4,087,043	\$ 1,891,903	\$ 184,774	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,797,272	41.47%
On-system Peaking	\$ 6,742	\$ 7,236	\$ 1,343,312	\$ 6,306	\$ 7,101	\$ 6,427	\$ 6,881	\$ 6,608	\$ 7,067	\$ 6,882	\$ 6,614	\$ 7,094	\$ 1,418,269	41.64%
Less: Injection Fees	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
Capacity Release	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
Asset Management	\$ (1,429,541)	\$ (1,453,354)	\$ (1,455,406)	\$ (1,442,440)	\$ (1,426,153)	\$ (1,363,892)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (8,570,786)	40.94%
Total Allocated Demand	\$ 1,022,248	\$ 2,050,153	\$ 5,091,515	\$ 1,852,023	\$ 2,498,547	\$ (608,633)	\$ 346,881	\$ 194,732	\$ 191,551	\$ 175,833	\$ 211,117	\$ 469,213	\$ 13,495,181	41.39%

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

53		
54	Pipeline & Product Demand	LN 25
55	Storage	LN 43
56	Peaking	LN 52
57	Less: Injection Fees	-(LN 32)
58	Less: Capacity Release	-(LN 8 / 5)
59	Less: Asset Management	-(LN 9 / 6)
60	Total Demand	Sum (LN 54 : LN 59)

Capacity Cost Allocator based on Design Year Firm Sendout

61		
62		
63		
64	Therms	
65	Maine	Company Analysis
66	New Hampshire	Company Analysis
67	Total	LN 65 + LN 66

Percentage of Total

68		
69		
70	Maine	LN 65 / LN 67
71	New Hampshire	LN 66 / LN 67
72	Total	LN 70 + LN 71

Allocation of Demand Costs by Division

73		
74		
75	Maine	LN 60 * LN 70
76	New Hampshire	LN 60 * LN 71
77	Total	LN 75 + LN 76

Detailed Allocation of Demand Costs by Division

78		
79		
80	Maine	
81	Pipeline & Product Demand	LN 54 * LN 70
82	Storage	LN 55 * LN 70
83	Peaking	LN 56 * LN 70
84	Injection Fees	LN 57 * LN 70
85	Capacity Release (Credit)	LN 58 * LN 70
86	Asset Management (Credit)	LN 59 * LN 70
87	Total Allocated Demand	Sum (LN 81 : LN 86)

New Hampshire

88		
89		
90	Pipeline & Product Demand	LN 54 * LN 71
91	Storage	LN 55 * LN 71
92	Peaking	LN 56 * LN 71
93	Injection Fees	LN 57 * LN 71
94	Capacity Release	LN 58 * LN 71
95	Asset Management (Credit)	LN 59 * LN 71
96	Total Allocated Demand	Sum (LN 90 : LN 95)

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

97 **Off-System Peaking Demand Costs** \$ 9,621,667

98
 99 **Allocation of Off-system Peaking Demand Costs to Months**

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
Design Year Peaking Volumes	-	39,549	274,057	83,421	8,001	-	-	-	-	-	-	-	405,028
Rank	5	3	1	2	4	5	5	5	5	5	5	5	
% Max Month	0.00%	14.43%	100.00%	30.44%	2.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
PR	0.00%	3.84%	69.56%	8.00%	0.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	82.13%
CumPR	0.00%	4.57%	82.13%	12.57%	0.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Peaking Demand Costs	\$ -	\$ 439,424	\$ 7,902,460	\$ 1,209,560	\$ 70,222	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,621,667

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 108 **Capacity Cost Allocator based on Design Year Sales**

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
Therms													
Maine	800,009	1,168,209	1,431,609	1,217,572	1,059,886	599,985	355,959	223,354	215,200	210,160	235,401	415,463	7,932,807
New Hampshire	474,912	739,691	921,667	772,498	645,945	314,290	169,305	98,756	91,640	87,809	99,776	217,652	4,633,941
Total	1,274,921	1,907,901	2,353,276	1,990,070	1,705,831	914,274	525,264	322,110	306,840	297,969	335,176	633,115	12,566,747

	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Annual
Percentage of Total													
Maine	62.75%	61.23%	60.83%	61.18%	62.13%	65.62%	67.77%	69.34%	70.13%	70.53%	70.23%	65.62%	60.91%
New Hampshire	37.25%	38.77%	39.17%	38.82%	37.87%	34.38%	32.23%	30.66%	29.87%	29.47%	29.77%	34.38%	39.09%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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 120 **Allocation of Off-System Peaking Demand Costs by Division**

Maine	\$0	\$269,060	\$4,807,441	\$740,038	\$43,631	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,860,170
New Hampshire	\$0	\$170,364	\$3,095,019	\$469,522	\$26,591	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,761,497
Total	\$ -	\$ 439,424	\$ 7,902,460	\$ 1,209,560	\$ 70,222	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,621,667

Total Weighted Average MPR Factor

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	
Maine														
Total Pipeline, Storage & On-system	\$ 1,472,766	\$ 2,871,697	\$ 7,114,566	\$ 2,627,813	\$ 3,614,179	\$ (948,368)	\$ 528,928	\$ 289,795	\$ 279,327	\$ 268,032	\$ 313,651	\$ 679,913	\$ 19,112,300	58.61%
Total Off-system Peaking	\$0	\$269,060	\$4,807,441	\$740,038	\$43,631	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 5,860,170	60.91%
Total Demand Cost Allocation	\$ 1,472,766	\$ 3,140,757	\$ 11,922,007	\$ 3,367,850	\$ 3,657,810	\$ (948,368)	\$ 528,928	\$ 289,795	\$ 279,327	\$ 268,032	\$ 313,651	\$ 679,913	\$ 24,972,469	59.14%
New Hampshire														
Total Pipeline, Storage & On-system	\$ 1,022,248	\$ 2,050,153	\$ 5,091,515	\$ 1,852,023	\$ 2,498,547	\$ (608,633)	\$ 346,881	\$ 194,732	\$ 191,551	\$ 175,833	\$ 211,117	\$ 469,213	\$ 13,495,181	41.39%
Total Off-system Peaking	\$0	\$170,364	\$3,095,019	\$469,522	\$26,591	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 3,761,497	39.09%
Total Demand Cost Allocation	\$ 1,022,248	\$ 2,220,518	\$ 8,186,534	\$ 2,321,546	\$ 2,525,138	\$ (608,633)	\$ 346,881	\$ 194,732	\$ 191,551	\$ 175,833	\$ 211,117	\$ 469,213	\$ 17,256,678	40.86%
Total Northern														
Total Pipeline, Storage & On-system	\$ 2,495,014	\$ 4,921,850	\$ 12,206,081	\$ 4,479,836	\$ 6,112,726	\$ (1,557,000)	\$ 875,809	\$ 484,528	\$ 470,877	\$ 443,865	\$ 524,768	\$ 1,149,126	\$ 32,607,480	
Total Off-system Peaking	\$ -	\$ 439,424	\$ 7,902,460	\$ 1,209,560	\$ 70,222	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,621,667	
Total Demand Cost Allocation	\$ 2,495,014	\$ 5,361,275	\$ 20,108,541	\$ 5,689,396	\$ 6,182,948	\$ (1,557,000)	\$ 875,809	\$ 484,528	\$ 470,877	\$ 443,865	\$ 524,768	\$ 1,149,126	\$ 42,229,147	

97	Off-System Peaking Demand Costs	LN 12
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98
 99 **Allocation of Off-system Peaking Demand Costs to Months**

100		
101	Design Year Peaking Volumes	Company Analysis
102	Rank	LN 101 Ranking
103	% Max Month	LN 101 / LN 101 MAX
104	PR	The difference between LN 103 for the month and LN 103 for next highest rank
105	CumPR	Cumulative Values, LN 104
106	Peaking Demand Costs	LN 105 * LN 97

107
 108 **Capacity Cost Allocator based on Design Year Sales**

109		
110	Therms	
111	Maine	Company Analysis
112	New Hampshire	Company Analysis
113	Total	LN 111 + LN 112

114		
115	Percentage of Total	
116	Maine	LN 111 / LN 113
117	New Hampshire	LN 112 / LN 113
118	Total	LN 116 + LN 117

119 **Allocation of Off-System Peaking Demand Costs by Division**

120		
121	Maine	LN 106 * LN 116
122	New Hampshire	LN 106 * LN 117
123	Total	LN 121 + LN 122

Total Weighted Average MPR Factor

124	Maine	
125	Total Pipeline, Storage & On-system	LN 87
126	Total Off-system Peaking	LN 121
127	Total Demand Cost Allocation	LN 125 + LN 126

128		
129	New Hampshire	
130	Total Pipeline, Storage & On-system	LN 96
131	Total Off-system Peaking	LN 122
132	Total Demand Cost Allocation	LN 130 + Ln 131

133		
134	Total Northern	
135	Total Pipeline, Storage & On-system	LN 125 + LN 130
136	Total Off-system Peaking	LN 126 + LN 131
137	Total Demand Cost Allocation	LN 127 + LN 132

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

NH Division Total Annual Demand Cost Allocation		
Resource	Costs	
Pipeline & Product Demand	\$	9,850,425
Storage	\$	10,797,272
On-system Peaking	\$	1,418,269
Total Gross Demand Cost	\$	22,065,966
Capacity Assignment Demand Revenue Estimate	\$	5,457,743
NH Total Pipeline, Storage & Peaking Demand Cost	\$	22,065,966
Capacity Assignment as % of Total Gross Demand Cost		24.73%
	Costs	
Pipeline & Product Demand	\$	2,436,380
Storage	\$	2,670,571
On-system Peaking	\$	350,791
Total Capacity Assignment Credit	\$	5,457,743
NH Net Annual Demand Cost (Less Capacity Assignment)		
	Costs	
Pipeline & Product Demand	\$	7,414,044
Storage	\$	8,126,701
On-system Peaking	\$	1,067,478
Total Net Demand Cost (Less Capacity Assignment)	\$	16,608,223
DEVELOPMENT OF BASE AND REMAINING PIPELINE DEMAND COSTS		
	MMBtu/day	
Pipeline MDQ		20,660
Less 24.73% NH Transp. Capacity Assignment		(5,110)
Net Pipeline MDQ		15,550
Net Pipeline MDQ		15,550
Less: Firm Sales Base Use		3,374
Remaining Pipeline MDQ		12,176
	Unit Cost	
Pipeline Unit Cost		\$476.79
	Costs	
Pipeline & Product Demand	\$	7,414,044
Less: Base Pipeline Use	\$	1,608,668
Remaining Pipeline Use	\$	5,805,376

1	Resource	
2	Pipeline & Product Demand	Attachment NUI-CAK-1, LN 90 + Attachment NUI-CAK-1, LN 93
3	Storage	Attachment NUI-CAK-1, LN 91
4	On-system Peaking	Attachment NUI-CAK-1, LN 92
5	Total Gross Demand Cost	Sum (LN 2 : LN 4)
6		
7	Capacity Assignment Demand Revenue Estimate	Attachment NUI-FXW-6, Page 1
8	NH Total Pipeline, Storage & Peaking Demand Cost	LN 5
9	Capacity Assignment as % of Total Gross Demand Cost	LN 7 / LN 8
10		
11		
12	Pipeline & Product Demand	LN 2 * LN 9
13	Storage	LN 3 * LN 9
14	On-system Peaking	LN 4 * LN 9
15	Total Capacity Assignment Credit	Sum (LN 12 : LN 14)
16		
17	NH Net Annual Demand Cost (Less Capacity Assignment)	
18		
19	Pipeline & Product Demand	LN 2 - LN 12
20	Storage	LN 3 - LN 13
21	On-system Peaking	LN 4 - LN 14
22	Total Net Demand Cost (Less Capacity Assignment)	LN 5 - LN 15
23		
24	DEVELOPMENT OF BASE AND REMAINING PIPELINE DEMAND (
25		
26	Pipeline MDQ	Company Analysis
27	Less 24.73% NH Transp. Capacity Assignment	-(LN 26) * LN 9
28	Net Pipeline MDQ	Sum (LN 26 : LN 27)
29		
30	Net Pipeline MDQ	LN 28
31	Less: Firm Sales Base Use	Attachment NUI-CAK-3, LN 48 / 10
32	Remaining Pipeline MDQ	LN 30 - LN 31
33		
34		
35	Pipeline Unit Cost	LN 19 / LN 30
36		
37		
38	Pipeline & Product Demand	LN 19
39	Less: Base Pipeline Use	LN 35 * LN 31
40	Remaining Pipeline Use	LN 38 - LN 39

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

41 **NH DIVISION MONTHLY PROPORTIONAL RESPONSIBILITY (PR ALLOCATORS)**
 42 (Based on NH Firm Sales Sendout for Remaining Temperature Sensitive Load)

44 All Months	Nov	Dec	Jan	Feb	Mar	Apr
45 Remaining Load for All Months	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797
46 Rank	5	3	1	2	4	6
47 % Max Month	53.07%	82.50%	100.00%	85.03%	68.88%	34.15%
48 PR	3.78%	4.54%	14.97%	1.27%	3.95%	2.59%
49 CumPR	8.75%	17.25%	33.48%	18.52%	12.71%	4.97%

51 Peak Months Only	Nov	Dec	Jan	Feb	Mar	Apr
52 Remaining Load for Peak Months Only	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797
53 Rank	5	3	1	2	4	6
54 % Max Month	53.07%	82.50%	100.00%	85.03%	68.88%	34.15%
55 PR	3.78%	4.54%	14.97%	1.27%	3.95%	5.69%
56 CumPR	9.48%	17.97%	34.20%	19.24%	13.43%	5.69%

57 **DEMAND COST PR ALLOCATORS**

59	Nov	Dec	Jan	Feb	Mar	Apr
60 Pipeline - Base	8.33%	8.33%	8.33%	8.33%	8.33%	8.33%
61 Pipeline - Remaining	8.75%	17.25%	33.48%	18.52%	12.71%	4.97%
62 Storage & Peaking	8.75%	17.25%	33.48%	18.52%	12.71%	4.97%
63 Capacity Release	9.48%	17.97%	34.20%	19.24%	13.43%	5.69%
64 Off-system Peaking	9.29%	17.64%	34.66%	18.93%	13.70%	5.79%
65 Interr. Margins & Off Sys Sales	9.48%	17.97%	34.20%	19.24%	13.43%	5.69%

66 **DEMAND COSTS ALLOCATED TO MONTHS**

68	Nov	Dec	Jan	Feb	Mar	Apr
69 Pipeline - Base	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056
70 Pipeline - Remaining	\$ 508,235	\$ 1,001,301	\$ 1,943,718	\$ 1,074,869	\$ 737,672	\$ 288,576
71 Total Pipeline	\$ 642,291	\$ 1,135,356	\$ 2,077,773	\$ 1,208,925	\$ 871,728	\$ 422,631
72						
73 Storage & On-system Peaking	\$ 804,909	\$ 1,585,795	\$ 3,078,334	\$ 1,702,309	\$ 1,168,277	\$ 457,028
74 Off-system Peaking	\$349,433	\$663,430	\$1,303,698	\$712,091	\$515,142	\$217,703
75						
76 Less Credits to Demand Cost						
77 Cap Rel Margins & Asset Mgt Credits	\$ 812,096	\$ 1,540,035	\$ 2,931,376	\$ 1,648,649	\$ 1,150,827	\$ 487,802
78 Interruptible Margins	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
79 Conversion Rate and Re-entry Rate Credits	\$ 474	\$ 898	\$ 1,710	\$ 962	\$ 671	\$ 285
80 Total Direct Demand Costs	\$ 984,063	\$ 1,843,647	\$ 3,526,719	\$ 1,973,714	\$ 1,403,649	\$ 609,275

81 **Indirect Demand Costs/(Credits)**

83 Miscellaneous Overhead						
84 Local Production & Storage						
85 Subtotal						

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

41 **NH DIVISION MONTHLY PROPORTIONAL RESPONSIBILITY (PR /ALLOCATORS)**
 42 (Based on NH Firm Sales Sendout for Remaining Temperature Sensitive Load)

All Months	May	Jun	Jul	Aug	Sep	Oct	Annual	Winter	Summer
Remaining Load for All Months	835,890	206,864	0	4,357	152,808	1,306,362	32,276,484	29,770,203	2,506,281
Rank	8	9	12	11	10	7			
% Max Month	11.89%	2.94%	0.00%	0.06%	2.17%	18.59%			
PR	1.12%	0.09%	0.00%	0.01%	0.21%	0.96%	33.48%		
CumPR	1.42%	0.30%	0.00%	0.01%	0.22%	2.38%	100.00%	95.68%	4.32%

Peak Months Only	Annual	Winter	Summer
Remaining Load for Peak Months Only	29,770,203	29,770,203	
Rank			
% Max Month			
PR	34.20%		
CumPR	100.00%	100.00%	0.00%

DEMAND COST PR ALLOCATORS

	May	Jun	Jul	Aug	Sep	Oct	Annual	Winter	Summer
Pipeline - Base	8.33%	8.33%	8.33%	8.33%	8.33%	8.33%	100.00%	50.00%	50.00%
Pipeline - Remaining	1.42%	0.30%	0.00%	0.01%	0.22%	2.38%	100.00%	95.68%	4.32%
Storage & Peaking	1.42%	0.30%	0.00%	0.01%	0.22%	2.38%	100.00%	95.68%	4.32%
Capacity Release	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	0.00%
Off-system Peaking	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	0.00%
Interr. Margins & Off Sys Sales	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	0.00%

DEMAND COSTS ALLOCATED TO MONTHS

	May	Jun	Jul	Aug	Sep	Oct	Annual	Winter	Summer	Winter	Summer
Pipeline - Base	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 1,608,668	\$ 804,334	\$ 804,334	50.00%	50.00%
Pipeline - Remaining	\$ 82,507	\$ 17,552	\$ -	\$ 327	\$ 12,591	\$ 138,029	\$ 5,805,376	\$ 5,554,370	\$ 251,006	95.68%	4.32%
Total Pipeline	\$ 216,563	\$ 151,608	\$ 134,056	\$ 134,383	\$ 146,646	\$ 272,085	\$ 7,414,044	\$ 6,358,704	\$ 1,055,340	85.77%	14.23%
Storage & On-system Peaking	\$ 130,669	\$ 27,798	\$ -	\$ 518	\$ 19,940	\$ 218,601	\$ 9,194,179	\$ 8,796,652	\$ 397,527	95.68%	4.32%
Off-system Peaking	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 3,761,497	\$ 3,761,497	\$ -	100.00%	0.00%
Less Credits to Demand Cost											
Cap Rel Margins & Asset Mgt Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,570,786	\$ 8,570,786	\$ -	100.00%	0.00%
Interruptible Margins	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Conversion Rate and Re-entry Rate Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000	\$ -		
Total Direct Demand Costs	\$ 347,232	\$ 179,406	\$ 134,056	\$ 134,901	\$ 166,587	\$ 490,686	\$ 11,793,935	\$ 10,341,068	\$ 1,452,867	87.68%	12.32%
Indirect Demand Costs/(Credits)											
Miscellaneous Overhead							\$ 611,875	\$ 492,287	\$ 119,588	80.46%	19.54%
Local Production & Storage							\$ 214,538	\$ 214,538	\$ -	100.00%	0.00%
Subtotal							\$ 826,413	\$ 706,825	\$ 119,588	85.53%	14.47%

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

41	NH DIVISION MONTHLY PROPORTIONAL RESPONSIBILITY (PR /ALLOCATORS)	
42	(Based on NH Firm Sales Sendout for Remaining Temperature Sensitive Load)	
43		
44	All Months	
45	Remaining Load for All Months	Attachment NUI-CAK-3, LN 80
46	Rank	Rank LN 45
47	% Max Month	LN 45 / MAX Month LN 45
48	PR	The difference between LN 47 for the month and LN 47 for next highest rank
49	CumPR	Cumulative Values, LN 48
50		
51	Peak Months Only	
52	Remaining Load for Peak Months Only	LN 45
53	Rank	Rank LN 52
54	% Max Month	LN 52 / MAX Month LN 52
55	PR	The difference between LN 54 for the month and LN 54 for next highest rank
56	CumPR	Cumulative Values, LN 55
57		
58	DEMAND COST PR ALLOCATORS	
59		
60	Pipeline - Base	1/12
61	Pipeline - Remaining	LN 49
62	Storage & Peaking	LN 49
63	Capacity Release	LN 56
64	Off-system Peaking	LN 56
65	Interr. Margins & Off Sys Sales	LN 56
66		
67	DEMAND COSTS ALLOCATED TO MONTHS	
68		
69	Pipeline - Base	LN 39 * LN 60
70	Pipeline - Remaining	LN 40 * LN 61
71	Total Pipeline	LN 69 + LN 70
72		
73	Storage & On-system Peaking	LN 62 * (Sum LN 20 : LN 21)
74	Off-system Peaking	Attachment NUI-CAK-1, LN 122,* LN 64
75		
76	Less Credits to Demand Cost	
77	Cap Rel Margins & Asset Mgt Credits	Attachment NUI-CAK-1, LN 95 * LN 63
78	Interruptible Margins	
79	Conversion Rate and Re-entry Rate Credits	Company Analysis
80	Total Direct Demand Costs	LN 71 + LN 73 + LN 74 - (Sum LN 76 : LN 79)
81		
82	Indirect Demand Costs/(Credits)	
83	Miscellaneous Overhead	Company Analysis
84	Local Production & Storage	Company Analysis
85	Subtotal	LN 83 + LN 84

**Northern Utilities - NEW HAMPSHIRE DIVISION
2022 - 2023 Period**

Forecasted Normal Sales By Class- Therms																
Line No.	Calendar Month Firm Sales Volumes	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
1	Normal Winter															
2	Res Heat	2,200,358	3,178,354	3,749,541	3,214,066	2,733,719	1,576,182	770,832	499,350	426,650	430,219	477,208	963,546	20,220,025	16,652,220	3,567,805
3	Res General	20,418	29,493	34,793	29,824	25,367	14,626	17,490	11,330	9,680	9,761	10,827	21,862	235,471	154,521	80,950
4	Total Residential	2,220,775	3,207,847	3,784,334	3,243,890	2,759,086	1,590,808	788,321	510,680	436,331	439,981	488,035	985,408	20,455,496	16,806,740	3,648,755
5	G50 Low Annual-Low Winter	115,068	166,213	196,083	168,080	142,961	82,427	140,299	90,887	77,655	78,304	86,857	175,375	1,520,208	870,832	649,376
6	G40 Low Annual-High Winter	1,113,910	1,609,011	1,898,169	1,627,090	1,383,919	797,927	272,568	176,571	150,864	152,126	168,742	340,712	9,691,608	8,430,026	1,261,583
7	G51 Med Annual-Low Winter	217,427	314,067	370,508	317,596	270,131	155,749	235,604	152,626	130,405	131,496	145,858	294,507	2,735,973	1,645,477	1,090,496
8	G41 Med Annual-High Winter	778,616	1,124,689	1,326,808	1,137,325	967,351	557,746	261,107	169,147	144,521	145,730	161,646	326,385	7,101,070	5,892,535	1,208,535
9	G52 High Annual-Low Winter	50,471	72,904	86,006	73,723	62,705	36,154	100,708	65,239	55,741	56,208	62,346	125,886	848,091	381,963	466,128
10	G42 High Annual-High Winter	195,539	282,451	333,210	285,624	242,937	140,070	64,965	42,085	35,958	36,258	40,219	81,207	1,780,522	1,479,832	300,691
11	Total C&I	2,471,031	3,569,334	4,210,784	3,609,438	3,070,003	1,770,074	1,075,250	696,554	595,144	600,123	665,667	1,344,072	23,677,473	18,700,664	4,976,809
12	Total Sales	4,691,806	6,777,181	7,995,118	6,853,328	5,829,089	3,360,882	1,863,572	1,207,233	1,031,474	1,040,103	1,153,702	2,329,480	44,132,969	35,507,405	8,625,565
13	Residential Heat & Non Heat	2,220,775	3,207,847	3,784,334	3,243,890	2,759,086	1,590,808	788,321	510,680	436,331	439,981	488,035	985,408	20,455,496	16,806,740	3,648,755
14	SALES HLF CLASSES	382,966	553,184	652,597	559,399	475,796	274,330	476,611	308,752	263,801	266,008	295,061	595,768	5,104,273	2,898,272	2,206,001
15	SALES LLF CLASSES	2,088,065	3,016,150	3,558,187	3,050,039	2,594,207	1,495,743	598,639	387,802	331,343	334,115	370,606	748,304	18,573,201	15,802,392	2,770,809
16	Total Firm Sales	4,691,806	6,777,181	7,995,118	6,853,328	5,829,089	3,360,882	1,863,572	1,207,233	1,031,474	1,040,103	1,153,702	2,329,480	44,132,969	35,507,405	8,625,565
17																
18	ESTIMATED SENDOUT BY CLASS - Therms															
19	Calendar Month Sendout Volumes (Includes Loss & Unaccounted For)															
20	Normal Winter	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
21	Res Heat	2,221,909	3,209,485	3,786,266	3,245,546	2,760,495	1,591,620	778,382	504,241	430,829	434,433	481,882	972,984	20,418,070	16,815,320	3,602,750
22	Res General	20,618	29,782	35,134	30,116	25,615	14,769	17,661	11,441	9,775	9,857	10,933	22,076	237,777	156,034	81,743
23	G50 Low Annual-Low Winter	116,195	167,841	198,004	169,727	144,361	83,234	141,673	91,777	78,415	79,071	87,707	177,093	1,535,098	879,362	655,736
24	G40 Low Annual-High Winter	1,124,820	1,624,771	1,916,760	1,643,026	1,397,474	805,742	275,237	178,300	152,342	153,616	170,394	344,049	9,786,533	8,512,594	1,273,939
25	G51 Med Annual-Low Winter	219,556	317,143	374,137	320,706	272,776	157,275	237,912	154,121	131,683	132,784	147,287	297,392	2,762,771	1,661,594	1,101,177
26	G41 Med Annual-High Winter	786,242	1,135,704	1,339,803	1,148,465	976,825	563,209	263,664	170,803	145,936	147,157	163,229	329,582	7,170,622	5,950,249	1,220,372
27	G52 High Annual-Low Winter	50,965	73,618	86,848	74,445	63,319	36,508	101,694	65,878	56,287	56,758	62,957	127,119	856,398	385,704	470,694
28	G42 High Annual-High Winter	197,454	285,217	336,474	288,422	245,317	141,442	65,601	42,497	36,310	36,614	40,612	82,002	1,797,961	1,494,326	303,636
29	Subtotal															
30	Residential	2,242,527	3,239,266	3,821,400	3,275,662	2,786,110	1,606,389	796,043	515,681	440,604	444,290	492,815	995,060	20,655,848	16,971,354	3,684,493
31	SALES HLF CLASSES	386,717	558,602	658,989	564,878	480,456	277,017	481,279	311,776	266,385	268,613	297,951	601,603	5,154,267	2,926,659	2,227,607
32	SALES LLF CLASSES	2,108,516	3,045,692	3,593,038	3,079,913	2,619,616	1,510,394	604,502	391,601	334,588	337,387	374,236	755,633	18,755,116	15,957,169	2,797,947
33	Total Firm Sales	4,737,760	6,843,561	8,073,426	6,920,453	5,886,183	3,393,800	1,881,824	1,219,058	1,041,577	1,050,291	1,165,002	2,352,296	44,565,231	35,855,183	8,710,048

**Northern Utilities - NEW HAMPSHIRE DIVISION
2022 - 2023 Period**

Forecasted Normal Sales By Class- Therms		
Calendar Month Firm Sales Volumes		
Line No.	Firm Sales	
1	Res Heat	(Attachment NUI-FXW-2, Page 1) * 10
2	Res General	(Attachment NUI-FXW-2, Page 1) * 10
3	Total Residential	Sum LN 1 : LN 2
4	G50 Low Annual-Low Winter	(Attachment NUI-FXW-2, Page 1) * 10
5	G40 Low Annual-High Winter	(Attachment NUI-FXW-2, Page 1) * 10
6	G51 Med Annual-Low Winter	(Attachment NUI-FXW-2, Page 1) * 10
7	G41 Med Annual-High Winter	(Attachment NUI-FXW-2, Page 1) * 10
8	G52 High Annual-Low Winter	(Attachment NUI-FXW-2, Page 1) * 10
9	G42 High Annual-High Winter	(Attachment NUI-FXW-2, Page 1) * 10
10	Total C&I	Sum LN 4 : LN 9
11	Total Sales	LN 3 + LN 10
12		
13	Residential Heat & Non Heat	LN 3
14	SALES HLF CLASSES	LN 4 + LN 6 + LN 8
15	SALES LLF CLASSES	LN 5 + LN 7 + LN 9
16	Total Firm Sales	Sum LN 13 : LN 15
17		
18	ESTIMATED SENDOUT BY CLASS - Therms	
19	Calendar Month Sendout Volumes (Includes Loss & Unaccounted For)	
20	Normal Winter	Unaccounted For)
21	Res Heat	LN 1 x Adj factor (Attachment NUI-FXW-2, Page 4)
22	Res General	LN 2 x Adj factor (Attachment NUI-FXW-2, Page 4)
23	G50 Low Annual-Low Winter	LN 4 x Adj factor (Attachment NUI-FXW-2, Page 4)
24	G40 Low Annual-High Winter	LN 5 x Adj factor (Attachment NUI-FXW-2, Page 4)
25	G51 Med Annual-Low Winter	LN 6 x Adj factor (Attachment NUI-FXW-2, Page 4)
26	G41 Med Annual-High Winter	LN 7 x Adj factor (Attachment NUI-FXW-2, Page 4)
27	G52 High Annual-Low Winter	LN 8 x Adj factor (Attachment NUI-FXW-2, Page 4)
28	G42 High Annual-High Winter	LN 9 x Adj factor (Attachment NUI-FXW-2, Page 4)
29	Subtotal	
30	Residential	LN 21 + LN 22
31	SALES HLF CLASSES	LN 23 + LN 25 + LN 27
32	SALES LLF CLASSES	LN 24 + LN 26 + LN 28
33	Total Firm Sales	Sum LN 30 : LN 32

Northern Utilities - NEW HAMPSHIRE DIVISION
Sendout by Class - Allocation between Base & Remaining Sendout

DAILY BASE GAS ENTITLEMENT - Therms/day	
Res Heat	13,956
Res General	317
G50 Low Annual-Low Winter	2,540
G40 Low Annual-High Winter	4,935
G51 Med Annual-Low Winter	4,266
G41 Med Annual-High Winter	4,727
G52 High Annual-Low Winter	1,823
G42 High Annual-High Winter	1,176
Subtotal	
Residential	14,272
SALES HLF CLASSES	8,629
SALES LLF CLASSES	10,838
Total Firm Sales	33,740

BASE SENDOUT BY CLASS - Therms															
Days per Month	30	31	31	28	31	30	31	30	31	31	30	31	30	31	
	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
Res Heat	418,675	432,631	432,631	390,764	432,631	418,675	432,631	418,675	430,829	432,631	418,675	432,631	5,092,081	2,526,008	2,566,073
Res General	9,499	9,816	9,816	8,866	9,816	9,499	9,816	9,499	9,775	9,816	9,499	9,816	115,535	57,313	58,222
G50 Low Annual-Low Winter	76,203	78,743	78,743	71,123	78,743	76,203	78,743	76,203	78,415	78,743	76,203	78,743	926,809	459,759	467,051
G40 Low Annual-High Winter	148,044	152,979	152,979	138,175	152,979	148,044	152,979	148,044	152,342	152,979	148,044	152,979	1,800,570	893,201	907,369
G51 Med Annual-Low Winter	127,968	132,233	132,233	119,437	132,233	127,968	132,233	127,968	131,683	132,233	127,968	132,233	1,556,390	772,072	784,318
G41 Med Annual-High Winter	141,819	146,547	146,547	132,365	146,547	141,819	146,547	141,819	145,936	146,547	141,819	146,547	1,724,859	855,644	869,215
G52 High Annual-Low Winter	50,965	56,523	56,523	51,053	56,523	36,508	56,523	54,699	56,287	56,523	54,699	56,523	643,347	308,094	335,254
G42 High Annual-High Winter	35,285	36,462	36,462	32,933	36,462	35,285	36,462	35,285	36,310	36,462	35,285	36,462	429,155	212,889	216,266
Subtotal															
Residential	428,175	442,447	442,447	399,630	442,447	428,175	442,447	428,175	440,604	442,447	428,175	442,447	5,207,616	2,583,321	2,624,295
SALES HLF CLASSES	255,136	267,499	267,499	241,612	267,499	240,679	267,499	258,870	266,385	267,499	258,870	267,499	3,126,547	1,539,925	1,586,623
SALES LLF CLASSES	325,149	335,988	335,988	303,473	335,988	325,149	335,988	325,149	334,588	335,988	325,149	335,988	3,954,584	1,961,734	1,992,850
Total Firm Sales	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767

REMAINING SENDOUT BY CLASS - Therms															
	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
Res Heat	1,803,234	2,776,854	3,353,634	2,854,782	2,327,864	1,172,945	345,751	85,565	-	1,802	63,206	540,352	15,325,989	14,289,312	1,036,677
Res General	11,118	19,966	25,318	21,250	15,799	5,270	7,845	1,941	-	41	1,434	12,260	122,243	98,721	23,521
G50 Low Annual-Low Winter	39,992	89,098	119,261	98,604	65,618	7,031	62,930	15,574	-	328	11,504	98,350	608,289	419,603	188,685
G40 Low Annual-High Winter	976,776	1,471,791	1,763,781	1,504,852	1,244,495	657,698	122,258	30,256	-	637	22,350	191,070	7,985,963	7,619,392	366,571
G51 Med Annual-Low Winter	91,589	184,910	241,904	201,270	140,543	29,307	105,678	26,153	-	551	19,319	165,158	1,206,381	889,522	316,859
G41 Med Annual-High Winter	644,423	989,158	1,193,257	1,016,100	830,279	421,389	117,117	28,984	-	610	21,410	183,035	5,445,763	5,094,606	351,157
G52 High Annual-Low Winter	-	17,095	30,325	23,393	6,797	-	45,172	11,179	-	235	8,258	70,596	213,050	77,610	135,440
G42 High Annual-High Winter	162,169	248,755	300,012	255,489	208,855	106,157	29,139	7,211	-	152	5,327	45,540	1,368,807	1,281,437	87,370
Subtotal															
Residential	1,814,352	2,796,819	3,378,952	2,876,033	2,343,663	1,178,215	353,595	87,507	-	1,843	64,640	552,613	15,448,231	14,388,034	1,060,198
SALES HLF CLASSES	131,581	291,103	391,490	323,266	212,957	36,338	213,780	52,906	-	1,114	39,081	334,104	2,027,720	1,386,735	640,985
SALES LLF CLASSES	1,783,367	2,709,705	3,257,050	2,776,440	2,283,628	1,185,244	268,515	66,451	-	1,399	49,087	419,645	14,800,533	13,995,435	805,098
Total Firm Sales	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797	835,890	206,864	-	4,357	152,808	1,306,362	32,276,484	29,770,203	2,506,281

Northern Utilities - NEW HAMPSHIRE DIVISION

Sendout by Class - Allocation between Base & Remaining Sendout

34		
35	DAILY BASE GAS ENTITLEMENT - Therms/day	
36	Res Heat	Avg (LN 21 Jul : LN 21 Aug) / 31 days
37	Res General	Avg (LN 22 Jul : LN 22 Aug) / 31 days
38	G50 Low Annual-Low Winter	Avg (LN 23 Jul : LN 23 Aug) / 31 days
39	G40 Low Annual-High Winter	Avg (LN 24 Jul : LN 24 Aug) / 31 days
40	G51 Med Annual-Low Winter	Avg (LN 25 Jul : LN 25 Aug) / 31 days
41	G41 Med Annual-High Winter	Avg (LN 26 Jul : LN 26 Aug) / 31 days
42	G52 High Annual-Low Winter	Avg (LN 27 Jul : LN 27 Aug) / 31 days
43	G42 High Annual-High Winter	Avg (LN 28 Jul : LN 28 Aug) / 31 days
44	Subtotal	
45	Residential	LN 36 + LN 37
46	SALES HLF CLASSES	LN 38 + LN 40 + LN 42
47	SALES LLF CLASSES	LN 39 + LN 41 + LN 43
48	Total Firm Sales	Sum LN 45 : LN 47
49	BASE SENDOUT BY CLASS - Therms	
50	Days per Month	
51		
52	Res Heat	MIN(LN 36 * LN 50, LN 21)
53	Res General	MIN(LN 37 * LN 50, LN 22)
54	G50 Low Annual-Low Winter	MIN(LN 38 * LN 50, LN 23)
55	G40 Low Annual-High Winter	MIN(LN 39 * LN 50, LN 24)
56	G51 Med Annual-Low Winter	MIN(LN 40 * LN 50, LN 25)
57	G41 Med Annual-High Winter	MIN(LN 41 * LN 50, LN 26)
58	G52 High Annual-Low Winter	MIN(LN 42 * LN 50, LN 27)
59	G42 High Annual-High Winter	MIN(LN 43 * LN 50, LN 28)
60	Subtotal	
61	Residential	LN 52 + LN 53
62	SALES HLF CLASSES	LN 54 + LN 56 + LN 58
63	SALES LLF CLASSES	LN 55 + LN 57 + LN 59
64	Total Firm Sales	Sum LN 61 : LN 63
65		
66	REMAINING SENDOUT BY CLASS - Therms	
67		
68	Res Heat	LN 21 - LN 52
69	Res General	LN 22 - LN 53
70	G50 Low Annual-Low Winter	LN 23 - LN 54
71	G40 Low Annual-High Winter	LN 24 - LN 55
72	G51 Med Annual-Low Winter	LN 25 - LN 56
73	G41 Med Annual-High Winter	LN 26 - LN 57
74	G52 High Annual-Low Winter	LN 27 - LN 58
75	G42 High Annual-High Winter	LN 28 - LN 59
76	Subtotal	
77	Residential	LN 68 + LN 69
78	SALES HLF CLASSES	LN 70 + LN 72 + LN 74
79	SALES LLF CLASSES	LN 71 + LN 73 + LN 75
80	Total Firm Sales	Sum LN 77 : LN 79

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Demand Costs to Customer Classes

Base Capacity Costs

1	BASE SENDOUT BY CLASS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
2	Total Therms															
3	Res Heat	418,675	432,631	432,631	390,764	432,631	418,675	432,631	418,675	430,829	432,631	418,675	432,631	5,092,081	2,526,008	2,566,073
4	Res General	9,499	9,816	9,816	8,866	9,816	9,499	9,816	9,499	9,775	9,816	9,499	9,816	115,535	57,313	58,222
5	G50 Low Annual-Low Winter	76,203	78,743	78,743	71,123	78,743	76,203	78,743	76,203	78,415	78,743	76,203	78,743	926,809	459,759	467,051
6	G40 Low Annual-High Winter	148,044	152,979	152,979	138,175	152,979	148,044	152,979	148,044	152,342	152,979	148,044	152,979	1,800,570	893,201	907,369
7	G51 Med Annual-Low Winter	127,968	132,233	132,233	119,437	132,233	127,968	132,233	127,968	131,683	132,233	127,968	132,233	1,556,390	772,072	784,318
8	G41 Med Annual-High Winter	141,819	146,547	146,547	132,365	146,547	141,819	146,547	141,819	145,936	146,547	141,819	146,547	1,724,859	855,644	869,215
9	G52 High Annual-Low Winter	50,965	56,523	56,523	51,053	56,523	36,508	56,523	54,699	56,287	56,523	54,699	56,523	643,347	308,094	335,254
10	G42 High Annual-High Winter	35,285	36,462	36,462	32,933	36,462	35,285	36,462	35,285	36,310	36,462	35,285	36,462	429,155	212,889	216,266
11	Total Firm Sales	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
12																
13	% of Total															
14	Res Heat	41.52%	41.36%	41.36%	41.36%	41.36%	42.12%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%
15	Res General	0.94%	0.94%	0.94%	0.94%	0.94%	0.96%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%
16	G50 Low Annual-Low Winter	7.56%	7.53%	7.53%	7.53%	7.53%	7.67%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%
17	G40 Low Annual-High Winter	14.68%	14.63%	14.63%	14.63%	14.63%	14.89%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%
18	G51 Med Annual-Low Winter	12.69%	12.64%	12.64%	12.64%	12.64%	12.87%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%
19	G41 Med Annual-High Winter	14.06%	14.01%	14.01%	14.01%	14.01%	14.27%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%
20	G52 High Annual-Low Winter	5.05%	5.40%	5.40%	5.40%	5.40%	3.67%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%
21	G42 High Annual-High Winter	3.50%	3.49%	3.49%	3.49%	3.49%	3.55%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%
22	Total Firm Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
23																
24	PIPELINE BASE DEMAND COSTS															
25	TOTAL PIPELINE BASE DEMAND COST	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 134,056	\$ 1,608,668	\$ 804,334	\$ 804,334
26	Res Heat	\$ 55,655	\$ 55,450	\$ 55,450	\$ 55,450	\$ 55,450	\$ 56,464	\$ 55,450	\$ 55,450	\$ 55,450	\$ 55,450	\$ 55,450	\$ 55,450	\$ 666,616	\$ 333,918	\$ 332,698
27	Res General	\$ 1,263	\$ 1,258	\$ 1,258	\$ 1,258	\$ 1,258	\$ 1,281	\$ 1,258	\$ 1,258	\$ 1,258	\$ 1,258	\$ 1,258	\$ 1,258	\$ 15,125	\$ 7,576	\$ 7,549
28	G50 Low Annual-Low Winter	\$ 10,130	\$ 10,092	\$ 10,092	\$ 10,092	\$ 10,092	\$ 10,277	\$ 10,092	\$ 10,092	\$ 10,092	\$ 10,092	\$ 10,092	\$ 10,092	\$ 121,331	\$ 60,776	\$ 60,554
29	G40 Low Annual-High Winter	\$ 19,680	\$ 19,607	\$ 19,607	\$ 19,607	\$ 19,607	\$ 19,966	\$ 19,607	\$ 19,607	\$ 19,607	\$ 19,607	\$ 19,607	\$ 19,607	\$ 235,717	\$ 118,074	\$ 117,643
30	G51 Med Annual-Low Winter	\$ 17,011	\$ 16,948	\$ 16,948	\$ 16,948	\$ 16,948	\$ 17,258	\$ 16,948	\$ 16,948	\$ 16,948	\$ 16,948	\$ 16,948	\$ 16,948	\$ 203,751	\$ 102,062	\$ 101,689
31	G41 Med Annual-High Winter	\$ 18,852	\$ 18,783	\$ 18,783	\$ 18,783	\$ 18,783	\$ 19,126	\$ 18,783	\$ 18,783	\$ 18,783	\$ 18,783	\$ 18,783	\$ 18,783	\$ 225,805	\$ 113,109	\$ 112,696
32	G52 High Annual-Low Winter	\$ 6,775	\$ 7,244	\$ 7,244	\$ 7,244	\$ 7,244	\$ 4,924	\$ 7,244	\$ 7,244	\$ 7,244	\$ 7,244	\$ 7,244	\$ 7,244	\$ 84,143	\$ 40,676	\$ 43,466
33	G42 High Annual-High Winter	\$ 4,691	\$ 4,673	\$ 4,673	\$ 4,673	\$ 4,673	\$ 4,759	\$ 4,673	\$ 4,673	\$ 4,673	\$ 4,673	\$ 4,673	\$ 4,673	\$ 56,182	\$ 28,142	\$ 28,039
34																
35	Residential	\$ 56,918	\$ 56,708	\$ 56,708	\$ 56,708	\$ 56,708	\$ 57,746	\$ 56,708	\$ 56,708	\$ 56,708	\$ 56,708	\$ 56,708	\$ 56,708	\$ 681,741	\$ 341,494	\$ 340,247
36	SALES HLF CLASSES	\$ 33,916	\$ 34,285	\$ 34,285	\$ 34,285	\$ 34,285	\$ 32,459	\$ 34,285	\$ 34,285	\$ 34,285	\$ 34,285	\$ 34,285	\$ 34,285	\$ 409,224	\$ 203,514	\$ 205,710
37	SALES LLF CLASSES	\$ 43,222	\$ 43,063	\$ 43,063	\$ 43,063	\$ 43,063	\$ 43,851	\$ 43,063	\$ 43,063	\$ 43,063	\$ 43,063	\$ 43,063	\$ 43,063	\$ 517,703	\$ 259,326	\$ 258,378

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Northern Utilities - NEW HAMPSHII
Allocation of Demand Costs to Cus

Base Capacity Costs

1	BASE SENDOUT BY CLASS	
2	Total Therms	
3	Res Heat	Attachment NUI-CAK-3, LN 52
4	Res General	Attachment NUI-CAK-3, LN 53
5	G50 Low Annual-Low Winter	Attachment NUI-CAK-3, LN 54
6	G40 Low Annual-High Winter	Attachment NUI-CAK-3, LN 55
7	G51 Med Annual-Low Winter	Attachment NUI-CAK-3, LN 56
8	G41 Med Annual-High Winter	Attachment NUI-CAK-3, LN 57
9	G52 High Annual-Low Winter	Attachment NUI-CAK-3, LN 58
10	G42 High Annual-High Winter	Attachment NUI-CAK-3, LN 59
11	Total Firm Sales	Sum LN 3 : LN 10
12	% of Total	
13		
14	Res Heat	LN 3 / LN 11
15	Res General	LN 4 / LN 11
16	G50 Low Annual-Low Winter	LN 5 / LN 11
17	G40 Low Annual-High Winter	LN 6 / LN 11
18	G51 Med Annual-Low Winter	LN 7 / LN 11
19	G41 Med Annual-High Winter	LN 8 / LN 11
20	G52 High Annual-Low Winter	LN 9 / LN 11
21	G42 High Annual-High Winter	LN 10 / LN 11
22	Total Firm Sales	LN 11 / LN 11
23		
24	PIPELINE BASE DEMAND COSTS	
25	TOTAL PIPELINE BASE DEMAND COST	Attachment NUI-CAK-2, LN 69
26	Res Heat	LN 25 * LN 14
27	Res General	LN 25 * LN 15
28	G50 Low Annual-Low Winter	LN 25 * LN 16
29	G40 Low Annual-High Winter	LN 25 * LN 17
30	G51 Med Annual-Low Winter	LN 25 * LN 18
31	G41 Med Annual-High Winter	LN 25 * LN 19
32	G52 High Annual-Low Winter	LN 25 * LN 20
33	G42 High Annual-High Winter	LN 25 * LN 21
34		
35	Residential	LN 26 + LN 27
36	SALES HLF CLASSES	LN 28 + LN 30 + LN 32
37	SALES LLF CLASSES	LN 29 + LN 31 + LN 33
38		

Remaining Capacity Costs

	Column A	Column B	Column C	Column D
	Design Day Demand (MMBtu)	Avg Daily Base Use Load (MMBtu)	Remaining Design Day Demand (MMBtu)	% of Total Remaining Design Day Demand
39				
40	23,681	1,396	22,285	48.26%
41	183	32	151	0.33%
42	697	254	443	0.96%
43	12,594	493	12,101	26.21%
44	1,600	427	1,173	2.54%
45	8,418	473	7,946	17.21%
46	338	182	156	0.34%
47	2,037	118	1,919	4.16%
48	TOTAL	49,548	46,174	100.00%
49				

REMAINING PIPELINE DEMAND

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER	
51																
52	NH DIVISION TOTAL - REMAINING PIPEL	\$ 508,235	\$ 1,001,301	\$ 1,943,718	\$ 1,074,869	\$ 737,672	\$ 288,576	\$ 82,507	\$ 17,552	\$ -	\$ 327	\$ 12,591	\$ 138,029	\$ 5,805,376	\$ 5,554,370	\$ 251,006
53																
54	Res Heat	\$ 245,289	\$ 483,257	\$ 938,094	\$ 518,763	\$ 356,022	\$ 139,275	\$ 39,820	\$ 8,471	\$ -	\$ 158	\$ 6,077	\$ 66,617	\$ 2,801,843	\$ 2,680,700	\$ 121,143
55	Res General	\$ 1,667	\$ 3,285	\$ 6,376	\$ 3,526	\$ 2,420	\$ 947	\$ 271	\$ 58	\$ -	\$ 1	\$ 41	\$ 453	\$ 19,043	\$ 18,220	\$ 823
56	G50 Low Annual-Low Winter	\$ 4,876	\$ 9,607	\$ 18,648	\$ 10,312	\$ 7,077	\$ 2,769	\$ 792	\$ 168	\$ -	\$ 3	\$ 121	\$ 1,324	\$ 55,697	\$ 53,289	\$ 2,408
57	G40 Low Annual-High Winter	\$ 133,193	\$ 262,410	\$ 509,389	\$ 281,690	\$ 193,321	\$ 75,627	\$ 21,623	\$ 4,600	\$ -	\$ 86	\$ 3,300	\$ 36,173	\$ 1,521,410	\$ 1,455,630	\$ 65,781
58	G51 Med Annual-Low Winter	\$ 12,914	\$ 25,442	\$ 49,388	\$ 27,311	\$ 18,743	\$ 7,332	\$ 2,096	\$ 446	\$ -	\$ 8	\$ 320	\$ 3,507	\$ 147,508	\$ 141,130	\$ 6,378
59	G41 Med Annual-High Winter	\$ 87,456	\$ 172,301	\$ 334,470	\$ 184,961	\$ 126,937	\$ 49,657	\$ 14,198	\$ 3,020	\$ -	\$ 56	\$ 2,167	\$ 23,752	\$ 998,975	\$ 955,783	\$ 43,192
60	G52 High Annual-Low Winter	\$ 1,716	\$ 3,381	\$ 6,564	\$ 3,630	\$ 2,491	\$ 974	\$ 279	\$ 59	\$ -	\$ 1	\$ 43	\$ 466	\$ 19,604	\$ 18,756	\$ 848
61	G42 High Annual-High Winter	\$ 21,124	\$ 41,618	\$ 80,789	\$ 44,676	\$ 30,661	\$ 11,994	\$ 3,429	\$ 730	\$ -	\$ 14	\$ 523	\$ 5,737	\$ 241,296	\$ 230,863	\$ 10,433
62	TOTAL	\$ 508,235	\$ 1,001,301	\$ 1,943,718	\$ 1,074,869	\$ 737,672	\$ 288,576	\$ 82,507	\$ 17,552	\$ -	\$ 327	\$ 12,591	\$ 138,029	\$ 5,805,376	\$ 5,554,370	\$ 251,006
63																
64	Residential	\$ 246,956	\$ 486,541	\$ 944,470	\$ 522,289	\$ 358,442	\$ 140,222	\$ 40,091	\$ 8,529	\$ -	\$ 159	\$ 6,118	\$ 67,069	\$ 2,820,886	\$ 2,698,920	\$ 121,966
65	SALES HLF CLASSES	\$ 19,506	\$ 38,430	\$ 74,599	\$ 41,253	\$ 28,312	\$ 11,075	\$ 3,167	\$ 674	\$ -	\$ 13	\$ 483	\$ 5,298	\$ 222,808	\$ 213,175	\$ 9,634
66	SALES LLF CLASSES	\$ 241,773	\$ 476,330	\$ 924,648	\$ 511,327	\$ 350,919	\$ 137,279	\$ 39,249	\$ 8,350	\$ -	\$ 156	\$ 5,990	\$ 65,662	\$ 2,761,682	\$ 2,642,275	\$ 119,406
67																

STORAGE AND ON-SYSTEM PEAKING DEMAND

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER	
68																
69	NH DIVISION TOTAL - PEAKING & STORA	\$ 804,909	\$ 1,585,795	\$ 3,078,334	\$ 1,702,309	\$ 1,168,277	\$ 457,028	\$ 130,669	\$ 27,798	\$ -	\$ 518	\$ 19,940	\$ 218,601	\$ 9,194,179	\$ 8,796,652	\$ 397,527
70																
71	Res Heat	\$ 388,473	\$ 765,351	\$ 1,485,693	\$ 821,583	\$ 563,845	\$ 220,575	\$ 63,065	\$ 13,416	\$ -	\$ 250	\$ 9,624	\$ 105,503	\$ 4,437,377	\$ 4,245,519	\$ 191,858
72	Res General	\$ 2,640	\$ 5,202	\$ 10,098	\$ 5,584	\$ 3,832	\$ 1,499	\$ 429	\$ 91	\$ -	\$ 2	\$ 65	\$ 717	\$ 30,160	\$ 28,856	\$ 1,304
73	G50 Low Annual-Low Winter	\$ 7,722	\$ 15,214	\$ 29,534	\$ 16,332	\$ 11,209	\$ 4,385	\$ 1,254	\$ 267	\$ -	\$ 5	\$ 191	\$ 2,097	\$ 88,209	\$ 84,395	\$ 3,814
74	G40 Low Annual-High Winter	\$ 210,942	\$ 415,588	\$ 806,737	\$ 446,123	\$ 306,170	\$ 119,773	\$ 34,244	\$ 7,285	\$ -	\$ 136	\$ 5,226	\$ 57,289	\$ 2,409,511	\$ 2,305,332	\$ 104,180
75	G51 Med Annual-Low Winter	\$ 20,452	\$ 40,293	\$ 78,217	\$ 43,254	\$ 29,685	\$ 11,613	\$ 3,320	\$ 706	\$ -	\$ 13	\$ 507	\$ 5,554	\$ 233,613	\$ 223,513	\$ 10,101
76	G41 Med Annual-High Winter	\$ 138,507	\$ 272,880	\$ 529,712	\$ 292,929	\$ 201,034	\$ 78,644	\$ 22,485	\$ 4,783	\$ -	\$ 89	\$ 3,431	\$ 37,616	\$ 1,582,112	\$ 1,513,707	\$ 68,405
77	G52 High Annual-Low Winter	\$ 2,718	\$ 5,355	\$ 10,395	\$ 5,748	\$ 3,945	\$ 1,543	\$ 441	\$ 94	\$ -	\$ 2	\$ 67	\$ 738	\$ 31,047	\$ 29,704	\$ 1,342
78	G42 High Annual-High Winter	\$ 33,455	\$ 65,912	\$ 127,949	\$ 70,755	\$ 48,559	\$ 18,996	\$ 5,431	\$ 1,155	\$ -	\$ 22	\$ 829	\$ 9,086	\$ 382,149	\$ 365,627	\$ 16,523
79	TOTAL	\$ 804,909	\$ 1,585,795	\$ 3,078,334	\$ 1,702,309	\$ 1,168,277	\$ 457,028	\$ 130,669	\$ 27,798	\$ -	\$ 518	\$ 19,940	\$ 218,601	\$ 9,194,179	\$ 8,796,652	\$ 397,527
80																
81	Residential	\$ 391,113	\$ 770,552	\$ 1,495,791	\$ 827,168	\$ 567,677	\$ 222,074	\$ 63,493	\$ 13,507	\$ -	\$ 252	\$ 9,689	\$ 106,220	\$ 4,467,537	\$ 4,274,375	\$ 193,162
82	SALES HLF CLASSES	\$ 30,892	\$ 60,862	\$ 118,145	\$ 65,334	\$ 44,838	\$ 17,541	\$ 5,015	\$ 1,067	\$ -	\$ 20	\$ 765	\$ 8,390	\$ 352,869	\$ 337,613	\$ 15,257
83	SALES LLF CLASSES	\$ 382,904	\$ 754,380	\$ 1,464,398	\$ 809,807	\$ 555,763	\$ 217,413	\$ 62,161	\$ 13,224	\$ -	\$ 246	\$ 9,486	\$ 103,991	\$ 4,373,773	\$ 4,184,665	\$ 189,108
84																

Off-SYSTEM PEAKING DEMAND & OUTAGE REPLACEMENT

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
85															
86	NH DIVISION - OFF-SYSTEM PEAKING	\$ 349,433	\$ 663,430	\$ 1,303,698	\$ 712,091	\$ 515,142	\$ 217,703	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,761,497	\$ 3,761,497	\$ -
87															
88	Res Heat	\$ 168,647	\$ 320,190	\$ 629,202	\$ 343,676	\$ 248,622	\$ 105,070	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,815,407	\$ 1,815,407	\$ -
89	Res General	\$ 1,146	\$ 2,176	\$ 4,277	\$ 2,336	\$ 1,690	\$ 714	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,339	\$ 12,339	\$ -
90	G50 Low Annual-Low Winter	\$ 3,352	\$ 6,365	\$ 12,508	\$ 6,832	\$ 4,942	\$ 2,089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,088	\$ 36,088	\$ -
91	G40 Low Annual-High Winter	\$ 91,576	\$ 173,865	\$ 341,659	\$ 186,617	\$ 135,003	\$ 57,053	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 985,773	\$ 985,773	\$ -
92	G51 Med Annual-Low Winter	\$ 8,879	\$ 16,857	\$ 33,125	\$ 18,093	\$ 13,089	\$ 5,532	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95,575	\$ 95,575	\$ -
93	G41 Med Annual-High Winter	\$ 60,130	\$ 114,161	\$ 224,337	\$ 122,535	\$ 88,644	\$ 37,462	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 647,269	\$ 647,269	\$ -
94	G52 High Annual-Low Winter	\$ 1,180	\$ 2,240	\$ 4,402	\$ 2,405	\$ 1,740	\$ 735	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,702	\$ 12,702	\$ -
95	G42 High Annual-High Winter	\$ 14,524	\$ 27,575	\$ 54,187	\$ 29,598	\$ 21,411	\$ 9,049	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 156,344	\$ 156,344	\$ -
96	TOTAL	\$ 349,433	\$ 663,430	\$ 1,303,698	\$ 712,091	\$ 515,142	\$ 217,703	\$ -	\$ 3,761,497	\$ 3,761,497	\$ -				
97															
98	Residential	\$ 169,793	\$ 322,367	\$ 633,479	\$ 346,012	\$ 250,312	\$ 105,784	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,827,746	\$ 1,827,746	\$ -
99	SALES HLF CLASSES	\$ 14,557	\$ 27,638	\$ 54,312	\$ 29,666	\$ 21,461	\$ 9,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 156,704	\$ 156,704	\$ -
100	SALES LLF CLASSES	\$ 334,876	\$ 635,791	\$ 1,249,386	\$ 682,426	\$ 493,681	\$ 208,633	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,604,793	\$ 3,604,793	\$ -
101															
102															

Remaining Capacity Costs

39		
40	Res Heat	Company Analysis
41	Res General	Company Analysis
42	G50 Low Annual-Low Winter	Company Analysis
43	G40 Low Annual-High Winter	Company Analysis
44	G51 Med Annual-Low Winter	Company Analysis
45	G41 Med Annual-High Winter	Company Analysis
46	G52 High Annual-Low Winter	Company Analysis
47	G42 High Annual-High Winter	Company Analysis
48	TOTAL	Sum LN 40 : LN 47

REMAINING PIPELINE DEMAND

50	REMAINING PIPELINE DEMAND	
51		
52	NH DIVISION TOTAL - REMAINING PIPELINE	Attachment NUI-CAK-2, LN 70
53		
54	Res Heat	LN 40 Col D * LN 52
55	Res General	LN 41 Col D * LN 52
56	G50 Low Annual-Low Winter	LN 42 Col D * LN 52
57	G40 Low Annual-High Winter	LN 43 Col D * LN 52
58	G51 Med Annual-Low Winter	LN 44 Col D * LN 52
59	G41 Med Annual-High Winter	LN 45 Col D * LN 52
60	G52 High Annual-Low Winter	LN 46 Col D * LN 52
61	G42 High Annual-High Winter	LN 47 Col D * LN 52
62	TOTAL	Sum LN 54 : LN 61
63		
64	Residential	LN 54 + LN 55
65	SALES HLF CLASSES	LN 56 + LN 58 + LN 60
66	SALES LLF CLASSES	LN 57 + LN 59 + LN 61

STORAGE AND ON-SYSTEM PEAKING DEMAND

67		
68	STORAGE AND ON-SYSTEM PEAKING DEMAND	
69		
70	NH DIVISION TOTAL - PEAKING & STORAGE	Attachment NUI-CAK-2, LN 73
71		
72	Res Heat	LN 40 Col D * LN 70
73	Res General	LN 41 Col D * LN 70
74	G50 Low Annual-Low Winter	LN 42 Col D * LN 70
75	G40 Low Annual-High Winter	LN 43 Col D * LN 70
76	G51 Med Annual-Low Winter	LN 44 Col D * LN 70
77	G41 Med Annual-High Winter	LN 45 Col D * LN 70
78	G52 High Annual-Low Winter	LN 46 Col D * LN 70
79	G42 High Annual-High Winter	LN 47 Col D * LN 70
80	TOTAL	Sum LN 72 : LN 79
81		
82	Residential	LN 72 + LN 73
83	SALES HLF CLASSES	LN 74 + LN 76 + LN 78
84	SALES LLF CLASSES	LN 75 + LN 77 + LN 79

Off-SYSTEM PEAKING DEMAND & OUTAGE

85		
86	Off-SYSTEM PEAKING DEMAND & OUTAGE	
87		
88	NH DIVISION - OFF-SYSTEM PEAKING	Attachment NUI-CAK-2, LN 74
89		
90	Res Heat	LN 40 Col D * LN 88
91	Res General	LN 41 Col D * LN 88
92	G50 Low Annual-Low Winter	LN 42 Col D * LN 88
93	G40 Low Annual-High Winter	LN 43 Col D * LN 88
94	G51 Med Annual-Low Winter	LN 44 Col D * LN 88
95	G41 Med Annual-High Winter	LN 45 Col D * LN 88
96	G52 High Annual-Low Winter	LN 46 Col D * LN 88
97	G42 High Annual-High Winter	LN 47 Col D * LN 88
98	TOTAL	Sum LN 90 : LN 97
99		
100	Residential	LN 90 + LN 91
101	SALES HLF CLASSES	LN 92 + LN 94 + LN 96
102	SALES LLF CLASSES	LN 93 + LN 95 + LN 97

103
104

105 **CAPACITY RELEASE MARGINS & ASSET MANAGEMENT CREDIT BY CLASS**

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
106 NH DIVISION - MONTHLY CAP. RELEASE	\$ (812,096)	\$ (1,540,035)	\$ (2,931,376)	\$ (1,648,649)	\$ (1,150,827)	\$ (487,802)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (8,570,786)	\$ (8,570,786)	\$ -
107 Res Heat	\$ (391,941)	\$ (743,266)	\$ (1,414,767)	\$ (795,686)	\$ (555,422)	\$ (235,427)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,136,509)	\$ (4,136,509)	\$ -
108 Res General	\$ (2,664)	\$ (5,052)	\$ (9,616)	\$ (5,408)	\$ (3,775)	\$ (1,600)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (28,115)	\$ (28,115)	\$ -
109 G50 Low Annual-Low Winter	\$ (7,791)	\$ (14,775)	\$ (28,124)	\$ (15,817)	\$ (11,041)	\$ (4,680)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (82,228)	\$ (82,228)	\$ -
110 G40 Low Annual-High Winter	\$ (212,825)	\$ (403,596)	\$ (768,223)	\$ (432,060)	\$ (301,596)	\$ (127,838)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,246,139)	\$ (2,246,139)	\$ -
111 G51 Med Annual-Low Winter	\$ (20,634)	\$ (39,130)	\$ (74,483)	\$ (41,890)	\$ (29,241)	\$ (12,394)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (217,774)	\$ (217,774)	\$ -
112 G41 Med Annual-High Winter	\$ (139,744)	\$ (265,006)	\$ (504,424)	\$ (283,696)	\$ (198,031)	\$ (83,940)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,474,840)	\$ (1,474,840)	\$ -
113 G52 High Annual-Low Winter	\$ (2,742)	\$ (5,200)	\$ (9,899)	\$ (5,567)	\$ (3,886)	\$ (1,647)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (28,942)	\$ (28,942)	\$ -
114 G42 High Annual-High Winter	\$ (33,754)	\$ (64,010)	\$ (121,841)	\$ (68,525)	\$ (47,833)	\$ (20,275)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (356,239)	\$ (356,239)	\$ -
115 TOTAL	\$ (812,096)	\$ (1,540,035)	\$ (2,931,376)	\$ (1,648,649)	\$ (1,150,827)	\$ (487,802)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (8,570,786)	\$ (8,570,786)	\$ -
116 Residential	\$ (394,605)	\$ (748,318)	\$ (1,424,383)	\$ (801,094)	\$ (559,197)	\$ (237,027)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,164,624)	\$ (4,164,624)	\$ -
117 SALES HLF CLASSES	\$ (31,168)	\$ (59,106)	\$ (112,505)	\$ (63,275)	\$ (44,168)	\$ (18,722)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (328,944)	\$ (328,944)	\$ -
118 SALES LLF CLASSES	\$ (386,323)	\$ (732,612)	\$ (1,394,488)	\$ (784,281)	\$ (547,461)	\$ (232,053)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,077,218)	\$ (4,077,218)	\$ -

123 **MISCELLANEOUS CREDITS BY CLASS (Includes Re-entry Rate & Conversion Rate Revenues)**

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
124 NH DIVISION - MISCELLANEOUS CREDIT	\$ (474)	\$ (898)	\$ (1,710)	\$ (962)	\$ (671)	\$ (285)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (5,000)	\$ (5,000)	\$ -
125 Res Heat	\$ (229)	\$ (434)	\$ (825)	\$ (464)	\$ (324)	\$ (137)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,413)	\$ (2,413)	\$ -
126 Res General	\$ (2)	\$ (3)	\$ (6)	\$ (3)	\$ (2)	\$ (1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (16)	\$ (16)	\$ -
127 G50 Low Annual-Low Winter	\$ (5)	\$ (9)	\$ (16)	\$ (9)	\$ (6)	\$ (3)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (48)	\$ (48)	\$ -
128 G40 Low Annual-High Winter	\$ (124)	\$ (235)	\$ (448)	\$ (252)	\$ (176)	\$ (75)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (1,310)	\$ (1,310)	\$ -
129 G51 Med Annual-Low Winter	\$ (12)	\$ (23)	\$ (43)	\$ (24)	\$ (17)	\$ (7)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (127)	\$ (127)	\$ -
130 G41 Med Annual-High Winter	\$ (82)	\$ (155)	\$ (294)	\$ (166)	\$ (116)	\$ (49)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (860)	\$ (860)	\$ -
131 G52 High Annual-Low Winter	\$ (2)	\$ (3)	\$ (6)	\$ (3)	\$ (2)	\$ (1)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (17)	\$ (17)	\$ -
132 G42 High Annual-High Winter	\$ (20)	\$ (37)	\$ (71)	\$ (40)	\$ (28)	\$ (12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (208)	\$ (208)	\$ -
133 TOTAL	\$ (474)	\$ (898)	\$ (1,710)	\$ (962)	\$ (671)	\$ (285)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (5,000)	\$ (5,000)	\$ -
134 Residential	\$ (230)	\$ (437)	\$ (831)	\$ (467)	\$ (326)	\$ (138)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (2,430)	\$ (2,430)	\$ -
135 SALES HLF CLASSES	\$ (20)	\$ (37)	\$ (71)	\$ (40)	\$ (28)	\$ (12)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (208)	\$ (208)	\$ -
136 SALES LLF CLASSES	\$ (454)	\$ (861)	\$ (1,639)	\$ (922)	\$ (643)	\$ (273)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,792)	\$ (4,792)	\$ -

141 **TOTAL NON-BASE CAPACITY COSTS**

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
142 Res Heat	\$ 410,238	\$ 825,098	\$ 1,637,398	\$ 887,873	\$ 612,742	\$ 229,355	\$ 102,885	\$ 21,888	\$ -	\$ 408	\$ 15,700	\$ 172,120	\$ 4,915,705	\$ 4,602,704	\$ 313,001
143 Res General	\$ 2,788	\$ 5,608	\$ 11,129	\$ 6,035	\$ 4,165	\$ 1,559	\$ 699	\$ 149	\$ -	\$ 3	\$ 107	\$ 1,170	\$ 33,411	\$ 31,283	\$ 2,127
144 G50 Low Annual-Low Winter	\$ 8,155	\$ 16,402	\$ 32,549	\$ 17,650	\$ 12,181	\$ 4,559	\$ 2,045	\$ 435	\$ -	\$ 8	\$ 312	\$ 3,422	\$ 97,718	\$ 91,496	\$ 6,222
145 G40 Low Annual-High Winter	\$ 222,761	\$ 448,031	\$ 889,113	\$ 482,118	\$ 332,721	\$ 124,540	\$ 55,867	\$ 11,885	\$ -	\$ 222	\$ 8,525	\$ 93,462	\$ 2,669,245	\$ 2,499,284	\$ 169,960
146 G51 Med Annual-Low Winter	\$ 21,598	\$ 43,439	\$ 86,204	\$ 46,744	\$ 32,259	\$ 12,075	\$ 5,417	\$ 1,152	\$ -	\$ 21	\$ 827	\$ 9,062	\$ 258,796	\$ 242,317	\$ 16,478
147 G41 Med Annual-High Winter	\$ 146,267	\$ 294,182	\$ 583,801	\$ 316,564	\$ 218,468	\$ 81,775	\$ 36,683	\$ 7,804	\$ -	\$ 145	\$ 5,598	\$ 61,368	\$ 1,752,656	\$ 1,641,058	\$ 111,598
148 G52 High Annual-Low Winter	\$ 2,870	\$ 5,773	\$ 11,456	\$ 6,212	\$ 4,287	\$ 1,605	\$ 720	\$ 153	\$ -	\$ 3	\$ 110	\$ 1,204	\$ 34,394	\$ 32,204	\$ 2,190
149 G42 High Annual-High Winter	\$ 35,330	\$ 71,058	\$ 141,014	\$ 76,464	\$ 52,770	\$ 19,752	\$ 8,861	\$ 1,885	\$ -	\$ 35	\$ 1,352	\$ 14,823	\$ 423,343	\$ 396,388	\$ 26,956
150 TOTAL	\$ 850,007	\$ 1,709,592	\$ 3,392,664	\$ 1,839,659	\$ 1,269,593	\$ 475,219	\$ 213,176	\$ 45,351	\$ -	\$ 845	\$ 32,531	\$ 356,630	\$ 10,185,267	\$ 9,536,734	\$ 648,533
151 Residential	\$ 413,027	\$ 830,706	\$ 1,648,527	\$ 893,907	\$ 616,907	\$ 230,914	\$ 103,584	\$ 22,036	\$ -	\$ 411	\$ 15,807	\$ 173,290	\$ 4,949,115	\$ 4,633,987	\$ 315,128
152 SALES HLF CLASSES	\$ 32,623	\$ 65,614	\$ 130,209	\$ 70,605	\$ 48,727	\$ 18,239	\$ 8,182	\$ 1,741	\$ -	\$ 32	\$ 1,249	\$ 13,687	\$ 390,907	\$ 366,017	\$ 24,890
153 SALES LLF CLASSES	\$ 404,358	\$ 813,272	\$ 1,613,928	\$ 875,146	\$ 603,960	\$ 226,067	\$ 101,410	\$ 21,574	\$ -	\$ 402	\$ 15,475	\$ 169,653	\$ 4,845,244	\$ 4,536,730	\$ 308,514

154 **TOTAL CAPACITY COSTS**

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
155 Res Heat	\$ 465,893	\$ 880,548	\$ 1,692,847	\$ 943,322	\$ 668,192	\$ 285,819	\$ 158,334	\$ 77,337	\$ 55,450	\$ 55,858	\$ 71,150	\$ 227,570	\$ 5,582,321	\$ 4,936,622	\$ 645,699
156 Res General	\$ 4,051	\$ 8,866	\$ 12,387	\$ 7,293	\$ 5,423	\$ 2,840	\$ 1,957	\$ 1,407	\$ 1,258	\$ 1,261	\$ 1,365	\$ 2,428	\$ 48,536	\$ 38,860	\$ 9,676
157 G50 Low Annual-Low Winter	\$ 18,285	\$ 26,494	\$ 42,642	\$ 27,742	\$ 22,273	\$ 14,836	\$ 12,138	\$ 10,527	\$ 10,092	\$ 10,100	\$ 10,404	\$ 13,514	\$ 219,049	\$ 152,272	\$ 66,776
158 G40 Low Annual-High Winter	\$ 242,441	\$ 467,638	\$ 908,720	\$ 501,725	\$ 352,328	\$ 144,506	\$ 75,474	\$ 31,492	\$ 19,607	\$ 19,829	\$ 28,132	\$ 113,069	\$ 2,904,962	\$ 2,617,358	\$ 287,603
159 G51 Med Annual-Low Winter	\$ 38,609	\$ 60,387	\$ 103,152	\$ 63,692	\$ 49,207	\$ 29,333	\$ 22,365	\$ 18,100	\$ 16,948	\$ 16,970	\$ 17,775	\$ 26,010	\$ 462,546	\$ 344,379	\$ 118,167
160 G41 Med Annual-High Winter	\$ 165,119	\$ 312,965	\$ 602,584	\$ 335,347	\$ 237,251	\$ 100,901	\$ 55,465	\$ 26,586	\$ 18,783	\$ 18,928	\$ 24,381	\$ 80,151	\$ 1,978,461	\$ 1,754,167	\$ 224,294
161 G52 High Annual-Low Winter	\$ 9,645	\$ 13,017	\$ 18,701	\$ 13,457	\$ 11,532	\$ 6,528	\$ 7,964	\$ 7,398	\$ 7,244	\$ 7,247	\$ 7,354	\$ 8,449	\$ 118,536	\$ 72,880	\$ 45,656
162 G42 High Annual-High Winter	\$ 40,020	\$ 75,731	\$ 145,687	\$ 81,137	\$ 57,443	\$ 24,511	\$ 13,534	\$ 6,558	\$ 4,673	\$ 4,708	\$ 6,025	\$ 19,496	\$ 479,525	\$ 424,530	\$ 54,995
163 TOTAL	\$ 984,063	\$ 1,843,647	\$ 3,526,719	\$ 1,973,714	\$ 1,403,649	\$ 609,275	\$ 347,232	\$ 179,406	\$ 134,056	\$ 134,901	\$ 166,587	\$ 490,686	\$ 11,793,935	\$ 10,341,068	\$ 1,452,867
164 Residential	\$ 469,944	\$ 887,414	\$ 1,705,234	\$ 950,615	\$ 673,615	\$ 288,659	\$ 160,292	\$ 78,744	\$ 56,708	\$ 57,119	\$ 72,515	\$ 229,998	\$ 5,630,856	\$ 4,975,482	\$ 655,375
165 SALES HLF CLASSES	\$ 66,539	\$ 99,898	\$ 164,494	\$ 104,890	\$ 83,011	\$ 50,698	\$ 42,467	\$ 36,025	\$ 34,285	\$ 34,317	\$ 35,533	\$ 47,972	\$ 800,131	\$ 569,531	\$ 230,600
166 SALES LLF CLASSES	\$ 447,580	\$ 856,335	\$ 1,656,991	\$ 918,209	\$ 647,023	\$ 269,918	\$ 144,473	\$ 64,637	\$ 43,063	\$ 43,465	\$ 58,538	\$ 212,716	\$ 5,362,948	\$ 4,796,055	\$ 566,892
167 % ALLOCATION BETWEEN SALES HLF AND LLF															
174 SALES HLF CLASSES															28.92%
175 SALES LLF CLASSES															71.08%

105	CAPACITY RELEASE MARGINS & ASSET MANAGEMENT CREDIT BY CLASS	
106		
107	NH DIVISION - MONTHLY CAP. RELEASE	Attachment NUI-CAK-2, LN 77
108		
109	Res Heat	LN 40 Col D * LN 107
110	Res General	LN 41 Col D * LN 107
111	G50 Low Annual-Low Winter	LN 42 Col D * LN 107
112	G40 Low Annual-High Winter	LN 43 Col D * LN 107
113	G51 Med Annual-Low Winter	LN 44 Col D * LN 107
114	G41 Med Annual-High Winter	LN 45 Col D * LN 107
115	G52 High Annual-Low Winter	LN 46 Col D * LN 107
116	G42 High Annual-High Winter	LN 47 Col D * LN 107
117	TOTAL	Sum LN 109 : LN 116
118		
119	Residential	LN 109 + LN 110
120	SALES HLF CLASSES	LN 111 + LN 113 + LN 115
121	SALES LLF CLASSES	LN 112 + LN 114 + LN 116
122		
123	MISCELLANEOUS CREDITS BY CLASS (Includes Re-entry Rate & Conversion Ra	
124		
125	NH DIVISION - MISCELLANEOUS CREDIT	Attachment NUI-CAK-2, LN 78 + LN 79
126		
127	Res Heat	LN 40 Col D * LN 125
128	Res General	LN 41 Col D * LN 125
129	G50 Low Annual-Low Winter	LN 42 Col D * LN 125
130	G40 Low Annual-High Winter	LN 43 Col D * LN 125
131	G51 Med Annual-Low Winter	LN 44 Col D * LN 125
132	G41 Med Annual-High Winter	LN 45 Col D * LN 125
133	G52 High Annual-Low Winter	LN 46 Col D * LN 125
134	G42 High Annual-High Winter	LN 47 Col D * LN 125
135	TOTAL	Sum LN 127 : LN 134
136		
137	Residential	LN 127 + LN 128
138	SALES HLF CLASSES	LN 129 + LN 131 + LN 133
139	SALES LLF CLASSES	LN 130 + LN 132 + LN 134
140		
141	TOTAL NON-BASE CAPACITY COSTS	
142		
143	Res Heat	Sum of Ln 54, 72, 90, 109, 127
144	Res General	Sum of Ln 55, 73, 91, 110, 128
145	G50 Low Annual-Low Winter	Sum of Ln 56, 74, 92, 111, 129
146	G40 Low Annual-High Winter	Sum of Ln 57, 75, 93, 112, 130
147	G51 Med Annual-Low Winter	Sum of Ln 58, 76, 94, 113, 131
148	G41 Med Annual-High Winter	Sum of Ln 59, 77, 95, 114, 132
149	G52 High Annual-Low Winter	Sum of Ln 60, 78, 96, 115, 133
150	G42 High Annual-High Winter	Sum of Ln 61, 79, 97, 116, 134
151	TOTAL	Sum LN 143 : LN 150
152		
153	Residential	LN 143 + LN 144
154	SALES HLF CLASSES	LN 145 + LN 147 + LN 149
155	SALES LLF CLASSES	LN 146 + LN 148 + LN 150
156		
157	TOTAL CAPACITY COSTS	
158		
159	Res Heat	LN 143 + LN 26
160	Res General	LN 144 + LN 27
161	G50 Low Annual-Low Winter	LN 145 + LN 28
162	G40 Low Annual-High Winter	LN 146 + LN 29
163	G51 Med Annual-Low Winter	LN 147 + LN 30
164	G41 Med Annual-High Winter	LN 148 + LN 31
165	G52 High Annual-Low Winter	LN 149 + LN 32
166	G42 High Annual-High Winter	LN 150 + LN 33
167	TOTAL	Sum LN 159 : LN 166
168		
169	Residential	LN 159 + LN 160
170	SALES HLF CLASSES	LN 161 + LN 163 + LN 165
171	SALES LLF CLASSES	LN 162 + LN 164 + LN 166
172		
173	% ALLOCATION BETWEEN SALES HLF AN	
174	SALES HLF CLASSES	LN 170 / (LN170 + LN 171)
175	SALES LLF CLASSES	LN 171 / (LN 170 + LN 171)

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
1 Supply Volumes - MMBtu															
2 Total Pipeline	577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	8,759,207	6,035,977	2,723,230
3 Total Storage	682,353	639,699	746,763	717,662	561,116	0	0	0	0	0	0	0	3,347,592	3,347,592	0
4 Total Peaking	1,800	12,315	211,976	24,770	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	265,562	254,522	11,040
5 Total Off-system Sales													0	0	0
6 Subtotal	1,261,202	1,783,041	2,114,463	1,841,310	1,606,966	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	12,372,361	9,638,091	2,734,270
7 Less Interruptible - Maine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Less Interruptible - New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9 Total Firm Supply	1,261,202	1,783,041	2,114,463	1,841,310	1,606,966	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	12,372,361	9,638,091	2,734,270
10 Total Firm Pipeline Sendout	577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	8,759,207	6,035,977	2,723,230
11 Variable Costs															
12 Base Pipeline Costs Modeled in Sendout™	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 66,991,729	\$ 54,005,233	\$ 12,986,496
13 NYMEX Price Used for Forecast	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ -	\$ -	\$ -
14 NYMEX Price Used for Update	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ -	\$ -	\$ -
15 Increase/(Decrease) NYMEX Price	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ -	\$ -	\$ -
16 Increase/(Decrease) in Pipeline Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17 Total Updated Pipeline Costs	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 66,991,729	\$ 54,005,233	\$ 12,986,496
18															
19 Total Pipeline	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 66,991,729	\$ 54,005,233	\$ 12,986,496
20 Total Storage	\$ 5,057,363	\$ 4,741,424	\$ 5,542,789	\$ 5,343,552	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,862,476	\$ 24,862,476	\$ -
21 Total Peaking	\$ 33,715	\$ 539,811	\$ 3,908,905	\$ 996,579	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 6,199,876	\$ 5,679,104	\$ 520,772
22 Total Off-sytem Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23															
24 Subtotal	\$ 9,744,079	\$ 15,852,425	\$ 22,497,538	\$ 18,606,170	\$ 12,352,055	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 98,054,081	\$ 84,546,814	\$ 13,507,267
25															
26 Interruptible Cost Estimate															
27 Variable Pipeline Costs	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 66,991,729	\$ 54,005,233	\$ 12,986,496
28 Average Supply Cost (\$/MMBtu)	\$ 8.063	\$ 9.347	\$ 11.288	\$ 11.162	\$ 7.730	\$ 5.245	\$ 4.858	\$ 4.721	\$ 4.826	\$ 4.793	\$ 4.479	\$ 4.844	\$ -	\$ -	\$ -
29 Interruptible Cost - Maine	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30 Interruptible Cost - New Hampshire	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
31															
32 Total Pipeline	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 66,991,729	\$ 54,005,233	\$ 12,986,496
33 Total Storage	\$ 5,057,363	\$ 4,741,424	\$ 5,542,789	\$ 5,343,552	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,862,476	\$ 24,862,476	\$ -
34 Total Peaking	\$ 33,715	\$ 539,811	\$ 3,908,905	\$ 996,579	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 6,199,876	\$ 5,679,104	\$ 520,772
35 Off-system Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36 Total Firm Sales Variable Costs	\$ 9,744,079	\$ 15,852,425	\$ 22,497,538	\$ 18,606,170	\$ 12,352,055	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 98,054,081	\$ 84,546,814	\$ 13,507,267

Exhibit 2

Northern Utilities, Inc.
 New Hampshire Division
 Attachment NUI-CAK-5
 Page 2 of 6

Northern Utilities

ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

1	Supply Volumes - MMBtu	
2	Total Pipeline	Attachment NUI-FXW-8, Page 2
3	Total Storage	Attachment NUI-FXW-8, Page 2
4	Total Peaking	Attachment NUI-FXW-8, Page 2
5	Total Off-system Sales	NA
6	Subtotal	SUM LN 2: LN 6
7	Less Interruptible - Maine	Company Analysis
8	Less Interruptible - New Hampshire	Company Analysis
9	Total Firm Supply	LN 7 - LN 8 - LN 9
10	Total Firm Pipeline Sendout	LN 2 + LN 3- LN 8 - LN 9
11	Variable Costs	
12	Pipeline Costs Modeled in Sendout™	Attachment NUI-FXW-8, Page 1
13	NYMEX Price Used for Forecast	Attachment NUI-FXW10, Page 1
14	NYMEX Price Used for Update	Attachment NUI-FXW10, Page 1
15	Increase/(Decrease) NYMEX Price	LN 13 - LN 14
16	Increase/(Decrease) in Pipeline Costs	LN 2 * LN 15
17	Total Updated Pipeline Costs	LN 12 + LN 16
18		
19	Total Pipeline Baseload	LN 17
20	Total Storage	Attachment NUI-FXW-8, Page 1
21	Total Peaking	Attachment NUI-FXW-8, Page 1
22	Total Off-sytem Sales	NA
23		
24	Subtotal	Sum LN 19 : LN 22
25		
26	Interruptible Cost Estimate	Company Analysis
27	Variable Pipeline Costs Excl'd Hedges	LN 17
28	Average Supply Cost (\$/MMBtu)	LN 27 / LN 2
29	Interruptible Cost - Maine	LN 28 * LN 7
30	Interruptible Cost - New Hampshire	LN 28 * LN 8
31		
32	Firm Sales Pipeline Commodity	LN 19 - LN 29 - LN 30
33	Total Storage	LN 20
34	Total Peaking	LN 21
35	Off-system Sales	LN 22
36	Total Firm Sales Variable Costs	SUM LN 32 : LN 35

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

37 **Commodity Allocation Factors**

38 Firm Sales Sendout for Normal Winter, MMBtu

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
40 Maine	787,426	1,098,685	1,307,121	1,149,264	1,018,347	691,730	389,721	274,069	253,283	253,739	268,128	424,324	7,915,838	6,052,574	1,863,265
41 New Hampshire	473,776	684,356	807,343	692,045	588,618	339,380	188,182	121,906	104,158	105,029	116,500	235,230	4,456,523	3,585,518	871,005
42 Total	1,261,202	1,783,041	2,114,464	1,841,310	1,606,966	1,031,110	577,904	395,975	357,441	358,768	384,628	659,554	12,372,362	9,638,092	2,734,270

44 **Percentage of Total**

45 Maine	62.43%	61.62%	61.82%	62.42%	63.37%	67.09%	67.44%	69.21%	70.86%	70.73%	69.71%	64.34%	63.98%	62.80%	68.14%
46 New Hampshire	37.57%	38.38%	38.18%	37.58%	36.63%	32.91%	32.56%	30.79%	29.14%	29.27%	30.29%	35.66%	36.02%	37.20%	31.86%
47 Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

49 **Commodity Allocation by Jurisdiction**

50 **Maine**

51 Total Pipeline	\$ 2,905,081	\$ 6,513,820	\$ 8,064,692	\$ 7,655,921	\$ 5,114,200	\$ 3,621,893	\$ 1,887,350	\$ 1,287,952	\$ 1,215,954	\$ 1,209,756	\$ 1,195,410	\$ 2,049,505	\$ 42,721,533	\$ 33,875,606	\$ 8,845,927
52 Storage	\$ 3,157,543	\$ 2,921,599	\$ 3,426,446	\$ 3,335,210	\$ 2,647,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,488,018	\$ 15,488,018	\$ -
53 Peaking	\$ 21,050	\$ 332,624	\$ 2,416,410	\$ 622,021	\$ 66,180	\$ 64,176	\$ 59,969	\$ 59,115	\$ 62,538	\$ 62,419	\$ 58,370	\$ 55,452	\$ 3,880,324	\$ 3,522,460	\$ 357,864
54 Off-system Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
55 Total Maine Commodity Costs	\$ 6,083,674	\$ 9,768,044	\$ 13,907,548	\$ 11,613,152	\$ 7,827,599	\$ 3,686,068	\$ 1,947,319	\$ 1,347,067	\$ 1,278,492	\$ 1,272,175	\$ 1,253,780	\$ 2,104,957	\$ 62,089,875	\$ 52,886,084	\$ 9,203,791
56 Maine Inventory Finance Costs	\$ 1,463	\$ 2,280	\$ 2,843	\$ 2,483	\$ 2,064	\$ 1,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,337	\$ 12,337	\$ -
57 Total Maine Variable Costs	\$ 6,085,136	\$ 9,770,324	\$ 13,910,391	\$ 11,615,635	\$ 7,829,663	\$ 3,687,273	\$ 1,947,319	\$ 1,347,067	\$ 1,278,492	\$ 1,272,175	\$ 1,253,780	\$ 2,104,957	\$ 62,102,212	\$ 52,898,421	\$ 9,203,791

58 **New Hampshire**

59 Total Pipeline	\$ 1,747,920	\$ 4,057,370	\$ 4,981,153	\$ 4,610,118	\$ 2,956,075	\$ 1,776,991	\$ 911,334	\$ 572,880	\$ 500,037	\$ 500,749	\$ 519,400	\$ 1,136,170	\$ 24,270,196	\$ 20,129,627	\$ 4,140,569
60 Storage	\$ 1,899,820	\$ 1,819,825	\$ 2,116,343	\$ 2,008,342	\$ 1,530,128	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,374,458	\$ 9,374,458	\$ -
61 Peaking	\$ 12,665	\$ 207,187	\$ 1,492,494	\$ 374,558	\$ 38,253	\$ 31,486	\$ 28,957	\$ 26,294	\$ 25,718	\$ 25,837	\$ 25,362	\$ 30,741	\$ 2,319,552	\$ 2,156,644	\$ 162,908
62 Off-system Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
63 Total New Hampshire Commodity Costs	\$ 3,660,406	\$ 6,084,382	\$ 8,589,990	\$ 6,993,018	\$ 4,524,456	\$ 1,808,478	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	\$ 35,964,206	\$ 31,660,730	\$ 4,303,477
64 New Hampshire Inventory Finance Costs	\$ 799	\$ 1,243	\$ 1,507	\$ 1,281	\$ 1,038	\$ 514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,382	\$ 6,382	\$ -
65 Total New Hampshire Variable Costs	\$ 3,661,205	\$ 6,085,625	\$ 8,591,496	\$ 6,994,299	\$ 4,525,494	\$ 1,808,992	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	\$ 35,970,588	\$ 31,667,112	\$ 4,303,477

66 **Northern Utilities**

67 Total Pipeline	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 66,991,729	\$ 54,005,233	\$ 12,986,496
68 Storage	\$ 5,057,363	\$ 4,741,424	\$ 5,542,789	\$ 5,343,552	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,862,476	\$ 24,862,476	\$ -
69 Peaking	\$ 33,715	\$ 539,811	\$ 3,908,905	\$ 996,579	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 6,199,876	\$ 5,679,104	\$ 520,772
70 Off-system Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
71 Total Northern Commodity Costs	\$ 9,744,079	\$ 15,852,425	\$ 22,497,538	\$ 18,606,170	\$ 12,352,055	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 98,054,081	\$ 84,546,814	\$ 13,507,267
72 Northern Inventory Finance Costs	\$ 2,262	\$ 3,523	\$ 4,349	\$ 3,764	\$ 3,101	\$ 1,719	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,719	\$ 18,719	\$ -
73 Total Northern Variable Costs	\$ 9,746,341	\$ 15,855,949	\$ 22,501,887	\$ 18,609,934	\$ 12,355,156	\$ 5,496,265	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 98,072,800	\$ 84,565,533	\$ 13,507,267

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Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

37	Commodity Allocation Factors	
38	Firm Sales Sendout for Normal Winter, MMBtu	
39		
40	Maine	Company Analysis
41	New Hampshire	NUI-CAK-3, LN 33/10
42	Total	LN 40 + LN 41
43		
44	Percentage of Total	
45	Maine	LN 40 / LN 42
46	New Hampshire	LN 41 / LN 42
47	Total	LN 45 + LN 46
48		
49	Commodity Allocation by Jurisdiction	
50	Maine	
51	Firm Sales Pipeline Commodity	LN 32 * LN 45
52	Storage	LN 33 * LN 45
53	Peaking	LN 34 * LN 45
54	Off-system Sales	LN 35 * LN 45
55	Total Maine Commodity Costs	SUM LN 51 : LN 54
56	Maine Inventory Finance Costs	LN 95
57	Total Maine Variable Costs	LN 55 + LN 56
58	New Hampshire	
59	Firm Sales Pipeline Commodity Excl'd Hedge	LN 32 * LN 46
60	Storage	LN 33 * LN 46
61	Peaking	LN 34 * LN 46
62	Off-system Sales	LN 35 * LN 46
63	Total New Hampshire Commodity Costs	SUM LN 59 : LN 62
64	New Hampshire Inventory Finance Costs	LN 100
65	Total New Hampshire Variable Costs	LN 63 + LN 64
66	Northern Utilities	
67	Firm Sales Pipeline Commodity Excl'd Hedge	LN 51 + LN 59
68	Storage	LN 52 + LN 60
69	Peaking	LN 53 + LN 61
70	Off-system Sales	LN 54 + LN 62
71	Total Northern Commodity Costs	LN 55 + LN 63
72	Northern Inventory Finance Costs	LN 56 + LN 64
73	Total Northern Variable Costs	LN 57 + LN 65
74		

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

75 Northern Utilities
 76 Simplified Market Based Allocator (MBA) Calculations
 77 ALLOCATION OF NORTHERN INVENTORY FINANCE CHARGE

	Col A	Col B	Col C	Col D	Col E	Col F	Col G	Col H	Col I	Col J	Col K	Col L	Col M	Col N	Col O	Col P
81	Inventory Finance Charge	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
82	Storage	\$ 2,361	\$ 1,600	\$ 627	\$ 71	\$ (0)	\$ (0)	\$ (0)	\$ 186	\$ 548	\$ 915	\$ 1,270	\$ 1,603	\$ 9,380	\$ 4,572	\$ 4,522
83	Peaking	\$ 385	\$ 544	\$ 564	\$ 524	\$ 551	\$ 548	\$ 865	\$ 1,193	\$ 1,096	\$ 912	\$ 993	\$ 1,163	\$ 9,339	\$ 6,382	\$ 6,223
84	Total	\$ 2,946	\$ 2,144	\$ 1,190	\$ 595	\$ 551	\$ 548	\$ 865	\$ 1,379	\$ 1,644	\$ 1,827	\$ 2,263	\$ 2,766	\$ 18,719	\$ 10,745	\$ 10,745
85																
86	Inventory Finance Charge Allocation by Jurisdiction															
87	Maine	\$ 1,839	\$ 1,321	\$ 736	\$ 371	\$ 349	\$ 367	\$ 583	\$ 955	\$ 1,165	\$ 1,292	\$ 1,577	\$ 1,780	\$ 12,337	\$ 7,352	\$ 7,352
88	New Hampshire	\$ 1,107	\$ 823	\$ 454	\$ 224	\$ 202	\$ 180	\$ 282	\$ 425	\$ 479	\$ 535	\$ 685	\$ 987	\$ 6,382	\$ 3,392	\$ 3,392
89	Total	\$ 2,946	\$ 2,144	\$ 1,190	\$ 595	\$ 551	\$ 548	\$ 865	\$ 1,379	\$ 1,644	\$ 1,827	\$ 2,263	\$ 2,766	\$ 18,719	\$ 10,745	\$ 10,745
90																
91	Inventory Finance Charge Allocation by Month															
92	Maine															
93	Firm Sales Normal Remaining Sendout	542,093	845,174	1,053,610	920,287	764,836	446,396	0	0	0	0	0	0	0	4,572,396	0
94	Monthly % Sendout of Total Winter	11.86%	18.48%	23.04%	20.13%	16.73%	9.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
95	ME Allocated Inventory Finance Charge	\$ 1,463	\$ 2,280	\$ 2,843	\$ 2,483	\$ 2,064	\$ 1,204	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,337	\$ -
96																
97	New Hampshire															
98	Firm Sales Normal Remaining Sendout	372,930	579,763	702,749	597,574	484,025	239,980	0	0	0	0	0	0	0	2,977,020	0
99	Monthly % Sendout of Total Winter	12.53%	19.47%	23.61%	20.07%	16.26%	8.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
100	NH Allocated Inventory Finance Charge	\$ 799	\$ 1,243	\$ 1,507	\$ 1,281	\$ 1,038	\$ 514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,382	\$ -

Northern Utilities

ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

75 **Northern Utilities**

76 **Simplified Market Based Allocator (MBA) Calculations**

77 **ALLOCATION OF NORTHERN INVENTORY FINANCE CHARGE**

78
79
80

81	Inventory Finance Charge	
82	Storage	Attachment NUI-CAK-7 - 'Carrying Costs'
83	Peaking	Attachment NUI-CAK-7 - 'Carrying Costs'
84	Total	SUM LN 82 : LN 83

85

86	Inventory Finance Charge Allocation by Jurisdiction	
87	Maine	LN 45 * LN 84
88	New Hampshire	LN 46 * LN 84
89	Total	SUM LN 87 : LN 88

90

91 **Inventory Finance Charge Allocation by Month**

92 **Maine**

93	Firm Sales Remaining Sendout	Attachment NUI-CAK-3, LN 80/10
94	Monthly % Sendout of Total Winter	LN 93 / LN 93 COL O
95	ME Allocated Inventory Finance Charge	LN 94 * LN 87 COL N

96

97 **New Hampshire**

98	Firm Sales Remaining Sendout	Attachment NUI-CAK-3, LN 80/10
99	Monthly % Sendout of Total Winter	LN 98 / LN 98 COL O
100	NH Allocated Inventory Finance Charge	LN 99 * LN 88 COL N

**Northern Utilities - NEW HAMPSHIRE DIVISION
COMMODITY COSTS**

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
Supply Volumes - Therms															
1 New Hampshire Sales Pipeline	2,167,711	4,341,037	4,412,773	4,130,069	3,824,051	3,387,873	1,875,769	1,213,516	1,036,157	1,044,845	1,159,550	2,345,664	30,939,015	22,263,514	8,675,501
2 New Hampshire Sales Storage	2,563,287	2,455,254	2,851,285	2,697,289	2,055,320	0	0	0	0	0	0	0	12,622,435	12,622,435	0
3 New Hampshire Sales Peaking	6,762	47,268	809,366	93,096	6,813	5,925	6,057	5,542	5,420	5,445	5,452	6,634	1,003,779	969,230	34,549
4 Total New Hampshire Firm Sales Sendout	4,737,760	6,843,560	8,073,424	6,920,454	5,886,184	3,393,797	1,881,825	1,219,057	1,041,577	1,050,290	1,165,002	2,352,298	44,565,229	35,855,179	8,710,050
5 New Hampshire Interruptible Sendout (Pipeline)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6															
7															
8 Total Firm Sendout	4,737,760	6,843,560	8,073,424	6,920,454	5,886,184	3,393,797	1,881,825	1,219,057	1,041,577	1,050,290	1,165,002	2,352,298	44,565,229	35,855,179	8,710,050
9 Total Firm Sales	4,691,806	6,777,181	7,995,118	6,853,328	5,829,089	3,360,882	1,863,572	1,207,233	1,031,474	1,040,103	1,153,702	2,329,480	44,132,969	35,507,405	8,625,565
10 Difference (LAUF & Company Use)	45,954	66,379	78,306	67,126	57,095	32,916	18,254	11,824	10,103	10,187	11,300	22,818	432,259	347,774	84,485
11 Percent Difference	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%
12															
Variable Costs															
13															
14 New Hampshire Sales Pipeline	\$ 1,747,920	\$ 4,057,370	\$ 4,981,153	\$ 4,610,118	\$ 2,956,075	\$ 1,776,991	\$ 911,334	\$ 572,880	\$ 500,037	\$ 500,749	\$ 519,400	\$ 1,136,170	\$ 24,270,196	\$ 20,129,627	\$ 4,140,569
15 New Hampshire Total Storage	\$ 1,899,820	\$ 1,819,825	\$ 2,116,343	\$ 2,008,342	\$ 1,530,128	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,374,458	\$ 9,374,458	\$ -
16 New Hampshire Total Peaking	\$ 12,665	\$ 207,187	\$ 1,492,494	\$ 374,558	\$ 38,253	\$ 31,486	\$ 28,957	\$ 26,294	\$ 25,718	\$ 25,837	\$ 25,362	\$ 30,741	\$ 2,319,552	\$ 2,156,644	\$ 162,908
17 New Hampshire Inventory Finance Charge	\$ 799	\$ 1,243	\$ 1,507	\$ 1,281	\$ 1,038	\$ 514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,382	\$ 6,382	\$ -
18 Total New Hampshire Sales Variable Costs	\$ 3,661,205	\$ 6,085,625	\$ 8,591,496	\$ 6,994,299	\$ 4,525,494	\$ 1,808,992	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	\$ 35,970,588	\$ 31,667,112	\$ 4,303,477
19															
20 New Hampshire Interruptible Commodity Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21 Total New Hampshire Commodity Costs	\$ 3,661,205	\$ 6,085,625	\$ 8,591,496	\$ 6,994,299	\$ 4,525,494	\$ 1,808,992	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	\$ 35,970,588	\$ 31,667,112	\$ 4,303,477
22															
Supply Cost/Therm															
23															
24 New Hampshire Sales Pipeline	\$ 0.806	\$ 0.935	\$ 1.129	\$ 1.116	\$ 0.773	\$ 0.525	\$ 0.486	\$ 0.472	\$ 0.483	\$ 0.479	\$ 0.448	\$ 0.484	\$ 0.784	\$ 0.904	\$ 0.477
25 New Hampshire Storage Excl Inventory Finance Costs	\$ 0.741	\$ 0.741	\$ 0.742	\$ 0.745	\$ 0.744	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.743	\$ 0.743	\$ -
26 New Hampshire Peaking Excl Inventory Finance Costs	\$ 1.873	\$ 4.383	\$ 1.844	\$ 4.023	\$ 5.615	\$ 5.315	\$ 4.781	\$ 4.745	\$ 4.745	\$ 4.745	\$ 4.652	\$ 4.634	\$ 2.311	\$ 2.225	\$ 4.715
27 New Hampshire Inventory Finance Costs per Dth Stor and Peak	\$ 0.000	\$ 0.000	\$ 0.000	\$ 0.000	\$ 0.001	\$ 0.087	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.000	\$ 0.000	\$ -
28 Weighted Average Cost per Dth Sendout	\$ 0.773	\$ 0.889	\$ 1.064	\$ 1.011	\$ 0.769	\$ 0.533	\$ 0.500	\$ 0.492	\$ 0.505	\$ 0.501	\$ 0.468	\$ 0.496	\$ 0.807	\$ 0.883	\$ 0.494
29															
30 New Hampshire Interruptible Cost / Therm	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
31															
Commodity Costs															
32															
33 Base Commodity, therms	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
34 Base Commodity Cost	\$ 813,165	\$ 977,587	\$ 1,180,654	\$ 1,054,521	\$ 808,530	\$ 521,370	\$ 508,162	\$ 477,839	\$ 502,653	\$ 501,271	\$ 453,394	\$ 506,619	\$ 8,305,765	\$ 5,355,827	\$ 2,949,939
35 Remaining Commodity	\$ 2,848,040	\$ 5,108,038	\$ 7,410,843	\$ 5,939,778	\$ 3,716,964	\$ 1,287,622	\$ 432,128	\$ 121,335	\$ 23,102	\$ 25,315	\$ 91,367	\$ 660,291	\$ 27,664,823	\$ 26,311,285	\$ 1,353,538
36 Total Commodity	\$ 3,661,205	\$ 6,085,625	\$ 8,591,496	\$ 6,994,299	\$ 4,525,494	\$ 1,808,992	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	\$ 35,970,588	\$ 31,667,112	\$ 4,303,477

**Northern Utilities - NEW HAMPSHIRE DIVISION
 COMMODITY COSTS**

Supply Volumes - Therms	
1 New Hampshire Sales Pipeline	Attachment NUI-CAK-5, LN 2 * LN 46 * 10
2 New Hampshire Sales Storage	Attachment NUI-CAK-5, LN 3 * LN 46 * 10
3 New Hampshire Sales Peaking	Attachment NUI-CAK-5, LN 4 * LN 46 * 10
4 Total New Hampshire Firm Sales Sendout	Sum LN 1 : LN 3
5	
6 New Hampshire Interruptible Sendout (Pipeline)	Attachment NUI-CAK-5, LN 8 * 10
7	
8 Total Firm Sendout	LN 4
9 Total Firm Sales	Attachment NUI-CAK-3, LN 11
10 Difference (LAUF & Company Use)	LN 8 - LN 9
11 Percent Difference	LN 10 / LN 8
12	
Variable Costs	
13	
14 New Hampshire Sales Pipeline Commodity	Attachment NUI-CAK-5, LN 59
15 New Hampshire Total Storage	Attachment NUI-CAK-5, LN 60
16 New Hampshire Total Peaking	Attachment NUI-CAK-5, LN 61
17 New Hampshire Inventory Finance Charge	Attachment NUI-CAK-5, LN 64
18 Total New Hampshire Sales Variable Costs	Sum LN 14 : LN 17
19	
20 New Hampshire Interruptible Commodity Costs	Attachment NUI-CAK-5, LN 30
21 Total New Hampshire Commodity Costs	LN 18 + LN 20
22	
Supply Cost/Therm	
23	
24 New Hampshire Sales Pipeline Commodity	LN 14 / LN 1
25 New Hampshire Storage Excl Inventory Finance Costs	LN 15 / LN 2
26 New Hampshire Peaking Excl Inventory Finance Costs	LN 16 / LN 3
27 New Hampshire Inventory Finance Costs per Dth Stor and Peak	LN 17 / Sum (LN 2 : LN 3)
28 Weighted Average Cost per Dth Sendout	LN 18 / LN 8
29	
30 New Hampshire Interruptible Cost / Therm	LN 20 / LN 6
31	
Commodity Costs	
32	
33 Base Commodity, therms	Attachment NUI-CAK-3, LN 64
34 Base Commodity Cost	Min (LN 24 * LN 33), LN 18
35 Remaining Commodity	LN 21 - LN 34
36 Total Commodity	LN 34 + LN 35

CONFIDENTIAL

**Northern Utilities, Inc.
Storage Inventory and Activity Costs**

Denotes Confidential Information

Tennessee Storage

Month	Beginning Inventory Volume	Injections	Withdrawals	Ending Inventory Volume	Beginning Inventory Cost	Beginning Inventory Rate	Injection Rate	Injected Value	Withdrawal Rate	Withdrawn Value	Ending Inventory Value	Interest Rate	Carrying Costs	Ending Inventory Value Excluding Carrying Costs	Withdrawn Value plus Charges
Nov-22	211,222	-	65,811	145,411	\$ 1,452,996	\$ 6.88	NA	\$ -	\$ 6.88	\$ 452,711	\$ 1,000,285	2.51%	\$ 2,561	\$ 1,000,285	\$ 452,711
Dec-22	145,411	-	68,004	77,407	\$ 1,000,285	\$ 6.88	NA	\$ -	\$ 6.88	\$ 467,801	\$ 532,484	2.51%	\$ 1,600	\$ 532,484	\$ 467,801
Jan-23	77,407	-	67,547	9,860	\$ 532,484	\$ 6.88	NA	\$ -	\$ 6.88	\$ 464,657	\$ 67,827	2.51%	\$ 627	\$ 67,827	\$ 464,657
Feb-23	9,860	-	9,860	(0)	\$ 67,827	\$ 6.88	NA	\$ -	\$ 6.88	\$ 67,827	\$ (0)	2.51%	\$ 71	\$ (0)	\$ 67,827
Mar-23	-	-	-	-	\$ (0)	NA	NA	\$ -	\$ -	\$ -	\$ (0)	2.51%	\$ (0)	\$ (0)	\$ -
Apr-23	-	-	-	-	\$ (0)	NA	NA	\$ -	\$ -	\$ -	\$ (0)	2.51%	\$ (0)	\$ (0)	\$ -
May-23	-	-	-	-	\$ (0)	NA	NA	\$ -	\$ -	\$ -	\$ (0)	2.51%	\$ (0)	\$ (0)	\$ -
Jun-23	-	42,240	-	42,240	\$ (0)	NA	\$ 4.22	\$ 178,352	\$ 4.22	\$ -	\$ 178,352	2.51%	\$ 186	\$ 178,352	\$ -
Jul-23	42,240	39,446	-	81,686	\$ 178,352	\$ 4.22	\$ 4.26	\$ 168,111	\$ 4.24	\$ -	\$ 346,463	2.51%	\$ 548	\$ 346,463	\$ -
Aug-23	81,686	43,648	-	125,334	\$ 346,463	\$ 4.24	\$ 4.20	\$ 183,440	\$ 4.23	\$ -	\$ 529,903	2.51%	\$ 915	\$ 529,902	\$ -
Sep-23	125,334	42,240	-	167,574	\$ 529,903	\$ 4.23	\$ 3.72	\$ 156,971	\$ 4.10	\$ -	\$ 686,874	2.51%	\$ 1,270	\$ 686,873	\$ -
Oct-23	167,574	43,648	-	211,222	\$ 686,874	\$ 4.10	\$ 3.72	\$ 162,237	\$ 4.02	\$ -	\$ 849,111	2.51%	\$ 1,603	\$ 849,110	\$ -

Union Storage

Month	Beginning Inventory Volume	Injections	Withdrawals	Ending Inventory Volume	Beginning Inventory Cost	Beginning Inventory Rate	Injection Rate	Injected Value	Withdrawal Rate	Withdrawn Value	Ending Inventory Value	Interest Rate	Carrying Costs	Ending Inventory Value Excluding Carrying Costs	Withdrawn Value plus Charges
Nov-22	3,257,883	-	640,499	2,617,384	\$23,345,564	\$ 7.17	NA	\$ -	\$ 7.17	\$ 4,589,734	\$ 18,755,830			\$ 18,755,830	\$ 4,589,734
Dec-22	2,617,384	-	594,315	2,023,069	\$ 18,755,830	\$ 7.17	NA	\$ -	\$ 7.17	\$ 4,258,781	\$ 14,497,049			\$ 14,497,049	\$ 4,258,781
Jan-23	2,023,069	-	706,363	1,316,706	\$ 14,497,049	\$ 7.17	NA	\$ -	\$ 7.17	\$ 5,061,707	\$ 9,435,342			\$ 9,435,342	\$ 5,061,707
Feb-23	1,316,706	-	734,749	581,957	\$ 9,435,342	\$ 7.17	NA	\$ -	\$ 7.17	\$ 5,265,117	\$ 4,170,225			\$ 4,170,225	\$ 5,265,117
Mar-23	581,957	-	581,957	(0)	\$ 4,170,225	\$ 7.17	NA	\$ -	\$ 7.17	\$ 4,170,225	\$ (0)			\$ (0)	\$ 4,170,225
Apr-23	-	24,384	-	24,384	\$ (0)	#DIV/0!	\$ 5.25	\$ 128,101	\$ 5.83	\$ -	\$ 128,101			\$ 128,101	\$ -
May-23	24,384	1,136,181	-	1,160,565	\$ 128,101	\$ 5.25	\$ 5.09	\$ 5,778,662	\$ 5.09	\$ -	\$ 5,906,763			\$ 5,906,763	\$ -
Jun-23	1,160,565	1,099,530	-	2,260,095	\$ 5,906,763	\$ 5.09	\$ 5.13	\$ 5,638,646	\$ 5.11	\$ -	\$ 11,545,409			\$ 11,545,409	\$ -
Jul-23	2,260,095	1,136,181	-	3,396,276	\$ 11,545,409	\$ 5.11	\$ 5.17	\$ 5,868,832	\$ 5.13	\$ -	\$ 17,414,241			\$ 17,414,241	\$ -
Aug-23	3,396,276	757,492	-	4,153,768	\$ 17,414,241	\$ 5.13	\$ 5.17	\$ 3,918,025	\$ 5.14	\$ -	\$ 21,332,267			\$ 21,332,267	\$ -
Sep-23	4,153,768	733,057	-	4,886,825	\$ 21,332,267	\$ 5.14	\$ 5.16	\$ 3,784,201	\$ 5.14	\$ -	\$ 25,116,468			\$ 25,116,468	\$ -
Oct-23	4,886,825	-	-	4,886,825	\$ 25,116,468	\$ 5.14	\$ -	\$ -	\$ 5.14	\$ -	\$ 25,116,468			\$ 25,116,468	\$ -

LNG Storage

Month	Beginning Inventory Volume	Injections	Withdrawals	Ending Inventory Volume	Beginning Inventory Cost	Beginning Inventory Rate	Injection Rate	Injected Value	Withdrawal Rate	Withdrawn Value	Ending Inventory Value	Interest Rate	Carrying Costs	Ending Inventory Value Excluding Carrying Costs	Withdrawn Value plus Charges
Nov-22	12,000	1,800	1,800	12,000											
Dec-22	12,000	1,860	1,860	12,000											
Jan-23	12,000	24,060	31,260	4,800											
Feb-23	4,800	1,680	1,680	4,800											
Mar-23	4,800	1,860	1,860	4,800											
Apr-23	4,800	1,800	1,800	4,800											
May-23	4,800	9,060	1,860	12,000											
Jun-23	12,000	1,800	1,800	12,000											
Jul-23	12,000	-	1,860	10,140											
Aug-23	10,140	-	1,860	8,280											
Sep-23	8,280	5,520	1,800	12,000											
Oct-23	12,000	1,860	1,860	12,000											

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Base Commodity Costs

1	BASE SENDOUT BY CLASS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
2	Total Therms															
3	Res Heat	418,675	432,631	432,631	390,764	432,631	418,675	432,631	418,675	430,829	432,631	418,675	432,631	5,092,081	2,526,008	2,566,073
4	Res General	9,499	9,816	9,816	8,866	9,816	9,499	9,816	9,499	9,775	9,816	9,499	9,816	115,535	57,313	58,222
5	G50 Low Annual-Low Winter	76,203	78,743	78,743	71,123	78,743	76,203	78,743	76,203	78,415	78,743	76,203	78,743	926,809	459,759	467,051
6	G40 Low Annual-High Winter	148,044	152,979	152,979	138,175	152,979	148,044	152,979	148,044	152,342	152,979	148,044	152,979	1,800,570	893,201	907,369
7	G51 Med Annual-Low Winter	127,968	132,233	132,233	119,437	132,233	127,968	132,233	127,968	131,683	132,233	127,968	132,233	1,556,390	772,072	784,318
8	G41 Med Annual-High Winter	141,819	146,547	146,547	132,365	146,547	141,819	146,547	141,819	145,936	146,547	141,819	146,547	1,724,859	855,644	869,215
9	G52 High Annual-Low Winter	50,965	56,523	56,523	51,053	56,523	36,508	56,523	54,699	56,287	56,523	54,699	56,523	643,347	308,094	335,254
10	G42 High Annual-High Winter	35,285	36,462	36,462	32,933	36,462	35,285	36,462	35,285	36,310	36,462	35,285	36,462	429,155	212,889	216,266
11	Total Firm Sales	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
12	% of Total															
13	Res Heat	41.52%	41.36%	41.36%	41.36%	41.36%	42.12%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%			
14	Res General	0.94%	0.94%	0.94%	0.94%	0.94%	0.96%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%			
15	G50 Low Annual-Low Winter	7.56%	7.53%	7.53%	7.53%	7.53%	7.67%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%			
16	G40 Low Annual-High Winter	14.68%	14.63%	14.63%	14.63%	14.63%	14.89%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%			
17	G51 Med Annual-Low Winter	12.69%	12.64%	12.64%	12.64%	12.64%	12.87%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%			
18	G41 Med Annual-High Winter	14.06%	14.01%	14.01%	14.01%	14.01%	14.27%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%			
19	G52 High Annual-Low Winter	5.05%	5.40%	5.40%	5.40%	5.40%	3.67%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%			
20	G42 High Annual-High Winter	3.50%	3.49%	3.49%	3.49%	3.49%	3.55%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%			
21	Total Firm Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			
22	BASE COMMODITY COSTS															
23	TOTAL BASE COMMODITY	\$ 813,165	\$ 977,587	\$ 1,180,654	\$ 1,054,521	\$ 808,530	\$ 521,370	\$ 508,162	\$ 477,839	\$ 502,653	\$ 501,271	\$ 453,394	\$ 506,619	\$ 8,305,765	\$ 5,355,827	\$ 2,949,939
24	Res Heat	\$ 337,596	\$ 404,361	\$ 488,356	\$ 436,183	\$ 334,433	\$ 219,602	\$ 210,192	\$ 197,649	\$ 207,913	\$ 207,341	\$ 187,538	\$ 209,554	\$ 3,440,718	\$ 2,220,531	\$ 1,220,187
25	Res General	\$ 7,660	\$ 9,175	\$ 11,080	\$ 9,897	\$ 7,588	\$ 4,983	\$ 4,769	\$ 4,484	\$ 4,717	\$ 4,704	\$ 4,255	\$ 4,755	\$ 78,067	\$ 50,382	\$ 27,685
26	G50 Low Annual-Low Winter	\$ 61,446	\$ 73,598	\$ 88,886	\$ 79,390	\$ 60,870	\$ 39,970	\$ 38,257	\$ 35,974	\$ 37,842	\$ 37,738	\$ 34,134	\$ 38,141	\$ 626,245	\$ 404,159	\$ 222,086
27	G40 Low Annual-High Winter	\$ 119,375	\$ 142,983	\$ 172,683	\$ 154,235	\$ 118,256	\$ 77,652	\$ 74,324	\$ 69,889	\$ 73,518	\$ 73,316	\$ 66,314	\$ 74,099	\$ 1,216,645	\$ 785,184	\$ 431,461
28	G51 Med Annual-Low Winter	\$ 103,186	\$ 123,592	\$ 149,265	\$ 133,319	\$ 102,219	\$ 67,121	\$ 64,245	\$ 60,411	\$ 63,548	\$ 63,374	\$ 57,321	\$ 64,050	\$ 1,051,652	\$ 678,703	\$ 372,949
29	G41 Med Annual-High Winter	\$ 114,355	\$ 136,971	\$ 165,422	\$ 147,750	\$ 113,284	\$ 74,386	\$ 71,199	\$ 66,950	\$ 70,427	\$ 70,233	\$ 63,525	\$ 70,983	\$ 1,165,487	\$ 752,168	\$ 413,318
30	G52 High Annual-Low Winter	\$ 41,096	\$ 52,829	\$ 63,803	\$ 56,987	\$ 43,693	\$ 19,149	\$ 27,461	\$ 25,823	\$ 27,164	\$ 27,089	\$ 24,502	\$ 27,378	\$ 436,972	\$ 277,557	\$ 159,416
31	G42 High Annual-High Winter	\$ 28,452	\$ 34,079	\$ 41,158	\$ 36,761	\$ 28,186	\$ 18,508	\$ 17,715	\$ 16,658	\$ 17,523	\$ 17,474	\$ 15,806	\$ 17,661	\$ 289,980	\$ 187,144	\$ 102,836
32																
33	Residential	\$ 345,256	\$ 413,535	\$ 499,436	\$ 446,080	\$ 342,021	\$ 224,584	\$ 214,961	\$ 202,134	\$ 212,630	\$ 212,046	\$ 191,793	\$ 214,308	\$ 3,518,785	\$ 2,270,913	\$ 1,247,872
34	SALES HLF CLASSES	\$ 205,727	\$ 250,019	\$ 301,954	\$ 269,695	\$ 206,783	\$ 126,240	\$ 129,963	\$ 122,208	\$ 128,554	\$ 128,201	\$ 115,956	\$ 129,569	\$ 2,114,869	\$ 1,360,418	\$ 754,451
35	SALES LLF CLASSES	\$ 262,182	\$ 314,032	\$ 379,264	\$ 338,746	\$ 259,726	\$ 170,546	\$ 163,238	\$ 153,497	\$ 161,468	\$ 161,024	\$ 145,645	\$ 162,742	\$ 2,672,111	\$ 1,724,496	\$ 947,615

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Base Commodity Costs

1	BASE SENDOUT BY CLASS	
2	Total Therms	
3	Res Heat	Attachment NUI-CAK-3, LN 52
4	Res General	Attachment NUI-CAK-3, LN 53
5	G50 Low Annual-Low Winter	Attachment NUI-CAK-3, LN 54
6	G40 Low Annual-High Winter	Attachment NUI-CAK-3, LN 55
7	G51 Med Annual-Low Winter	Attachment NUI-CAK-3, LN 56
8	G41 Med Annual-High Winter	Attachment NUI-CAK-3, LN 57
9	G52 High Annual-Low Winter	Attachment NUI-CAK-3, LN 58
10	G42 High Annual-High Winter	Attachment NUI-CAK-3, LN 59
11	Total Firm Sales	Sum LN 3 : LN 10
12	% of Total	
13	Res Heat	LN 3 / LN 11
14	Res General	LN 4 / LN 11
15	G50 Low Annual-Low Winter	LN 5 / LN 11
16	G40 Low Annual-High Winter	LN 6 / LN 11
17	G51 Med Annual-Low Winter	LN 7 / LN 11
18	G41 Med Annual-High Winter	LN 8 / LN 11
19	G52 High Annual-Low Winter	LN 9 / LN 11
20	G42 High Annual-High Winter	LN 10 / LN 11
21	Total Firm Sales	Sum LN 13 : LN 20
22	BASE COMMODITY COSTS	
23	TOTAL BASE COMMODITY	Attachment NUI-CAK-6, LN 34
24	Res Heat	LN 23 * LN 13
25	Res General	LN 23 * LN 14
26	G50 Low Annual-Low Winter	LN 23 * LN 15
27	G40 Low Annual-High Winter	LN 23 * LN 16
28	G51 Med Annual-Low Winter	LN 23 * LN 17
29	G41 Med Annual-High Winter	LN 23 * LN 18
30	G52 High Annual-Low Winter	LN 23 * LN 19
31	G42 High Annual-High Winter	LN 23 * LN 20
32		
33	Residential	LN 24 + LN 25
34	SALES HLF CLASSES	LN 26 + LN 28 + LN 30
35	SALES LLF CLASSES	LN 27 + LN 29 + LN 31

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Remaining Commodity Costs

36	REMAINING SENDOUT BY CLASS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
37	Total Therms															
38	Res Heat	1,803,234	2,776,854	3,353,634	2,854,782	2,327,864	1,172,945	345,751	85,565	-	1,802	63,206	540,352	15,325,989	14,289,312	1,036,677
39	Res General	11,118	19,966	25,318	21,250	15,799	5,270	7,845	1,941	-	41	1,434	12,260	122,243	98,721	23,521
40	G50 Low Annual-Low Winter	39,992	89,098	119,261	98,604	65,618	7,031	62,930	15,574	-	328	11,504	98,350	608,289	419,603	188,685
41	G40 Low Annual-High Winter	976,776	1,471,791	1,763,781	1,504,852	1,244,495	657,698	122,258	30,256	-	637	22,350	191,070	7,985,963	7,619,392	366,571
42	G51 Med Annual-Low Winter	91,589	184,910	241,904	201,270	140,543	29,307	105,678	26,153	-	551	19,319	165,158	1,206,381	889,522	316,859
43	G41 Med Annual-High Winter	644,423	989,158	1,193,257	1,016,100	830,279	421,389	117,117	28,984	-	610	21,410	183,035	5,445,763	5,094,606	351,157
44	G52 High Annual-Low Winter	-	17,095	30,325	23,393	6,797	-	45,172	11,179	-	235	8,258	70,596	213,050	77,610	135,440
45	G42 High Annual-High Winter	162,169	248,755	300,012	255,489	208,855	106,157	29,139	7,211	-	152	5,327	45,540	1,368,807	1,281,437	87,370
46	Total Firm Sales	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797	835,890	206,864	-	4,357	152,808	1,306,362	32,276,484	29,770,203	2,506,281
47	% of Total															
48	Res Heat	48.35%	47.90%	47.72%	47.77%	48.09%	48.88%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%
49	Res General	0.30%	0.34%	0.36%	0.36%	0.33%	0.22%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%
50	G50 Low Annual-Low Winter	1.07%	1.54%	1.70%	1.65%	1.36%	0.29%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%
51	G40 Low Annual-High Winter	26.19%	25.39%	25.10%	25.18%	25.71%	27.41%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%
52	G51 Med Annual-Low Winter	2.46%	3.19%	3.44%	3.37%	2.90%	1.22%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%
53	G41 Med Annual-High Winter	17.28%	17.06%	16.98%	17.00%	17.15%	17.56%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%
54	G52 High Annual-Low Winter	0.00%	0.29%	0.43%	0.39%	0.14%	0.00%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%
55	G42 High Annual-High Winter	4.35%	4.29%	4.27%	4.28%	4.31%	4.42%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%
56	Total Firm Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

57	REMAINING COMMODITY COSTS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
58	REMAINING COMMODITY	\$ 2,848,040	\$ 5,108,038	\$ 7,410,843	\$ 5,939,778	\$ 3,716,964	\$ 1,287,622	\$ 432,128	\$ 121,335	\$ 23,102	\$ 25,315	\$ 91,367	\$ 660,291	\$ 27,664,823	\$ 26,311,285	\$ 1,353,538
59	Res Heat	\$ 1,377,117	\$ 2,446,566	\$ 3,536,576	\$ 2,837,603	\$ 1,787,632	\$ 629,349	\$ 178,742	\$ 50,188	\$ 9,556	\$ 10,471	\$ 37,792	\$ 273,117	\$ 13,174,708	\$ 12,614,842	\$ 559,866
60	Res General	\$ 8,491	\$ 17,591	\$ 26,699	\$ 21,122	\$ 12,133	\$ 2,827	\$ 4,055	\$ 1,139	\$ 217	\$ 238	\$ 857	\$ 6,197	\$ 101,566	\$ 88,863	\$ 12,703
61	G50 Low Annual-Low Winter	\$ 30,542	\$ 78,500	\$ 125,766	\$ 98,010	\$ 50,390	\$ 3,773	\$ 32,533	\$ 9,135	\$ 1,739	\$ 1,906	\$ 6,879	\$ 49,710	\$ 488,882	\$ 386,981	\$ 101,901
62	G40 Low Annual-High Winter	\$ 745,957	\$ 1,296,732	\$ 1,859,996	\$ 1,495,796	\$ 955,683	\$ 352,891	\$ 63,203	\$ 17,747	\$ 3,379	\$ 3,703	\$ 13,363	\$ 96,575	\$ 6,905,023	\$ 6,707,053	\$ 197,970
63	G51 Med Annual-Low Winter	\$ 69,946	\$ 162,916	\$ 255,100	\$ 200,059	\$ 107,927	\$ 15,725	\$ 54,632	\$ 15,340	\$ 2,921	\$ 3,200	\$ 11,551	\$ 83,478	\$ 982,794	\$ 811,671	\$ 171,123
64	G41 Med Annual-High Winter	\$ 492,141	\$ 871,504	\$ 1,258,349	\$ 1,009,986	\$ 637,595	\$ 226,098	\$ 60,546	\$ 17,000	\$ 3,237	\$ 3,547	\$ 12,802	\$ 92,514	\$ 4,685,318	\$ 4,495,673	\$ 189,645
65	G52 High Annual-Low Winter	\$ -	\$ 15,062	\$ 31,980	\$ 23,252	\$ 5,219	\$ -	\$ 23,352	\$ 6,557	\$ 1,248	\$ 1,368	\$ 4,938	\$ 35,682	\$ 148,658	\$ 75,513	\$ 73,146
66	G42 High Annual-High Winter	\$ 123,847	\$ 219,168	\$ 316,378	\$ 253,951	\$ 160,386	\$ 56,959	\$ 15,064	\$ 4,230	\$ 805	\$ 882	\$ 3,185	\$ 23,018	\$ 1,177,873	\$ 1,130,688	\$ 47,185
67																
68	Residential	\$ 1,385,608	\$ 2,464,156	\$ 3,563,274	\$ 2,858,725	\$ 1,799,765	\$ 632,177	\$ 182,797	\$ 51,327	\$ 9,773	\$ 10,709	\$ 38,650	\$ 279,314	\$ 13,276,274	\$ 12,703,705	\$ 572,569
69	SALES HLF CLASSES	\$ 100,487	\$ 256,478	\$ 412,846	\$ 321,321	\$ 163,536	\$ 19,497	\$ 110,517	\$ 31,032	\$ 5,908	\$ 6,474	\$ 23,367	\$ 168,870	\$ 1,620,334	\$ 1,274,165	\$ 346,169
70	SALES LLF CLASSES	\$ 1,361,945	\$ 2,387,403	\$ 3,434,723	\$ 2,759,732	\$ 1,753,663	\$ 635,948	\$ 138,813	\$ 38,977	\$ 7,421	\$ 8,132	\$ 29,350	\$ 212,107	\$ 12,768,214	\$ 12,333,414	\$ 434,800

Total Commodity Costs

71	TOTAL COMMODITY COSTS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
72	TOTAL COMMODITY	\$ 3,661,205	\$ 6,085,625	\$ 8,591,496	\$ 6,994,299	\$ 4,525,494	\$ 1,808,922	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	\$ 35,970,588	\$ 31,667,112	\$ 4,303,477
73	Res Heat	\$ 1,714,713	\$ 2,850,926	\$ 4,024,931	\$ 3,273,786	\$ 2,122,066	\$ 848,951	\$ 388,934	\$ 247,837	\$ 217,469	\$ 217,812	\$ 225,330	\$ 482,671	\$ 16,615,426	\$ 14,835,373	\$ 1,780,053
74	Res General	\$ 16,151	\$ 26,766	\$ 37,779	\$ 31,019	\$ 19,721	\$ 7,810	\$ 8,825	\$ 5,623	\$ 4,934	\$ 4,942	\$ 5,113	\$ 10,951	\$ 179,633	\$ 139,245	\$ 40,388
75	G50 Low Annual-Low Winter	\$ 91,988	\$ 152,098	\$ 214,652	\$ 177,400	\$ 111,260	\$ 43,742	\$ 70,790	\$ 45,109	\$ 39,581	\$ 39,644	\$ 41,012	\$ 87,851	\$ 1,115,127	\$ 791,140	\$ 323,987
76	G40 Low Annual-High Winter	\$ 865,331	\$ 1,439,714	\$ 2,032,679	\$ 1,650,031	\$ 1,073,939	\$ 430,542	\$ 137,528	\$ 87,636	\$ 76,897	\$ 77,019	\$ 79,677	\$ 170,673	\$ 8,121,667	\$ 7,492,237	\$ 629,430
77	G51 Med Annual-Low Winter	\$ 173,132	\$ 286,508	\$ 404,365	\$ 333,378	\$ 210,146	\$ 82,846	\$ 118,877	\$ 75,751	\$ 66,469	\$ 66,574	\$ 68,872	\$ 147,528	\$ 2,034,446	\$ 1,490,374	\$ 544,072
78	G41 Med Annual-High Winter	\$ 606,496	\$ 1,008,475	\$ 1,423,771	\$ 1,157,735	\$ 750,878	\$ 300,485	\$ 131,745	\$ 83,951	\$ 73,664	\$ 73,780	\$ 76,327	\$ 163,497	\$ 5,850,805	\$ 5,247,841	\$ 602,964
79	G52 High Annual-Low Winter	\$ 41,096	\$ 67,891	\$ 95,783	\$ 80,238	\$ 48,913	\$ 19,149	\$ 50,814	\$ 32,380	\$ 28,412	\$ 28,457	\$ 29,439	\$ 63,060	\$ 585,631	\$ 353,069	\$ 232,561
80	G42 High Annual-High Winter	\$ 152,299	\$ 253,247	\$ 357,536	\$ 290,712	\$ 188,571	\$ 75,467	\$ 32,779	\$ 20,887	\$ 18,328	\$ 18,357	\$ 18,991	\$ 40,679	\$ 1,467,853	\$ 1,317,832	\$ 150,021
81																
82	Residential	\$ 1,730,864	\$ 2,877,692	\$ 4,062,710	\$ 3,304,805	\$ 2,141,787	\$ 856,761	\$ 397,758	\$ 253,460	\$ 222,403	\$ 222,754	\$ 230,443	\$ 493,622	\$ 16,795,059	\$ 14,974,618	\$ 1,820,441
83	SALES HLF CLASSES	\$ 306,215	\$ 506,497	\$ 714,800	\$ 591,016	\$ 370,319	\$ 145,737	\$ 240,481	\$ 153,240	\$ 134,463	\$ 134,675	\$ 139,323	\$ 298,439	\$ 3,735,204	\$ 2,634,583	\$ 1,100,620
84	SALES LLF CLASSES	\$ 1,624,127	\$ 2,701,436	\$ 3,813,986	\$ 3,098,478	\$ 2,013,389	\$ 806,494	\$ 302,052	\$ 192,474	\$ 168,889	\$ 169,156	\$ 174,995	\$ 374,849	\$ 15,440,325	\$ 14,057,910	\$ 1,382,415
85																
86	% ALLOCATION BETWEEN HLF & LLF															
87	HLF CLASSES%														15.78%	44.33%
88	LLF CLASSES %														84.22%	55.67%

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Remaining Commodity Costs

36	REMAINING SENDOUT BY CLASS	
37	Total Therms	
38	Res Heat	Attachment NUI-CAK-3, LN 68
39	Res General	Attachment NUI-CAK-3, LN 69
40	G50 Low Annual-Low Winter	Attachment NUI-CAK-3, LN 70
41	G40 Low Annual-High Winter	Attachment NUI-CAK-3, LN 71
42	G51 Med Annual-Low Winter	Attachment NUI-CAK-3, LN 72
43	G41 Med Annual-High Winter	Attachment NUI-CAK-3, LN 73
44	G52 High Annual-Low Winter	Attachment NUI-CAK-3, LN 74
45	G42 High Annual-High Winter	Attachment NUI-CAK-3, LN 75
46	Total Firm Sales	Sum LN 38 : LN 45
47	% of Total	
48	Res Heat	LN 38 / LN 46
49	Res General	LN 39 / LN 46
50	G50 Low Annual-Low Winter	LN 40 / LN 46
51	G40 Low Annual-High Winter	LN 41 / LN 46
52	G51 Med Annual-Low Winter	LN 42 / LN 46
53	G41 Med Annual-High Winter	LN 43 / LN 46
54	G52 High Annual-Low Winter	LN 44 / LN 46
55	G42 High Annual-High Winter	LN 45 / LN 46
56	Total Firm Sales	Sum LN 62 : LN 69
57	REMAINING COMMODITY COSTS	
58	REMAINING COMMODITY	Attachment NUI-CAK-6, LN 35
59	Res Heat	LN 58 * LN 48
60	Res General	LN 58 * LN 49
61	G50 Low Annual-Low Winter	LN 58 * LN 50
62	G40 Low Annual-High Winter	LN 58 * LN 51
63	G51 Med Annual-Low Winter	LN 58 * LN 52
64	G41 Med Annual-High Winter	LN 58 * LN 53
65	G52 High Annual-Low Winter	LN 58 * LN 54
66	G42 High Annual-High Winter	LN 58 * LN 55
67		
68	Residential	LN 59 + LN 60
69	SALES HLF CLASSES	LN 61 + LN 63 + LN 65
70	SALES LLF CLASSES	LN 62 + LN 64 + LN 66
71	TOTAL COMMODITY COSTS	
72	TOTAL COMMODITY	Attachment NUI-CAK-6, LN 36
73	Res Heat	LN 24 + LN 59
74	Res General	LN 25 + LN 60
75	G50 Low Annual-Low Winter	LN 26 + LN 61
76	G40 Low Annual-High Winter	LN 27 + LN 62
77	G51 Med Annual-Low Winter	LN 28 + LN 63
78	G41 Med Annual-High Winter	LN 29 + LN 64
79	G52 High Annual-Low Winter	LN 30 + LN 65
80	G42 High Annual-High Winter	LN 31 + LN 66
81		
82	Residential	LN 73 + LN 74
83	SALES HLF CLASSES	LN 75 + LN 77 + LN 79
84	SALES LLF CLASSES	LN 76 + LN 78 + LN 80

Northern Utilities - NEW HAMPSHIRE DIVISION

Supporting Detail to Proposed Tariff Sheets

Demand and Commodity Cost Reallocation to HLF and LLF Customers

	Winter	Summer	Annual	
1 Demand	\$ 10,341,068	\$ 1,452,867	\$ 11,793,935	Attachment NUI-CAK-2, LN 80
2 Commodity	\$ 31,667,112	\$ 4,303,477	\$ 35,970,588	Attachment NUI-CAK-6, LN 36
3 Total	\$ 42,008,180	\$ 5,756,344	\$ 47,764,523	LN 1 + LN 2
4				
5 Forecasted Firm Sales (Therms)	35,507,405	8,625,565	44,132,969	Attachment NUI-CAK-3, LN 11
6 Forecasted Residential Sales (Therms)	16,806,740	3,648,755	20,455,496	Attachment NUI-CAK-3, LN 3
7 Average Residential Rate:	Winter	Summer	Annual	
8 Average Demand Rate	\$0.2912	\$0.1684		LN 1 / LN 5
9 Average Commodity Rate	\$0.8918	\$0.4989		LN 2 / LN 5
10 Average Rate	\$1.1831	\$0.6674		LN 3 / LN 5
11				
12 Residential Reallocation:	Winter	Summer	Annual	
13 Demand Costs Allocated To Residential per SMBA	\$ 4,975,482	\$ 655,375	\$ 5,630,856	Attachment NUI-CAK-4, LN 169
14 Demand Costs Allocated To Residential per Avg Res. Rate	\$ 4,894,744	\$ 614,450	\$ 5,509,194	LN 8 * LN 6
15 Demand Reallocation:	\$ 80,738	\$ 40,924	\$ 121,662	LN 13 - LN 14
16 HLF Allocation	\$ 8,570	\$ 11,833	\$ 20,403	LN 15 * LN 20
17 LLF Allocation	\$ 72,168	\$ 29,091	\$ 101,259	LN 15 * LN 21
18				
19 SMBA Capacity Cost Allocation (%)				
20 HLF	10.61%	28.92%		Attachment NUI-CAK-4, LN 174
21 LLF	89.39%	71.08%		Attachment NUI-CAK-4, LN 175
22				
23 Commodity Costs Allocated To Residential per SMBA	\$ 14,974,618	\$ 1,820,441	\$ 16,795,059	Attachment NUI-CAK-8, LN 82
24 Commodity Costs Allocated To Residential per Avg Res. Rate	\$ 14,989,012	\$ 1,820,364	\$ 16,809,376	LN 9 * LN 6
25 Commodity Reallocation:	\$ (14,394)	\$ 77	\$ (14,317)	LN 23 - LN 24
26 HLF Allocation	\$ (2,272)	\$ 34	\$ (2,238)	LN 25 * LN 30
27 LLF Allocation	\$ (12,123)	\$ 43	\$ (12,080)	LN 25 * LN 31
28				
29 SMBA Commodity Cost Allocation (%)				
30 HLF	15.78%	44.33%		Attachment NUI-CAK-8, LN 87
31 LLF	84.22%	55.67%		Attachment NUI-CAK-8, LN 88

ATTACHMENT NUI-CAK-10
FORM III
Schedule 1

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 1: SUMMARY OF ANNUAL BALANCE
August 2021 - October 2022

	AMOUNT	
Annual Beginning Balance	\$ (3,085,000)	FORM III SCHEDULE 2
Less: Reported Collections	\$ (41,330,648)	FORM III SCHEDULE 3
Add: Cost of Firm Gas Allowable	\$ 42,106,010	FORM III SCHEDULE 4
Add: Interest	\$ (109,900)	FORM III SCHEDULE 2
Annual Ending Balance	\$ (2,419,538)	
Summer Season Reconciliation	\$ 100,234	FORM III ATTACHMENT F
Winter Season Reconciliation	\$ (2,519,772)	FORM III ATTACHMENT F

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 2: ADJUSTMENTS TO REPORTED SUMMER, WINTER AND ANNUAL ACCOUNTS
August 2021 - October 2022
Acct 191

	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	-----Estimated-----			<u>Total</u>	
													<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>		
Initial Account Beginning Balance	\$ (3,091,269)																
Adjustment (1)	\$ 6,269																
Adjusted Beginning Balance	\$ (3,085,000)	\$ (2,074,098)	\$ (982,516)	\$ 255,642	\$ (377,474)	\$ (984,424)	\$ (1,438,786)	\$ (2,804,712)	\$ (4,215,959)	\$ (5,467,286)	\$ (4,774,504)	\$ (3,934,788)	\$ (3,387,498)	\$ (2,740,207)	\$ (2,284,477)		
Plus: Cost of Firm Gas (Schedule 4)	\$ 1,449,728	\$ 1,524,147	\$ 1,950,666	\$ 3,182,223	\$ 4,893,095	\$ 6,851,035	\$ 5,356,607	\$ 3,988,417	\$ 2,269,913	\$ 1,813,469	\$ 1,525,429	\$ 1,303,316	\$ 1,652,041	\$ 1,817,491	\$ 2,528,433	\$ 42,106,010	
Less: Reported Collections (Schedule 3)	\$ (431,849)	\$ (428,432)	\$ (711,525)	\$ (3,815,175)	\$ (5,498,203)	\$ (7,302,120)	\$ (6,716,795)	\$ (5,390,169)	\$ (3,508,145)	\$ (1,106,837)	\$ (673,935)	\$ (743,843)	\$ (994,555)	\$ (1,353,401)	\$ (2,655,666)	\$ (41,330,648)	
Annual Account Ending Balance	\$ (2,067,121)	\$ (978,382)	\$ 256,625	\$ (377,310)	\$ (982,582)	\$ (1,435,509)	\$ (2,798,974)	\$ (4,206,465)	\$ (5,454,191)	\$ (4,760,654)	\$ (3,923,010)	\$ (3,375,314)	\$ (2,730,011)	\$ (2,276,117)	\$ (2,411,711)		
Month's Average Balance	\$ (2,576,060)	\$ (1,526,240)	\$ (362,945)	\$ (60,834)	\$ (680,028)	\$ (1,209,966)	\$ (2,118,880)	\$ (3,505,589)	\$ (4,835,075)	\$ (5,113,970)	\$ (4,348,757)	\$ (3,655,051)	\$ (3,058,754)	\$ (2,508,162)	\$ (2,348,094)		
Interest Rate (Prime Rate)	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.00%	4.00%	4.00%	4.00%		
Interest Applied	\$ (6,977)	\$ (4,134)	\$ (983)	\$ (165)	\$ (1,842)	\$ (3,277)	\$ (5,739)	\$ (9,494)	\$ (13,095)	\$ (13,850)	\$ (11,778)	\$ (12,184)	\$ (10,196)	\$ (8,361)	\$ (7,827)	\$ (109,900)	
Annual Account Ending Balance w/int	\$ (2,074,098)	\$ (982,516)	\$ 255,642	\$ (377,474)	\$ (984,424)	\$ (1,438,786)	\$ (2,804,712)	\$ (4,215,959)	\$ (5,467,286)	\$ (4,774,504)	\$ (3,934,788)	\$ (3,387,498)	\$ (2,740,207)	\$ (2,284,477)	\$ (2,419,538)		

(1) Reflects Fuel Tax Recovery Expense of \$10,540 plus ATV charges, plus interest, not included in 2019 - 2020 reconciliation.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
 2021-22 ANNUAL COG RECONCILIATION
 SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS
 August 2021 - October 2022

	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	----- Estimated ⁽¹⁾ -----	<u>Aug-22</u>	<u>Sep-22</u>	<u>Oct-22</u>	<u>Total</u>
Accrued Revenue	\$ (20,383)	\$ (26,148)	\$ 123,726	\$ 1,827,473	\$ 594,965	\$ 641,860	\$ (410,161)	\$ (860,914)	\$ (504,541)	\$ (909,991)	\$ (241,998)	\$ (88,683)					
Billed Revenue	\$ 452,233	\$ 454,580	\$ 587,798	\$ 1,987,702	\$ 4,903,238	\$ 6,660,260	\$ 7,126,956	\$ 6,251,082	\$ 4,012,686	\$ 2,016,828	\$ 915,933	\$ 832,526					
Calendarized Revenue	<u>\$ 431,849</u>	<u>\$ 428,432</u>	<u>\$ 711,525</u>	<u>\$ 3,815,175</u>	<u>\$ 5,498,203</u>	<u>\$ 7,302,120</u>	<u>\$ 6,716,795</u>	<u>\$ 5,390,169</u>	<u>\$ 3,508,145</u>	<u>\$ 1,106,837</u>	<u>\$ 673,935</u>	<u>\$ 743,843</u>	<u>\$ 994,555</u>	<u>\$ 1,353,401</u>	<u>\$ 2,655,666</u>	<u>\$ 41,330,648</u>	

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 4: PURCHASED GAS COSTS
August 2021 - October 2022

-----Estimated⁽¹⁾-----

Commodity Costs	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Total
Citadel Energy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 434,767	\$ 448,750	\$ 416,882	\$ -	\$ -	\$ -	\$ 30,230				\$ 1,330,629
DTE Energy	\$ 54,410	\$ 55,209	\$ 62,508	\$ 93,098	\$ 96,770	\$ 51,147	\$ -	\$ -	\$ 36,265	\$ -	\$ -	\$ -				\$ 449,406
Emera Energy Services Corp.	\$ 176,055	\$ 214,622	\$ 318,473	\$ 642,889	\$ 1,185,284	\$ 2,127,443	\$ 2,073,780	\$ 2,478,915	\$ 1,367,635	\$ 1,276,983	\$ 1,068,077	\$ 734,868				\$ 13,665,023
Repsol	\$ 60,239	\$ 58,817	\$ 62,507	\$ 88,577	\$ 108,741	\$ 419,445	\$ 1,920,023	\$ 1,021,527	\$ 427,034	\$ -	\$ -	\$ -				\$ 4,166,909
Shell	\$ -	\$ 9,855	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				\$ 9,855
Subtotal - Commodity	\$ 290,705	\$ 338,503	\$ 443,488	\$ 824,563	\$ 1,390,795	\$ 3,032,802	\$ 4,442,552	\$ 3,917,324	\$ 1,830,934	\$ 1,276,983	\$ 1,068,077	\$ 765,098				\$ 19,621,823
Transportation																
Granite	\$ 101	\$ 116	\$ 126	\$ 254	\$ 419	\$ 648	\$ 507	\$ 304	\$ 187	\$ 163	\$ 118	\$ 97				\$ 3,039
Emera	\$ 57	\$ 45	\$ 81	\$ 186	\$ 458	\$ 677	\$ 1,058	\$ 885	\$ 548	\$ 424	\$ 331	\$ 200				\$ 4,950
Emera Energy Services	\$ -	\$ -	\$ -	\$ -	\$ 1,247	\$ 1,313	\$ 2,367	\$ 1,832	\$ 2,074	\$ 12	\$ 8	\$ -				\$ 8,853
Maritimes	\$ (3,793)	\$ -	\$ -	\$ -	\$ 7,311	\$ 26,834	\$ 22,982	\$ 21,834	\$ 11,788	\$ -	\$ -	\$ -				\$ 86,956
Tennessee	\$ 2,253	\$ 1,984	\$ 1,717	\$ 1,818	\$ 1,711	\$ 2,254	\$ 2,506	\$ 2,315	\$ 2,338	\$ 2,300	\$ 2,398	\$ 2,136				\$ 25,732
Subtotal - Commodity Transportation	\$ (1,381)	\$ 2,145	\$ 1,925	\$ 2,258	\$ 11,147	\$ 31,725	\$ 29,420	\$ 27,169	\$ 16,934	\$ 2,899	\$ 2,855	\$ 2,433				\$ 129,530
Commodity Cost Estimates	\$ 340,536	\$ 445,304	\$ 826,567	\$ 1,401,523	\$ 3,024,667	\$ 4,471,277	\$ 3,944,397	\$ 1,847,812	\$ 1,281,905	\$ 1,070,814	\$ 767,435	\$ 521,844				\$ 19,944,082
Commodity Cost Reversals	\$ (293,016)	\$ (340,536)	\$ (445,304)	\$ (826,567)	\$ (1,401,523)	\$ (3,024,667)	\$ (4,471,277)	\$ (3,944,397)	\$ (1,847,812)	\$ (1,281,905)	\$ (1,070,814)	\$ (767,435)				\$ (19,715,254)
Subtotal - Estimates	\$ 47,520	\$ 104,768	\$ 381,263	\$ 574,956	\$ 1,623,144	\$ 1,446,610	\$ (526,880)	\$ (2,096,585)	\$ (565,907)	\$ (211,092)	\$ (303,379)	\$ (245,591)				\$ 40,629,693
Subtotal - Supply	\$ 336,844	\$ 445,416	\$ 826,675	\$ 1,401,777	\$ 3,025,087	\$ 4,511,138	\$ 3,945,092	\$ 1,847,908	\$ 1,281,962	\$ 1,068,790	\$ 767,553	\$ 521,940				\$ 19,980,181
Withdrawal - Underground Storage	\$ 4,228	\$ 3,114	\$ (7,135)	\$ 535,015	\$ 613,115	\$ 1,103,032	\$ 862,673	\$ 597,180	\$ 114	\$ 52	\$ (244)	\$ 140				\$ 3,711,284
ATV Reconciliation Charges	\$ (6,276)	\$ (3,079)	\$ 14,019	\$ 48,546	\$ (55,137)	\$ (246,204)	\$ (161,610)	\$ (15,690)	\$ 34,491	\$ -	\$ -	\$ -				\$ (390,939)
Off System Sales	\$ -	\$ -	\$ -	\$ (33,131)	\$ (19,114)	\$ -	\$ -	\$ (713,954)	\$ (256,926)	\$ (13,782)	\$ -	\$ -				\$ (1,036,906)
Net OBA Adjustment	\$ (4,169)	\$ 558	\$ 504	\$ (1,065)	\$ (707)	\$ (16,308)	\$ (18,106)	\$ (26,245)	\$ (16,203)	\$ (3,330)	\$ (1,199)	\$ (76)				\$ (86,346)
Company Managed	\$ -	\$ -	\$ -	\$ -	\$ (150,524)	\$ (151,331)	\$ -	\$ (397,607)	\$ (133,072)	\$ -	\$ -	\$ -				\$ (832,534)
LNG Withdrawal / Boiloff	\$ 2,139	\$ 2,101	\$ 1,669	\$ 1,568	\$ 5,186	\$ 65,575	\$ 19,965	\$ (943)	\$ 3,446	\$ 2,817	\$ 2,959	\$ 2,865				\$ 109,345
Supplier Balancing	\$ -	\$ (16,467)	\$ 659	\$ (79,193)	\$ 30,458	\$ 147,211	\$ -	\$ 733,243	\$ 65,326	\$ 7,695	\$ 22,608	\$ 36,550				\$ 948,091
Inventory Finance Charge	\$ 118	\$ 139	\$ 174	\$ 213	\$ 230	\$ 180	\$ 102	\$ 68	\$ 78	\$ 187	\$ 335	\$ 533				\$ 2,357
Subtotal - Other Commodity	\$ (3,959)	\$ (13,634)	\$ 9,890	\$ 471,953	\$ 423,507	\$ 902,154	\$ 703,023	\$ 176,053	\$ (302,746)	\$ (6,361)	\$ 24,460	\$ 40,012				\$ 2,424,351
Sales for Resale Estimates	\$ -	\$ -	\$ (33,146)	\$ (169,638)	\$ (151,331)	\$ (168,932)	\$ (942,629)	\$ (389,998)	\$ (13,782)	\$ -	\$ -	\$ -				\$ (1,869,456)
Sales for Resale Reversals	\$ -	\$ -	\$ -	\$ 33,146	\$ 169,638	\$ 151,331	\$ 168,932	\$ 389,998	\$ 13,782	\$ -	\$ -	\$ -				\$ 1,869,456
Subtotal - Estimates	\$ -	\$ -	\$ (33,146)	\$ (136,492)	\$ 18,306	\$ (17,601)	\$ (773,697)	\$ 552,630	\$ 376,216	\$ 13,782	\$ -	\$ -				\$ -
Total Commodity Costs	\$ 332,885	\$ 431,782	\$ 803,419	\$ 1,737,238	\$ 3,466,900	\$ 5,395,691	\$ 3,874,419	\$ 2,576,591	\$ 1,355,432	\$ 1,076,211	\$ 792,012	\$ 561,952	\$ 910,677	\$ 1,076,126	\$ 1,787,068	\$ 26,178,403
	\$ 332,885	\$ 431,782	\$ 803,419	\$ 1,737,238	\$ 3,466,900	\$ 5,395,691	\$ 3,874,419	\$ 2,576,591	\$ 1,355,432	\$ 1,076,211	\$ 792,012	\$ 561,952				

(1) Monthly estimates provided in Table 2 of Northern's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 4: PURCHASED GAS COSTS
August 2021 - October 2022

Demand Costs													-----Estimated ⁽¹⁾ -----			Total
	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	
Pipeline Reservation																
Alberta Northeast	\$ 5,836	\$ 4,195	\$ 4,381	\$ 3,926	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Algonquin	\$ 189,780	\$ 189,780	\$ 189,784	\$ 189,784	\$ 188,762	\$ 190,281	\$ 190,257	\$ 190,105	\$ 190,101	\$ 190,248	\$ 182,497	\$ 190,295	\$ -	\$ -	\$ -	\$ -
Emera	\$ 428,069	\$ 425,072	\$ 437,606	\$ 424,971	\$ 415,710	\$ 428,192	\$ 422,117	\$ 431,121	\$ 427,337	\$ 422,750	\$ 418,881	\$ 420,526	\$ -	\$ -	\$ -	\$ -
Emera Energy Services LLC	\$ -	\$ -	\$ 5,164	\$ 2,102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Granite State	\$ 179,428	\$ 188,483	\$ 188,436	\$ 295,526	\$ 295,526	\$ 295,526	\$ 295,526	\$ 295,526	\$ 295,526	\$ 188,943	\$ 188,943	\$ 188,943	\$ -	\$ -	\$ -	\$ -
Iroquois	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,060	\$ 14,098	\$ 14,098	\$ 14,098	\$ 14,098	\$ 14,098	\$ 14,098	\$ 14,098	\$ 14,098	\$ -	\$ -	\$ -	\$ -
Maritimes	\$ 41,033	\$ 41,033	\$ 40,816	\$ 40,231	\$ 41,144	\$ 41,144	\$ 41,144	\$ 41,144	\$ 41,144	\$ 41,144	\$ 41,144	\$ 41,144	\$ -	\$ -	\$ -	\$ -
Portland	\$ 393,492	\$ 393,493	\$ 385,262	\$ 391,390	\$ 390,838	\$ 393,890	\$ 393,890	\$ 384,732	\$ 393,890	\$ 390,838	\$ 390,838	\$ 390,838	\$ -	\$ -	\$ -	\$ -
Tennessee	\$ 132,065	\$ 132,065	\$ 132,065	\$ 132,065	\$ 129,546	\$ 129,546	\$ 129,546	\$ 129,546	\$ 129,546	\$ 129,546	\$ 129,546	\$ 129,546	\$ -	\$ -	\$ -	\$ -
Texas Eastern	\$ 2,787	\$ 2,793	\$ 2,793	\$ 2,793	\$ 2,801	\$ 2,796	\$ 2,796	\$ 4,570	\$ 4,570	\$ 4,792	\$ 4,792	\$ 4,792	\$ -	\$ -	\$ -	\$ -
Total Pipeline Reservation	\$ 1,386,551	\$ 1,390,973	\$ 1,400,367	\$ 1,496,849	\$ 1,478,424	\$ 1,495,472	\$ 1,489,373	\$ 1,490,841	\$ 1,496,211	\$ 1,382,358	\$ 1,373,791	\$ 1,380,181	\$ -	\$ -	\$ -	\$ -
Product Demand																
Excelon	\$ -	\$ -	\$ -	\$ -	\$ 145,596	\$ 145,596	\$ 145,596	\$ 145,596	\$ 145,596	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Repsol	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778	\$ 328,660	\$ 328,660	\$ 328,660	\$ 328,660	\$ 328,660	\$ 328,660	\$ 328,660	\$ 328,660	\$ -	\$ -	\$ -	\$ -
Total Product Demand	\$ 327,778	\$ 327,778	\$ 327,778	\$ 327,778	\$ 474,257	\$ 474,257	\$ 474,257	\$ 474,257	\$ 474,257	\$ 328,660	\$ 328,660	\$ 328,660	\$ -	\$ -	\$ -	\$ -
Storage Pipeline Transportation and Demand Reservation																
Emera	\$ 96,749	\$ 96,749	\$ 96,749	\$ 96,749	\$ 97,010	\$ 97,010	\$ 97,010	\$ 97,010	\$ 97,010	\$ 97,010	\$ 97,010	\$ 97,010	\$ -	\$ -	\$ -	\$ -
Tennessee	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,169	\$ 4,087	\$ 4,087	\$ 4,087	\$ 4,087	\$ 4,087	\$ 4,087	\$ 4,087	\$ 4,087	\$ -	\$ -	\$ -	\$ -
Total Storage & Demand Reservation	\$ 100,918	\$ 100,918	\$ 100,918	\$ 100,918	\$ 101,096	\$ 101,096	\$ 101,096	\$ 101,096	\$ 101,096	\$ 101,096	\$ 101,096	\$ 101,096	\$ -	\$ -	\$ -	\$ -
Demand Cost Estimates	\$ 1,358,704	\$ 1,353,020	\$ 1,368,022	\$ 1,522,892	\$ 1,505,894	\$ 1,516,102	\$ 1,503,274	\$ 1,511,785	\$ 983,476	\$ 978,047	\$ 981,815	\$ 975,293	\$ -	\$ -	\$ -	\$ -
Demand Cost Reversals	\$ (1,361,208)	\$ (1,358,704)	\$ (1,353,020)	\$ (1,368,022)	\$ (1,522,892)	\$ (1,505,894)	\$ (1,516,102)	\$ (1,503,274)	\$ (1,511,785)	\$ (983,476)	\$ (978,047)	\$ (981,815)	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ (2,504)	\$ (5,684)	\$ 15,002	\$ 154,870	\$ (16,999)	\$ 10,208	\$ (12,828)	\$ 8,511	\$ (528,308)	\$ (5,429)	\$ 3,768	\$ (6,522)	\$ -	\$ -	\$ -	\$ -
Capacity Release ⁽²⁾	\$ (713,889)	\$ (715,524)	\$ (715,070)	\$ (732,389)	\$ (712,179)	\$ (727,500)	\$ (726,347)	\$ (708,972)	\$ (729,577)	\$ (1,078,405)	\$ (1,082,634)	\$ (1,074,141)	\$ -	\$ -	\$ -	\$ -
Company Managed	\$ -	\$ (24,425)	\$ -	\$ (24,134)	\$ (54,780)	\$ (55,644)	\$ -	\$ (109,596)	\$ (55,718)	\$ (55,816)	\$ (10,831)	\$ (10,740)	\$ -	\$ -	\$ -	\$ -
Other A&G Allowance	\$ -	\$ -	\$ -	\$ 77,267	\$ 77,267	\$ 77,267	\$ 77,267	\$ 77,267	\$ 77,267	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Local Production and Storage Allowance	\$ 18,154	\$ 18,154	\$ 18,154	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 19,475	\$ 19,475	\$ 19,475	\$ -	\$ -	\$ -	\$ -
Conversion & Re-entry Fees	\$ (1)	\$ (2)	\$ (3)	\$ (4)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fuel Tax Recovery	\$ -	\$ -	\$ -	\$ -	\$ 622	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,458	\$ -	\$ -	\$ -	\$ -
Outage Replacement Costs	\$ -	\$ -	\$ -	\$ 7,240	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 335	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Indirect Demand Costs	\$ (695,736)	\$ (721,798)	\$ (696,918)	\$ (592,668)	\$ (609,719)	\$ (626,525)	\$ (569,729)	\$ (661,950)	\$ (628,677)	\$ (1,114,411)	\$ (1,073,990)	\$ (1,061,949)	\$ -	\$ -	\$ -	\$ -
Estimates - Cap Release & Comp Managed	\$ (9,294)	\$ (9,117)	\$ (9,017)	\$ (51,780)	\$ (52,644)	\$ (51,807)	\$ (51,789)	\$ (52,718)	\$ (52,816)	\$ (7,831)	\$ (7,740)	\$ (7,842)	\$ -	\$ -	\$ -	\$ -
Reversals - Cap Release & Comp Managed	\$ 9,131	\$ 9,294	\$ 9,117	\$ 9,017	\$ 51,780	\$ 52,644	\$ 51,807	\$ 51,789	\$ 52,718	\$ 52,816	\$ 7,831	\$ 7,740	\$ -	\$ -	\$ -	\$ -
Subtotal	\$ (164)	\$ 178	\$ 99	\$ (42,763)	\$ (864)	\$ 836	\$ 18	\$ (929)	\$ (97)	\$ 44,985	\$ 91	\$ (102)	\$ -	\$ -	\$ -	\$ -
Annual Demand Costs	\$ 1,116,843	\$ 1,092,365	\$ 1,147,247	\$ 1,444,985	\$ 1,426,195	\$ 1,455,344	\$ 1,482,188	\$ 1,411,825	\$ 914,481	\$ 737,258	\$ 733,417	\$ 741,365	\$ 741,365	\$ 741,365	\$ 741,365	\$ 15,927,607
Total Gas Costs	\$ 1,449,728	\$ 1,524,147	\$ 1,950,666	\$ 3,182,223	\$ 4,893,095	\$ 6,851,035	\$ 5,356,607	\$ 3,988,417	\$ 2,269,913	\$ 1,813,469	\$ 1,525,429	\$ 1,303,316	\$ 1,652,041	\$ 1,817,491	\$ 2,528,433	\$ 42,106,010
	\$ 1,098,690	\$ 1,074,211	\$ 1,129,093	\$ 1,288,367	\$ 1,269,577	\$ 1,298,726	\$ 1,325,570	\$ 1,255,207	\$ 757,863	\$ 717,784	\$ 713,942	\$ 721,890	\$ -	\$ -	\$ -	\$ -
	\$ 18,154	\$ 18,154	\$ 18,154	\$ 156,619	\$ 156,619	\$ 156,619	\$ 156,619	\$ 156,619	\$ 156,619	\$ 19,475	\$ 19,475	\$ 19,475	\$ -	\$ -	\$ -	\$ -
	\$ (0)	\$ 0	\$ 0	\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ (1)	\$ (0)	\$ (0)	\$ (0)	\$ -	\$ -	\$ -	\$ -

(1) Monthly estimates provided in Table 2 of Northern 's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

(2) Includes Asset Management Agreement Revenue

REDACTED

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
COST OF GAS ADJUSTMENT - FORM III, Schedule 4 - UNITS
August 2021 - October 2022

Indicates Confidential Data

Commodity Volumes:	-----Estimated ⁽¹⁾ -----												Total		
	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22		Aug-22	Sep-22
Citadel Energy															
DTE Energy															
Emera Energy Services Corp.															
Repsol															
Shell															
Subtotal - Commodity Supply															
Transportation Volumes															
Granite															
Emera															
Emera Energy Services															
Maritimes															
Tennessee															
Subtotal - Commodity Transportation															
Commodity Volume Estimates															
Commodity Volume Reversals															
Subtotal - Estimates															
Subtotal - Supply															
Withdrawal - Underground Storage															
ATV Reconciliation Charges															
Off System Sales															
Net OBA Adjustment															
Company Managed															
LNG Withdrawal / Boiloff															
Supplier Balancing															
Inventory Finance Charge															
Subtotal - Other Commodity															
Sales for Resale Estimates															
Sales for Resale Reversals															
Subtotal - Estimates															
Total Commodity Volumes													109,042	120,812	236,943

(1) Monthly estimates provided in Table 2 of Northern 's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

REDACTED

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
COST OF GAS ADJUSTMENT - FORM III, Schedule 4 - IN COST PER UNIT
August 2021 - October 2022

Indicates Confidential Data

Commodity Costs per Unit:	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	-----Estimated ⁽¹⁾ -----			Total	
													Aug-22	Sep-22	Oct-22		
Citadel																	
DTE Energy																	
Emera Energy Services Corp.																	
Repsol																	
Shell																	
#REF!																	
#REF!																	
Subtotal - Commodity Supply														n/a	n/a	n/a	
Granite																	
Emera																	
Maritimes																	
Tennessee																	
Subtotal - Commodity Transportation														n/a	n/a	n/a	
Commodity Cost Estimates																	
Commodity Cost Reversals																	
Subtotal - Estimates														n/a	n/a	n/a	
Subtotal - Supply																	
Withdrawal - Underground Storage																	
ATV Reconciliation Charges																	
Off System Sales																	
Net OBA Adjustment																	
Company Managed																	
LNG Withdrawal / Boiloff																	
Supplier Balancing																	
Inventory Finance Charge																	
Subtotal - Other Commodity														n/a	n/a	n/a	
Off System Sales Estimates																	
Off System Sales Reversals																	
Subtotal - Estimates																	
Total Commodity Costs per unit														n/a	n/a	n/a	

(1) Monthly estimates provided in Table 2 of Northern's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 5: PURCHASED AND MADE VOLUMES
August 2020 - July 2021

<i>New Hampshire</i>	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	<u>Total</u>
Throughput IN													
<i>BTU Factor</i>	1.03	1.031	1.032	1.035	1.038	1.045	1.041	1.032	1.033	1.033	1.03	1.03	
<i>GST Meter Throughput (MCF)</i>	340,320	351,408	459,510	748,758	889,474	1,261,618	1,008,910	886,100	626,997	433,341	355,913	319,407	7,681,756
<i>Salem Meter (MCF)</i>	13,564	14,462	21,702	46,909	65,683	93,668	70,882	57,250	35,197	19,773	14,624	12,447	466,161
<i>GST Meter Throughput (DTH)</i>	350,530	362,302	474,214	774,965	923,274	1,318,391	1,050,275	914,455	647,688	447,641	366,590	328,989	7,959,314
<i>Salem Meter (DTH)</i>	13,971	14,910	22,396	48,551	68,179	97,883	73,788	59,082	36,359	20,426	15,063	12,820	483,428
<i>LNG/Propane</i>													-
Total Throughput	364,501	377,212	496,611	823,515	991,453	1,416,274	1,124,063	973,537	684,046	468,067	381,653	341,810	8,442,742
Throughput OUT													
<i>Residential Gas</i>													
Charged	35,197	34,821	43,485	116,661	243,350	336,974	360,490	293,847	176,136	108,521	48,742	36,040	1,834,264
Uncharged Current	17,907	17,818	27,656	114,951	156,101	219,026	173,908	112,639	91,632	61,708	24,159	19,923	1,037,428
Uncharged Prior	(18,971)	(17,907)	(17,818)	(27,656)	(114,951)	(156,101)	(219,026)	(173,908)	(112,639)	(91,632)	(61,708)	(24,159)	(1,036,476)
Total Residential Gas	34,133	34,732	53,323	203,956	284,500	399,899	315,372	232,578	155,129	78,597	11,193	31,804	1,835,216
Interruptible				-	-	-	-	-	-	-	-	-	-
<i>Commercial/Industrial Gas</i>													
Charged	57,552	58,183	70,080	148,143	280,843	390,268	414,781	330,019	206,545	130,581	69,713	56,034	2,212,742
Uncharged Current	29,281	29,772	44,570	121,670	172,688	242,037	203,039	134,006	111,982	74,252	34,553	30,976	1,228,826
Uncharged Prior	(38,707)	(29,281)	(29,772)	(44,570)	(121,670)	(172,688)	(242,037)	(203,039)	(134,006)	(111,982)	(74,252)	(34,553)	(1,236,557)
Total C/I Gas	48,126	58,674	84,878	225,243	331,861	459,617	375,783	260,986	184,521	92,851	30,014	52,457	2,205,011
<i>Transportation</i>													
Charged	273,159	273,788	300,567	365,727	399,260	494,559	475,783	466,008	382,231	327,505	278,593	252,114	4,289,294
Uncharged Current	92,203	90,530	131,612	191,535	202,192	241,728	191,636	158,391	160,567	130,740	88,236	88,983	1,768,353
Uncharged Prior	(93,246)	(92,203)	(90,530)	(131,612)	(191,535)	(202,192)	(241,728)	(191,636)	(158,391)	(160,567)	(130,740)	(88,236)	(1,772,616)
Total Transportation	272,116	272,115	341,649	425,650	409,917	534,095	425,691	432,763	384,407	297,678	236,089	252,861	4,285,031
Company Use	106	116	83	64	167	298	1,231	423	834	88	389	924	4,724
Total Throughput OUT	354,481	365,637	479,933	854,913	1,026,445	1,393,909	1,118,077	926,750	724,891	469,214	277,685	338,046	8,329,982
Total Throughput IN	364,501	377,212	496,611	823,515	991,453	1,416,274	1,124,063	973,537	684,046	468,067	381,653	341,810	8,442,742
Difference IN/OUT	10,019	11,575	16,678	(31,398)	(34,992)	22,365	5,987	46,787	(40,845)	(1,147)	103,968	3,764	112,761
%													1.34%

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
DEFERRED WORKING CAPITAL ALLOWANCE ON PURCHASED GAS COSTS
August 2021 - October 2022**

ANNUAL BALANCE SEASON - Acct 173

	<u>BEGINNING</u> <u>BALANCE</u>	<u>WORKING CAP</u> <u>ALLOWANCE (1)</u>	<u>WORKING CAP</u> <u>PERCENTAGE</u>	<u>WORKING CAP</u> <u>COLLECTIONS</u>	<u>WORKING CAP</u> <u>DEFERRED</u>	<u>ENDING</u> <u>BALANCE</u>	<u>AVE MONTHLY</u> <u>BALANCE</u>	<u>INTEREST</u> <u>RATE</u>	<u>INTEREST</u>	<u>ENDING BAL</u> <u>W/ INTEREST</u>
	A	B	C	D	E = B + D	F = A + E	G = (A + F) / 2	H	I = G * (H / 12)	K = F + I + J
August 2021	\$ (7,882)									
Adjustment	\$ 6									
August 2021	\$ (7,876)	1,293	0.0892%	620	1,913	(5,963)	(6,919)	3.25%	(19)	(5,981)
September	\$ (5,981)	1,360	0.0892%	616	1,976	(4,006)	(4,994)	3.25%	(14)	(4,019)
October	\$ (4,019)	1,740	0.0892%	899	2,639	(1,380)	(2,700)	3.25%	(7)	(1,388)
November	\$ (1,388)	2,839	0.0892%	(1,722)	1,117	(271)	(829)	3.25%	(2)	(273)
December	\$ (273)	4,365	0.0892%	(3,523)	842	569	148	3.25%	0	569
January 2022	\$ 569	6,111	0.0892%	(4,862)	1,249	1,818	1,194	3.25%	3	1,822
February	\$ 1,822	4,778	0.0892%	(4,275)	503	2,325	2,073	3.25%	6	2,331
March	\$ 2,331	3,558	0.0892%	(3,059)	499	2,829	2,580	3.25%	7	2,836
April	\$ 2,836	2,025	0.0892%	(2,009)	16	2,852	2,844	3.25%	8	2,860
May	\$ 2,860	1,618	0.0892%	(462)	1,155	4,016	3,438	3.25%	9	4,025
June	\$ 4,025	1,361	0.0892%	(116)	1,245	5,270	4,647	3.25%	13	5,283
July	\$ 5,283	1,431	0.1098%	(220)	1,211	6,493	5,888	4.00%	20	6,513
Estimated August	\$ 6,513	1,814	0.1098%	(1,100)	714	7,227	6,870	3.25%	19	7,245
Estimated September	\$ 7,245	1,996	0.1098%	(1,200)	796	8,041	7,643	3.25%	21	8,062
Estimated October	\$ 8,062	3,540	0.1400%	(2,200)	1,340	9,402	8,732	3.25%	24	9,425

(1) Working Capital Allowance calculated by taking monthly Total Gas Costs from Schedule 4, Page 2, and multiplying by (9.30/366)* prime interest rate.

Winter Season Sales Percentage	80.46%
Summer Season Sales Percentage	19.54%
Reconciliation Allocated to Winter Season	\$ 7,583
Reconciliation Allocated to Summer Season	\$ 1,842

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
BAD DEBT EXPENSE - CALCULATION OF COLLECTION ALLOWANCE
August 2021 - October 2022

ANNUAL BALANCE- Acct 173

	<u>BEGINNING BALANCE</u>	<u>ACUTAL BAD DEBT</u>	<u>BAD DEBT COLLECTIONS</u>	<u>DEFERRED BALANCE</u>	<u>ENDING BALANCE</u>	<u>AVE MO BALANCE</u>	<u>INTEREST RATE</u>	<u>INTEREST</u>	<u>END BAL W/ INTEREST</u>
	A	B	C	D = B + C	E = A + D	F = (A + E) / 2	G	H = (F * G) / 12	J = E + H + I
August 2021	(\$96,653)	28,289	(1,498)	26,791	(69,862)	(83,258)	3.25%	(225)	(70,088)
September	(\$70,088)	24,580	(1,487)	23,093	(46,995)	(58,541)	3.25%	(159)	(47,153)
October	(\$47,153)	5,278	(2,261)	3,017	(44,136)	(45,645)	3.25%	(124)	(44,260)
November	(\$44,260)	8,836	(8,894)	(58)	(44,318)	(44,289)	3.25%	(120)	(44,438)
December	(\$44,438)	14,798	(12,332)	2,465	(41,973)	(43,206)	3.25%	(117)	(42,090)
January 2022	(\$42,090)	(10,232)	(17,035)	(27,267)	(69,357)	(55,723)	3.25%	(151)	(69,508)
February	(\$69,508)	4,559	(14,971)	(10,412)	(79,920)	(74,714)	3.25%	(202)	(80,123)
March	(\$80,123)	10,087	(10,718)	(631)	(80,754)	(80,438)	3.25%	(218)	(80,972)
April	(\$80,972)	3,792	(7,032)	(3,240)	(84,212)	(82,592)	3.25%	(224)	(84,435)
May	(\$84,435)	3,982	835	4,817	(79,618)	(82,027)	3.25%	(222)	(79,840)
June	(\$79,840)	11,494	(3)	11,490	(68,350)	(74,095)	3.25%	(201)	(68,551)
July	(\$68,551)	15,551	50	15,601	(52,950)	(60,750)	4.00%	(203)	(53,152)
Estimated August	(\$53,152)	15,000	(850)	14,150	(39,002)	(46,077)	3.25%	(125)	(39,127)
Estimated September	(\$39,127)	15,000	(875)	14,125	(25,002)	(32,065)	3.25%	(87)	(25,089)
Estimated October	(\$25,089)	15,000	(1,000)	14,000	(11,089)	(18,089)	3.25%	(49)	(11,138)
Winter Season Allocation			95.00%						
Summer Season Allocation			5.00%						
Reconciliation Allocated to Winter Season			\$ (10,581)						
Reconciliation Allocated to Summer Season			\$ (557)						

Attachment C

**Northern Utilities, Inc. - New Hampshire Division
Environmental Response Costs
May 2021 - October 2022**

		Beginning Balance	Firm Sales and Transportation (therms)	ERC Rate Recoveries /Passback	Current ERC Recoveries/ Passbacks	Ending Balance
May 2021	(act)	\$ 124,683	4,655,705	\$ 0.0061	\$ 28,409	\$ 96,273.40
June 2021	(act)	\$ 96,273	2,985,287	\$ 0.0061	\$ 18,225	\$ 78,048.39
July 2021	(act)	\$ 78,048	2,992,333	\$ 0.0061	\$ 18,264	\$ 59,784.48
August 2021	(act)	\$ 59,784	2,739,797	\$ 0.0061	\$ 16,722	\$ 43,062.12
September 2021	(act)	\$ 43,062	2,699,225	\$ 0.0061	\$ 16,475	\$ 26,586.85
October 2021	(act)	\$ 26,587	3,205,050	\$ 0.0061	\$ 19,518	\$ 7,068.90
November 2021	(act)	\$ 439,663 ⁽¹⁾	5,403,127	\$ 0.0059 ⁽²⁾	\$ 31,069	\$ 408,593.38
December 2021	(act)	\$ 408,593	8,703,876	\$ 0.0056	\$ 48,743	\$ 359,849.98
January 2022	(act)	\$ 359,850	11,396,267	\$ 0.0056	\$ 63,820	\$ 296,030.31
February 2022	(act)	\$ 296,030	11,590,946	\$ 0.0056	\$ 64,913	\$ 231,117.39
March 2022	(act)	\$ 231,117	9,836,237	\$ 0.0056	\$ 55,086	\$ 176,030.99
April 2022	(act)	\$ 176,031	6,649,114	\$ 0.0056	\$ 37,236	\$ 138,795.15
May 2022	(act)	\$ 138,795	4,690,240	\$ 0.0056	\$ 26,265	\$ 112,529.85
June 2022	(act)	\$ 112,530	2,964,732	\$ 0.0056	\$ 16,612	\$ 95,917.63
July 2022	(act)	\$ 95,918	2,992,333	\$ 0.0056	\$ 14,181	\$ 81,736.95
August 2022	(est)	\$ 81,737	2,844,678	\$ 0.0056	\$ 15,930	\$ 65,807
September 2022	(est)	\$ 65,807	2,905,960	\$ 0.0056	\$ 16,273	\$ 49,533
October 2022	(est)	\$ 49,533	3,974,739	\$ 0.0056	\$ 22,259	\$ 27,275

(1) November Beginning Balance includes \$421,540 amortization from all prior years at 1/7 of annual costs.
(See Section 4.7 of Tariff.)

(2) November Current ERC Recoveries/Passbacks reflect an Average ERC Rate based on actual Firm Sales and Transportation (therms) at \$0.0056 and actual Firm Sales and Transportation (therms) at \$0.0061.

**NORTHERN UTILITIES
NEW HAMPSHIRE DIVISION
RLIARA Reconciliation
May 2021 - October 2022**

		<u>Beginning Balance</u>	<u>Program Costs</u>	<u>Regulatory Assessments</u>	<u>RLIARA Recoveries</u>	<u>Ending Balance</u>	<u>Average Monthly Balance</u>	<u>Interest Rate</u>	<u>Interest</u>	<u>Ending Balance w/Interest</u>
		A	B	C	D	E = A+B+C-D	F = (A+E)/2	G	H = F*(G/12)	I = E+H
May 2021	Actual	\$ 46,388	\$ 16,330	\$ 6,893	\$ 20,483	\$ 49,127	\$ 47,757	3.25%	\$ 129	\$ 49,257
June 2021	Actual	\$ 49,257	\$ 756	\$ 6,893	\$ 13,128	\$ 43,777	\$ 46,517	3.25%	\$ 126	\$ 43,903
July 2021	Actual	\$ 43,903	\$ -	\$ 6,893	\$ 13,163	\$ 37,633	\$ 40,768	3.25%	\$ 110	\$ 37,744
August 2021	Actual	\$ 37,744	\$ -	\$ 6,893	\$ 12,052	\$ 32,585	\$ 35,164	3.25%	\$ 95	\$ 32,680
September 2021	Actual	\$ 32,680	\$ -	\$ 6,893	\$ 11,873	\$ 27,700	\$ 30,190	3.25%	\$ 82	\$ 27,782
October 2021	Actual	\$ 27,782	\$ -	\$ 6,893	\$ 14,187	\$ 20,488	\$ 24,135	3.25%	\$ 65	\$ 20,554
November 2021	Actual	\$ 20,554	\$ 6,085	\$ 6,893	\$ 29,823	\$ 3,709	\$ 12,131	3.25%	\$ 33	\$ 3,742
December 2021	Actual	\$ 3,742	\$ 49,453	\$ (17,524)	\$ 52,223	\$ (16,552)	\$ (6,405)	3.25%	\$ (17)	\$ (16,570)
January 2022	Actual	\$ (16,570)	\$ 59,907	\$ 15,279	\$ 68,394	\$ (9,778)	\$ (13,174)	3.25%	\$ (36)	\$ (9,813)
February 2022	Actual	\$ (9,813)	\$ 65,169	\$ 15,279	\$ 69,548	\$ 1,087	\$ (4,363)	3.25%	\$ (12)	\$ 1,075
March 2022	Actual	\$ 1,075	\$ 69,903	\$ 15,279	\$ 59,016	\$ 27,242	\$ 14,159	3.25%	\$ 38	\$ 27,280
April 2022	Actual	\$ 27,280	\$ 49,438	\$ 15,279	\$ 39,734	\$ 52,263	\$ 39,772	3.25%	\$ 108	\$ 52,371
May 2022	Actual	\$ 52,371	\$ 23,931	\$ -	\$ 19,779	\$ 56,523	\$ 54,447	3.25%	\$ 147	\$ 56,671
June 2022	Actual	\$ 56,671	\$ -	\$ -	\$ 9,792	\$ 46,879	\$ 51,775	3.25%	\$ 140	\$ 47,019
July 2022	Actual	\$ 47,019	\$ -	\$ -	\$ 8,335	\$ 38,684	\$ 42,852	4.00%	\$ 143	\$ 38,827
August 2022	Est.	\$ 38,827	\$ -	\$ (61,116)	\$ 9,387	\$ (31,677)	\$ 3,575	4.00%	\$ 12	\$ (31,665)
September 2022	Est.	\$ (31,665)	\$ -	\$ -	\$ 9,590	\$ (41,254)	\$ (36,460)	4.00%	\$ (122)	\$ (41,376)
October 2022	Est.	\$ (41,376)	\$ -	\$ -	\$ 13,117	\$ (54,493)	\$ (47,934)	4.00%	\$ (160)	\$ (54,652)

(1) RLIAP renamed GAPRA and subsequently renamed GAP when Regulatory Assessments were removed to the RAAM.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SALES VARIANCE ANALYSIS

	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>Jan-22</u>	<u>Feb-22</u>	<u>Mar-22</u>	<u>Apr-22</u>	<u>May-22</u>	<u>Jun-22</u>	<u>Jul-22</u>	<u>TOTAL</u>
Forecast Bill Month Sales	90,987	90,776	107,884	342,850	554,368	761,365	806,334	611,422	457,594	270,287	147,721	105,641	4,347,230
Actual Sales	92,750	93,004	113,565	264,805	524,192	727,242	775,272	623,867	382,680	239,103	118,454	92,074	4,047,008
Difference	1,763	2,228	5,681	(78,045)	(30,176)	(34,123)	13,698	12,444	(74,914)	(31,185)	(29,267)	(13,567)	(300,222)
Normal Bill Month Actual Sales	92,750	93,004	130,320	288,219	560,188	741,134	745,200	679,792	406,349	235,589	118,454	92,074	4,183,073
Actual Sales	92,750	93,004	113,565	264,805	524,192	727,242	775,272	623,867	382,680	239,103	118,454	92,074	4,047,008
Weather Variance	-	-	16,755	23,415	35,995	13,892	(30,072)	55,925	23,669	(3,514)	-	-	136,065
Total Variance Excluding Weather (excl weather effect)	1,763	2,228	22,435	(54,630)	5,820	(20,231)	(16,374)	68,370	(51,244)	(34,699)	(29,267)	(13,567)	(164,157)
Variance-difference due to meter count -difference in load pattern													113,420 <u>(413,641)</u>
Total Sales Variance													<u><u>(300,222)</u></u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SALES VARIANCE ANALYSIS

	<u>NORMAL MMBtu</u>			<u>METERS</u>		
	<u>2021-22 Forecast</u>	<u>2021-22 Actual</u>	<u>Difference</u>	<u>2021-22 Forecast</u>	<u>2021-22 Actual</u>	<u>Difference</u>
Res Heat	2,006,153	1,809,996	(196,157)	315,704	329,377	13,673
Res General	23,230	24,270	1,039	15,014	15,472	458
Total Res	2,029,383	1,834,265	(195,117)	330,718	344,849	14,131
G-40	972,370	891,276	(81,093)	53,776	56,201	2,425
G-50	148,423	150,543	2,119	8,875	9,154	279
G-41	737,039	670,532	(66,506)	4,942	4,547	(395)
G-51	241,080	256,939	15,859	1,891	1,754	(137)
G-42	145,782	174,692	28,909	131	162	32
G-52	73,153	68,761	(4,392)	29	36	7
Total C & I	2,317,847	2,212,743	(105,104)	69,643	71,854	2,211
Total Company	4,347,230	4,047,008	(300,222)	400,361	416,703	16,342

	<u>NORMAL AVERAGE USE</u>			<u>Change in Sales Due to</u>		<u>Total Chg MMBtu</u>	<u>% Difference</u>
	<u>2021-22 Forecast</u>	<u>2021-22 Actual</u>	<u>Difference</u>	<u>Change In: Meter Count</u>	<u>Load Pattern</u>		
Res Heat	6.35	5.50	(0.86)	86,886	(283,042)	(196,157)	-9.78%
Res General	1.55	1.57	0.02	709	331	1,039	4.47%
Total Res	7.90	7.06	(0.84)	87,594	(282,712)	(195,117)	-9.61%
G-40	18.08	15.86	(2.22)	43,844	(124,937)	(81,093)	-8.34%
G-50	16.72	16.45	(0.28)	4,662	(2,542)	2,119	1.43%
G-41	149.14	147.47	(1.67)	(58,909)	(7,597)	(66,506)	-9.02%
G-51	127.52	146.49	18.97	(17,407)	33,265	15,859	6.58%
G-42	1,117.10	1,078.34	(38.76)	35,189	(6,279)	28,909	19.83%
G-52	2,544.45	1,910.03	(634.42)	18,447	(22,839)	(4,392)	-6.00%
Total C & I	33.28	30.79	(2.49)	25,825	(130,930)	(105,104)	-4.53%
Total Company	10.86	9.71	(1.15)	113,420	(413,641)	(300,222)	-6.91%

Northern Utilities, Inc.
 Winter and Summer Season Reconciliations

		Section A	
	April 30, 2022 COG Balance - All components		
1	Actual	-\$5,548,856	Company Analysis
2	Estimated	-\$5,202,006	Table 3 - Monthly COG Reports
3			
4	Total Over-collection - All Components	-\$346,850	LN 2 - LN 1
5	Less Working Capital Balance	2,860	Attachment A
6	Less Bad Debt Balance	-\$84,435	Attachment B
7			
8	Demand & Commodity Over-collection	-\$265,275	LN 4 - Ln 5 - LN 6
9			
10	AMA Adjustment	-\$2,247,007	LN 26
11			
12	Interest	-\$7,490	LN 20 - Section B October
13			
14	Winter Demand & Commodity Balance	-\$2,519,772	LN 8 + LN 10 + LN 12
15			
16	Annual Reconciliation Balance	-\$2,419,538	Schedule 1
17			
18	Summer Reconciliation Balance	\$100,234	LN 16 - LN 14
19			
20	Monthly AMA Revenue		
21	April 21 to March 22	\$339,731	Annual Revenue / 12
22	April 22 to March 23	\$714,232	Annual Revenue / 12
23			
24	Monthly Increase in AMA Revenue	\$374,501	LN 22- LN 21
25			
26	AMA revenue impact May to Oct	\$2,247,007	LN 24 * 6

Section B
 AMA Adjustment & Interest

	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Total
Starting balance	\$0.00	\$1,014.27	\$2,028.55	\$3,276.89	\$4,525.22	\$5,773.56	
AMA Adjustment	\$374,501	\$374,501	\$374,501	\$374,501	\$374,501	\$374,501	\$2,247,007
Interest Rate	3.25%	3.25%	4.00%	4.00%	4.00%	5.50%	
Monthly Interest	\$1,014.27	\$1,014.27	\$1,248.34	\$1,248.34	\$1,248.34	\$1,716.46	
Total interest	\$1,014.27	\$2,028.55	\$3,276.89	\$4,525.22	\$5,773.56	\$7,490.02	

Northern Utilities Inc.
 Calculation of Bad Debt Expense

1	Actual Bad Debt Expense 12 Months Ended July 31, 2022			
2				
3	Total	\$	349,102	Company Analysis
4	Distribution	\$	228,101	Company Analysis
5	Distribution (%)		65.34%	LN 4 / LN 3
6	Non-Distribution	\$	121,001	Company Analysis
7	Non-Distribution(%)		34.66%	LN 6 / LN 3
8				
9	Winter Demand Cost %		87.68%	Attachment NUI-CAK-2, LN 80
10	Summer Demand Cost %		12.32%	Attachment NUI-CAK-2, LN 80
11				
12	Forecast Bad Debt Expense 12 Months Ended December 31, 2023			*
13				
14	Annual Total	\$	400,000	Company Forecast
15	Annual Non-Distribution	\$	138,643	LN 14 * LN 7
16	Winter Non-Distribution	\$	121,564	LN 15 * LN 9
17	Summer Non-Distribution	\$	17,079	LN 15 * LN 10

**Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation**

Sales Revenues	Oct-22	Winter						Summer						
		(Forecast) Nov-22	(Forecast) Dec-22	(Forecast) Jan-23	(Forecast) Feb-23	(Forecast) Mar-23	(Forecast) Apr-23	(Forecast) May-23	(Forecast) Jun-23	(Forecast) Jul-23	(Forecast) Aug-23	(Forecast) Sep-23	(Forecast) Oct-23	
Volumes														
Residential Heat & Non Heat		2,220,775	3,207,847	3,784,334	3,243,890	2,759,086	1,590,808	788,321	510,680	436,331	439,981	488,035	985,408	
Sales HLF Classes		382,966	553,184	652,597	559,399	475,796	274,330	476,611	308,752	263,801	266,008	295,061	595,768	
Sales LLF Classes		2,088,065	3,016,150	3,558,187	3,050,039	2,594,207	1,495,743	598,639	387,802	331,343	334,115	370,606	748,304	
Total		4,691,806	6,777,181	7,995,118	6,853,328	5,829,089	3,360,882	1,863,572	1,207,233	1,031,474	1,040,103	1,153,702	2,329,480	
Rates														
Residential Heat & Non Heat CGA		\$ 1.1357	\$ 1.1357	\$ 1.1357	\$ 1.1357	\$ 1.1357	\$ 1.1357	\$ 0.6927	\$ 0.6927	\$ 0.6927	\$ 0.6927	\$ 0.6927	\$ 0.6927	
Sales HLF Classes CGA		\$ 1.0604	\$ 1.0604	\$ 1.0604	\$ 1.0604	\$ 1.0604	\$ 1.0604	\$ 0.6342	\$ 0.6342	\$ 0.6342	\$ 0.6342	\$ 0.6342	\$ 0.6342	
Sales LLF Classes CGA		\$ 1.1496	\$ 1.1496	\$ 1.1496	\$ 1.1496	\$ 1.1496	\$ 1.1496	\$ 0.7394	\$ 0.7394	\$ 0.7394	\$ 0.7394	\$ 0.7394	\$ 0.7394	
Revenues														
Residential Heat & Non Heat		\$ (2,522,134)	\$ (3,643,152)	\$ (4,297,868)	\$ (3,684,086)	\$ (3,133,494)	\$ (1,806,681)	\$ (546,070)	\$ (353,748)	\$ (302,246)	\$ (304,775)	\$ (338,062)	\$ (682,592)	
Sales HLF Classes		\$ (406,097)	\$ (586,596)	\$ (692,014)	\$ (593,187)	\$ (504,534)	\$ (290,900)	\$ (302,267)	\$ (195,810)	\$ (167,303)	\$ (168,702)	\$ (187,128)	\$ (377,836)	
Sales LLF Classes		\$ (2,400,439)	\$ (3,467,367)	\$ (4,090,492)	\$ (3,506,325)	\$ (2,982,300)	\$ (1,719,507)	\$ (442,634)	\$ (286,741)	\$ (244,995)	\$ (247,044)	\$ (274,026)	\$ (553,296)	
Total Sales		\$ (5,328,671)	\$ (7,697,115)	\$ (9,080,374)	\$ (7,783,598)	\$ (6,620,329)	\$ (3,817,087)	\$ (1,290,971)	\$ (836,299)	\$ (714,544)	\$ (720,521)	\$ (799,216)	\$ (1,613,724)	
Gas Costs and Credits														
Demand Costs (net of Capacity Assignment)														
Pipeline		\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	\$ 617,837	
Storage		\$ 645,439	\$ 645,439	\$ 645,439	\$ 645,439	\$ 645,439	\$ 701,106	\$ 699,734	\$ 699,734	\$ 699,734	\$ 699,734	\$ 699,734	\$ 699,734	
On-system Peaking		\$ 196,790	\$ 196,790	\$ 196,790	\$ 196,790	\$ 196,790	\$ 83,527	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Off-System Peaking		\$ 752,299	\$ 752,299	\$ 752,299	\$ 752,299	\$ 752,299	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Demand Costs		\$ 2,212,365	\$ 1,402,470	\$ 1,317,571										
Asset Management and Capacity Release														
NUI AMA Revenue		\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	\$ (1,744,550)	
NUI Capacity Release		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
NUI AMA Rev & Cap. Release Subtotal		\$ (1,744,550)												
NH AMA Revenue		\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	\$ (714,232)	
NH Capacity Release		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
NH Total Asset Management and Capacity Release		\$ (714,232)												
Re-entry Rate & Conversion Rate Revenue		\$ (1,000)	\$ -											
Net Demand Costs		\$ 1,497,133	\$ 688,238	\$ 603,339										
NUI Commodity Costs														
NUI Total Pipeline Volumes		577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	
Pipeline Costs Modeled in Sendout™		\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	
NYMEX Price Used for Forecast		\$ 7,9010	\$ 8,0350	\$ 8,1150	\$ 7,8180	\$ 6,7050	\$ 5,3520	\$ 5,2190	\$ 5,2780	\$ 5,3400	\$ 5,3570	\$ 5,3450	\$ 5,4110	
NYMEX Price Used for Update		\$ 7,9010	\$ 8,0350	\$ 8,1150	\$ 7,8180	\$ 6,7050	\$ 5,3520	\$ 5,2190	\$ 5,2780	\$ 5,3400	\$ 5,3570	\$ 5,3450	\$ 5,4110	
Increase/(Decrease) NYMEX Price		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Increase/(Decrease) in Pipeline Costs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Updated Pipeline Costs		\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	
New Hampshire Allocated Percentage		37.57%	38.38%	38.18%	37.58%	36.63%	32.91%	32.56%	30.79%	29.14%	29.27%	30.29%	35.66%	
NH Updated Pipeline Costs		\$ 1,747,920	\$ 4,057,370	\$ 4,981,153	\$ 4,610,118	\$ 2,956,075	\$ 1,776,991	\$ 911,334	\$ 572,880	\$ 500,037	\$ 500,749	\$ 519,400	\$ 1,136,170	
NH Peaking Volumes														
NH Peaking Costs Modeled in Sendout														
Change in NYMEX Price														
Change in Peaking Costs														
NH Updated Peaking Costs														
NH Commodity Costs														
Pipeline		\$ 1,747,920	\$ 4,057,370	\$ 4,981,153	\$ 4,610,118	\$ 2,956,075	\$ 1,776,991	\$ 911,334	\$ 572,880	\$ 500,037	\$ 500,749	\$ 519,400	\$ 1,136,170	
Storage		\$ 1,899,820	\$ 1,819,825	\$ 2,116,343	\$ 2,008,342	\$ 1,530,128	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Peaking		\$ 12,665	\$ 207,187	\$ 1,492,494	\$ 374,558	\$ 38,253	\$ 31,486	\$ 28,957	\$ 26,294	\$ 25,718	\$ 25,837	\$ 25,362	\$ 30,741	
Total Commodity Costs		\$ 3,660,406	\$ 6,084,382	\$ 8,589,990	\$ 6,993,018	\$ 4,524,456	\$ 1,808,478	\$ 940,290	\$ 599,174	\$ 525,755	\$ 526,586	\$ 544,761	\$ 1,166,911	
Inventory Finance Charge		\$ 799	\$ 1,243	\$ 1,507	\$ 1,281	\$ 1,038	\$ 514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Anticipated Direct Cost of Gas		\$ 5,158,338	\$ 7,582,758	\$ 10,088,629	\$ 8,491,433	\$ 6,022,627	\$ 2,497,230	\$ 1,543,629	\$ 1,202,513	\$ 1,129,093	\$ 1,129,924	\$ 1,148,100	\$ 1,770,249	

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

Sales Revenues				
Volumes	Winter	Summer	Prior Period	Total
Residential Heat & Non Heat				20,455,496
Sales HLF Classes				5,104,273
Sales LLF Classes				18,573,201
Total	35,507,405	8,625,565		44,132,969
Rates				
Residential Heat & Non Heat CGA				
Sales HLF Classes CGA				
Sales LLF Classes CGA				
Revenues				
Residential Heat & Non Heat				\$ (21,614,908)
Sales HLF Classes				\$ (4,472,374)
Sales LLF Classes				\$ (20,215,166)
Total Sales	\$ (40,327,173)	\$ (5,975,274)		\$ (46,302,447)
Gas Costs and Credits				
				Total
Demand Costs (net of Capacity Assignment)				
Pipeline	\$ 3,707,022	\$ 3,707,022		\$ 7,414,044
Storage	\$ 3,928,299	\$ 4,198,402		\$ 8,126,701
On-system Peaking	\$ 1,067,478	\$ -		\$ 1,067,478
Off-System Peaking	\$ 3,761,497	\$ -		\$ 3,761,497
Total Demand Costs	\$ 12,464,296	\$ 7,905,424		\$ 20,369,720
Asset Management and Capacity Release				
NUI AMA Revenue				\$ (20,934,600)
NUI Capacity Release				\$ -
NUI AMA Rev & Cap. Release Subtotal				\$ -
NH AMA Revenue				\$ (8,570,786)
NH Capacity Release				\$ -
NH Total Asset Management and Capacity Release		\$ -	\$ -	\$ (8,570,786)
Re-entry Rate & Conversion Rate Revenue	\$ (5,000)	\$ -		\$ (5,000)
Net Demand Costs	\$ 8,173,903	\$ 3,620,031		\$ 11,793,935
NUI Commodity Costs				
NUI Total Pipeline Volumes				
Pipeline Costs Modeled in Sendout™				
NYMEX Price Used for Forecast				
NYMEX Price Used for Update				
Increase/(Decrease) NYMEX Price				
Increase/(Decrease) in Pipeline Costs				
Updated Pipeline Costs				
New Hampshire Allocated Percentage				
NH Updated Pipeline Costs				\$ 24,270,196
NH Peaking Volumes				
NH Peaking Costs Modeled in Sendout				
Change in NYMEX Price				
Change in Peaking Costs				
NH Updated Peaking Costs				\$ -
NH Commodity Costs				
Pipeline				\$ 24,270,196
Storage				\$ 9,374,458
Peaking				\$ 2,319,552
Total Commodity Costs	\$ 31,660,730	\$ 4,303,477		\$ 35,964,206
Inventory Finance Charge	\$ 6,382	\$ -		\$ 6,382
Total Anticipated Direct Cost of Gas	\$ 39,841,015	\$ 7,923,508		\$ 47,764,523

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation

	Oct-22	Winter						Summer					
		(Forecast) Nov-22	(Forecast) Dec-22	(Forecast) Jan-23	(Forecast) Feb-23	(Forecast) Mar-23	(Forecast) Apr-23	(Forecast) May-23	(Forecast) Jun-23	(Forecast) Jul-23	(Forecast) Aug-23	(Forecast) Sep-23	(Forecast) Oct-23
Working Capital													
Total Anticipated Direct Cost of Gas		\$ 5,158,338	\$ 7,582,758	\$ 10,088,629	\$ 8,491,433	\$ 6,022,627	\$ 2,497,230	\$ 1,543,629	\$ 1,202,513	\$ 1,129,093	\$ 1,129,924	\$ 1,148,100	\$ 1,770,249
Working Capital Percentage		0.1398%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%
Working Capital Allowance		\$ 7,209	\$ 10,597	\$ 14,099	\$ 11,867	\$ 8,417	\$ 3,490	\$ 2,157	\$ 1,681	\$ 1,578	\$ 1,579	\$ 1,605	\$ 2,474
Beginning Period Working Capital Balance		\$ 9,425	\$ 16,694	\$ 27,392	\$ 41,649	\$ 53,734	\$ 62,417	\$ 66,201	\$ 68,666	\$ 70,666	\$ 72,571	\$ 74,486	\$ 76,436
End of Period Working Capital Allowance		\$ 16,634	\$ 27,291	\$ 41,491	\$ 53,516	\$ 62,151	\$ 65,907	\$ 68,358	\$ 70,347	\$ 72,243	\$ 74,150	\$ 76,091	\$ 78,910
Interest		\$ 60	\$ 101	\$ 158	\$ 218	\$ 266	\$ 294	\$ 308	\$ 319	\$ 327	\$ 336	\$ 345	\$ 356
End of period with Interest	\$ 9,425	\$ 16,694	\$ 27,392	\$ 41,649	\$ 53,734	\$ 62,417	\$ 66,201	\$ 68,666	\$ 70,666	\$ 72,571	\$ 74,486	\$ 76,436	\$ 79,266
Bad Debt													
Projected Bad Debt	\$ -	\$ 20,260.65	\$ 20,260.65	\$ 20,260.65	\$ 20,260.65	\$ 20,260.65	\$ 20,260.65	\$ 2,846.52	\$ 2,846.52	\$ 2,846.52	\$ 2,846.52	\$ 2,846.52	\$ 2,846.52
Beginning Period Bad Debt Balance		\$ (11,138)	\$ 9,118	\$ 29,467	\$ 49,909	\$ 70,445	\$ 91,075	\$ 111,799	\$ 115,165	\$ 118,546	\$ 121,942	\$ 125,354	\$ 128,782
End of Period Bad Debt Balance		\$ 9,123	\$ 29,379	\$ 49,728	\$ 70,170	\$ 90,705	\$ 111,335	\$ 114,646	\$ 118,011	\$ 121,392	\$ 124,789	\$ 128,200	\$ 131,628
Interest		\$ (5)	\$ 88	\$ 181	\$ 275	\$ 369	\$ 464	\$ 519	\$ 534	\$ 550	\$ 565	\$ 581	\$ 597
End of Period Bad Debt Balance with Interest	\$ (11,138)	\$ 9,118	\$ 29,467	\$ 49,909	\$ 70,445	\$ 91,075	\$ 111,799	\$ 115,165	\$ 118,546	\$ 121,942	\$ 125,354	\$ 128,782	\$ 132,225
Local Production and Storage Capacity		\$ 35,756	\$ 35,756	\$ 35,756	\$ 35,756	\$ 35,756	\$ 35,756	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Overhead		\$ 82,048	\$ 82,048	\$ 82,048	\$ 82,048	\$ 82,048	\$ 82,048	\$ 19,931	\$ 19,931	\$ 19,931	\$ 19,931	\$ 19,931	\$ 19,931
Gas Cost Other than Bad Debt and Working Capital Over/Under Collection													
Beginning Balance Over/Under Collection	\$ (2,419,538)	\$ (2,419,538)	\$ (2,483,276)	\$ (2,491,203)	\$ (1,373,980)	\$ (552,746)	\$ (1,036,277)	\$ (2,245,835)	\$ (1,982,914)	\$ (1,604,972)	\$ (1,176,852)	\$ (751,928)	\$ (385,713)
Net Costs - Revenues		\$ (52,529)	\$ 3,448	\$ 1,126,060	\$ 825,639	\$ (479,898)	\$ (1,202,053)	\$ 272,590	\$ 386,145	\$ 434,481	\$ 429,334	\$ 368,815	\$ 176,457
Ending Balance before Interest		\$ (2,472,066)	\$ (2,479,829)	\$ (1,365,143)	\$ (548,341)	\$ (1,032,644)	\$ (2,238,330)	\$ (1,973,245)	\$ (1,596,769)	\$ (1,170,491)	\$ (747,518)	\$ (383,112)	\$ (209,257)
Average Balance		\$ (2,445,802)	\$ (2,481,553)	\$ (1,928,173)	\$ (961,161)	\$ (792,695)	\$ (1,637,304)	\$ (2,109,540)	\$ (1,789,841)	\$ (1,387,732)	\$ (962,185)	\$ (567,520)	\$ (297,485)
Interest Rate		5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
Interest Expense		\$ (11,210)	\$ (11,374)	\$ (8,837)	\$ (4,405)	\$ (3,633)	\$ (7,504)	\$ (9,669)	\$ (8,203)	\$ (6,360)	\$ (4,410)	\$ (2,601)	\$ (1,363)
Ending Balance Incl Interest Expense	\$ (2,419,538)	\$ (2,483,276)	\$ (2,491,203)	\$ (1,373,980)	\$ (552,746)	\$ (1,036,277)	\$ (2,245,835)	\$ (1,982,914)	\$ (1,604,972)	\$ (1,176,852)	\$ (751,928)	\$ (385,713)	\$ (210,620)
Total Over/Under Collection Ending Balance	\$ (2,421,251)	\$ (2,457,465)	\$ (2,434,344)	\$ (1,282,422)	\$ (428,567)	\$ (882,786)	\$ (2,067,835)	\$ (1,799,083)	\$ (1,415,761)	\$ (982,339)	\$ (552,087)	\$ (180,496)	\$ 871
Total Indirect Cost of Gas	\$ (2,421,251)	\$ 134,119	\$ 137,477	\$ 143,666	\$ 146,020	\$ 143,483	\$ 134,808	\$ 16,094	\$ 17,108	\$ 18,873	\$ 20,849	\$ 22,707	\$ 24,841
Total Cost of Gas	\$ (2,421,251)	\$ 5,292,457	\$ 7,720,235	\$ 10,232,295	\$ 8,637,452	\$ 6,166,110	\$ 2,632,038	\$ 1,559,723	\$ 1,219,620	\$ 1,147,966	\$ 1,150,773	\$ 1,170,807	\$ 1,795,090
Total Interest	\$ -	\$ (11,155)	\$ (11,185)	\$ (8,498)	\$ (3,912)	\$ (2,998)	\$ (6,746)	\$ (8,841)	\$ (7,351)	\$ (5,483)	\$ (3,508)	\$ (1,675)	\$ (411)

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

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	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				\$ 47,764,523
Working Capital Percentage				
Working Capital Allowance	\$ 55,679	\$ 11,073	\$ 9,425	\$ 76,178
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	\$ 1,096	\$ 1,992		\$ 3,088
End of period with Interest				
Bad Debt				
Projected Bad Debt	\$ 121,564	\$ 17,079	\$ (11,138)	\$ 127,505
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	\$ 1,373	\$ 3,346		\$ 4,720
End of Period Bad Debt Balance with Interest				
Local Production and Storage Capacity				\$ 214,538
				\$ -
Miscellaneous Overhead				\$ 611,875
Gas Cost Other than Bad Debt and Working Capital Over/L				
Beginning Balance Over/Under Collection				\$ (18,505,234)
Net Costs - Revenues				\$ 2,288,489
Ending Balance before Interest				\$ (16,216,745)
Average Balance				\$ (17,360,990)
Interest Rate				
Interest Expense				\$ (79,571)
Ending Balance Incl Interest Expense			\$ (2,419,538)	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	\$ 839,574	\$ 120,471	\$ (2,421,251)	\$ (1,461,205)
Total Cost of Gas	\$ 40,680,589	\$ 8,043,980	\$ (2,421,251)	\$ 46,303,318
Total Interest	\$ (44,494)	\$ (27,269)		\$ (71,764)

**N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.**

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - April 31, 2023

Column A	Column B	Column C
1 <u>ANTICIPATED DIRECT COST OF GAS</u>		
2 Purchased Gas for Sales Service:		
3 Demand Costs:	\$ 6,358,704	
4 Supply Costs:	\$ 20,129,627	
5		
6 Storage & Peaking Gas for Sales Service:		
7 Demand, Capacity:	\$ 12,558,149	
8 Commodity Costs:	\$ 11,531,102	
9		
10 Inventory Finance Charge	\$ 6,382	
11		
12 Capacity Release	\$ (8,570,786)	
13		
14 Re-entry Rate & Conversion Rate Revenues	\$ (5,000)	
15		
16 Total Anticipated Direct Cost of Gas		\$ 42,008,180
17		
18 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
19 Adjustments:		
20 Prior Period Under/(Over) Collection	\$ (2,519,772)	
21 Interest	\$ (44,494)	
22 Refunds	\$ -	
23 <u>Interruptible Margins</u>	\$ -	
24 Total Adjustments		\$ (2,564,267)
25		
26 Working Capital:		
27 Total Anticipated Direct Cost of Gas	\$ 42,008,180	
28 Working Capital Allowance Percentage (9.30 [lag days]/366* prime rate)	<u>0.1398%</u>	
29 Working Capital Allowance	\$ 58,708	
30		
31 Plus: Working Capital Reconciliation (Acct 173)	\$ <u>7,583</u>	
32		
33 Total Working Capital Allowance		\$ 66,291
34		
35 Bad Debt:		
36 Bad Debt Allowance	\$ 121,564	
37 Plus: Bad Debt Reconciliation (Acct 173)	\$ <u>(10,581)</u>	
38 Total Bad Debt Allowance		\$ 110,983
39		
40 Local Production and Storage Capacity		\$ 214,538
41		
42 Miscellaneous Overhead-80.46% Allocated to Winter Season		\$ <u>492,287</u>
43		
44 Total Anticipated Indirect Cost of Gas		\$ (1,680,168)
45		
46 Total Cost of Gas		\$ <u>40,328,012</u>
(*) Prime Rate is 5.50%		

**N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.**

Summary

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - April 31, 2023

Column A	Column D
1 <u>ANTICIPATED DIRECT COST OF GAS</u>	
2 Purchased Gas for Sales Service:	
3 Demand Costs:	Attachment NUI-CAK-2, LN 71 + LN 75
4 Supply Costs:	Attachment NUI-CAK-6, LN 14
5	
6 Storage & Peaking Gas for Sales Service:	
7 Demand, Capacity:	Attachment NUI-CAK-2, LN 73 + LN 74
8 Commodity Costs:	Attachment NUI-CAK-6, LN 15 + LN 16
9	
10 Inventory Finance Charge	Attachment NUI-CAK-6, LN 17
11	
12 Capacity Release	-(Attachment NUI-CAK-2, LN 77)
13	
14 Re-entry Rate & Conversion Rate Revenues	Attachment NUI-CAK-2, LN 79
15	
16 Total Anticipated Direct Cost of Gas	Sum (LN 3 : LN 14)
17	
18 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
19 Adjustments:	
20 Prior Period Under/(Over) Collection	Attachment NUI-CAK-10, Page 1
21 Interest	Attachment NUI-CAK-12, LN 94: Total
22 Refunds	
23 <u>Interruptible Margins</u>	-(Attachment NUI-CAK-2, LN 78)
24 Total Adjustments	Sum (LN 20 : LN 23)
25	
26 Working Capital:	
27 Total Anticipated Direct Cost of Gas	LN 16
28 Working Capital Allowance Percentage (9.30 [lag days]/366* prime	Tariff - NHPUC No. 12 , Section 6.1
29 Working Capital Allowance	LN 27 * LN 28
30	
31 Plus: Working Capital Reconciliation (Acct 173)	Attachment NUI-CAK-10, Attachment A
32	
33 Total Working Capital Allowance	Sum (LN 29 : LN 31)
34	
35 Bad Debt:	
36 Bad Debt Allowance	Attachment NUI-CAK-11, LN 16
37 Plus: Bad Debt Reconciliation (Acct 173)	Schedule 10-CAK, Attachment B
38 Total Bad Debt Allowance	LN 36 + LN 37
39	
40 Local Production and Storage Capacity	Attachment NUI-CAK-2, LN 84
41	
42 Miscellaneous Overhead-80.46% Allocated to Winter Season	Attachment NUI-CAK-2, LN 83
43	
44 Total Anticipated Indirect Cost of Gas	Sum (LN 24 : LN 42)
45	
46 Total Cost of Gas	LN 44 + LN 16
(*) Prime Rate is 5.50%	

48 CALCULATION OF FIRM SALES COST OF GAS RATE
 49 Period Covered: November 1, 2022 - April 31, 2023

51	Column A	Column B	Column C
52			
53	Total Anticipated Direct Cost of Gas	\$ 42,008,180	
54	Projected Prorated Sales (11/01/22 - 04/30/23)	35,507,405	
55	Direct Cost of Gas Rate		\$ 1.1831 per therm
56			
57	Demand Cost of Gas Rate	\$ 10,341,068	\$ 0.2912 per therm
58	Commodity Cost of Gas Rate	<u>\$ 31,667,112</u>	<u>\$ 0.8918 per therm</u>
59	Total Direct Cost of Gas Rate	\$ 42,008,180	\$ 1.1830 per therm
60			
61	Total Anticipated Indirect Cost of Gas	\$ (1,680,168)	
62	Projected Prorated Sales (11/01/22 - 04/30/23)	35,507,405	
63	Indirect Cost of Gas		\$ (0.0473) per therm
64			
65			
66	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/22		\$ 1.1357 per therm
67			
68	RESIDENTIAL COST OF GAS RATE - 11/01/22	COGwr	\$ 1.1357 per therm
69		Maximum (COG+25%)	\$ 1.4196
70			
71			
72	COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/22	COGwl	\$ 1.0604 per therm
73		Maximum (COG+25%)	\$ 1.3255
74			
75	C&I HLF Demand Costs Allocated per SMBA	\$ 569,531	
76	PLUS: Residential Demand Reallocation to C&I HLF	<u>\$ 8,570</u>	
77	C&I HLF Total Adjusted Demand Costs	\$ 578,101	
78	C&I HLF Projected Prorated Sales (11/01/22 - 04/30/23)	2,898,272	
79	Demand Cost of Gas Rate	\$ 0.1995	
80			
81	C&I HLF Commodity Costs Allocated per SMBA	\$ 2,634,583	
82	PLUS: Residential Commodity Reallocation to C&I HLF	<u>\$ (2,272)</u>	
83	C&I HLF Total Adjusted Commodity Costs	\$ 2,632,312	
84	C&I HLF Projected Prorated Sales (11/01/22 - 05/30/23)	2,898,272	
85	Commodity Cost of Gas Rate	\$ 0.9082	
86			
87	Indirect Cost of Gas	\$ (0.0473)	
88			
89	Total C&I HLF Cost of Gas Rate	\$ 1.0604	
90			
91			
92	COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/22	COGwh	\$ 1.1496 per therm
93		Maximum (COG+25%)	\$ 1.4370
94			
95	C&I LLF Demand Costs Allocated per SMBA	\$ 4,796,055	
96	PLUS: Residential Demand Reallocation to C&I LLF	<u>\$ 72,168</u>	
97	C&I LLF Total Adjusted Demand Costs	\$ 4,868,223	
98	C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	15,802,392	
99	Demand Cost of Gas Rate	\$ 0.3081	
100			
101	C&I LLF Commodity Costs Allocated per SMBA	\$ 14,057,910	
102	PLUS: Residential Commodity Reallocation to C&I LLF	<u>\$ (12,123)</u>	
103	C&I LLF Total Adjusted Commodity Costs	\$ 14,045,788	
104	C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	15,802,392	
105	Commodity Cost of Gas Rate	\$ 0.8888	
106			
107	Indirect Cost of Gas	\$ (0.0473)	
108			
109	Total C&I LLF Cost of Gas Rate	\$ 1.1496	

48	CALCULATION OF FIRM SALES COST OF GAS RATE	
49	Period Covered: November 1, 2022 - April 31, 2023	
50		
51	Column A	Column D
52		
53	Total Anticipated Direct Cost of Gas	LN 16
54	Projected Prorated Sales (11/01/22 - 04/30/23)	Attachment NUI-CAK-3, LN 11
55	Direct Cost of Gas Rate	LN 53 / LN 54
56		
57	Demand Cost of Gas Rate	Column B : SUM (LN 3 , LN 7 , LN 12) : COLUMN C: LN 5
58	Commodity Cost of Gas Rate	Column B : SUM (LN 4 , LN 8) : COLUMN C: LN 58 / LN 5
59	Total Direct Cost of Gas Rate	SUM (LN 57 : LN 58)
60		
61	Total Anticipated Indirect Cost of Gas	Column B : LN 44
62	Projected Prorated Sales (11/01/22 - 04/30/23)	Column B : LN 54
63	Indirect Cost of Gas	LN 61 / LN 62
64		
65		
66	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/22	LN 59 + LN 63
67		
68	RESIDENTIAL COST OF GAS RATE - 11/01/22	LN 66
69		LN 68 * 1.25
70		
71		
72	COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/22	LN 89
73		LN 72 * 1.25
74		
75	C&I HLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 170
76	PLUS: Residential Demand Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 16
77	C&I HLF Total Adjusted Demand Costs	Sum (LN 75 : LN 76)
78	C&I HLF Projected Prorated Sales (11/01/22 - 04/30/23)	Attachment NUI-CAK-3, LN 14
79	Demand Cost of Gas Rate	LN 77 / LN 78
80		
81	C&I HLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 83
82	PLUS: Residential Commodity Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 26
83	C&I HLF Total Adjusted Commodity Costs	Sum (LN 81 : LN 82)
84	C&I HLF Projected Prorated Sales (11/01/22 - 05/30/23)	LN 78
85	Commodity Cost of Gas Rate	LN 83 / LN 84
86		
87	Indirect Cost of Gas	LN 63
88		
89	Total C&I HLF Cost of Gas Rate	Sum (LN 79, LN 85, LN 87)
90		
91		
92	COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/22	LN 109
93		LN 92 * 1.25
94		
95	C&I LLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 171
96	PLUS: Residential Demand Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 17
97	C&I LLF Total Adjusted Demand Costs	Sum (LN 95 : LN 96)
98	C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	Attachment NUI-CAK-3, LN 15
99	Demand Cost of Gas Rate	LN 97 / LN 98
100		
101	C&I LLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 84
102	PLUS: Residential Commodity Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 27
103	C&I LLF Total Adjusted Commodity Costs	Sum (LN 101 : LN 102)
104	C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	LN 98
105	Commodity Cost of Gas Rate	LN 103 / LN 104
106		
107	Indirect Cost of Gas	LN 63
108		
109	Total C&I LLF Cost of Gas Rate	Sum (LN 99, LN 105, LN 107)

N.H.P.U.C No.12
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

Summary Schedule

New Hampshire Division

Period Covered: May 1, 2023 - October 31, 2023

Column A	Column B	Column C
110 <u>ANTICIPATED DIRECT COST OF GAS</u>		
111 Purchased Gas:		
112 Demand Costs:	\$ 1,055,340	
113 Supply Costs:	\$ 4,140,569	
114		
115 Storage & Peaking Gas:		
116 Demand, Capacity:	\$ 397,527	
117 Commodity Costs:	\$ 162,908	
118		
119 Inventory Finance Charge	\$ -	
120		
121 Capacity Release	\$ -	
122		
123 Re-entry Rate & Conversion Rate Revenues	\$ -	
124		
125 Total Anticipated Direct Cost of Gas		\$ 5,756,344
126		
127 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
128 Adjustments:		
129 Prior Period Under/(Over) Collection	\$ 100,234	
130 Interest	\$ (27,269)	
131 Refunds	\$ -	
132 Interruptible Margins	\$ -	
133 Total Adjustments	\$ -	\$ 72,965
134		
135 Working Capital:		
136 Total Anticipated Direct Cost of Gas	\$ 5,756,344	
137 Working Capital Allowance Percentage (9.30 [lag days]/366* prime rate)	0.140%	
138 Working Capital Allowance	\$ 8,045	
139 Plus: Working Capital Reconciliation (Acct. 173)	\$ 1,842	
140		
141 Total Working Capital Allowance		\$ 9,887
142		
143 Bad Debt:		
144 Projected Bad Debt	\$ 17,079	
145 Plus: Bad Debt Reconciliation (Acct 173)	\$ (557)	
146 Total Bad Debt Expense		\$ 16,522
147		
148 Local Production and Storage Capacity		\$ -
149		
150 Miscellaneous Overhead-19.54% Allocated to Summer Season		\$ 119,588
151		
152 Total Anticipated Indirect Cost of Gas		\$ 218,962
153		
154 Total Cost of Gas		\$ 5,975,306
155		

(*) Prime Rate is 5.50%

**N.H.P.U.C No.12
 NORTHERN UTILITIES, INC.**

Anticipated Cost of Gas

New Hampshire Division
 Period Covered: May 1, 2023 - October 31, 2023

Column A	Column D
110 <u>ANTICIPATED DIRECT COST OF GAS</u>	
111 Purchased Gas:	
112 Demand Costs:	Attachment NUI-CAK-2, LN 71 + LN 75
113 Supply Costs:	Attachment NUI-CAK-6, LN 14
114	
115 Storage & Peaking Gas:	
116 Demand, Capacity:	Attachment NUI-CAK-2, LN 73
117 Commodity Costs:	Attachment NUI-CAK-6, LN 15 + LN 16
118	
119 Inventory Finance Charge	-(Attachment NUI-CAK-6, LN 20)
120	
121 Capacity Release	-(Attachment NUI-CAK-2, LN 77)
122	
123 Re-entry Rate & Conversion Rate Revenues	
124	
125 Total Anticipated Direct Cost of Gas	Sum (LN 112 : LN 123)
126	
127 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
128 Adjustments:	
129 Prior Period Under/(Over) Collection	Attachment NUI-CAK-10, Page 1
130 Interest	Attachment NUI-CAK-12, LN 92: Total
131 Refunds	Company Analysis
132 Interruptible Margins	-(Attachment NUI-CAK-2, LN 78)
133 Total Adjustments	Sum (LN 129 : LN 132)
134	
135 Working Capital:	
136 Total Anticipated Direct Cost of Gas	LN 125
137 Working Capital Allowance Percentage (9.30 [lag days]/366* prime	Tariff - NHPUC No. 12 , Section 6.1
138 Working Capital Allowance	LN 136 * LN 137
139 Plus: Working Capital Reconciliation (Acct. 173)	Attachment NUI-CAK-10, Attachment A
140	
141 Total Working Capital Allowance	Sum (LN 138 : LN 139)
142	
143 Bad Debt:	
144 Projected Bad Debt	Attachment NUI-CAK-11, LN 17
145 Plus: Bad Debt Reconciliation (Acct 173)	Schedule 10-CAK, Attachment B
146 Total Bad Debt Expense	Sum (LN 144 : LN 145)
147	
148 Local Production and Storage Capacity	Attachment NUI-CAK-2, LN 84
149	
150 Miscellaneous Overhead-19.54% Allocated to Summer Season	Attachment NUI-CAK-2, LN 83
151	
152 Total Anticipated Indirect Cost of Gas	Sum (LN 133 : LN 150)
153	
154 Total Cost of Gas	LN 152 + LN 125
155	

(*) Prime Rate is 5.50%

NORTHERN UTILITIES, INC.

156

157 CALCULATION OF FIRM SALES COST OF GAS RATE

158 Period Covered: May 1, 2023 - October 31, 2023

159

160 **Column A****Column B****Column C**

161

162 Total Anticipated Direct Cost of Gas

\$ 5,756,344

163

163 Projected Prorated Sales (05/01/23 - 10/31/23)

8,625,565

164

164 **Direct Cost of Gas Rate**

\$ 0.6674 per therm

165

166 **Demand Cost of Gas Rate**

\$ 1,452,867

\$ 0.1684 per therm

167

167 **Commodity Cost of Gas Rate**

\$ 4,303,477

\$ 0.4989 per therm

168

168 **Total Direct Cost of Gas Rate**

\$ 5,756,344

\$ 0.6673 per therm

169

170 Total Anticipated Indirect Cost of Gas

\$ 218,962

171

171 Projected Prorated Sales (05/01/23 - 10/31/23)

8,625,565

172

172 **Indirect Cost of Gas**

\$ 0.0254 per therm

173

174

175 **TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/23**

\$ 0.6927 per therm

176

177 **RESIDENTIAL COST OF GAS RATE - 05/01/23****COGwr**

\$ 0.6927 per therm

178

Maximum (COG+25%)

\$ 0.8659

179

180

181 **COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/23****COGwl**

\$ 0.6342 per therm

182

Maximum (COG+25%)

\$ 0.7928

183

184

184 C&I HLF Demand Costs Allocated per SMBA

\$ 230,600

185

185 PLUS: Residential Demand Reallocation to C&I HLF

\$ 11,833

186

186 C&I HLF Total Adjusted Demand Costs

\$ 242,434

187

187 C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)

2,206,001

188

188 **Demand Cost of Gas Rate**

\$ 0.1099

189

190

190 C&I HLF Commodity Costs Allocated per SMBA

\$ 1,100,620

191

191 PLUS: Residential Commodity Reallocation to C&I HLF

\$ 34

192

192 C&I HLF Total Adjusted Commodity Costs

\$ 1,100,655

193

193 C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)

2,206,001

194

194 **Commodity Cost of Gas Rate**

\$ 0.4989

195

196

196 **Indirect Cost of Gas**

\$ 0.0254

197

198

198 **Total C&I HLF Cost of Gas Rate**

\$ 0.6342

199

200

201 **COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/23****COGwh**

\$ 0.7394 per therm

202

Maximum (COG+25%)

\$ 0.9243

203

204

204 C&I LLF Demand Costs Allocated per SMBA

\$ 566,892

205

205 PLUS: Residential Demand Reallocation to C&I LLF

\$ 29,091

206

206 C&I LLF Total Adjusted Demand Costs

\$ 595,983

207

207 C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)

2,770,809

208

208 **Demand Cost of Gas Rate**

\$ 0.2151

209

210

210 C&I LLF Commodity Costs Allocated per SMBA

\$ 1,382,415

211

211 PLUS: Residential Commodity Reallocation to C&I LLF

\$ 43

212

212 C&I LLF Total Adjusted Commodity Costs

\$ 1,382,458

213

213 C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)

2,770,809

214

214 **Commodity Cost of Gas Rate**

\$ 0.4989

215

216

216 **Indirect Cost of Gas**

\$ 0.0254

217

218

218 **Total C&I LLF Cost of Gas Rate**

\$ 0.7394

NORTHERN UTILITIES, INC.

156		
157	CALCULATION OF FIRM SALES COST OF GAS RATE	
158	Period Covered: May 1, 2023 - October 31, 2023	
159		
160	Column A	Column D
161		
162	Total Anticipated Direct Cost of Gas	LN 125
163	Projected Prorated Sales (05/01/23 - 10/31/23)	Attachment NUI-CAK-3, LN 11
164	Direct Cost of Gas Rate	LN 162 / LN 163
165		
166	Demand Cost of Gas Rate	Column B : SUM (LN 112 , LN 116 , LN 121 , LN 123) : Cc
167	Commodity Cost of Gas Rate	Column B : SUM (LN 113 , LN 117 , LN 119) : COLUMN C
168	Total Direct Cost of Gas Rate	SUM (LN 166 : LN 167)
169		
170	Total Anticipated Indirect Cost of Gas	Column B : LN 152
171	Projected Prorated Sales (05/01/23 - 10/31/23)	Column B : LN 163
172	Indirect Cost of Gas	LN 170 / LN 171
173		
174		
175	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/23	LN 168 + LN 172
176		
177	RESIDENTIAL COST OF GAS RATE - 05/01/23	LN 175
178		LN 177 * 1.25
179		
180		
181	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/23	LN 198
182		LN 181 * 1.25
183		
184	C&I HLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 170
185	PLUS: Residential Demand Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 16
186	C&I HLF Total Adjusted Demand Costs	Sum (LN 184 : LN 185)
187	C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)	Attachment NUI-CAK-3, LN 14
188	Demand Cost of Gas Rate	LN 186 / LN 187
189		
190	C&I HLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 83
191	PLUS: Residential Commodity Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 26
192	C&I HLF Total Adjusted Commodity Costs	Sum (LN 190 : LN 191)
193	C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)	LN 187
194	Commodity Cost of Gas Rate	LN 192 / LN 193
195		
196	Indirect Cost of Gas	LN 172
197		
198	Total C&I HLF Cost of Gas Rate	Sum (LN 188, LN 194, LN 196)
199		
200		
201	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/23	LN 218
202		LN 201 * 1.25
203		
204	C&I LLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 171
205	PLUS: Residential Demand Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 17
206	C&I LLF Total Adjusted Demand Costs	Sum (LN 204 : LN 205)
207	C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)	Attachment NUI-CAK-3, LN 15
208	Demand Cost of Gas Rate	LN 206 / LN 207
209		
210	C&I LLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 84
211	PLUS: Residential Commodity Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 27
212	C&I LLF Total Adjusted Commodity Costs	Sum (LN 210 : LN 211)
213	C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)	LN 207
214	Commodity Cost of Gas Rate	LN 212 / LN 213
215		
216	Indirect Cost of Gas	LN 172
217		
218	Total C&I LLF Cost of Gas Rate	Sum (LN 208, LN 214, LN 216)

NORTHERN UTILITIES, INC.**N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.**

Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2022 - October 31, 2023

Column A	Column B	Column C
219 <u>ANTICIPATED DIRECT COST OF GAS</u>		
220 Purchased Gas for Sales Service:		
221 Demand Costs:	\$ 7,414,044	
222 Supply Costs:	\$ 24,270,196	
223		
224 Storage & Peaking Gas for Sales Service:		
225 Demand, Capacity:	\$ 12,955,676	
226 Commodity Costs:	\$ 11,694,010	
227		
228 Inventory Finance Charge	\$ 6,382	
229		
230 Capacity Release	\$ (8,570,786)	
231		
232 Re-entry Rate & Conversion Rate Revenues	\$ (5,000)	
233		
234 Total Anticipated Direct Cost of Gas		\$ 47,764,523
235		
236 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
237 Adjustments:		
238 Prior Period Under/(Over) Collection	\$ (2,419,538)	
239 Interest	\$ (71,764)	
240 Refunds	\$ -	
241 <u>Interruptible Margins</u>	\$ -	
242 Total Adjustments		\$ (2,491,301)
243		
244 Working Capital:		
245 Total Anticipated Direct Cost of Gas	\$ 47,764,523	
246 Working Capital Percentage	<u>0.1398%</u>	
247 Working Capital Allowance	\$ 66,753	
248		
249 Plus: Working Capital Reconciliation (Acct 173)	\$ 9,425	
250		
251 Total Working Capital Allowance		\$ 76,178
252		
253 Bad Debt:		
254 Bad Debt Allowance	\$ 138,643	
255 Plus: Bad Debt Reconciliation (Acct 173)	\$ (11,138)	
256 Total Bad Debt Allowance		\$ 127,505
257		
258 Local Production and Storage Capacity		\$ 214,538
259		
260 Miscellaneous Overhead		\$ 611,875
261		
262 Total Anticipated Indirect Cost of Gas		\$ (1,461,205)
263		
264 Total Cost of Gas		<u>\$ 46,303,318</u>

NORTHERN UTILITIES, INC.

**N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.**

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - October 31, 2023

Column A	Column D
219 <u>ANTICIPATED DIRECT COST OF GAS</u>	
220 Purchased Gas for Sales Service:	
221 Demand Costs:	LN 3 + LN 112
222 Supply Costs:	LN 4 + LN 113
223	
224 Storage & Peaking Gas for Sales Service:	
225 Demand, Capacity:	LN 7 + LN 116
226 Commodity Costs:	LN 8 + LN 117
227	
228 Inventory Finance Charge	LN 10 + LN 119
229	
230 Capacity Release	LN 12 + LN 121
231	
232 Re-entry Rate & Conversion Rate Revenues	LN 14 + LN 123
233	
234 Total Anticipated Direct Cost of Gas	LN 16 + LN 125
235	
236 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
237 Adjustments:	
238 Prior Period Under/(Over) Collection	LN 20 + LN 129
239 Interest	LN 21 + LN 130
240 Refunds	LN 22 + LN 131
241 <u>Interruptible Margins</u>	LN 23 + LN 132
242 Total Adjustments	LN 24 + LN 133
243	
244 Working Capital:	
245 Total Anticipated Direct Cost of Gas	LN 27 + LN 136
246 Working Capital Percentage	LN 28 + LN 137
247 Working Capital Allowance	LN 29 + LN 138
248	
249 Plus: Working Capital Reconciliation (Acct 173)	LN 31 + LN 139
250	
251 Total Working Capital Allowance	LN 33 + LN 141
252	
253 Bad Debt:	
254 Bad Debt Allowance	LN 36 + LN 144
255 Plus: Bad Debt Reconciliation (Acct 173)	LN 37 + LN 145
256 Total Bad Debt Allowance	LN 38 + LN 146
257	
258 Local Production and Storage Capacity	LN 40 + LN 148
259	
260 Miscellaneous Overhead	LN 42 + LN 150
261	
262 Total Anticipated Indirect Cost of Gas	LN 44 + LN 152
263	
264 Total Cost of Gas	LN 46 + LN 154

Northern Utilities New Hampshire Division
 Cost of Gas Rate Comparison - Residential Rate Classes
 (rates per therm)

Proposed Rates	2021-2022 Actual Cost of Gas Rates						Average Winter 22-23	Variance
	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22		
November 2022 - April 2023								
\$1.1357	\$0.9392	\$0.9392	\$0.8975	\$0.9462	\$1.0547	\$1.0547	\$0.9719	\$0.1638
							Average Summer 2022	
May 2023 - October 2023	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22		
\$0.6927	\$0.6361	\$0.9126	\$0.9126	\$0.9126	\$1.1204	\$1.1204	\$0.9358	(\$0.2431)

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-CAK-15

Formula for Supplier Balancing Charge

Balancing Resources

Line	NU Storage Capacity Costs (Fixed)		NU Storage Space (Dth)	Reference
1	\$ 119,638	TGP	259,337	Attachment NUI-FXW-4, Page 4
2	<u>\$ 4,088,333</u>	Union	<u>4,000,000</u>	Attachment NUI-FXW-4, Page 4
3	\$ 4,207,971	TOTAL	4,259,337	LN 1 + LN 2
4	Weighted Average Capacity Cost		\$ 0.9879 per Dth	LN 3 Cost / LN3 Space
	NU Storage Commodity Costs (Variable)			
5	TGP FS-MA	Withdraw/Inject	\$ 0.0174	Attachment NUI-FXW-9, PG 12, LN 10 * 2
6	Union	Withdraw/Inject	\$ 0.0114	Attachment NUI-FXW-9, PG 13, LN 10 * 2
7	Weighted Average Commodity Cost		\$ 0.0118 per Dth	LN 5, LN 6 (weighted)
8	Supplier Balancing Charge		\$ 1.00 per Dth	LN 4 + LN 7

Re-entry Rate & Conversion Rate
 Volumes and Revenues

Month	Re-entry Surcharge		Conversion Surcharge	
	Volumes	Revenues	Volumes	Revenues
Jan-21	16,708	\$20.05	0	\$0
Feb-21	23,292	\$27.95	0	\$0
Mar-21	24,208	\$29.05	0	\$0
Apr-21	11,967	\$14.36	0	\$0
May-21	0	\$0.00	0	\$0
Jun-21	527	\$0.58	0	\$0
Jul-21	864	\$0.95	0	\$0
Aug-21	691	\$0.76	0	\$0
Sep-21	1,745	\$1.92	0	\$0
Oct-21	2,273	\$2.50	0	\$0
Nov-21	3,191	\$3.51	0	\$0
Dec-21	0	\$0.00	0	\$0
Jan-22	0	\$0.00	0	\$0
Feb-22	0	\$0.00	0	\$0
Mar-22	0	\$0.00	0	\$0
Apr-22	0	\$0.00	0	\$0
May-22	0	\$0.00	0	\$0
Jun-22	0	\$0.00	0	\$0
Jul-22	0	\$0.00	0	\$0
Total	85,466	\$101.63	0	\$0

Northern Utilities, Inc.
Short-Term Debt Limit
(\$ in thousands)

<u>NU Short-Term Debt Limit Calculation (11/1/2022 - 10/31/2023)</u>		
<u>Fuel Financing Purposes</u>		
NU ME winter gas costs	72,178	
NU NH winter gas costs	40,328	
Total	<u>112,506</u>	
30% of total winter gas costs	33,752	(a)
<u>Non-Fuel Financing Purposes</u>		
Estimated net utility plant @ 12/31/22	601,452	
15% of Net Utility Plant	90,218	(b)
<u>Short-Term Debt Limit</u>	<u>123,970</u>	(a) + (b)

Northern Utilities, Inc.
New Hampshire Division
Billed Distribution Service Volumes and Meter Counts

Total Division Metered Deliveries (Dth)											
2022-2023		2022-2023 Compared to 2021-2022					2022-2023 Compared to 2020-2021				
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	707,240	686,286	20,954	3.1%	16,583	4,371	681,275	25,964	3.8%	28,188	-2,224
Dec	1,044,293	986,864	57,428	5.8%	22,398	35,031	1,006,190	38,102	3.8%	41,818	-3,716
Jan	1,253,703	1,245,140	8,563	0.7%	29,037	-20,475	1,185,985	67,718	5.7%	49,689	18,029
Feb	1,276,489	1,202,527	73,962	6.2%	27,988	45,974	1,216,725	59,764	4.9%	50,259	9,505
Mar	1,140,573	1,187,573	-47,001	-4.0%	27,508	-74,509	1,153,597	-13,024	-1.1%	47,114	-60,138
Apr	831,157	812,221	18,936	2.3%	18,750	186	800,853	30,304	3.8%	30,024	281
May	591,576	558,280	33,296	6.0%	12,808	20,488	598,944	-7,367	-1.2%	21,830	-29,197
Jun	424,207	422,350	1,856	0.4%	9,949	-8,093	396,066	28,141	7.1%	18,768	9,372
Jul	390,362	388,256	2,106	0.5%	9,177	-7,071	399,523	-9,161	-2.3%	19,000	-28,160
Aug	379,912	377,834	2,078	0.6%	8,933	-6,855	365,908	14,004	3.8%	17,394	-3,390
Sep	385,483	383,775	1,709	0.4%	9,092	-7,383	366,793	18,691	5.1%	17,462	1,228
Oct	499,870	498,659	1,211	0.2%	11,845	-10,634	475,230	24,640	5.2%	22,719	1,921
Winter	6,253,454	6,120,613	132,842	2.2%	142,264	-9,422	6,044,625	208,830	3.5%	246,269	-37,439
Summer	2,671,411	2,629,155	42,256	1.6%	61,804	-19,548	2,602,464	68,947	2.6%	118,974	-50,027
Annual	8,924,865	8,749,768	175,098	2.0%	204,068	-28,970	8,647,089	277,776	3.2%	373,769	-95,992

22 Note 1 Company Forecast
 23 Note 2 Pages 2 - 4; Sum of Column 2 of Billed Deliveries table. Actual Data through April is weather normalized.
 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
 25 Note 4 Pages 2 - 4; Sum of Column 7 of Billed Deliveries Table. Actual Data provided is weather normalized.
 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	36,621	35,757	864	2.4%	35,166	1,455	4.1%
Dec	36,815	35,998	817	2.3%	35,346	1,469	4.2%
Jan	36,904	36,063	841	2.3%	35,420	1,484	4.2%
Feb	36,931	36,091	840	2.3%	35,466	1,465	4.1%
Mar	36,928	36,092	836	2.3%	35,479	1,449	4.1%
Apr	36,917	36,084	833	2.3%	35,583	1,334	3.7%
May	36,741	35,917	824	2.3%	35,449	1,292	3.6%
Jun	36,934	36,084	850	2.4%	35,263	1,671	4.7%
Jul	36,853	36,002	851	2.4%	35,180	1,673	4.8%
Aug	36,801	35,951	850	2.4%	35,131	1,670	4.8%
Sep	36,902	36,048	854	2.4%	35,225	1,677	4.8%
Oct	37,238	36,374	864	2.4%	35,539	1,699	4.8%
Winter	36,853	36,014	839	2.3%	35,410	1,443	4.1%
Summer	36,912	36,063	849	2.4%	35,298	1,614	4.6%
Annual	36,882	36,038	844	2.3%	35,354	1,528	4.3%

49 Note 1 Company Forecast
 50 Note 2 Actual data through April. Forecast data beginning June. Page 2 - 4; Sum of Column 2 of Meter Counts table.
 51 Note 3 Actual Data. Page 2 - 4; Sum of Column 5 of Meter Counts table.

Total Division Use Per Meter							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	19.31	19.19	0.12	0.6%	19.37	-0.06	-0.3%
Dec	28.37	27.41	0.95	3.5%	28.47	-0.10	-0.4%
Jan	33.97	34.53	-0.55	-1.6%	33.48	0.49	1.5%
Feb	34.56	33.32	1.24	3.7%	34.31	0.26	0.8%
Mar	30.89	32.90	-2.02	-6.1%	32.51	-1.63	-5.0%
Apr	22.51	22.51	0.01	0.0%	22.51	0.01	0.0%
May	16.10	15.54	0.56	3.6%	16.90	-0.79	-4.7%
Jun	11.49	11.70	-0.22	-1.9%	11.23	0.25	2.3%
Jul	10.59	10.78	-0.19	-1.8%	11.36	-0.76	-6.7%
Aug	10.32	10.51	-0.19	-1.8%	10.42	-0.09	-0.9%
Sep	10.45	10.65	-0.20	-1.9%	10.41	0.03	0.3%
Oct	13.42	13.71	-0.29	-2.1%	13.37	0.05	0.4%
Winter	169.69	169.95	-0.26	-0.2%	170.70	-1.04	-0.6%
Summer	72.37	72.91	-0.53	-0.7%	73.73	-1.31	-1.8%
Annual	241.98	242.79	-0.81	-0.3%	244.59	-2.35	-1.0%

74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

Northern Utilities, Inc.
New Hampshire Division
Billed Distribution Service Volumes and Meter Counts

Residential Non-Heat Metered Deliveries (Dth)											
2022-2023	2022-2023 Compared to 2021-2022					2022-2023 Compared to 2020-2021					
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	1,739	1,777	-38	-2.1%	-21	-16	1,817	-78	-4.3%	-52	-25
Dec	2,696	2,770	-74	-2.7%	-33	-41	2,707	-10	-0.4%	-78	68
Jan	3,125	3,525	-400	-11.4%	-42	-358	3,275	-151	-4.6%	-90	-61
Feb	3,164	3,518	-354	-10.1%	-42	-312	3,365	-201	-6.0%	-90	-111
Mar	2,636	3,265	-629	-19.3%	-39	-590	3,173	-537	-16.9%	-92	-445
Apr	2,091	2,260	-169	-7.5%	-26	-143	2,205	-114	-5.2%	-67	-47
May	1,677	1,719	-42	-2.5%	-21	-21	1,816	-139	-7.6%	-49	-90
Jun	1,420	1,427	-7	-0.5%	-17	10	1,402	18	1.3%	-33	51
Jul	1,271	1,277	-6	-0.5%	-15	9	1,311	-40	-3.0%	-31	-9
Aug	1,199	1,205	-6	-0.5%	-15	9	1,241	-42	-3.4%	-30	-13
Sep	1,220	1,226	-6	-0.5%	-15	9	1,169	51	4.4%	-28	80
Oct	1,309	1,315	-6	-0.4%	-15	10	1,272	36	2.9%	-29	66
Winter	15,452	17,116	-1,664	-9.7%	-204	-1,460	16,543	-1,091	-6.6%	-473	-618
Summer	8,095	8,168	-73	-0.9%	-99	25	8,211	-116	-1.4%	-200	84
Annual	23,547	25,284	-1,737	-6.9%	-303	-1,435	24,754	-1,206	-4.9%	-654	-552

- 22 Note 1 Company Forecast
- 23 Note 2 Actual, weather normalized data through April. Forecast data beginning June.
- 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
- 25 Note 4 Actual, weather normalized data through May. Forecast data beginning June.
- 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023	Compared to 2021-2022			Compared to 2020-2021			
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	1,244	1,259	-15	-1.2%	1,281	-37	-2.9%
Dec	1,239	1,254	-15	-1.2%	1,276	-37	-2.9%
Jan	1,240	1,255	-15	-1.2%	1,275	-35	-2.7%
Feb	1,238	1,253	-15	-1.2%	1,272	-34	-2.7%
Mar	1,242	1,257	-15	-1.2%	1,279	-37	-2.9%
Apr	1,272	1,287	-15	-1.2%	1,312	-40	-3.0%
May	1,298	1,314	-16	-1.2%	1,334	-36	-2.7%
Jun	1,308	1,324	-16	-1.2%	1,340	-32	-2.4%
Jul	1,310	1,326	-16	-1.2%	1,342	-32	-2.4%
Aug	1,303	1,319	-16	-1.2%	1,335	-32	-2.4%
Sep	1,288	1,304	-16	-1.2%	1,320	-32	-2.4%
Oct	1,265	1,280	-15	-1.2%	1,295	-30	-2.3%
Winter	1,246	1,261	-15	-1.2%	1,283	-37	-2.9%
Summer	1,295	1,311	-16	-1.2%	1,328	-32	-2.4%
Annual	1,271	1,286	-15	-1.2%	1,305	-35	-2.6%

- 49 Note 1 Company Forecast
- 50 Note 2 Actual data through April. Forecast data beginning June.
- 51 Note 3 Actual Data.

Total Division Use Per Meter							
2022-2023	Compared to 2021-2022			Compared to 2020-2021			
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	1.40	1.41	-0.01	-0.9%	1.42	-0.02	-1.4%
Dec	2.18	2.21	-0.03	-1.5%	2.12	0.05	2.6%
Jan	2.52	2.81	-0.29	-10.3%	2.57	-0.05	-1.9%
Feb	2.56	2.81	-0.25	-9.0%	2.65	-0.09	-3.4%
Mar	2.12	2.60	-0.47	-18.3%	2.48	-0.36	-14.4%
Apr	1.64	1.76	-0.11	-6.4%	1.68	-0.04	-2.2%
May	1.29	1.31	-0.02	-1.3%	1.36	-0.07	-5.1%
Jun	1.09	1.08	0.01	0.7%	1.05	0.04	3.7%
Jul	0.97	0.96	0.01	0.7%	0.98	-0.01	-0.7%
Aug	0.92	0.91	0.01	0.7%	0.93	-0.01	-1.0%
Sep	0.95	0.94	0.01	0.7%	0.89	0.06	7.0%
Oct	1.03	1.03	0.01	0.7%	0.98	0.05	5.3%
Winter	12.40	13.58	-1.17	-8.6%	12.90	-0.50	-3.9%
Summer	6.25	6.23	0.02	0.3%	6.18	0.07	1.1%
Annual	18.53	19.66	-1.13	-5.7%	18.97	-0.43	-2.3%

- 74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
- 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
- 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

Northern Utilities, Inc.
New Hampshire Division
Billed Distribution Service Volumes and Meter Counts

Residential Heat Metered Deliveries (Dth)											
2022-2023		2022-2023 Compared to 2021-2022					2022-2023 Compared to 2020-2021				
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	140,526	138,242	2,284	1.7%	4,151	-1,867	137,379	3,147	2.3%	7,188	-4,041
Dec	273,585	264,444	9,141	3.5%	7,432	1,708	261,979	11,606	4.4%	13,701	-2,095
Jan	354,260	345,751	8,509	2.5%	10,002	-1,493	329,535	24,725	7.5%	17,268	7,457
Feb	374,149	335,107	39,042	11.7%	9,674	29,368	346,846	27,302	7.9%	18,119	9,183
Mar	311,765	329,730	-17,966	-5.4%	9,459	-27,425	316,228	-4,463	-1.4%	16,784	-21,247
Apr	210,937	193,539	17,398	9.0%	5,539	11,860	195,419	15,519	7.9%	9,449	6,070
May	117,054	102,103	14,951	14.6%	2,906	12,045	116,151	902	0.8%	5,413	-4,511
Jun	61,772	59,674	2,098	3.5%	1,740	359	49,968	11,804	23.6%	2,944	8,860
Jul	40,317	38,925	1,391	3.6%	1,138	253	36,303	4,014	11.1%	2,147	1,867
Aug	35,001	33,789	1,212	3.6%	988	223	33,956	1,045	3.1%	2,008	-963
Sep	36,615	35,347	1,269	3.6%	1,036	233	33,653	2,963	8.8%	1,994	969
Oct	66,022	63,746	2,276	3.6%	1,873	403	64,654	1,369	2.1%	3,841	-2,472
Winter	1,665,222	1,606,813	58,409	3.6%	46,257	12,152	1,587,385	77,837	4.9%	82,192	-4,355
Summer	356,781	333,583	23,197	7.0%	9,681	13,516	334,684	22,096	6.6%	19,100	2,997
Annual	2,022,002	1,940,397	81,606	4.2%	55,938	25,668	1,922,069	99,933	5.2%	104,608	-4,675

- 22 Note 1 Company Forecast
- 23 Note 2 Actual, weather normalized data through April. Forecast data beginning June.
- 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
- 25 Note 4 Actual, weather normalized data through May. Forecast data beginning June.
- 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	28,198	27,376	822	3.0%	26,796	1,402	5.2%
Dec	28,350	27,575	775	2.8%	26,941	1,409	5.2%
Jan	28,418	27,619	799	2.9%	27,003	1,415	5.2%
Feb	28,441	27,643	798	2.9%	27,029	1,412	5.2%
Mar	28,472	27,678	794	2.9%	27,037	1,435	5.3%
Apr	28,467	27,675	792	2.9%	27,154	1,313	4.8%
May	28,364	27,579	785	2.8%	27,101	1,263	4.7%
Jun	28,593	27,783	810	2.9%	27,002	1,591	5.9%
Jul	28,551	27,740	811	2.9%	26,957	1,594	5.9%
Aug	28,499	27,689	810	2.9%	26,908	1,591	5.9%
Sep	28,588	27,774	814	2.9%	26,989	1,599	5.9%
Oct	28,835	28,012	823	2.9%	27,218	1,617	5.9%
Winter	28,391	27,594	797	2.9%	26,993	1,398	5.2%
Summer	28,572	27,763	809	2.9%	27,029	1,543	5.7%
Annual	28,481	27,679	803	2.9%	27,011	1,470	5.4%

- 49 Note 1 Company Forecast
- 50 Note 2 Actual data through April. Forecast data beginning June.
- 51 Note 3 Actual Data.

Total Division Use Per Meter							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	4.98	5.05	-0.07	-1.3%	5.13	-0.14	-2.8%
Dec	9.65	9.59	0.06	0.6%	9.72	-0.07	-0.8%
Jan	12.47	12.52	-0.05	-0.4%	12.20	0.26	2.2%
Feb	13.16	12.12	1.03	8.5%	12.83	0.32	2.5%
Mar	10.95	11.91	-0.96	-8.1%	11.70	-0.75	-6.4%
Apr	7.41	6.99	0.42	6.0%	7.20	0.21	3.0%
May	4.13	3.70	0.42	11.5%	4.29	-0.16	-3.7%
Jun	2.16	2.15	0.01	0.6%	1.85	0.31	16.7%
Jul	1.41	1.40	0.01	0.6%	1.35	0.07	4.9%
Aug	1.23	1.22	0.01	0.6%	1.26	-0.03	-2.7%
Sep	1.28	1.27	0.01	0.6%	1.25	0.03	2.7%
Oct	2.29	2.28	0.01	0.6%	2.38	-0.09	-3.6%
Winter	58.65	58.23	0.42	0.7%	58.81	-0.16	-0.3%
Summer	12.49	12.02	0.47	3.9%	12.38	0.13	1.1%
Annual	70.99	70.10	0.89	1.3%	71.16	-0.03	0.0%

- 74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
- 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
- 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

Northern Utilities, Inc.
New Hampshire Division
Billed Distribution Service Volumes and Meter Counts

Total Division C&I Metered Deliveries (Dth)											
2022-2023		2022-2023 Compared to 2021-2022				2022-2023 Compared to 2020-2021					
Forecast	2021-2022 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	2020-2021 Normal	Change	Percent Change	Change Due to Meter Count	Change Due to Load Pattern	
1	2	3	4	5	6	7	8	9	10	11	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(3-5)	Note 4.	(1-5)	(6/5)	Note 5.	(8-10)	
Nov	564,974	546,267	18,707	3.4%	4,372	14,335	542,080	22,895	4.2%	6,882	16,013
Dec	768,012	719,649	48,362	6.7%	5,722	42,640	741,505	26,506	3.6%	10,089	16,417
Jan	896,318	895,864	453	0.1%	7,103	-6,650	853,174	43,144	5.1%	12,424	30,720
Feb	899,176	863,902	35,274	4.1%	6,844	28,430	866,513	32,663	3.8%	10,522	22,141
Mar	826,172	854,579	-28,407	-3.3%	6,806	-35,213	834,196	-8,024	-1.0%	5,939	-13,964
Apr	618,129	616,422	1,706	0.3%	4,847	-3,140	603,229	14,900	2.5%	5,170	9,730
May	472,846	454,458	18,388	4.0%	3,559	14,829	480,976	-8,130	-1.7%	4,457	-12,588
Jun	361,015	361,250	-235	-0.1%	2,900	-3,135	344,696	16,319	4.7%	5,578	10,741
Jul	348,775	348,054	721	0.2%	2,810	-2,089	361,910	-13,135	-3.6%	5,838	-18,973
Aug	343,713	342,841	872	0.3%	2,765	-1,893	330,711	13,002	3.9%	5,329	7,672
Sep	347,648	347,202	446	0.1%	2,790	-2,344	331,971	15,677	4.7%	5,280	10,396
Oct	432,539	433,598	-1,060	-0.2%	3,429	-4,488	409,304	23,235	5.7%	6,525	16,710
Winter	4,572,780	4,496,683	76,097	1.7%	35,694	40,403	4,440,697	132,083	3.0%	50,834	81,250
Summer	2,306,535	2,287,403	19,132	0.8%	18,252	880	2,259,569	46,966	2.1%	33,693	13,273
Annual	6,879,316	6,784,087	95,229	1.4%	53,946	41,283	6,700,266	179,050	2.7%	88,146	90,904

- 22 Note 1 Company Forecast
- 23 Note 2 Actual, weather normalized data through April. Forecast data beginning June.
- 24 Note 3 Column 3 of Meter Counts table times Column 2 of Use Per Meter table.
- 25 Note 4 Actual, weather normalized data through May. Forecast data beginning June.
- 26 Note 5 Column 6 of Meter Counts table times Column 5 of Use Per Meter table.

Total Division Meter Counts							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	7,179	7,122	57	0.8%	7,089	90	1.3%
Dec	7,226	7,169	57	0.8%	7,129	97	1.4%
Jan	7,246	7,189	57	0.8%	7,142	104	1.5%
Feb	7,252	7,195	57	0.8%	7,165	87	1.2%
Mar	7,214	7,157	57	0.8%	7,163	51	0.7%
Apr	7,178	7,122	56	0.8%	7,117	61	0.9%
May	7,079	7,024	55	0.8%	7,014	65	0.9%
Jun	7,033	6,977	56	0.8%	6,921	112	1.6%
Jul	6,992	6,936	56	0.8%	6,881	111	1.6%
Aug	6,999	6,943	56	0.8%	6,888	111	1.6%
Sep	7,026	6,970	56	0.8%	6,916	110	1.6%
Oct	7,138	7,082	56	0.8%	7,026	112	1.6%
Winter	7,216	7,159	57	0.8%	7,134	82	1.1%
Summer	7,045	6,989	56	0.8%	6,941	104	1.5%
Annual	7,130	7,074	56	0.8%	7,038	93	1.3%

- 49 Note 1 Company Forecast
- 50 Note 2 Actual data through April. Forecast data beginning June.
- 51 Note 3 Actual Data.

Total Division Use Per Meter							
2022-2023		Compared to 2021-2022			Compared to 2020-2021		
Forecast	Actual	Change	Percent Change	Actual	Change	Percent Change	
1	2	3	4	5	6	7	
Note 1.	Note 2.	(1-2)	(3/2)	Note 3.	(1-5)	(6/5)	
Nov	78.70	76.70	2.00	2.6%	76.47	2.23	2.9%
Dec	106.28	100.38	5.90	5.9%	104.01	2.27	2.2%
Jan	123.70	124.62	-0.92	-0.7%	119.46	4.24	3.5%
Feb	123.99	120.07	3.92	3.3%	120.94	3.05	2.5%
Mar	114.52	119.40	-4.88	-4.1%	116.46	-1.94	-1.7%
Apr	86.11	86.55	-0.44	-0.5%	84.76	1.36	1.6%
May	66.80	64.70	2.09	3.2%	68.57	-1.78	-2.6%
Jun	51.33	51.78	-0.45	-0.9%	49.80	1.53	3.1%
Jul	49.88	50.18	-0.30	-0.6%	52.60	-2.71	-5.2%
Aug	49.11	49.38	-0.27	-0.5%	48.01	1.10	2.3%
Sep	49.48	49.81	-0.33	-0.7%	48.00	1.48	3.1%
Oct	60.60	61.23	-0.63	-1.0%	58.26	2.34	4.0%
Winter	633.71	628.12	5.60	0.9%	622.45	11.22	1.8%
Summer	327.42	327.30	0.12	0.0%	325.54	1.95	0.6%
Annual	964.82	959.04	5.78	0.6%	952.07	13.17	1.4%

- 74 Note 1 Column 1 of Billed Deliveries table divided by Column 1 of Meter Counts table.
- 75 Note 2 Column 2 of Billed Deliveries table divided by Column 2 of Meter Counts table.
- 76 Note 3 Column 7 of Billed Deliveries table divided by Column 5 of Meter Counts table.

Northern Utilities, Inc.
 New Hampshire Division
 Sales Service Deliveries Forecast by Rate Class

Forecast Calendar Month Sales Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	2,042	220,036	111,391	11,507	77,862	21,743	19,554	5,047	0	469,181
Dec-22	2,949	317,835	160,901	16,621	112,469	31,407	28,245	7,290	0	677,718
Jan-23	3,479	374,954	189,817	19,608	132,681	37,051	33,321	8,601	0	799,512
Feb-23	2,982	321,407	162,709	16,808	113,733	31,760	28,562	7,372	0	685,333
Mar-23	2,537	273,372	138,392	14,296	96,735	27,013	24,294	6,271	0	582,909
Apr-23	1,463	157,618	79,793	8,243	55,775	15,575	14,007	3,615	0	336,088
May-23	1,749	77,083	27,257	14,030	26,111	23,560	6,496	10,071	0	186,357
Jun-23	1,133	49,935	17,657	9,089	16,915	15,263	4,208	6,524	0	120,723
Jul-23	968	42,665	15,086	7,765	14,452	13,041	3,596	5,574	0	103,147
Aug-23	976	43,022	15,213	7,830	14,573	13,150	3,626	5,621	0	104,010
Sep-23	1,083	47,721	16,874	8,686	16,165	14,586	4,022	6,235	0	115,370
Oct-23	2,186	96,355	34,071	17,537	32,639	29,451	8,121	12,589	0	232,948
Winter	15,452	1,665,222	843,003	87,083	589,253	164,548	147,983	38,196	0	3,550,740
Summer	8,095	356,781	126,158	64,938	120,854	109,050	30,069	46,613	0	862,556
Total	23,547	2,022,002	969,161	152,021	710,107	273,597	178,052	84,809	0	4,413,297

Forecast Calendar Month Distribution Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	2,042	220,036	129,663	13,826	172,262	45,728	52,743	164,152	91,551	892,002
Dec-22	2,949	317,835	182,200	19,324	222,508	59,365	73,230	158,384	92,743	1,128,540
Jan-23	3,479	374,954	214,233	22,707	258,828	69,102	85,330	168,477	94,718	1,291,829
Feb-23	2,982	321,407	185,017	19,639	228,985	61,042	74,877	161,163	89,656	1,144,769
Mar-23	2,537	273,372	160,562	17,110	211,274	56,115	65,548	167,186	103,166	1,056,868
Apr-23	1,463	157,618	97,201	10,452	145,715	38,427	42,183	151,944	94,447	739,448
May-23	1,749	77,083	32,110	16,324	52,486	42,291	28,448	156,775	96,474	503,741
Jun-23	1,133	49,935	21,967	11,126	40,336	31,895	18,156	132,659	91,007	398,215
Jul-23	968	42,665	19,268	9,742	37,177	29,179	16,154	144,765	95,250	395,168
Aug-23	976	43,022	19,534	9,873	38,053	29,824	15,926	146,271	93,366	396,846
Sep-23	1,083	47,721	21,317	10,786	40,309	31,732	19,160	142,263	93,179	407,549
Oct-23	2,186	96,355	39,429	20,070	61,754	50,127	35,524	163,260	101,185	569,892
Winter	15,452	1,665,222	968,875	103,058	1,239,572	329,778	393,910	971,306	566,281	6,253,454
Summer	8,095	356,781	153,626	77,923	270,115	215,048	133,369	885,993	570,461	2,671,411
Total	23,547	2,022,002	1,122,501	180,980	1,509,687	544,826	527,279	1,857,299	1,136,743	8,924,865

Forecast Sales Service Percentage

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	100.0%	100.0%	85.9%	83.2%	45.2%	47.5%	37.1%	3.1%	0.0%	52.6%
Dec-22	100.0%	100.0%	88.3%	86.0%	50.5%	52.9%	38.6%	4.6%	0.0%	60.1%
Jan-23	100.0%	100.0%	88.6%	86.4%	51.3%	53.6%	39.0%	5.1%	0.0%	61.9%
Feb-23	100.0%	100.0%	87.9%	85.6%	49.7%	52.0%	38.1%	4.6%	0.0%	59.9%
Mar-23	100.0%	100.0%	86.2%	83.6%	45.8%	48.1%	37.1%	3.8%	0.0%	55.2%
Apr-23	100.0%	100.0%	82.1%	78.9%	38.3%	40.5%	33.2%	2.4%	0.0%	45.5%
May-23	100.0%	100.0%	84.9%	85.9%	49.7%	55.7%	22.8%	6.4%	0.0%	37.0%
Jun-23	100.0%	100.0%	80.4%	81.7%	41.9%	47.9%	23.2%	4.9%	0.0%	30.3%
Jul-23	100.0%	100.0%	78.3%	79.7%	38.9%	44.7%	22.3%	3.9%	0.0%	26.1%
Aug-23	100.0%	100.0%	77.9%	79.3%	38.3%	44.1%	22.8%	3.8%	0.0%	26.2%
Sep-23	100.0%	100.0%	79.2%	80.5%	40.1%	46.0%	21.0%	4.4%	0.0%	28.3%
Oct-23	100.0%	100.0%	86.4%	87.4%	52.9%	58.8%	22.9%	7.7%	0.0%	40.9%
Winter	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	56.8%
Summer	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	32.3%
Total	100.0%	100.0%	86.3%	84.0%	47.0%	50.2%	33.8%	4.6%	0.0%	49.4%

Northern Utilities, Inc.
 New Hampshire Division
 Sales Service Deliveries Forecast by Rate Class

Forecast Bill Month Sales Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,739	140,526	68,395	11,592	56,195	22,008	19,971	6,513	0	326,939
Dec-22	2,696	273,585	140,887	14,460	99,921	28,293	27,069	6,185	0	593,095
Jan-23	3,125	354,260	183,091	16,392	123,750	30,798	31,296	6,544	0	749,255
Feb-23	3,164	374,149	192,625	16,712	129,032	31,259	27,869	6,295	0	781,107
Mar-23	2,636	311,765	158,274	15,427	109,399	29,503	24,824	6,587	0	658,414
Apr-23	2,091	210,937	99,731	12,501	70,957	22,687	16,954	6,072	0	441,931
May-23	1,677	117,054	46,162	10,541	37,778	20,224	6,390	8,147	0	247,972
Jun-23	1,420	61,772	20,370	10,751	20,374	18,061	4,060	7,005	0	143,812
Jul-23	1,271	40,317	11,838	10,902	13,127	17,015	3,655	7,730	0	105,855
Aug-23	1,199	35,001	10,917	10,953	11,630	17,025	3,580	7,811	0	98,116
Sep-23	1,220	36,615	12,058	11,091	13,318	17,030	4,407	7,554	0	103,293
Oct-23	1,309	66,022	24,813	10,700	24,626	19,694	7,977	8,367	0	163,509
Winter	15,452	1,665,222	843,003	87,083	589,253	164,548	147,983	38,196	0	3,550,740
Summer	8,095	356,781	126,158	64,938	120,854	109,050	30,069	46,613	0	862,556
Total	23,547	2,022,002	969,161	152,021	710,107	273,597	178,052	84,809	0	4,413,297

Forecast Bill Month Distribution Service Deliveries (Dth)

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,739	140,526	78,607	13,718	118,213	44,107	53,160	165,618	91,551	707,240
Dec-22	2,696	273,585	161,923	17,112	210,196	56,704	72,054	157,279	92,743	1,044,293
Jan-23	3,125	354,260	210,429	19,399	260,323	61,723	83,305	166,421	94,718	1,253,703
Feb-23	3,164	374,149	221,387	19,778	271,437	62,649	74,183	160,086	89,656	1,276,489
Mar-23	2,636	311,765	181,906	18,256	230,135	59,127	66,078	167,502	103,166	1,140,573
Apr-23	2,091	210,937	114,623	14,795	149,267	45,467	45,130	154,400	94,447	831,157
May-23	1,677	117,054	56,212	12,649	84,436	39,882	28,341	154,852	96,474	591,576
Jun-23	1,420	61,772	24,805	12,900	45,538	35,617	18,008	133,140	91,007	424,207
Jul-23	1,271	40,317	14,416	13,082	29,339	33,554	16,214	146,920	95,250	390,362
Aug-23	1,199	35,001	13,294	13,143	25,994	33,574	15,881	148,461	93,366	379,912
Sep-23	1,220	36,615	14,683	13,308	29,768	33,583	19,545	143,582	93,179	385,483
Oct-23	1,309	66,022	30,216	12,840	55,041	38,838	35,380	159,039	101,185	499,870
Winter	15,452	1,665,222	968,875	103,058	1,239,572	329,778	393,910	971,306	566,281	6,253,454
Summer	8,095	356,781	153,626	77,923	270,115	215,048	133,369	885,993	570,461	2,671,411
Total	23,547	2,022,002	1,122,501	180,980	1,509,687	544,826	527,279	1,857,299	1,136,743	8,924,865

Forecast Sales Service Percentage

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	46.2%
Dec-22	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	56.8%
Jan-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	59.8%
Feb-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	61.2%
Mar-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	57.7%
Apr-23	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	53.2%
May-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	41.9%
Jun-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	33.9%
Jul-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	27.1%
Aug-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	25.8%
Sep-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	26.8%
Oct-23	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	32.7%
Winter	100.0%	100.0%	87.0%	84.5%	47.5%	49.9%	37.6%	3.9%	0.0%	56.8%
Summer	100.0%	100.0%	82.1%	83.3%	44.7%	50.7%	22.5%	5.3%	0.0%	32.3%
Total	100.0%	100.0%	86.3%	84.0%	47.0%	50.2%	33.8%	4.6%	0.0%	49.4%

Northern Utilities, Inc.
New Hampshire Division
Estimation of Northern - New Hampshire City-Gate Sendout Requirement

Month	Sales Service Deliveries (Dth)	Company Gas Allowance (Percent)	Company Gas Allowance (LAUF and Company Use) (Dth)	Estimated Division Sales Service Sendout (Dth)	Estimated Company-Managed Sales	Total Estimated City-Gate Sendout Requirement
Nov-22	469,181	0.97%	4,595	473,776	22,530	496,306
Dec-22	677,718	0.97%	6,638	684,356	24,499	708,855
Jan-23	799,512	0.97%	7,831	807,343	28,481	835,824
Feb-23	685,333	0.97%	6,713	692,046	21,637	713,683
Mar-23	582,909	0.97%	5,710	588,619	23,281	611,900
Apr-23	336,088	0.97%	3,292	339,380	0	339,380
May-23	186,357	0.97%	1,826	188,183	0	188,183
Jun-23	120,723	0.97%	1,183	121,906	0	121,906
Jul-23	103,147	0.97%	1,011	104,158	0	104,158
Aug-23	104,010	0.97%	1,019	105,029	0	105,029
Sep-23	115,370	0.97%	1,130	116,500	0	116,500
Oct-23	232,948	0.97%	2,282	235,230	0	235,230
Winter	3,550,740	0.97%	34,780	3,585,520	120,428	3,705,948
Summer	862,556	0.97%	8,450	871,006	0	871,006
Total	4,413,297	0.97%	43,229	4,456,526	120,428	4,576,954

Northern Utilities, Inc.
New Hampshire Division
Sales Service Meters Forecast by Rate Class

Forecast Bill Month Sales Service Meters

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,249	28,311	4,737	756	443	146	11	2	0	35,655
Dec-22	1,245	28,464	4,793	763	434	149	11	2	0	35,861
Jan-23	1,244	28,529	4,803	764	434	149	11	2	0	35,937
Feb-23	1,241	28,555	4,823	763	435	149	11	2	0	35,980
Mar-23	1,247	28,557	4,818	767	434	150	11	2	0	35,986
Apr-23	1,280	28,682	4,756	784	435	150	11	2	0	36,101
May-23	1,288	28,410	4,629	788	437	150	11	2	0	35,716
Jun-23	1,301	28,352	4,511	794	452	152	11	2	0	35,575
Jul-23	1,300	28,375	4,479	789	464	151	11	2	0	35,573
Aug-23	1,302	28,398	4,501	783	463	152	11	2	0	35,613
Sep-23	1,290	28,707	4,556	779	465	153	11	2	0	35,962
Oct-23	1,268	28,897	4,716	763	468	153	12	2	0	36,278
Winter	7,506	171,098	28,731	4,598	2,614	893	66	14	0	215,520
Summer	7,749	171,139	27,392	4,695	2,749	911	67	14	0	214,717
Total	15,255	342,237	56,123	9,294	5,362	1,804	133	28	0	430,236

Forecast Bill Month Distribution Service Meters

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	1,249	28,311	5,248	842	780	266	30	30	3	36,759
Dec-22	1,245	28,464	5,311	850	764	270	29	31	3	36,967
Jan-23	1,244	28,529	5,322	851	765	270	29	31	3	37,044
Feb-23	1,241	28,555	5,344	850	766	271	29	31	3	37,090
Mar-23	1,247	28,557	5,338	854	765	272	29	31	3	37,096
Apr-23	1,280	28,682	5,270	873	766	272	30	31	3	37,207
May-23	1,288	28,410	5,129	877	771	273	29	30	3	36,810
Jun-23	1,301	28,352	4,998	884	796	276	30	30	3	36,670
Jul-23	1,300	28,375	4,963	879	818	275	30	30	3	36,673
Aug-23	1,302	28,398	4,987	872	816	276	30	29	3	36,713
Sep-23	1,290	28,707	5,048	867	819	277	30	29	3	37,070
Oct-23	1,268	28,897	5,225	849	824	278	31	29	3	37,404
Winter	7,506	171,098	31,833	5,120	4,606	1,621	176	185	18	222,163
Summer	7,749	171,139	30,350	5,228	4,844	1,655	180	177	18	221,340
Total	15,255	342,237	62,183	10,348	9,450	3,276	356	362	36	443,503

Forecast Sales Service Percentage

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Dec-22	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Jan-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Feb-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Mar-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Apr-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
May-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Jun-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Jul-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Aug-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Sep-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Oct-23	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Winter	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Summer	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%
Total	100.0%	100.0%	90.3%	89.8%	56.7%	55.1%	37.4%	7.7%	0.0%	97.0%

Forecast Bill Month Transportation Service Meters

Month	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Total Division
Nov-22	0	0	511	86	337	120	19	28	3	1,104
Dec-22	0	0	518	87	330	121	18	29	3	1,106
Jan-23	0	0	519	87	331	121	18	29	3	1,107
Feb-23	0	0	521	87	331	122	18	29	3	1,110
Mar-23	0	0	520	87	331	122	18	29	3	1,110
Apr-23	0	0	514	89	331	122	19	29	3	1,106
May-23	0	0	500	89	334	123	18	28	3	1,094
Jun-23	0	0	487	90	344	124	19	28	3	1,095
Jul-23	0	0	484	90	354	124	19	28	3	1,100
Aug-23	0	0	486	89	353	124	19	27	3	1,100
Sep-23	0	0	492	88	354	124	19	27	3	1,108
Oct-23	0	0	509	86	356	125	19	27	3	1,126
Winter	0	0	3,102	522	1,992	728	110	171	18	6,643
Summer	0	0	2,958	533	2,095	744	113	163	18	6,623
Total	0	0	6,060	1,054	4,088	1,472	223	334	36	13,267

Northern Utilities, Inc.
 New Hampshire Division
 Lost and Unaccounted For, Company Use and Therm Factor Data

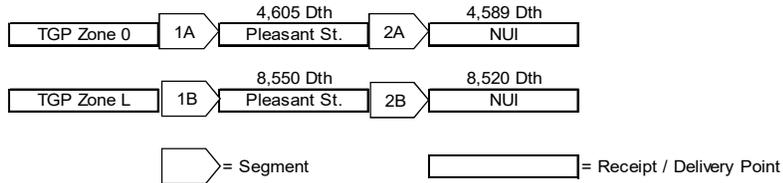
Month	GSGT - NH City-Gates (MCF)	Therm Factor	Total - NH City-Gate (Dth)	Total System Billed Sales (Dth)	Company Use (Dth)	Lost and Unaccounted For (Dth)	Company Gas Allowance (Dth)
May-18	443,025	1.0283	455,580	574,552	108	(119,080)	(118,972)
Jun-18	369,548	1.0292	380,339	409,352	40	(29,053)	(29,013)
Jul-18	351,086	1.0289	361,236	352,762	92	8,382	8,474
Aug-18	363,051	1.0284	373,373	369,837	131	3,406	3,537
Sep-18	378,195	1.0276	388,633	370,269	131	18,233	18,364
Oct-18	628,317	1.0303	647,361	485,553	100	161,708	161,808
Nov-18	923,290	1.0336	954,321	765,985	142	188,194	188,336
Dec-18	1,057,440	1.0382	1,097,877	1,067,650	207	30,020	30,227
Jan-19	1,259,492	1.0431	1,313,764	1,200,221	254	113,289	113,543
Feb-19	1,109,150	1.0375	1,150,732	1,229,927	257	(79,452)	(79,195)
Mar-19	1,008,861	1.0347	1,043,849	1,147,817	251	(104,219)	(103,968)
Apr-19	681,738	1.0309	702,824	843,446	173	(140,795)	(140,622)
May-19	545,305	1.0288	560,999	632,151	100	(71,252)	(71,152)
Jun-19	388,772	1.0290	400,027	430,401	58	(30,432)	(30,374)
Jul-19	365,810	1.0287	376,320	391,025	83	(14,788)	(14,705)
Aug-19	374,614	1.0280	385,103	380,773	140	4,190	4,330
Sep-19	394,298	1.0283	405,449	375,182	100	30,168	30,268
Oct-19	534,087	1.0295	549,837	485,413	89	64,335	64,424
Nov-19	930,426	1.0352	963,214	698,186	84	264,945	265,029
Dec-19	1,075,165	1.0460	1,124,591	1,016,439	240	107,912	108,152
Jan-20	1,077,141	1.0437	1,124,212	1,130,011	294	(6,093)	(5,799)
Feb-20	1,041,031	1.0434	1,086,254	1,133,789	289	(47,824)	(47,535)
Mar-20	839,434	1.0376	871,030	1,005,451	257	(134,678)	(134,421)
Apr-20	651,269	1.0343	673,594	707,067	180	(33,653)	(33,473)
May-20	441,527	1.0303	454,923	565,494	141	(110,712)	(110,571)
Jun-20	344,089	1.0300	354,401	396,103	60	(41,762)	(41,702)
Jul-20	332,377	1.0285	341,836	347,265	64	(5,493)	(5,429)
Aug-20	341,582	1.0299	351,806	330,714	89	21,003	21,092
Sep-20	387,752	1.0284	398,768	386,921	118	11,729	11,847
Oct-20	569,808	1.0286	586,110	452,419	61	133,631	133,691
Nov-20	740,493	1.0331	765,011	649,932	98	114,981	115,079
Dec-20	1,058,690	1.0409	1,101,990	928,725	171	173,094	173,265
Jan-21	1,172,543	1.0407	1,220,219	1,116,107	263	103,849	104,112
Feb-21	1,086,893	1.0402	1,130,630	1,198,238	328	(67,936)	(67,608)
Mar-21	942,363	1.0334	973,866	1,164,215	327	(190,676)	(190,349)
Apr-21	652,284	1.0292	671,331	720,559	162	(49,390)	(49,228)
May-21	477,820	1.0277	491,036	574,914	99	(83,977)	(83,878)
Jun-21	356,750	1.0276	366,610	396,066	78	(29,534)	(29,456)
Jul-21	374,108	1.0291	384,987	399,523	99	(14,636)	(14,536)
Aug-21	353,826	1.0298	364,375	365,908	106	(1,640)	(1,533)
Sep-21	365,636	1.0308	376,896	366,793	116	9,987	10,103
Oct-21	481,205	1.0320	496,620	414,132	83	82,405	82,488
Nov-21	795,667	1.0355	823,904	630,533	64	193,307	193,372
Dec-21	960,815	1.0382	997,512	923,452	167	73,893	74,060
Jan-22	1,355,286	1.0450	1,416,262	1,221,801	298	194,163	194,461
Feb-22	1,057,323	1.0407	1,100,404	1,251,054	1,231	(151,881)	(150,650)
Mar-22	925,084	1.0359	958,280	1,089,874	423	(132,017)	(131,594)
Apr-22	649,789	1.0335	671,534	764,911	834	(94,211)	(93,377)
Total	33,014,255	1.0356	34,189,830	33,858,911	9,282	321,637	330,919
48-Month Average					0.03%	0.94%	0.97%

Table 3. Northern Capacity Summary (Dth/Day)

<u>Pipeline Capacity Paths</u>	
Tennessee Zone 0 and Zone L Pools	13,109
Tennessee Niagara	2,327
Iroquois Receipts	6,434
Leidy Hub Supply (Texas Eastern, Algonquin)	965
Transco Zone 6, non-NY Supply (Algonquin)	286
PXP Dawn Hub	9,965
WXP Dawn Hub	9,965
Atlantic Bridge Ramapo	7,500
Total Pipeline Capacity	50,551
<u>Storage Capacity Paths</u>	
Tennessee Firm Storage	2,644
Dawn Hub Storage	39,863
Total Storage Capacity	42,507
<u>Peaking Capacity Paths</u>	
LNG - On-System	6,500
Peaking Contract 1	39,860
Peaking Contract 2	2,990
Additional Granite Capacity	436
Total Peaking Capacity	49,786
Total Design Day Capacity	142,844

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Tennessee Zone 0 100 Leg, Zone L 500 and 800 Leg Pools

Capacity Path Diagram



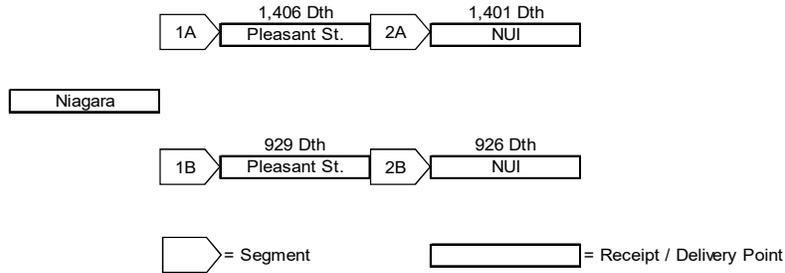
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1A ¹	Transportation	Tennessee	5083	FT-A	10/31/2028	4,605	Dth	Year-Round	Zone 0, 100 Leg	Pleasant St.	Granite
2A	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	4,589	Dth	Year-Round	Granite	Northern City Gates	
1B ¹	Transportation	Tennessee	5083	FT-A	10/31/2028	8,550	Dth	Year-Round	Zone L, 500 & 800 Legs	Pleasant St.	Granite
2B	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	8,520	Dth	Year-Round	Granite	Northern City Gates	
Total Path Deliverable						13,109	Dth				

Note 1: Tennessee Contract No. 5083 also allows for firm delivery rights to Bay State Gas city gates. As such, Tennessee Production could also be delivered to Bay State City Gates and then exchanged with Bay State via the Base State Exchange for delivery to Northern.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Niagara (Interconnection of TransCanada and Tennessee Pipelines)

Capacity Path Diagram

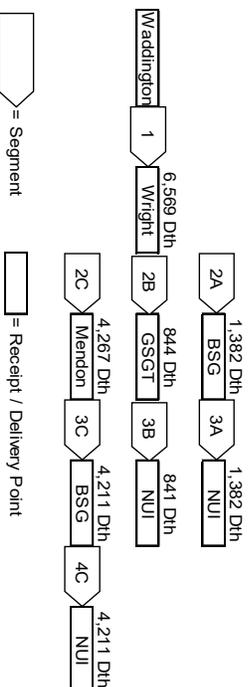


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1A	Transportation	Tennessee	5292	FT-A	3/31/2025	1,406	Dth	Year-Round	Niagara	Pleasant St.	Granite
2A	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	1,401	Dth	Year-Round	Granite	Northern City Gates	
1B	Transportation	Tennessee	39735	FT-A	3/31/2025	929	Dth	Year-Round	Niagara	Pleasant St.	Granite
2B	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	926	Dth	Year-Round	Granite	Northern City Gates	
Total Path Deliverable						2,327	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Iroquois Receipts

Capacity Path Diagram



◊ = Segment

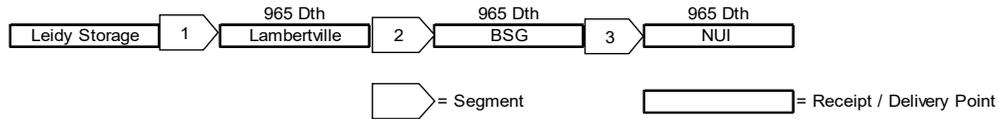
◻ = Receipt / Delivery Point

Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Iroquois	R-181003	RTS-1	10/31/2024	6,569	Dth	Year-Round	Waddington	Wright	Tennessee
2A	Transportation	Tennessee	95/196	FT-A	10/31/2027	1,382	Dth	Year-Round	Wright	Bay State City Gate	
3A	Exchange	Bay State Gas	NA	NA	Renewal Clause	1,382	Dth	Year-Round	Bay State City Gate	Northern City Gates	
2B	Transportation	Tennessee	95/196	FT-A	10/31/2027	844	Dth	Year-Round	Wright	Pleasant St.	Granite
3B	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	841	Dth	Year-Round	Granite	Northern City Gates	
2C	Transportation	Tennessee	41099	FT-A	10/31/2027	4,267	Dth	Year-Round	Wright	Mendon	Algonquin
3C*	Transportation	Algonquin Gas	93200F	AFT-1	10/31/2023	4,211	Dth	Year-Round	Mendon	Bay State City Gate	
4C	Exchange	Bay State Gas	NA	NA	Renewal Clause	4,211	Dth	Year-Round	Bay State City Gate	Northern City Gates	
Total Path Deliverable						6,434	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Algonquin Receipt Points

Capacity Path Diagram



Capacity Path Detail

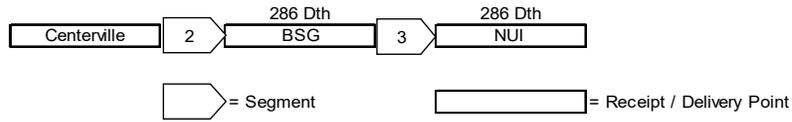
Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1*	Transportation	Texas Eastern	800384	FT-1	10/31/2027	965	Dth	Year-Round	Leidy Storage	Lambertville, NJ	Algonquin
2**	Transportation	Algonquin	93201A1C	AFT-1 (F-2/F-3)	10/31/2023	965	Dth	Year-Round	Lambertville, NJ	Bay State City Gate	
3	Exchange	Bay State Gas	NA	NA	Renewal Clause	965	Dth	Year-Round	Bay State City Gate	Northern City Gates	
Total Path Deliverable						965	Dth				

* Contract 800384 will extend to 10/31/2028 unless terminated by Northern on or before 10/31/2022. Northern intends to extend this contract.

** Contract 93201A1C will extend to 10/31/2024 unless terminated by Northern on or before 10/31/2022. Northern intends to extend this contract.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Algonquin Receipt Points

Capacity Path Diagram



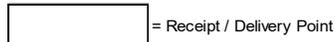
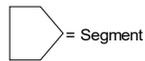
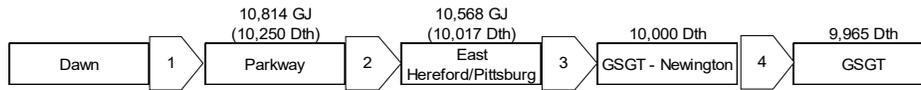
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1*	Transportation	Algonquin	93201A1C	AFT-1 (F-2/F-3)	10/31/2023	286	Dth	Year-Round	Centerville, NJ	Bay State City Gate	
2	Exchange	Bay State Gas	NA	NA	Renewal Clause	286	Dth	Year-Round	Bay State City Gate	Northern City Gates	
Total Path Deliverable						286	Dth				

* Contract 93201A1C will extend to 10/31/2024 unless terminated by Northern on or before 10/31/2022. Northern intends to extend this contract.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: PXP Dawn Hub

Capacity Path Diagram

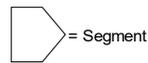
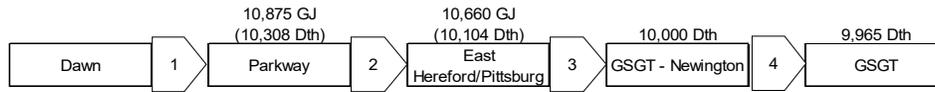


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Union	M12296	M12	10/31/2040	10,814	GJ	Year-Round	Dawn	Parkway	TransCanada
2	Transportation	TransCanada	63265	FT	10/31/2040	10,568	GJ	Year-Round	Parkway	East Hereford	PNGTS
3	Transportation	PNGTS	23339	FT	10/31/2040	10,000	Dth	Year-Round	Pittsburg, NH	Newington, NH	Granite
4	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	9,965	Dth	Year-Round	Newington, NH	Northern City Gates	
Total Path Deliverable						9,965	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: WXP Dawn Hub

Capacity Path Diagram

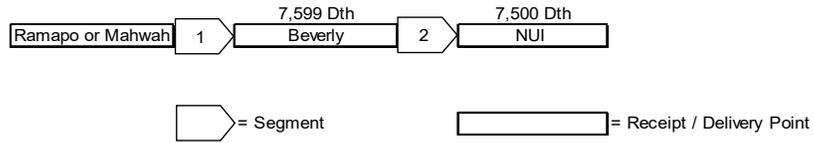


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Union	M12279	M12	10/31/2037	10,875	GJ	Year-Round	Dawn	Parkway	TransCanada
2	Transportation	TransCanada	TBD	FT	10/31/2037	10,660	GJ	Year-Round	Parkway	East Hereford	PNGTS
3	Transportation	PNGTS	240520	FT	10/31/2037	10,000	Dth	Year-Round	Pittsburg, NH	Newington, NH	Granite
4	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	9,965	Dth	Year-Round	Newington, NH	Northern City Gates	
Total Path Deliverable						9,965	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Atlantic Bridge Ramapo

Capacity Path Diagram

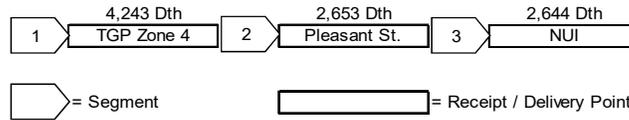


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Transportation	Algonquin	510939	FT	2/11/2036	7,599	Dth	Year-Round	Ramapo or Mawwah	Beverly, MA	Maritimes
2	Transportation	Maritimes	210363	FT	2/11/2036	7,500	Dth	Year-Round	Beverly, MA	Northern City Gates	
Total Path Deliverable						7,500	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Tennessee Firm Storage - Market Area

Capacity Path Diagram



Capacity Path Detail

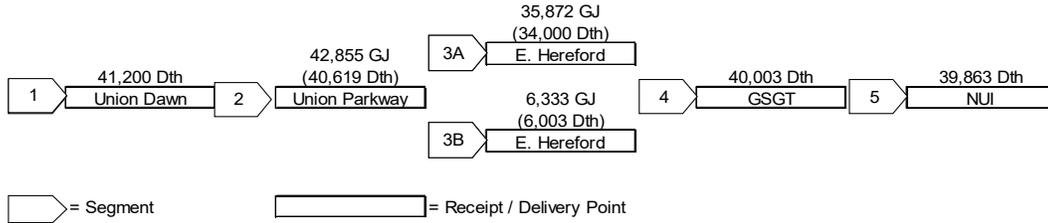
Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	Storage	Tennessee	5195	FS-MA	3/31/2025	4,243	Dth	Year-Round	NA	TGP Zone 4	Tennessee
2 ²	Transportation	Tennessee	5265	FT-A	3/31/2025	2,653	Dth	Year-Round	TGP Zone 4	Pleasant St.	Granite
3	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	2,644	Dth	Year-Round	Pleasant St.	Northern City Gates	
Total Path Deliverable						2,644	Dth				

Note 1: Tennessee Contract No. 5195 has a maximum storage quantity of 259,337 Dth.

Note 2: Tennessee Contract No. 5265 also allows for firm delivery rights to Bay State Gas city gates. As such, Tennessee Firm Storage could also be delivered to Bay State City Gates and then exchanged with Bay State via the Base State Exchange for delivery to Northern.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Union Dawn Storage

Capacity Path Diagram

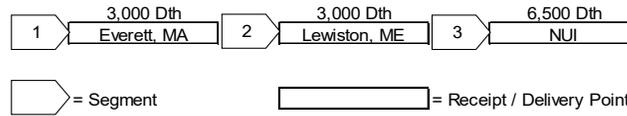


Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1	Storage	Union	LST086	Firm Storage (MDWD)	3/31/2023	43,468	GJ	Year-Round	NA	Dawn	Union
1	Storage	Union	LST086	Firm Storage (MSB)	3/31/2023	4,220,224	GJ	Year-Round	NA	Dawn	
1	Storage	Union	LST086	Firm Storage (MDID)	3/31/2023	31,652	GJ	Year-Round	NA	Dawn	
1*	Storage	Union	LST155	Firm Storage (MDWD)	3/31/2028	66,469	GJ	Year-Round	NA	Dawn	Union
1*	Storage	Union	LST155	Firm Storage (MSB)	3/31/2028	6,330,336	GJ	Year-Round	NA	Dawn	
1*	Storage	Union	LST155	Firm Storage (MDID)	3/31/2028	47,478	GJ	Year-Round	NA	Dawn	
2	Transportation	Union	M12256	M12	10/31/2033	42,962	GJ	Year-Round	Dawn	Parkway	TransCanada
3A	Transportation	TransCanada	57901	FT	3/31/2033	35,872	GJ	Year-Round	Parkway	East Hereford	PNGTS
3B	Transportation	TransCanada	57055	FT	10/31/2032	6,333	GJ	Year-Round	Parkway	East Hereford	PNGTS
4	Transportation	PNGTS	208543	FT	11/30/2032	40,003	Dth	Year-Round	Pittsburg, NH	Newington, NH	Granite
5	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	39,863	Dth	Year-Round	Newington, NH	Northern City Gates	
Total Path Deliverable						39,863	Dth				

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Lewiston LNG Plant

Capacity Path Diagram



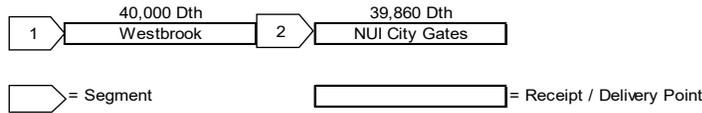
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	LNG Contract	Confidential	NA	NA	10/31/2024	3,000	Dth	Year-Round	NA		NA
2	LNG Trucking Contract	Confidential			10/31/2024	3,000	Dth	Year-Round		Lewiston, ME	NA
3	Lewiston LNG Plant	N/A	NA	NA	N/A	6,500	Dth	Year-Round	Lewiston, ME	Northern Distribution System	
Total Path Deliverable						6,500	Dth				

Note 1: The LNG Contract allows Northern to nominate up to 3,000 Dth per day (3 trucks) with an annual maximum take equal to 75,000 Dth.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Peaking Contract 1

Capacity Path Diagram



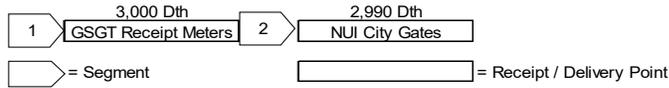
Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	Peaking Supply	Confidential	NA	NA	3/31/2023	40,000	Dth	Winter Only (Nov - Mar)	NA	Westbrook or Lewiston	Granite or Northern City Gates
2	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	39,860	Dth	Year-Round	Westbrook or Lewiston	Northern City Gates	
Total Path Deliverable						39,860	Dth				

Note 1: Peaking Contract 1 allows Northern to nominate up to 40,000 Dth per Day and up to 600,000 Dth from November through March with takes above 30,000 Dth per Day capped at 50,000 Dth. Contract volumes may also be delivered to NUI - Lewiston in which case no Granite capacity is utilized.

Northern Utilities, Inc.
 Capacity Path Diagram and Detail
 Source of Supply: Peaking Contract 2

Capacity Path Diagram



Capacity Path Detail

Segment	Product	Vendor	Contract ID	Rate Schedule	Contract Termination Date	Northern MDQ	Dth / GJ	Availability	Receipt Point	Delivery Point	Interconnecting Pipeline
1 ¹	Peaking Supply	Confidential	NA	NA	3/31/2023	3,000	Dth	Winter Only (Nov - Mar)	NA	MNUS / PNGTS	Granite or Northern City Gates
2	Transportation	Granite	19-100-FT-NN	FT-NN	10/31/2023	2,990	Dth	Year-Round	MNUS / PNGTS	Northern City Gates	
Total Path Deliverable						2,990	Dth				

Note 1: Peaking Contract 2 allows Northern to nominate up to 3,000 Dth per Day and up to 60,000 Dth from November through March. Contract volumes may also be delivered to NUI - Lewiston in which case no Granite capacity is utilized.

Northern Utilities, Inc. Estimated Gas Supply Demand Costs November 1, 2022 through October 31, 2023			
Line	Description	Estimate	Reference
1.	Pipeline Demand Costs	\$ 24,102,032	Page 3 - Pipeline Allocated Cost
2.	Storage Allocated Pipeline Demand Costs	\$ 21,827,803	Page 3 - Storage Allocated Cost
3.	Storage Demand Costs	\$ 4,206,606	Page 4 - Annual Fixed Charges
4.	Peaking Allocated Pipeline Demand Costs	\$ 1,598,890	Page 3 - Peaking Allocated Cost
5.	Peaking Contract Costs	\$ 11,428,417	Page 5, Annual Fixed Charges
6.	Asset Management and Capacity Release Revenue	\$ (20,934,600)	Page 6 - Total Asset Management and Capacity Release Revenue
7.	Total Demand Costs	\$ 42,229,147	Sum Lines 1 through 6.

Northern Utilities, Inc.
 Pipeline Contract Demand Cost Estimates
 November 1, 2022 through October 31, 2023

Capacity Path	Segment	Pipeline	Contract ID	Rate	Negotiated Rate	Maximum Daily Quantity (Dth)	Monthly Demand Rate (\$/MDQ)	Months Per Year	Reference (Att NUI-FXW-9, Page 2)	Monthly Demand	Annual Demand
Tennessee Zone 0/L Pools	1A	Tennessee	5083	FT-A	No	4,605	\$ 19.6995	12	Line 8	\$ 90,716	\$ 1,088,594
Tennessee Zone 0/L Pools	2A	Granite	19-100-FT-NN	FT-NN	No	4,589	\$ 6.1563	12	Line 3	\$ 28,251	\$ 339,015
Tennessee Zone 0/L Pools	1B	Tennessee	5083	FT-A	No	8,550	\$ 17.4901	12	Line 9	\$ 149,540	\$ 1,794,484
Tennessee Zone 0/L Pools	2B	Granite	19-100-FT-NN	FT-NN	No	8,520	\$ 6.1563	12	Line 3	\$ 52,452	\$ 629,420
Tennessee Niagara	1A	Tennessee	5292	FT-A	No	1,406	\$ 6.0936	12	Line 11	\$ 8,568	\$ 102,811
Tennessee Niagara	2A	Granite	19-100-FT-NN	FT-NN	No	1,401	\$ 6.1563	12	Line 3	\$ 8,625	\$ 103,500
Tennessee Niagara	1B	Tennessee	39735	FT-A	No	929	\$ 6.0936	12	Line 11	\$ 5,661	\$ 67,931
Tennessee Niagara	2B	Granite	19-100-FT-NN	FT-NN	No	926	\$ 6.1563	12	Line 3	\$ 5,701	\$ 68,409
Iroquois Receipts	1	Iroquois	181003	RTS-1	No	5,715	\$ 5.2357	12	Line 4	\$ 29,922	\$ 359,064
Iroquois Receipts	1	Iroquois	181003	RTS-1	No	854	\$ 5.2357	12	Line 4	\$ 4,471	\$ 53,655
Iroquois Receipts	2A	Tennessee	95196	FT-A	No	1,382	\$ 6.0936	12	Line 11	\$ 8,421	\$ 101,056
Iroquois Receipts	2B	Tennessee	95196	FT-A	No	844	\$ 6.0936	12	Line 11	\$ 5,143	\$ 61,716
Iroquois Receipts	3B	Granite	19-100-FT-NN	FT-NN	No	841	\$ 6.1563	12	Line 3	\$ 5,177	\$ 62,129
Iroquois Receipts	2C	Tennessee	41099	FT-A	No	4,267	\$ 6.0936	12	Line 11	\$ 26,001	\$ 312,017
Iroquois Receipts	3C	Algonquin	93002F	AFT-1	No	4,211	\$ 8.5927	12	Line 1	\$ 36,184	\$ 434,206
Leidy Hub	1	Texas Eastern	800384	FT-1	No	965	\$ 7.0660	12	Line 12	\$ 6,819	\$ 81,824
Leidy Hub	2	Algonquin	93201A1C	AFT-1	No	965	\$ 8.5927	12	Line 1	\$ 8,292	\$ 99,503
Transco Zone 6, non-NY	1	Algonquin	93201A1C	AFT-1	No	286	\$ 8.5927	12	Line 1	\$ 2,458	\$ 29,490
PXP Dawn Hub	1	Union	M12296	M12	No	10,250	\$ 3.0214	12	Line 14	\$ 30,969	\$ 371,632
PXP Dawn Hub	2	TransCanada	63265	FT	No	10,017	\$ 17.1991	12	Line 13	\$ 172,283	\$ 2,067,401
PXP Dawn Hub	3	PNGTS	233320	FT (PXP)	Yes	10,000	\$ 22.8125	12	Line 7	\$ 228,125	\$ 2,737,500
PXP Dawn Hub	4	Granite	19-100-FT-NN	FT-NN	No	9,965	\$ 6.1563	12	Line 3	\$ 61,348	\$ 736,170
WXP Dawn Hub	1	Union	M12279	M12	No	10,307	\$ 3.0214	12	Line 14	\$ 31,142	\$ 373,699
WXP Dawn Hub	2	TransCanada	TBD	FT	No	10,104	\$ 17.1991	12	Line 13	\$ 173,780	\$ 2,085,356
WXP Dawn Hub	3	PNGTS	240520	FT (WXP)	Yes	10,000	\$ 24.9417	12	Line 7	\$ 249,417	\$ 2,993,004
WXP Dawn Hub	4	Granite	19-100-FT-NN	FT-NN	No	9,965	\$ 6.1563	12	Line 3	\$ 61,348	\$ 736,170
Atlantic Bridge	1	Algonquin	510939	AFT	Yes	7,599	\$ 54.9170	12	Line 2	\$ 417,314	\$ 5,007,771
Atlantic Bridge	2	Maritimes	210363	MN365	Yes	7,500	\$ 13.3833	12	Line 5	\$ 100,375	\$ 1,204,500
Tennessee Firm Storage	2	Tennessee	5265	FT-A	No	2,653	\$ 6.9332	12	Line 10	\$ 18,394	\$ 220,725
Tennessee Firm Storage	3	Granite	19-100-FT-NN	FT-NN	No	2,644	\$ 6.1563	12	Line 3	\$ 16,277	\$ 195,327
Union Dawn Storage	2	Union	M12256	M12	No	40,720	\$ 3.0214	12	Line 14	\$ 123,031	\$ 1,476,377
Union Dawn Storage	3A	TransCanada	57901	FT	No	34,000	\$ 17.1991	12	Line 13	\$ 584,769	\$ 7,017,233
Union Dawn Storage	3B	TransCanada	57055	FT	No	6,003	\$ 17.1991	12	Line 13	\$ 103,246	\$ 1,238,954
Union Dawn Storage	4	PNGTS	208543	FT (C2C)	Yes	40,003	\$ 18.2500	12	Line 6	\$ 730,055	\$ 8,760,657
Union Dawn Storage	5	Granite	19-100-FT-NN	FT-NN	No	39,149	\$ 6.1563	12	Line 3	\$ 241,013	\$ 2,892,156
Union Dawn Storage	6	Granite	19-100-FT-NN	FT-NN	No	714	\$ 6.1563	6	Line 3	\$ 4,396	\$ 26,374
Peaking Capacity (Nov-Apr)	N/A	Granite	19-100-FT-NN	FT-NN	No	43,286	\$ 6.1563	6	Line 3	\$ 266,482	\$ 1,598,890
Total Annual Demand Costs											\$ 47,528,724

Northern Utilities, Inc.
 Pipeline Contract Demand Cost Allocations
 November 1, 2022 through October 31, 2023

Capacity Path	Segment	Pipeline	Contract ID	MDQ	Pipeline MDQ	Storage MDQ	Peaking MDQ	Annual Demand	Annual Pipeline Allocated Cost	Annual Storage Allocated Cost	Annual Peaking Allocated Cost
Tennessee Zone O/L Pools	1A	Tennessee	5083	4,605	4,605	-	-	\$ 1,088,594	\$ 1,088,594	\$ -	\$ -
Tennessee Zone O/L Pools	2A	Granite	19-100-FT-NN	4,589	4,589	-	-	\$ 339,015	\$ 339,015	\$ -	\$ -
Tennessee Zone O/L Pools	1B	Tennessee	5083	8,550	8,550	-	-	\$ 1,794,484	\$ 1,794,484	\$ -	\$ -
Tennessee Zone O/L Pools	2B	Granite	19-100-FT-NN	8,520	8,520	-	-	\$ 629,420	\$ 629,420	\$ -	\$ -
Tennessee Niagara	1A	Tennessee	5292	1,406	1,406	-	-	\$ 102,811	\$ 102,811	\$ -	\$ -
Tennessee Niagara	2A	Granite	19-100-FT-NN	1,401	1,401	-	-	\$ 103,500	\$ 103,500	\$ -	\$ -
Tennessee Niagara	1B	Tennessee	39735	929	929	-	-	\$ 67,931	\$ 67,931	\$ -	\$ -
Tennessee Niagara	2B	Granite	19-100-FT-NN	926	926	-	-	\$ 68,409	\$ 68,409	\$ -	\$ -
Iroquois Receipts	1	Iroquois	181003	5,715	5,715	-	-	\$ 359,064	\$ 359,064	\$ -	\$ -
Iroquois Receipts	1	Iroquois	181003	854	854	-	-	\$ 53,655	\$ 53,655	\$ -	\$ -
Iroquois Receipts	2A	Tennessee	95196	1,382	1,382	-	-	\$ 101,056	\$ 101,056	\$ -	\$ -
Iroquois Receipts	2B	Tennessee	95196	844	844	-	-	\$ 61,716	\$ 61,716	\$ -	\$ -
Iroquois Receipts	3B	Granite	19-100-FT-NN	841	841	-	-	\$ 62,129	\$ 62,129	\$ -	\$ -
Iroquois Receipts	2C	Tennessee	41099	4,267	4,267	-	-	\$ 312,017	\$ 312,017	\$ -	\$ -
Iroquois Receipts	3C	Algonquin	93002F	4,211	4,211	-	-	\$ 434,206	\$ 434,206	\$ -	\$ -
Leidy Hub	1	Texas Eastern	800384	965	965	-	-	\$ 81,824	\$ 81,824	\$ -	\$ -
Leidy Hub	2	Algonquin	93201A1C	965	965	-	-	\$ 99,503	\$ 99,503	\$ -	\$ -
Transco Zone 6, non-NY	1	Algonquin	93201A1C	286	286	-	-	\$ 29,490	\$ 29,490	\$ -	\$ -
PXP Dawn Hub	1	Union	M12296	10,250	10,250	-	-	\$ 371,632	\$ 371,632	\$ -	\$ -
PXP Dawn Hub	2	TransCanada	63265	10,017	10,017	-	-	\$ 2,067,401	\$ 2,067,401	\$ -	\$ -
PXP Dawn Hub	3	PNGTS	233320	10,000	10,000	-	-	\$ 2,737,500	\$ 2,737,500	\$ -	\$ -
PXP Dawn Hub	4	Granite	19-100-FT-NN	9,965	9,965	-	-	\$ 736,170	\$ 736,170	\$ -	\$ -
WXP Dawn Hub	1	Union	M12279	10,307	10,307	-	-	\$ 373,699	\$ 373,699	\$ -	\$ -
WXP Dawn Hub	2	TransCanada	TBD	10,104	10,104	-	-	\$ 2,085,356	\$ 2,085,356	\$ -	\$ -
WXP Dawn Hub	3	PNGTS	240520	10,000	10,000	-	-	\$ 2,993,004	\$ 2,993,004	\$ -	\$ -
WXP Dawn Hub	4	Granite	19-100-FT-NN	9,965	9,965	-	-	\$ 736,170	\$ 736,170	\$ -	\$ -
Atlantic Bridge	1	Algonquin	510939	7,599	7,599	-	-	\$ 5,007,771	\$ 5,007,771	\$ -	\$ -
Atlantic Bridge	2	Maritimes	210363	7,500	7,500	-	-	\$ 1,204,500	\$ 1,204,500	\$ -	\$ -
Tennessee Firm Storage	2	Tennessee	5265	2,653	-	2,653	-	\$ 220,725	\$ -	\$ 220,725	\$ -
Tennessee Firm Storage	3	Granite	19-100-FT-NN	2,644	-	2,644	-	\$ 195,327	\$ -	\$ 195,327	\$ -
Union Dawn Storage	2	Union	M12256	40,720	-	40,720	-	\$ 1,476,377	\$ -	\$ 1,476,377	\$ -
Union Dawn Storage	3A	TransCanada	57901	34,000	-	34,000	-	\$ 7,017,233	\$ -	\$ 7,017,233	\$ -
Union Dawn Storage	3B	TransCanada	57055	6,003	-	6,003	-	\$ 1,238,954	\$ -	\$ 1,238,954	\$ -
Union Dawn Storage	4	PNGTS	208543	40,003	-	40,003	-	\$ 8,760,657	\$ -	\$ 8,760,657	\$ -
Union Dawn Storage	5	Granite	19-100-FT-NN	39,149	-	39,149	-	\$ 2,892,156	\$ -	\$ 2,892,156	\$ -
Union Dawn Storage	6	Granite	19-100-FT-NN	714	-	714	-	\$ 26,374	\$ -	\$ 26,374	\$ -
Peaking Capacity (Nov-Apr)	N/A	Granite	19-100-FT-NN	43,286	-	-	43,286	\$ 1,598,890	\$ -	\$ -	\$ 1,598,890
Total Annual Demand Costs								\$ 47,528,724	\$ 24,102,032	\$ 21,827,803	\$ 1,598,890

Northern Utilities, Inc.
 Storage Contract Demand Cost Estimates
 November 1, 2022 through October 31, 2023

Vendor	Contract ID	Rate	Negotiated	MSQ (Dth)	MDWQ	Space Rate	Demand Rate	Months Per Year	Reference (Att NUI-FXW-10, Page 2)	Annual Space Charge	Annual Demand Charge	Annual Fixed Charges
Tennessee Union	5195 LST086	FS-MA Storage	No	259,337	4,243	\$ 0.0173	\$ 1.2655	12	Line 1	\$ 53,838	\$ 64,434	\$ 118,273
Union	LST086	Storage	Yes	4,000,000	41,200	\$ 0.0592		5	Line 2	\$ 1,183,333		\$ 1,183,333
Union	LST155	Storage	Yes	6,000,000	63,000	\$ 0.0692		7	Line 2	\$ 2,905,000		\$ 2,905,000

Total Annual Fixed Charges

\$ 4,206,606

MSQ = Maximum Space Quantity
 MDWQ = Maximum Daily Withdrawal Quantity

REDACTED

Northern Utilities, Inc.
Peaking Contract Demand Cost Estimates
November 1, 2022 through October 31, 2023

Denotes Confidential Information

Resource	Supplier	Contract Quantity	Maximum Daily Quantity	Months per Year	Annual Fixed Charges
LNG Contract		75,000	5,000	5	
Peaking Contract 1		600,000	40,000	5	
Total Peaking Supply Contract Demand Costs					\$ 11,428,417

REDACTED

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-FXW-5
Page 6 of 6

Northern Utilities, Inc.
Asset Management and Capacity Release Revenue Projections
November 1, 2022 through October 31, 2023

Denotes Confidential Information	
Capacity Path	Projected Revenue
Tennessee Zone O/L Pools	
Tennessee Niagara	
Iroquois Receipts	
Leidy Hub & Transco Zone 6, non-NY	
Atlantic Bridge	
Union Dawn Storage, PXP Dawn Hub & WXP Dawn Hub	
Total Asset Management	\$ (20,934,600)

Northern Utilities, Inc.
 New Hampshire Division
 Attachment NUI-FXW-6
 Page 1 of 7

Northern Utilities, Inc. New Hampshire Division Retail Marketer Capacity Assignment Revenue Projections November 2022 through October 2023		
Item	Revenue	Reference
Pipeline Contract Capacity Assignment	\$ (4,842,747)	Page 2
Storage Contract Capacity Assignment	\$ (394,069)	Page 3
On-System Peaking Service Demand	\$ (265,687)	Page 4
Asset Management Revenue Assigned to Retail Suppliers	\$ 44,761	Page 5
Total Division Capacity Assignment Demand Revenue	\$ (5,457,743)	Sum of Items Above

Northern Utilities, Inc.															
New Hampshire Division Pipeline Capacity Assignment Estimates															
November 2022 through October 2023															
Capacity Path	Segment	Pipeline	Contract ID	Pipeline Allocated Cost	Storage Allocated Cost	Peaking Allocated Cost	Capacity Assigned? (Y/N)	Assigned Pipeline MDQ	Assigned Storage MDQ	Assigned Peaking MDQ	Assigned Pipeline Credits	Assigned Storage Credits	Assigned Peaking Credits	NH Annual Cap Assign Credit	
Tennessee Zone 0/L Pools	1A	Tennessee	5083	\$ 1,088,594	\$ -	\$ -	Y	(506)	-	-	\$ (119,615)	\$ -	\$ -	\$ (119,615)	
Tennessee Zone 0/L Pools	2A	Granite	19-100-FT-NN	\$ 339,015	\$ -	\$ -	Y	(504)	-	-	\$ (37,233)	\$ -	\$ -	\$ (37,233)	
Tennessee Zone 0/L Pools	1B	Tennessee	5083	\$ 1,794,484	\$ -	\$ -	Y	(939)	-	-	\$ (197,078)	\$ -	\$ -	\$ (197,078)	
Tennessee Zone 0/L Pools	2B	Granite	19-100-FT-NN	\$ 629,420	\$ -	\$ -	Y	(936)	-	-	\$ (69,148)	\$ -	\$ -	\$ (69,148)	
Tennessee Niagara	1A	Tennessee	5292	\$ 102,811	\$ -	\$ -	Y	(154)	-	-	\$ (11,261)	\$ -	\$ -	\$ (11,261)	
Tennessee Niagara	2A	Granite	19-100-FT-NN	\$ 103,500	\$ -	\$ -	Y	(154)	-	-	\$ (11,377)	\$ -	\$ -	\$ (11,377)	
Tennessee Niagara	1B	Tennessee	39735	\$ 67,931	\$ -	\$ -	Y	(102)	-	-	\$ (7,459)	\$ -	\$ -	\$ (7,459)	
Tennessee Niagara	2B	Granite	19-100-FT-NN	\$ 68,409	\$ -	\$ -	Y	(102)	-	-	\$ (7,535)	\$ -	\$ -	\$ (7,535)	
Iroquois Receipts	1	Iroquois	181003	\$ 359,064	\$ -	\$ -	Y	(628)	-	-	\$ (39,456)	\$ -	\$ -	\$ (39,456)	
Iroquois Receipts	1	Iroquois	181003	\$ 53,655	\$ -	\$ -	Y	(94)	-	-	\$ (5,906)	\$ -	\$ -	\$ (5,906)	
Iroquois Receipts	2A	Tennessee	95196	\$ 101,056	\$ -	\$ -	Y	(152)	-	-	\$ (11,115)	\$ -	\$ -	\$ (11,115)	
Iroquois Receipts	2B	Tennessee	95196	\$ 61,716	\$ -	\$ -	Y	(93)	-	-	\$ (6,800)	\$ -	\$ -	\$ (6,800)	
Iroquois Receipts	3B	Granite	19-100-FT-NN	\$ 62,129	\$ -	\$ -	Y	(92)	-	-	\$ (6,797)	\$ -	\$ -	\$ (6,797)	
Iroquois Receipts	2C	Tennessee	41099	\$ 312,017	\$ -	\$ -	Y	(469)	-	-	\$ (34,295)	\$ -	\$ -	\$ (34,295)	
Iroquois Receipts	3C	Algonquin	93002F	\$ 434,206	\$ -	\$ -	Y	(463)	-	-	\$ (47,741)	\$ -	\$ -	\$ (47,741)	
Leidy Hub	1	Texas Eastern	800384	\$ 81,824	\$ -	\$ -	Y	(106)	-	-	\$ (8,988)	\$ -	\$ -	\$ (8,988)	
Leidy Hub	2	Algonquin	93201A1C	\$ 99,503	\$ -	\$ -	Y	(106)	-	-	\$ (10,930)	\$ -	\$ -	\$ (10,930)	
Transco Zone 6, non-NY	1	Algonquin	93201A1C	\$ 29,490	\$ -	\$ -	Y	(31)	-	-	\$ (3,196)	\$ -	\$ -	\$ (3,196)	
PXP Dawn Hub	1	Union	M12296	\$ 371,632	\$ -	\$ -	Y	(1,126)	-	-	\$ (40,825)	\$ -	\$ -	\$ (40,825)	
PXP Dawn Hub	2	TransCanada	63265	\$ 2,067,401	\$ -	\$ -	Y	(1,101)	-	-	\$ (227,235)	\$ -	\$ -	\$ (227,235)	
PXP Dawn Hub	3	PNGTS	233320	\$ 2,737,500	\$ -	\$ -	Y	(1,099)	-	-	\$ (300,851)	\$ -	\$ -	\$ (300,851)	
PXP Dawn Hub	4	Granite	19-100-FT-NN	\$ 736,170	\$ -	\$ -	Y	(1,095)	-	-	\$ (80,894)	\$ -	\$ -	\$ (80,894)	
WXP Dawn Hub	1	Union	M12279	\$ 373,699	\$ -	\$ -	Y	(1,132)	-	-	\$ (41,043)	\$ -	\$ -	\$ (41,043)	
WXP Dawn Hub	2	TransCanada	TBD	\$ 2,085,356	\$ -	\$ -	Y	(1,110)	-	-	\$ (229,092)	\$ -	\$ -	\$ (229,092)	
WXP Dawn Hub	3	PNGTS	240520	\$ 2,993,004	\$ -	\$ -	Y	(1,099)	-	-	\$ (328,931)	\$ -	\$ -	\$ (328,931)	
WXP Dawn Hub	4	Granite	19-100-FT-NN	\$ 736,170	\$ -	\$ -	Y	(1,095)	-	-	\$ (80,894)	\$ -	\$ -	\$ (80,894)	
Atlantic Bridge	1	Algonquin	510939	\$ 5,007,771	\$ -	\$ -	Y	(835)	-	-	\$ (550,268)	\$ -	\$ -	\$ (550,268)	
Atlantic Bridge	2	Maritimes	210363	\$ 1,204,500	\$ -	\$ -	Y	(824)	-	-	\$ (132,334)	\$ -	\$ -	\$ (132,334)	
Tennessee Firm Storage	2	Tennessee	5265	\$ -	\$ 220,725	\$ -	Y	-	(249)	-	\$ -	\$ (20,716)	\$ -	\$ (20,716)	
Tennessee Firm Storage	3	Granite	19-100-FT-NN	\$ -	\$ 195,327	\$ -	Y	-	(248)	-	\$ -	\$ (18,321)	\$ -	\$ (18,321)	
Union Dawn Storage	2	Union	M12256	\$ -	\$ 1,476,377	\$ -	Y	-	(3,815)	-	\$ -	\$ (138,320)	\$ -	\$ (138,320)	
Union Dawn Storage	3A	TransCanada	57901	\$ -	\$ 7,017,233	\$ -	Y	-	(3,185)	-	\$ -	\$ (657,350)	\$ -	\$ (657,350)	
Union Dawn Storage	3B	TransCanada	57055	\$ -	\$ 1,238,954	\$ -	Y	-	(562)	-	\$ -	\$ (115,991)	\$ -	\$ (115,991)	
Union Dawn Storage	4	PNGTS	208543	\$ -	\$ 8,760,657	\$ -	Y	-	(3,747)	-	\$ -	\$ (820,593)	\$ -	\$ (820,593)	
Union Dawn Storage	5	Granite	19-100-FT-NN	\$ -	\$ 2,892,156	\$ -	Y	-	(3,667)	-	\$ -	\$ (270,902)	\$ -	\$ (270,902)	
Union Dawn Storage	6	Granite	19-100-FT-NN	\$ -	\$ 26,374	\$ -	Y	-	(67)	-	\$ -	\$ (2,475)	\$ -	\$ (2,475)	
Peaking Capacity (Nov-Apr)	N/A	Granite	19-100-FT-NN	\$ -	\$ -	\$ 1,598,890	Y	-	-	(4,055)	\$ -	\$ -	\$ (149,783)	\$ (149,783)	
Total Capacity Assignment Credits											\$ (2,648,297)	\$ (2,044,667)	\$ (149,783)	\$ (4,842,747)	

Northern Utilities, Inc. New Hampshire Division Storage Contract Capacity Assignment Estimates November 2022 through October 2023								
Vendor	Contract ID	Annual Fixed Charges	Capacity Assigned (Y/N)	Company Managed (Y/N)	Storage Assigned ME	Assigned MSQ	Assigned MDWQ	Annual Cap Assign Credit
Tennessee	5195	\$ 118,273	Y	N	9.37%	(24,294)	(397)	\$ (11,080)
Union	LST068	\$ 1,183,333	Y	N	9.37%	(374,715)	(3,860)	\$ (110,853)
Union	LST068	\$ 2,905,000	Y	N	9.37%	(562,072)	(5,902)	\$ (272,137)

Total Division Storage Capacity Assignment \$ (394,069)

MSQ = Maximum Space Quantity
 MDWQ = Maximum Daily Withdrawal Quantity

Northern Utilities, Inc.
 New Hampshire Division
 Attachment NUI-FXW-6
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Northern Utilities, Inc. New Hampshire Division On-System Peaking Demand Capacity Assignment Revenues November 2022 through October 2023			
Month	On-System Peaking Demand TCQ	Rate	Demand Revenue
Nov-22	609	\$ 72.72	\$ (44,281)
Dec-22	609	\$ 72.72	\$ (44,281)
Jan-23	609	\$ 72.72	\$ (44,281)
Feb-23	609	\$ 72.72	\$ (44,281)
Mar-23	609	\$ 72.72	\$ (44,281)
Apr-23	609	\$ 72.72	\$ (44,281)

Total Division Peaking Demand Revenue \$ (265,687)

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Northern Utilities, Inc.
 New Hampshire Division
 Attachment NUI-FXW-6
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Northern Utilities, Inc. - New Hampshire Division					
Asset Management and Capacity Release Revenue Assigned to Retail Suppliers					
November 2022 through October 2023					
Indicates Confidential Information					
Resources	Projected Value	Company-Managed Resources	Resource Type	Percentage Capacity Assigned	Annual Value to Retail Marketers
Tennessee Zone 0/L Pools		No	Pipeline	10.99%	
Tennessee Niagara		No	Pipeline	10.99%	
Iroquois Receipts		Yes	Pipeline	10.99%	
Leidy Hub & Transco Zone 6, non-NY		Yes	Pipeline	10.99%	
Atlantic Bridge		No	Pipeline	10.99%	
Union Dawn Storage, PXP Dawn Hub & WXP Dawn Hub		No	Storage	9.37%	
Total Asset Management	\$ (20,934,600)				\$ 44,761

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Northern Utilities, Inc.
 New Hampshire Division
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 Page 6 of 7

Northern Utilities, Inc. New Hampshire Division Peaking Capacity Assignment Demand Rate November 2022 through October 2023			
Indicates Confidential Information			
Line	Description	Northern	NH Division
2	Capacity Allocation Factor		40.86%
3	Peaking Plants	6,500	2,656
4	Total	6,500	2,656
5	LNG Demand Costs		
6	Peaking Plants Fixed Costs		\$ 420,658
7	Total On-System Peaking Fixed Costs		\$ 1,158,896
8	NH Division Peaking Service Demand Rate		\$ 72.72

Northern Utilities
 New Hampshire Division
 Retail Supplier Capacity Assignment Estimates
 November 2022 through October 2023

HLF Allocation	65.64%	15.82%	18.54%	100.00%
LLF Allocation	29.51%	32.47%	38.02%	100.00%
	Pipeline MDQ	Storage MDQ	Peaking MDQ	Total MDQ
HLF TCQ	2,475	596	699	3,770
LLF TCQ	3,073	3,382	3,960	10,415
Retail Supplier Total	5,554	3,982	4,664	14,200
Northern MDQ	50,551	42,507	49,786	142,844
Cap Assign/ Total MDQ	10.99%	9.37%	9.37%	9.94%

On System Peaking	6,500
On System Peaking Allocation	13.06%

Northern Utilities - New Hampshire Division Capacity Assignment Calculations 2022-2023 Derivation of Class Assignments and Weightings

Basic assumptions:

- 1 The MBA method allocates capacity costs based on design day demands in two pieces:
 - a The base use portion of the class design day demand based on base use
 - b The remaining portion of design day demand based on remaining design day demand
- 2 Base demand is composed solely of pipeline supplies
- 3 Remaining demand consists of a portion of pipeline and all storage and peaking supplies

	Design Day Demand, Dt	Adjusted Design Day Demand, Dt	Percent of Total	Avg Daily Base Use Load, Dt	Remaining Design Day Demand
1	RATE A-Resi Non-Htg	183	0.3%	32	142
2	RATE B-Resi Htg	23,681	36.7%	1,396	21,000
3	RATE G-40	12,594	19.5%	493	11,417
4	RATE G-50	697	1.1%	254	405
5	RATE G-41	8,418	13.0%	473	7,489
6	RATE G-51	1,600	2.5%	427	1,086
7	RATE G-42	2,037	3.2%	118	1,809
8	RATE G-52	338	0.5%	182	138
9	Special Contract	1,765	2.7%	1,456	213
10	RATE T-40	1,750	2.7%	137	1,518
11	RATE T-50	128	0.2%	61	61
12	RATE T-41	8,253	12.8%	716	7,090
13	RATE T-51	1,429	2.2%	506	845
14	RATE T-42	1,008	1.6%	124	830
15	RATE T-52	664	1.0%	520	108
16	Total	64,547	100.0%	6,893	54,152
17					-
18	Residential Total	23,864	37.0%	1,427	21,142
19	LLF Total	34,061	52.8%	2,060	30,153
20	HLF Total	6,622	10.3%	3,405	2,857
21	Total	64,547	100.0%	6,893	54,152

	Residential MDQ, Dt	Total C&I MDQ, Dt	LLF C&I MDQ, Dt	HLF C&I MDQ, Dt	Total MDQ, Dt	
25	Residential Allocation					
26	Pipeline - Base	1,427	5,466	2,060	3,405	6,893
27	Pipeline - Remaining	6,560	8,150	7,445	705	14,710
28	Storage	6,716	11,449	10,459	991	18,165
29	Peaking	7,866	13,410	12,249	1,161	21,276
30	Total	22,569	38,476	32,213	6,262	61,045
31	Check - Should be 0	-	-	-	-	-

Capacity Allocations %s

	LLF C&I	HLF C&I	
35	Pipeline	29.51%	65.64%
36	Storage	32.47%	15.82%
37	Peaking	38.02%	18.54%
38	Total	100.00%	100.00%

Northern Utilities
New Hampshire Division Capacity Assignment Calculations

	HLF	LLF	Total TCQ	Capacity Assignment	Pipeline MDQ	Storage MDQ	Peaking MDQ	Total MDQ
Retail Supplier Total	3,770	10,415	14,185	14,200	6,192	3,688	4,320	14,200
Northern -Total MDQ					21,603	18,165	21,276	61,045
NH Cap Assign/ Total MDQ		CHECK S/B 0 ->	0		28.66%	20.30%	20.30%	23.26%
HLF Capacity Allocator					69.09%	14.24%	16.67%	100.00%
LLF Capacity Allocator					34.38%	30.22%	35.40%	100.00%

Percentage Design Day	42.74%
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Capacity Assignment Plan

Pipeline Capacity Paths	Northern MDQ	NH Division MDQ	Pipeline Assigned %	Capacity Assigned
Tennessee Long-Haul	13,109	5,602	28.67%	1,606
Tennessee Niagara	2,327	994	28.67%	285
Iroquois Receipts	6,434	2,749	28.66%	788
Leidy Supply (Texas Eastern, Algonquin)	965	412	28.64%	118
Transco Zone 6, non-NY Supply (Algonquin)	286	122	28.69%	35
PXP Dawn Hub	9,965	4,259	28.67%	1,221
WXP Dawn Hub	9,965	4,259	28.67%	1,221
Atlantic Bridge Ramapo	7,500	3,205	28.67%	919
Total Pipeline Capacity	50,551	21,602	28.67%	6,193

Storage Capacity Paths	Northern MDQ	NH Division MDQ	Storage Assigned %	Capacity Assigned
Tennessee Firm Storage	2,644	1,130	20.30%	229
Dawn Hub Storage	39,863	17,036	20.30%	3,459
Total Storage Capacity	42,507	18,166	20.30%	3,688

Peaking Capacity Paths	Northern MDQ	NH Division MDQ	Peaking Assigned %	Capacity Assigned
LNG - On-System	6,500	2,778	20.30%	564
Granite - Not assigned as Storage or Pipeline Capacity	43,286	18,498	20.30%	3,756
Total Peaking Capacity	49,786	21,276	20.30%	4,320

Total Capacity	142,844	61,044	23.26%	14,201
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Northern Utilities, Inc.
New Hampshire Division
Design Day Forecast by Rate Class

2022-2023 Forecast Annual Sales (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	23,547	2,022,002	969,161	152,021	710,107	273,597	178,052	84,809	0	2,045,550	1,857,320	510,427	4,413,297
Capacity Assigned Delivery Service	0	0	151,500	26,874	760,401	256,853	106,863	202,064	538,816	0	1,018,764	1,024,608	2,043,372
Capacity Exempt Delivery Service	0	0	1,840	2,085	39,179	14,375	242,363	1,570,426	597,927	0	283,383	2,184,813	2,468,196
Total System	23,547	2,022,002	1,122,501	180,980	1,509,687	544,826	527,279	1,857,299	1,136,743	2,045,550	3,159,467	3,719,848	8,924,865

2022-2023 Forecast Annual Sendout (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division	Prior Year WN Act Total Division	Percent Change
Sales Service	23,778	2,041,808	978,654	153,510	717,063	276,277	179,796	85,640	0	2,065,586	1,875,513	515,427	4,456,526	4,228,587	5.4%
Capacity Assigned Delivery Service			152,984	27,138	767,848	259,369	107,910	204,043	544,093		1,028,743	1,034,643	2,063,386	2,029,305	1.7%
Capacity Exempt Delivery Service			1,858	2,106	39,563	14,516	244,737	1,585,809	603,783		286,159	2,206,213	2,492,372	2,438,697	2.2%
Total System	23,778	2,041,808	1,133,496	182,753	1,524,474	550,162	532,444	1,875,491	1,147,877	2,065,586	3,190,414	3,756,284	9,012,284	8,696,588	3.6%

2022-2023 Forecast Load Factor Percentage

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division	Prior Year Actual Total Division	Percent Change
Sales Service	35.5%	23.6%	21.3%	60.3%	23.3%	47.3%	24.2%	69.4%		23.7%	22.3%	53.6%	24.6%	24.6%	0.3%
Capacity Assigned Delivery Service			23.9%	57.9%	25.5%	49.7%	29.3%	84.2%	84.4%		25.6%	71.1%	37.7%	37.5%	0.4%
Capacity Exempt Delivery Service			24.7%	67.0%	28.9%	56.2%	39.4%	75.2%	110.1%		37.4%	82.1%	72.2%	72.2%	0.0%
Total System	35.5%	23.6%	21.6%	60.0%	24.5%	48.6%	30.7%	75.8%	96.2%	23.7%	24.2%	73.6%	33.3%	33.5%	-0.6%

2022-2023 Design Day Sendout (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division	Prior Year Design Day Actual Total Division	Percent Change
Sales Service	183	23,681	12,594	697	8,418	1,600	2,037	338		23,864	23,049	2,635	49,548	47,141	5.1%
Capacity Assigned Delivery Service			1,750	128	8,253	1,429	1,008	664	1,765		11,012	3,987	14,999	14,813	1.3%
Capacity Exempt Delivery Service			21	9	375	71	1,701	5,778	1,503		2,096	7,360	9,456	9,254	2.2%
Total System	183	23,681	14,365	834	17,046	3,099	4,746	6,780	3,268	23,864	36,158	13,982	74,003	71,208	3.9%

2022-2023 Baseload Sendout (Dth)
(Average Daily July and August Sendout)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	32	1,396	493	254	473	427	118	182		1,427	1,084	863	3,374
Capacity Assigned Delivery Service			137	61	716	506	124	520	1,456		976	2,543	3,519
Capacity Exempt Delivery Service			2	5	37	28	281	4,038	1,616		320	5,687	6,007
Total System	32	1,396	632	319	1,225	961	522	4,740	3,072	1,427	2,380	9,093	12,900

2022-2023 Planning Load Design Day Sendout (Dth)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	183	23,681	12,594	697	8,418	1,600	2,037	338		23,864	23,049	2,635	49,548
Capacity Assigned Delivery Service			1,750	128	8,253	1,429	1,008	664	1,765		11,012	3,987	14,999
Capacity Exempt Delivery Service			0	0	0	0	0	0	0		0	0	0
Total System	183	23,681	14,345	825	16,672	3,029	3,045	1,002	1,765	23,864	34,061	6,622	64,547

2022-2023 Planning Load Baseload Sendout (Dth)
(Average Daily July and August Sendout)

	Res Non-Heat	Res Heat	G40	G50	G41	G51	G42	G52	Special Contracts	Res	LLF	HLF	Total Division
Sales Service	32	1,396	493	254	473	427	118	182		1,427	1,084	863	3,374
Capacity Assigned Delivery Service			137	61	716	506	124	520	1,456		976	2,543	3,519
Capacity Exempt Delivery Service			0	0	0	0	0	0	0		0	0	0
Total System	32	1,396	630	315	1,188	933	242	702	1,456	1,427	2,060	3,405	6,893

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Northern Utilities, Inc.
 Commodity Cost by Supply Source (\$)
 November 2022 through October 2023

Denotes Confidential Information

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	Year
Pipeline Supplies															
TGP Zone 4 300 Leg Supply															
Tennessee FS-MA Storage Path															
Dawn Supply															
Union Dawn Storage Path															
Leidy Hub															
Texas Eastern Zone M-3															
Transco Zone 6, non-NY															
Algonquin Receipts Pipeline Path															
Tennessee Niagara Pipeline Path															
Tennessee Zone 0															
Tennessee Zone L															
Tennessee Long-Haul Pipeline Path															
Iroquois Receipts Pipeline Path															
Atlantic Bridge Ramapo Pipeline Path															
Total Pipeline	\$ 4,999,465	\$ 11,029,064	\$ 13,739,341	\$ 12,885,448	\$ 8,459,044	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 56,511,246	\$ 12,986,496	\$ 69,497,742
NH CM Pipeline (Leidy/M-3)															
ME CM Pipeline (Leidy/M-3)															
NH CM Pipeline (Transco)															
ME CM Pipeline (Transco)															
NH CM Pipeline (Iroq Rec)															
ME CM Pipeline (Iroq Rec)															
Net Pipeline	\$ 4,653,001	\$ 10,571,190	\$ 13,045,845	\$ 12,266,039	\$ 8,070,275	\$ 5,398,884	\$ 2,798,684	\$ 1,860,832	\$ 1,715,991	\$ 1,710,505	\$ 1,714,809	\$ 3,185,675	\$ 54,005,233	\$ 12,986,496	\$ 66,991,729
Underground Storage															
Tennessee Storage	\$ 459,987	\$ 475,319	\$ 472,125	\$ 68,917	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,476,348	\$ -	\$ 1,476,348
Tennessee FS-MA Storage Path	\$ 459,987	\$ 475,319	\$ 472,125	\$ 68,917	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,476,348	\$ -	\$ 1,476,348
Union Dawn Storage	\$ 4,597,377	\$ 4,266,104	\$ 5,070,664	\$ 5,274,635	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,386,129	\$ -	\$ 23,386,129
Union Dawn Storage Path	\$ 4,597,377	\$ 4,266,104	\$ 5,070,664	\$ 5,274,635	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,386,129	\$ -	\$ 23,386,129
Net Storage	\$ 5,057,363	\$ 4,741,424	\$ 5,542,789	\$ 5,343,552	\$ 4,177,347	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,862,476	\$ -	\$ 24,862,476
Peaking Supplies															
Lewiston LNG															
Peaking Contract 1															
Peaking Contract 2															
Off-System Peaking / Incremental Supply															
Total Peaking	\$ 33,715	\$ 599,483	\$ 4,430,597	\$ 1,061,608	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 6,325,497	\$ 520,772	\$ 6,846,269
NH Peaking Service - (On System)															
ME Peaking Service - (On-System)															
Net Peaking	\$ 33,715	\$ 539,811	\$ 3,908,905	\$ 996,579	\$ 104,433	\$ 95,662	\$ 88,926	\$ 85,409	\$ 88,256	\$ 88,256	\$ 83,732	\$ 86,193	\$ 5,679,104	\$ 520,772	\$ 6,199,876
Total NUI Commodity	\$ 10,090,543	\$ 16,369,971	\$ 23,712,727	\$ 19,290,608	\$ 12,740,824	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 87,699,220	\$ 13,507,267	\$ 101,206,487
Company Managed Sales	\$ (346,464)	\$ (517,546)	\$ (1,215,189)	\$ (684,438)	\$ (388,769)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (3,152,406)	\$ -	\$ (3,152,406)
Net Commodity Costs	\$ 9,744,079	\$ 15,852,425	\$ 22,497,538	\$ 18,606,170	\$ 12,352,055	\$ 5,494,546	\$ 2,887,609	\$ 1,946,241	\$ 1,804,247	\$ 1,798,761	\$ 1,798,542	\$ 3,271,868	\$ 84,546,814	\$ 13,507,267	\$ 98,054,081

Northern Utilities, Inc.
 Commodity Volumes by Supply Source (Dth)
 November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	Year
Pipeline Supplies															
TGP Zone 4 300 Leg Supply	0	0	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232	578,658
Tennessee FS-MA Storage Path	0	0	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232	578,658
Dawn Supply	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,526	49,853	85,678	350,639	2,134,481	900,712	3,035,193
Union Dawn Storage Path	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,526	49,853	85,678	350,639	2,134,481	900,712	3,035,193
Leidy Hub	28,605	29,535	29,535	26,677	29,535	0	0	0	0	0	0	0	143,888	0	143,888
Texas Eastern Zone M-3	345	380	380	343	380	0	0	0	0	0	0	0	1,827	0	1,827
Transco Zone 6, non-NY	8,580	8,866	8,866	8,008	8,866	0	0	0	0	0	0	0	43,186	0	43,186
Algonquin Receipts Pipeline Path	37,530	38,781	38,781	35,028	38,781	0	0	0	0	0	0	0	188,901	0	188,901
Tennessee Niagara Pipeline Path	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235	337,742	669,977
Tennessee Zone 0	52,316	112,198	112,198	101,340	112,198	0	0	0	0	0	0	0	490,250	0	490,250
Tennessee Zone L	97,159	208,332	208,332	188,171	208,332	0	0	0	0	0	0	0	910,327	0	910,327
Tennessee Long-Haul Pipeline Path	149,475	320,530	320,530	289,511	320,530	0	0	0	0	0	0	0	1,400,577	0	1,400,577
Iroquois Receipts Pipeline Path	187,700	193,957	193,957	175,187	193,957	0	0	0	0	0	0	0	944,757	0	944,757
Atlantic Bridge Ramapo Pipeline Path	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796	1,088,544	2,159,340
Total Pipeline	620,399	1,175,821	1,200,518	1,139,338	1,088,785	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	6,254,172	2,723,230	8,977,402
NH CM Pipeline (Leidy/M-3)	-3,180	-3,286	-3,286	-2,968	-3,286	0	0	0	0	0	0	0	-16,006	0	-16,006
ME CM Pipeline (Leidy/M-3)	-2,940	-3,038	-3,038	-2,744	-3,038	0	0	0	0	0	0	0	-14,798	0	-14,798
NH CM Pipeline (Transco)	-930	-961	-961	-868	-961	0	0	0	0	0	0	0	-4,681	0	-4,681
ME CM Pipeline (Transco)	-870	-899	-899	-812	-899	0	0	0	0	0	0	0	-4,379	0	-4,379
NH CM Pipeline (Iroq Rec)	-18,420	-19,034	-19,034	-17,192	-19,034	0	0	0	0	0	0	0	-92,714	0	-92,714
ME CM Pipeline (Iroq Rec)	-17,010	-17,577	-17,577	-15,876	-17,577	0	0	0	0	0	0	0	-85,617	0	-85,617
Net Pipeline	577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	6,035,977	2,723,230	8,759,207
Underground Storage															
Tennessee Storage	64,603	66,757	66,308	9,679	0	0	0	0	0	0	0	0	207,347	0	207,347
Tennessee FS-MA Storage Path	64,603	66,757	66,308	9,679	0	0	0	0	0	0	0	0	207,347	0	207,347
Union Dawn Storage	617,749	572,943	680,455	707,983	561,116	0	0	0	0	0	0	0	3,140,246	0	3,140,246
Union Dawn Storage Path	617,749	572,943	680,455	707,983	561,116	0	0	0	0	0	0	0	3,140,246	0	3,140,246
Net Storage	682,353	639,699	746,763	717,662	561,116	0	0	0	0	0	0	0	3,347,592	0	3,347,592
Peaking Supplies															
Lewiston LNG	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040	51,300
Peaking Contract 1	0	2,133	160,283	5,766	0	0	0	0	0	0	0	0	168,181	0	168,181
Peaking Contract 2	0	10,735	30,730	18,530	0	0	0	0	0	0	0	0	59,995	0	59,995
Off-System Peaking / Incremental Supply	0	12,867	191,013	24,296	0	0	0	0	0	0	0	0	228,177	0	228,177
Total Peaking	1,800	14,727	222,273	25,976	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	268,437	11,040	279,477
NH Peaking Service - (On System)	0	-1,218	-5,200	-609	0	0	0	0	0	0	0	0	-7,027	0	-7,027
ME Peaking Service - (On-System)	0	-1,194	-5,097	-597	0	0	0	0	0	0	0	0	-6,888	0	-6,888
Net Peaking	1,800	12,315	211,976	24,770	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	254,522	11,040	265,562
Total NUI Commodity	1,304,552	1,830,248	2,169,555	1,882,976	1,651,761	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	9,870,201	2,734,270	12,604,471
Company Managed Sales	-43,350	-47,207	-55,092	-41,666	-44,795	0	0	0	0	0	0	0	-232,110	0	-232,110
Net Commodity Costs	1,261,202	1,783,041	2,114,463	1,841,310	1,606,966	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	9,638,091	2,734,270	12,372,361

REDACTED

Denotes Confidential Information

Northern Utilities, Inc.
 Average Delivered Commodity Cost by Supply Source (\$/Dth)
 November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer	Year
Pipeline Supplies															
TGP Zone 4 300 Leg Supply															
Tennessee FS-MA Storage Path															
Dawn Supply															
Union Dawn Storage Path															
Leidy Hub															
Texas Eastern Zone M-3															
Transco Zone 6, non-NY															
Algonquin Receipts Pipeline Path															
Tennessee Niagara Pipeline Path															
Tennessee Zone 0															
Tennessee Zone L															
Tennessee Long-Haul Pipeline Path															
Iroquois Receipts Pipeline Path															
Atlantic Bridge Ramapo Pipeline Path															
Total Pipeline	\$ 8.058	\$ 9.380	\$ 11.445	\$ 11.310	\$ 7.769	\$ 5.245	\$ 4.858	\$ 4.721	\$ 4.826	\$ 4.793	\$ 4.479	\$ 4.844	\$ 9.036	\$ 4.769	\$ 7.741
NH CM Pipeline (Leidy/M-3)															
ME CM Pipeline (Leidy/M-3)															
NH CM Pipeline (Transco)															
ME CM Pipeline (Transco)															
NH CM Pipeline (Iroq Rec)															
ME CM Pipeline (Iroq Rec)															
Net Pipeline	\$ 8.063	\$ 9.347	\$ 11.288	\$ 11.162	\$ 7.730	\$ 5.245	\$ 4.858	\$ 4.721	\$ 4.826	\$ 4.793	\$ 4.479	\$ 4.844	\$ 8.947	\$ 4.769	\$ 7.648
Underground Storage															
Tennessee Storage	\$ 7.120	\$ 7.120	\$ 7.120	\$ 7.120									\$ 7.120		\$ 7.120
Tennessee FS-MA Storage Path	\$ 7.120	\$ 7.120	\$ 7.120	\$ 7.120									\$ 7.120		\$ 7.120
Union Dawn Storage	\$ 7.442	\$ 7.446	\$ 7.452	\$ 7.450	\$ 7.445								\$ 7.447		\$ 7.447
Union Dawn Storage Path	\$ 7.442	\$ 7.446	\$ 7.452	\$ 7.450	\$ 7.445								\$ 7.447		\$ 7.447
Net Storage	\$ 7.412	\$ 7.412	\$ 7.422	\$ 7.446	\$ 7.445								\$ 7.427		\$ 7.427
Peaking Supplies															
Lewiston LNG															
Peaking Contract 1															
Peaking Contract 2															
Off-System Peaking / Incremental Sup															
Total Peaking	\$ 18.730	\$ 40.705	\$ 19.933	\$ 40.869	\$ 56.147	\$ 53.146	\$ 47.810	\$ 47.449	\$ 47.449	\$ 47.449	\$ 46.518	\$ 46.340	\$ 23.564	\$ 47.171	\$ 24.497
NH Peaking Service - (On System)															
ME Peaking Service - (On-System)															
Net Peaking	\$ 18.730	\$ 43.832	\$ 18.440	\$ 40.234	\$ 56.147	\$ 53.146	\$ 47.810	\$ 47.449	\$ 47.449	\$ 47.449	\$ 46.518	\$ 46.340	\$ 22.313	\$ 47.171	\$ 23.346
Total NUI Commodity	\$ 7.735	\$ 8.944	\$ 10.930	\$ 10.245	\$ 7.713	\$ 5.329	\$ 4.997	\$ 4.915	\$ 5.048	\$ 5.014	\$ 4.676	\$ 4.961	\$ 8.885	\$ 4.940	\$ 8.029
Company Managed Sales	\$ 7.992	\$ 10.963	\$ 22.057	\$ 16.427	\$ 8.679								\$ 13.582		\$ 13.582
Net Commodity Costs	\$ 7.726	\$ 8.891	\$ 10.640	\$ 10.105	\$ 7.687	\$ 5.329	\$ 4.997	\$ 4.915	\$ 5.048	\$ 5.014	\$ 4.676	\$ 4.961	\$ 8.772	\$ 4.940	\$ 7.925

REDACTED

Source of Supply: TGP Zone 4 300 Leg Supply (Tennessee FS-MA Storage Path)

		Denotes Confidential Information												2022-2023	2023	
Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter	Summer
1	Purchased Volumes	Line 9	-	-	457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
2	City Gate Delivered Volume	Line 35	-	-	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232
3	Total Purchase Cost	Line 15														
4	Variable Transportation Costs	Sum Lines 28 and 37	\$ -	\$ -	\$ 47	\$ 5,252	\$ 6,927	\$ 6,703	\$ 6,927	\$ 6,703	\$ 6,927	\$ 6,927	\$ 6,703	\$ 6,927	\$ 18,928	\$ 41,112
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	<u>Tennessee Zone 4 Supply Costs</u>															
9	Purchased Volumes	Sendout Optimization	-	-	457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411	\$ 6.538	\$ 5.325
11	NYMEX Cost	Line 9 times Line 10	\$ -	\$ -	\$ 3,709	\$ 403,121	\$ 455,969	\$ 352,218	\$ 354,914	\$ 347,348	\$ 363,143	\$ 364,299	\$ 351,758	\$ 367,971	\$ 1,215,017	\$ 2,149,433
12	NYMEX Basis Price	Att FXW-10, Line 8 of Page 1														
13	NYMEX Basis Costs	Line 9 times Line 12														
14	Total Purchase Price	Line 10 plus Line 12														
15	Total Purchase Cost	Line 11 plus Line 13														
16																
17	<u>Transportation Fuel Losses and Variable Charges</u>															
18	Tennessee Gas Pipeline (Contract 5265)															
19	Receipt Point: Tennessee Zone 4 Station 313 Pool															
20	Delivery Point: Pleasant St. (Interconnection with Granite)															
21	Total Contract Received Volume	Sendout Optimization	65,811	68,004	68,004	61,423	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	397,057	403,638
22	Received Volume	Line 14	-	-	457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
23	Percentage Allocated	Line 22 divided by Line 21	0.00%	0.00%	0.67%	83.95%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	46.80%	100.00%
24	Received Volume	Line 9	-	-	457	51,563	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	185,835	403,638
25	Fuel Loss Rate	Att FXW-10, Line 40 of Page 2			1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%
26	Delivered Volume	Line 24 times (1 - Line 25)	-	-	450	50,795	66,991	64,830	66,991	64,830	66,991	66,991	64,830	66,991	183,066	397,624
27	Variable Transportation Rate	Att FXW-10, Line 26 of Page 2			\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019
28	Variable Transportation Costs	Line 26 times Line 27	\$ -	\$ -	\$ 46	\$ 5,176	\$ 6,826	\$ 6,606	\$ 6,826	\$ 6,606	\$ 6,826	\$ 6,826	\$ 6,606	\$ 6,826	\$ 18,654	\$ 40,518
29																
30	Granite State Gas Transmission (Contract 19-100-FT-NN)															
31	Receipt Point: Pleasant St.															
32	Delivery Point: Northern City Gates															
33	Received Volume	Line 26	-	-	450	50,795	66,991	64,830	66,991	64,830	66,991	66,991	64,830	66,991	183,066	397,624
34	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%
35	City Gate Delivered Volume	Line 33 times (1 - Line 34)	-	-	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425	396,232
36	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
37	Variable Transportation Costs	Line 35 times Line 36	\$ -	\$ -	\$ 1	\$ 76	\$ 100	\$ 97	\$ 100	\$ 97	\$ 100	\$ 100	\$ 97	\$ 100	\$ 274	\$ 594

REDACTED

Source of Supply: Leidy Hub

Denotes Confidential Information		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
Line	City Gate Delivered Costs	Reference													
1	Purchased Volumes	Line 9	29,104	30,327	30,327	27,393	30,184	-	-	-	-	-	-	147,335	-
2	City Gate Delivered Volume	Line 35	28,605	29,535	29,535	26,677	29,535	-	-	-	-	-	-	143,888	-
3	Total Purchase Cost	Line 15													
4	Variable Transportation Costs	Sum Lines 25 and 37	\$ 3,445	\$ 3,559	\$ 3,559	\$ 3,214	\$ 3,559	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,335	\$ -
5	Total City Gate Delivered Costs	Sum Lines 3 and 4													
6	Average Delivered Price	Line 5 divided by Line 2													
7															
8	Texas Eastern Zone M-3 Purchases														
9	Purchased Volumes	Sendout Optimization	29,104	30,327	30,327	27,393	30,184	-	-	-	-	-	-	147,335	-
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 7,712
11	NYMEX Cost	Line 9 times Line 10	\$ 229,953	\$ 243,681	\$ 246,107	\$ 214,155	\$ 202,381	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,136,277
12	NYMEX Basis Price	Att FXW-10, Line 7 of Page 1													
13	NYMEX Basis Costs	Line 9 times Line 12													
14	Total Purchase Price	Line 10 plus Line 12													
15	Total Purchase Cost	Line 11 plus Line 13													
16															
17	Transportation Fuel Losses and Variable Charges														
18	Texas Eastern Pipeline (Contract 800384)														
19	Receipt Point: Leidy Hub														
20	Delivery Point: Lambertville, NJ														
21	Received Volume	Line 15	29,104	30,327	30,327	27,393	30,184	-	-	-	-	-	-	147,335	-
22	Fuel Loss Rate	Att FXW-10, Line 42 of Page 2	0.53%	1.36%	1.36%	1.36%	0.89%	-	-	-	-	-	-	1.10%	-
23	Delivered Volume	Line 21 times (1 - Line 22)	28,950	29,915	29,915	27,020	29,915	-	-	-	-	-	-	145,715	-
24	Variable Transportation Rate	Att FXW-10, Line 28 of Page 2	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	-	-	-	-	-	-	\$ 0.0769	-
25	Variable Transportation Costs	Line 23 times Line 24	\$ 2,226	\$ 2,300	\$ 2,300	\$ 2,078	\$ 2,300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,205	\$ -
26															
27	Algonquin Pipeline (Contract 93201A1C)														
28	Receipt Point: Lambertville, NJ														
29	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)														
30	Total Contract Received Volume	Sendout Optimization	29,299	30,300	30,300	27,368	30,300	-	-	-	-	-	-	147,566	-
31	Received Volume	Line 14	28,950	29,915	29,915	27,020	29,915	-	-	-	-	-	-	145,715	-
32	Percentage Allocated	Line 31 divided by Line 30	98.81%	98.73%	98.73%	98.73%	98.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	98.73%	0.00%
33	Received Volume	Line 15	28,950	29,915	29,915	27,020	29,915	-	-	-	-	-	-	145,715	-
34	Fuel Loss Rate	Att FXW-10, Line 30 of Page 2	1.19%	1.27%	1.27%	1.27%	1.27%	-	-	-	-	-	-	1.25%	-
35	City Gate Delivered Volume	Line 33 times (1 - Line 34)	28,605	29,535	29,535	26,677	29,535	-	-	-	-	-	-	143,888	-
36	Variable Transportation Rate	Att FXW-10, Line 16 of Page 2	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	-	-	-	-	-	-	\$ 0.0426	-
37	Variable Transportation Costs	Line 35 times Line 36	\$ 1,219	\$ 1,258	\$ 1,258	\$ 1,136	\$ 1,258	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,130	\$ -

REDACTED

Source of Supply: Tennessee Niagara Pipeline Path

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer	
1	Purchased Volumes	Line 39	55,869	57,731	57,731	52,144	57,731	55,869	57,731	55,869	57,731	57,731	55,869	57,731	337,076	342,663	
2	City Gate Delivered Volume	Line 71	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235	337,742	
3	Total Purchase Cost	Line 45															
4	Variable Transportation Costs	Sum Lines 55, 64 and 73	\$ 4,349	\$ 4,494	\$ 4,494	\$ 4,059	\$ 4,494	\$ 4,349	\$ 4,494	\$ 4,349	\$ 4,494	\$ 4,494	\$ 4,349	\$ 4,494	\$ 26,237	\$ 26,672	
5	Total City Gate Delivered Costs	Sum Lines 3 and 4															
6	Average Delivered Price	Line 5 divided by Line 2															
7																	
8	Niagara Supply Costs																
9	Block 1 Nov-Mar NYMEX Lock Volume																
10	Block 1 Nov-Mar NYMEX Lock Price		\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	
11	Block 1 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	Block 1 Dec-Feb NYMEX Lock Volume																
13	Block 1 Dec-Feb NYMEX Lock Price			\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	
14	Block 1 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15	Block 2 Nov-Mar NYMEX Lock Volume		36,300	37,510	37,510	33,880	37,510										
16	Block 2 Nov-Mar NYMEX Lock Price		\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	
17	Block 2 Nov-Mar NYMEX Lock Cost		\$ 205,458	\$ 212,307	\$ 212,307	\$ 191,761	\$ 212,307										
18	Block 2 Dec-Feb NYMEX Lock Volume			8,866	8,866	8,008											
19	Block 2 Dec-Feb NYMEX Lock Price			\$ 5,830	\$ 5,830	\$ 5,830											
20	Block 2 Dec-Feb NYMEX Lock Cost			\$ 51,689	\$ 51,689	\$ 46,687											
21	Block 3 Nov-Mar NYMEX Lock Volume																
22	Block 3 Nov-Mar NYMEX Lock Price																
23	Block 3 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
24	Block 3 Dec-Feb NYMEX Lock Volume																
25	Block 3 Dec-Feb NYMEX Lock Price																
26	Block 3 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27	Block 4 Nov-Mar NYMEX Lock Volume																
28	Block 4 Nov-Mar NYMEX Lock Price																
29	Block 4 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
30	Block 4 Dec-Feb NYMEX Lock Volume																
31	Block 4 Dec-Feb NYMEX Lock Price																
32	Block 4 Dec-Feb NYMEX Lock Cost			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
33	Total NYMEX Lock Volume		36,300	46,376	46,376	41,888	37,510										
34	Weighted Average NYMEX Lock Price		\$ 5,660	\$ 5,693	\$ 5,693	\$ 5,693	\$ 5,693	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	
35	Total NYMEX Lock Cost		\$ 205,458	\$ 263,995	\$ 263,995	\$ 238,447	\$ 212,307	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
36	NYMEX Variable Volume		19,569	11,355	11,355	10,256	20,221	55,869	57,731	55,869	57,731	57,731	55,869	57,731	337,076	342,663	
37	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 5,411	\$ 5,411	
38	Total NYMEX Variable Cost		\$ 154,614	\$ 91,240	\$ 92,148	\$ 80,184	\$ 135,584	\$ 299,011	\$ 301,299	\$ 294,876	\$ 308,285	\$ 309,266	\$ 298,620	\$ 312,384	\$ 2,036,983	\$ 1,824,731	
39	Purchased Volumes	Sendout Optimization	55,869	57,731	57,731	52,144	57,731	55,869	57,731	55,869	57,731	57,731	55,869	57,731	337,076	342,663	
40	Monthly NYMEX Price	Line 41 divided by Line 39	\$ 6,445	\$ 6,153	\$ 6,169	\$ 6,111	\$ 6,026	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 5,411	\$ 5,411	
41	NYMEX Cost	Sum Lines 38 and 35	\$ 360,072	\$ 355,235	\$ 356,143	\$ 318,632	\$ 347,890	\$ 299,011	\$ 301,299	\$ 294,876	\$ 308,285	\$ 309,266	\$ 298,620	\$ 312,384	\$ 2,036,983	\$ 1,824,731	
42	NYMEX Basis Price	Att FXW-10, Line 3 of Page 1															
43	NYMEX Basis Costs	Line 39 times Line 42															
44	Total Purchase Price	Line 40 plus Line 42															
45	Total Purchase Cost	Line 41 plus Line 43															
46																	
47	Transportation Fuel Losses and Variable Charges																
48	Tennessee Gas Pipeline (Contract 5292)																
49	Receipt Point: Niagara																
50	Delivery Point: Pleasant St. (Interconnection with Granite)																
51	Received Volume	Line 9	33,637	34,758	34,758	31,394	34,758	33,637	34,758	33,637	34,758	34,758	33,637	34,758	202,941	206,305	
52	Fuel Loss Rate	Att FXW-10, Line 41 of Page 2	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	
53	Delivered Volume	Line 51 times (1 - Line 52)	33,270	34,379	34,379	31,052	34,379	33,270	34,379	33,270	34,379	34,379	33,270	34,379	200,729	204,056	
54	Variable Transportation Rate	Att FXW-10, Line 27 of Page 2	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	
55	Variable Transportation Costs	Line 53 times Line 54	\$ 2,568	\$ 2,654	\$ 2,654	\$ 2,397	\$ 2,654	\$ 2,568	\$ 2,654	\$ 2,568	\$ 2,654	\$ 2,654	\$ 2,568	\$ 2,654	\$ 15,496	\$ 15,753	
56																	
57	Tennessee Gas Pipeline (Contract 39735)																
58	Receipt Point: Niagara																
59	Delivery Point: Pleasant St. (Interconnection with Granite)																
60	Received Volume	Line 9	22,232	22,973	22,973	20,750	22,973	22,232	22,973	22,232	22,973	22,973	22,232	22,973	134,135	136,358	
61	Fuel Loss Rate	Att FXW-10, Line 41 of Page 2	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	
62	Delivered Volume	Line 60 times (1 - Line 61)	21,990	22,723	22,723	20,524	22,723	21,990	22,723	21,990	22,723	22,723	21,990	22,723	132,673	134,872	
63	Variable Transportation Rate	Att FXW-10, Line 27 of Page 2	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	
64	Variable Transportation Costs	Line 62 times Line 63	\$ 1,698	\$ 1,754	\$ 1,754	\$ 1,584	\$ 1,754	\$ 1,698	\$ 1,754	\$ 1,698	\$ 1,754	\$ 1,754	\$ 1,698	\$ 1,754	\$ 10,242	\$ 10,412	
65																	
66	Granite State Gas Transmission (Contract 19-100-FT-NN)																
67	Receipt Point: Pleasant St.																
68	Delivery Point: Northern City Gates																
69	Received Volume	Line 62	55,260	57,102	57,102	51,576	57,102	55,260	57,102	55,260	57,102	57,102	55,260	57,102	333,402	338,928	
70	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	
71	City Gate Delivered Volume	Line 69 times (1 - Line 70)	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235	337,742	
72	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	
73	Variable Transportation Costs	Line 71 times Line 72	\$ 83	\$ 85	\$ 85	\$ 77	\$ 85	\$ 83	\$ 85	\$ 83	\$ 85	\$ 85	\$ 83	\$ 85	\$ 498	\$ 507	

REDACTED

Source of Supply: Iroquois Receipts Pipeline Path

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 39	191,953	198,460	198,460	179,254	198,460	-	-	-	-	-	-	-	966,589	-
2	City Gate Delivered Volume	Sum Lines 62, 80 and 98	187,700	193,957	193,957	175,187	193,957	-	-	-	-	-	-	-	944,757	-
3	Total Purchase Cost	Line 45														
4	Variable Transportation Costs	Sum Lines 55, 64, 73, 82, 91 and 100	\$ 20,963	\$ 21,670	\$ 21,670	\$ 19,573	\$ 21,670	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 105,546	\$ -
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Iroquois Receipts Supply Costs															
9	Block 1 Nov-Mar NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Block 1 Nov-Mar NYMEX Lock Price		\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610
11	Block 1 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Block 1 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Block 1 Dec-Feb NYMEX Lock Price		\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800
14	Block 1 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Block 2 Nov-Mar NYMEX Lock Volume		15,270	15,779	15,779	14,252	15,779	-	-	-	-	-	-	-	-	-
16	Block 2 Nov-Mar NYMEX Lock Price		\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660
17	Block 2 Nov-Mar NYMEX Lock Cost		\$ 86,428	\$ 89,309	\$ 89,309	\$ 80,666	\$ 89,309	\$ 80,666	\$ 89,309	\$ 80,666	\$ 89,309	\$ 80,666	\$ 89,309	\$ 80,666	\$ 89,309	\$ 80,666
18	Block 2 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Block 2 Dec-Feb NYMEX Lock Price		\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830
20	Block 2 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
21	Block 3 Nov-Mar NYMEX Lock Volume		75,000	496	496	448	448	-	-	-	-	-	-	-	-	-
22	Block 3 Nov-Mar NYMEX Lock Price		\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460
23	Block 3 Nov-Mar NYMEX Lock Cost		\$ 559,500	\$ 3,700	\$ 3,700	\$ 3,342	\$ 578,150	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24	Block 3 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Block 3 Dec-Feb NYMEX Lock Price		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26	Block 3 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	Block 4 Nov-Mar NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Block 4 Nov-Mar NYMEX Lock Price		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	Block 4 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	Block 4 Dec-Feb NYMEX Lock Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Block 4 Dec-Feb NYMEX Lock Price		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	Block 4 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
33	Total NYMEX Lock Volume		90,270	157,604	157,604	142,352	93,279	-	-	-	-	-	-	-	-	-
34	Weighted Average NYMEX Lock Price		\$ 7,156	\$ 5,818	\$ 5,818	\$ 5,818	\$ 7,156	\$ 7,156	\$ 5,818	\$ 5,818	\$ 5,818	\$ 5,818	\$ 5,818	\$ 5,818	\$ 5,818	\$ 5,818
35	Total NYMEX Lock Cost		\$ 645,928	\$ 916,957	\$ 916,957	\$ 828,220	\$ 667,459	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	NYMEX Variable Volume		101,683	40,856	40,856	36,302	105,181	-	-	-	-	-	-	-	-	-
37	Monthly NYMEX Price		\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ -	\$ -
38	Total NYMEX Variable Cost	Att FXW-10, Line 19 of Page 1	\$ 803,400	\$ 328,280	\$ 331,549	\$ 288,503	\$ 705,241	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
39	Purchased Volumes	Sendout Optimization	191,953	198,460	198,460	179,254	198,460	-	-	-	-	-	-	-	966,589	-
40	Monthly NYMEX Price	Line 41 divided by Line 39	\$ 7,550	\$ 6,274	\$ 6,291	\$ 6,230	\$ 6,917	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,655	\$ -
41	NYMEX Cost	Sum Lines 38 and 35	\$ 1,449,328	\$ 1,245,238	\$ 1,248,506	\$ 1,116,723	\$ 1,372,700	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,432,495	\$ -
42	NYMEX Basis Price	Att FXW-10, Line 4 of Page 1														
43	NYMEX Basis Costs	Line 39 times Line 42														
44	Total Purchase Price	Line 40 plus Line 42														
45	Total Purchase Cost	Line 41 plus Line 43														
46																
47	Transportation Fuel Losses and Variable Charges															
48	Iroquois Pipeline (Contract R181001)															
49	Receipt Point: Waddington															
50	Delivery Point: Wright (Interconnection with Tennessee)															
51	Received Volume	Line 44	191,953	198,460	198,460	179,254	198,460	-	-	-	-	-	-	-	966,589	-
52	Fuel Loss Rate	Att FXW-10, Line 33 of Page 2	0.30%	0.30%	0.30%	0.30%	0.30%	-	-	-	-	-	-	-	0.30%	-
53	Delivered Volume	Line 51 times (1 - Line 52)	191,377	197,865	197,865	178,717	197,865	-	-	-	-	-	-	-	963,689	-
54	Variable Transportation Rate	Att FXW-10, Line 19 of Page 2	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0049	\$ -
55	Variable Transportation Costs	Line 53 times Line 54	\$ 938	\$ 970	\$ 970	\$ 876	\$ 970	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,722	\$ -
56																
57	Tennessee Gas Pipeline (Contract 95196)															
58	Receipt Point: Wright															
59	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)															
60	Received Volume	Line 53	41,917	43,314	43,314	39,122	43,314	-	-	-	-	-	-	-	210,982	-
61	Fuel Loss Rate	Att FXW-10, Line 41 of Page 2	1.09%	1.09%	1.09%	1.09%	1.09%	-	-	-	-	-	-	-	1.09%	-
62	City Gate Delivered Volume	Line 60 times (1 - Line 61)	41,460	42,842	42,842	38,696	42,842	-	-	-	-	-	-	-	208,882	-
63	Variable Transportation Rate	Att FXW-10, Line 27 of Page 2	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0772	\$ -
64	Variable Transportation Costs	Line 62 times Line 63	\$ 3,201	\$ 3,307	\$ 3,307	\$ 2,987	\$ 3,307	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,110	\$ -
65																
66	Tennessee Gas Pipeline (Contract 95196)															
67	Receipt Point: Wright															
68	Delivery Point: Pleasant St. (Interconnection with Granite)															
69	Received Volume	Line 62	20,200	20,874	20,874	18,854	20,874	-	-	-	-	-	-	-	101,674	-
70	Fuel Loss Rate	Att FXW-10, Line 41 of Page 2	1.09%	1.09%	1.09%	1.09%	1.09%	-	-	-	-	-	-	-	1.09%	-
71	Delivered Volume	Line 69 times (1 - Line 70)	19,980	20,646	20,646	18,648	20,646	-	-	-	-	-	-	-	100,566	-
72	Variable Transportation Rate	Att FXW-10, Line 27 of Page 2	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.0772	\$ -
73	Variable Transportation Costs	Line 71 times Line 72	\$ 1,542	\$ 1,594	\$ 1,594	\$ 1,440	\$ 1,594	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,764	\$ -
74																
75	Granite State Gas Transmission (Contract 19-100-FT-NN)															
76	Receipt Point: Pleasant St.															
77	Delivery Point: Northern City Gates															
78	Received Volume	Line 71	19,980	20,646	20,646	18,648	20,646	-	-	-	-	-	-	-	100,566	-
79	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	-
80	City Gate Delivered Volume	Line 78 times (1 - Line 79)	19,810	20,574	20,574	18,583	20,574	-	-	-	-	-	-	-	100,214	-
81	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ #DIV/0!
82	Variable Transportation Costs	Line 80 times Line 81	\$ 30	\$ 31	\$ 31	\$ 28	\$ 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150	\$ -
83																
84	Tennessee Gas Pipeline (Contract 41099)															
85	Receipt Point: Wright															

REDACTED

Source of Supply: Texas Eastern Zone M-3

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer	
1	Purchased Volumes	Line 9	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-	
2	City Gate Delivered Volume	Line 26	345	380	380	343	380	-	-	-	-	-	-	-	1,827	-	
3	Total Purchase Cost	Line 15															
4	Variable Transportation Costs	Line 28															
5	Total City Gate Delivered Costs	Sum Lines 3 and 4															
6	Average Delivered Price	Line 5 divided by Line 2															
7																	
8	Texas Eastern Zone M-3 Purchases																
9	Purchased Volumes	Sendout Optimization	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-	
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 7,709	-	
11	NYMEX Cost	Line 9 times Line 10	\$ 2,755	\$ 3,092	\$ 3,123	\$ 2,717	\$ 2,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,267	\$ -	
12	NYMEX Basis Price	Att FXW-10, Line 6 of Page 1															
13	NYMEX Basis Costs	Line 9 times Line 12															
14	Total Purchase Price	Line 10 plus Line 12															
15	Total Purchase Cost	Line 11 plus Line 13															
16																	
17	Transportation Fuel Losses and Variable Charges																
18	Algonquin Pipeline (Contract 93201A1C)																
19	Receipt Point: Lambertville, NJ																
20	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)																
21	Total Contract Received Volume	Sendout Optimization	29,299	30,300	30,300	27,368	30,300	-	-	-	-	-	-	-	147,566	-	
22	Received Volume	Line 14	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-	
23	Percentage Allocated	Line 22 divided by Line 21	1.19%	1.27%	1.27%	1.27%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.25%	0.00%	
24	Received Volume	Line 15	349	385	385	348	385	-	-	-	-	-	-	-	1,851	-	
25	Fuel Loss Rate	Att FXW-10, Line 30 of Page 2	1.19%	1.27%	1.27%	1.27%	1.27%	-	-	-	-	-	-	-	1.25%	-	
26	City Gate Delivered Volume	Line 24 times (1 - Line 25)	345	380	380	343	380	-	-	-	-	-	-	-	1,827	-	
27	Variable Transportation Rate	Att FXW-10, Line 16 of Page 2	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	-	-	-	-	-	-	-	\$ 0.0426	-	
28	Variable Transportation Costs	Line 26 times Line 27	\$ 15	\$ 16	\$ 16	\$ 15	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 78	\$ -	

REDACTED

Source of Supply: Tranco Zone 6, non-NY

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer	
1	Purchased Volumes	Line 9	8,683	8,980	8,980	8,111	8,980	-	-	-	-	-	-	-	-	43,734	
2	City Gate Delivered Volume	Line 23	8,580	8,866	8,866	8,008	8,866	-	-	-	-	-	-	-	-	43,186	
3	Total Purchase Cost	Line 15															
4	Variable Transportation Costs	Line 25															
5	Total City Gate Delivered Costs	Sum Lines 3 and 4	\$ 366	\$ 378	\$ 378	\$ 341	\$ 378	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,840	
6	Average Delivered Price	Line 5 divided by Line 2															
7																	
8	Tranco Zone 6, non-NY Purchases																
9	Purchased Volumes	Sendout Optimization	8,683	8,980	8,980	8,111	8,980	-	-	-	-	-	-	-	-	43,734	
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 7,711		
11	NYMEX Cost	Line 9 times Line 10	\$ 68,607	\$ 72,155	\$ 72,873	\$ 63,412	\$ 60,211	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,258	
12	NYMEX Basis Price	Att FXW-10, Line 5 of Page 1															
13	NYMEX Basis Costs	Line 9 times Line 12															
14	Total Purchase Price	Line 10 plus Line 12															
15	Total Purchase Cost	Line 11 plus Line 13															
16																	
17	Transportation Fuel Losses and Variable Charges																
18	Algonquin Pipeline (Contract 93201A1C)																
19	Receipt Point: Centerville, NJ																
20	Delivery Point: Bay State City Gate (Delivered to Northern via Exchange Agreement)																
21	Received Volume	Line 15	8,683	8,980	8,980	8,111	8,980	-	-	-	-	-	-	-	-	43,734	
22	Fuel Loss Rate	Att FXW-10, Line 30 of Page 2	1.19%	1.27%	1.27%	1.27%	1.27%									1.25%	
23	City Gate Delivered Volume	Line 21 times (1 - Line 22)	8,580	8,866	8,866	8,008	8,866	-	-	-	-	-	-	-	-	43,186	
24	Variable Transportation Rate	Att FXW-10, Line 16 of Page 2	\$ 0,0426	\$ 0,0426	\$ 0,0426	\$ 0,0426	\$ 0,0426								\$ 0,0426		
25	Variable Transportation Costs	Line 23 times Line 24	\$ 366	\$ 378	\$ 378	\$ 341	\$ 378	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,840	

REDACTED

Source of Supply: Tennessee Zone 0

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer	
1	Purchased Volumes	Line 39	55,444	118,906	118,906	107,399	118,906	-	-	-	-	-	-	-	519,561	-	
2	City Gate Delivered Volume	Line 62	52,316	112,198	112,198	101,340	112,198	-	-	-	-	-	-	-	490,250	-	
3	Total Purchase Cost	Line 45															
4	Variable Transportation Costs	Sum Lines 55 and 64	\$ 15,933	\$ 34,171	\$ 34,171	\$ 30,864	\$ 34,171	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,311	\$ -	
5	Total City Gate Delivered Costs	Sum Lines 4 and 5															
6	Average Delivered Price	Line 5 divided by Line 2															
7																	
8	Tennessee Zone 0 Supply Costs																
9	Block 1 Nov-Mar NYMEX Lock Volume		26,250	27,125	27,125	24,500	27,125										
10	Block 1 Nov-Mar NYMEX Lock Price		\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610										
11	Block 1 Nov-Mar NYMEX Lock Cost		\$ 226,013	\$ 233,546	\$ 233,546	\$ 210,945	\$ 233,546										
12	Block 1 Dec-Feb NYMEX Lock Volume			54,250	54,250	49,000											
13	Block 1 Dec-Feb NYMEX Lock Price			\$ 8,800	\$ 8,800	\$ 8,800											
14	Block 1 Dec-Feb NYMEX Lock Cost			\$ 477,400	\$ 477,400	\$ 431,200											
15	Block 2 Nov-Mar NYMEX Lock Volume		8,201	8,474	8,474	7,654	8,474										
16	Block 2 Nov-Mar NYMEX Lock Price		\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660										
17	Block 2 Nov-Mar NYMEX Lock Cost		\$ 46,415	\$ 47,962	\$ 47,962	\$ 43,321	\$ 47,962										
18	Block 2 Dec-Feb NYMEX Lock Volume			1,682	1,682	1,519											
19	Block 2 Dec-Feb NYMEX Lock Price			\$ 5,830	\$ 5,830	\$ 5,830											
20	Block 2 Dec-Feb NYMEX Lock Cost			\$ 9,805	\$ 9,805	\$ 8,856											
21	Block 3 Nov-Mar NYMEX Lock Volume																
22	Block 3 Nov-Mar NYMEX Lock Price																
23	Block 3 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -										
24	Block 3 Dec-Feb NYMEX Lock Volume																
25	Block 3 Dec-Feb NYMEX Lock Price																
26	Block 3 Dec-Feb NYMEX Lock Cost			\$ -	\$ -	\$ -	\$ -										
27	Block 4 Nov-Mar NYMEX Lock Volume																
28	Block 4 Nov-Mar NYMEX Lock Price																
29	Block 4 Nov-Mar NYMEX Lock Cost		\$ -	\$ -	\$ -	\$ -	\$ -										
30	Block 4 Dec-Feb NYMEX Lock Volume																
31	Block 4 Dec-Feb NYMEX Lock Price																
32	Block 4 Dec-Feb NYMEX Lock Cost			\$ -	\$ -	\$ -	\$ -										
33	Total NYMEX Lock Volume		34,451	91,531	91,531	82,673	35,599										
34	Weighted Average NYMEX Lock Price		\$ 7,908	\$ 8,398	\$ 8,398	\$ 8,398	\$ 7,908										
35	Total NYMEX Lock Cost		\$ 272,427	\$ 768,713	\$ 768,713	\$ 694,321	\$ 281,508	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
36	NYMEX Variable Volume		20,994	27,375	27,375	24,726	83,307										
37	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411			
38	Total NYMEX Variable Cost		\$ 165,870	\$ 219,961	\$ 222,151	\$ 193,308	\$ 558,574	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
39	Purchased Volumes	Sendout Optimization	55,444	118,906	118,906	107,399	118,906										
40	Average NYMEX Price	Line 41 divided by Line 39	\$ 7,905	\$ 8,315	\$ 8,333	\$ 8,265	\$ 7,065								\$ 7,979		
41	NYMEX Cost	Sum Lines 38 and 35	\$ 438,298	\$ 988,673	\$ 990,863	\$ 887,630	\$ 840,082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,145,546	\$ -	
42	NYMEX Basis Price	Att FXW-10, Line 1 of Page 1															
43	NYMEX Basis Costs	Line 39 times Line 42															
44	Total Purchase Price	Line 40 plus Line 42															
45	Total Purchase Cost	Line 41 plus Line 43															
46																	
47	Transportation Fuel Losses and Variable Charges																
48	Tennessee Gas Pipeline (Contract 5083)																
49	Receipt Point: Tennessee Zone 0																
50	Delivery Point: Pleasant St. (Interconnection with Granite)																
51	Received Volume	Line 39	55,444	118,906	118,906	107,399	118,906								519,561		
52	Fuel Loss Rate	Att FXW-10, Line 38 of Page 2	5.31%	5.31%	5.31%	5.31%	5.31%								5.31%		
53	Delivered Volume	Line 51 times (1 - Line 52)	52,500	112,592	112,592	101,696	112,592								491,972		
54	Variable Transportation Rate	Att FXW-10, Line 24 of Page 2	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020								\$ 0.3020		
55	Variable Transportation Costs	Line 53 times Line 54	\$ 15,855	\$ 34,003	\$ 34,003	\$ 30,712	\$ 34,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 148,576	\$ -	
56																	
57	Granite State Gas Transmission (Contract 19-100-FT-NN)																
58	Receipt Point: Pleasant St.																
59	Delivery Point: Northern City Gates																
60	Received Volume	Line 53	52,500	112,592	112,592	101,696	112,592								491,972		
61	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!	
62	City Gate Delivered Volume	Line 60 times (1 - Line 61)	52,316	112,198	112,198	101,340	112,198								490,250		
63	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!	
64	Variable Transportation Costs	Line 62 times Line 63	\$ 78	\$ 168	\$ 168	\$ 152	\$ 168	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 735	\$ -	

REDACTED

Source of Supply: Tennessee Zone L

Denotes Confidential Information		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer		
Line	City Gate Delivered Costs																
1	Purchased Volumes	102,244	219,237	219,237	198,020	219,237	-	-	-	-	-	-	-	957,974	-		
2	City Gate Delivered Volume	97,159	208,332	208,332	188,171	208,332	-	-	-	-	-	-	-	910,327	-		
3	Total Purchase Cost																
4	Variable Transportation Costs	\$ 25,827	\$ 55,380	\$ 55,380	\$ 50,021	\$ 55,380	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 241,988	\$ -		
5	Total City Gate Delivered Costs																
6	Average Delivered Price																
7																	
8	Tennessee Zone L Supply Costs																
9	Block 1 Nov-Mar NYMEX Lock Volume	48,750	50,375	50,375	45,500	50,375											
10	Block 1 Nov-Mar NYMEX Lock Price	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610											
11	Block 1 Nov-Mar NYMEX Lock Cost	\$ 419,738	\$ 433,729	\$ 433,729	\$ 391,755	\$ 433,729											
12	Block 1 Dec-Feb NYMEX Lock Volume		100,750	100,750	91,000												
13	Block 1 Dec-Feb NYMEX Lock Price		\$ 8,800	\$ 8,800	\$ 8,800												
14	Block 1 Dec-Feb NYMEX Lock Cost		\$ 886,600	\$ 886,600	\$ 800,800												
15	Block 2 Nov-Mar NYMEX Lock Volume	15,230	15,737	15,737	14,214	15,737											
16	Block 2 Nov-Mar NYMEX Lock Price	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660											
17	Block 2 Nov-Mar NYMEX Lock Cost	\$ 86,199	\$ 89,072	\$ 89,072	\$ 80,452	\$ 89,072											
18	Block 2 Dec-Feb NYMEX Lock Volume		3,123	3,123	2,821												
19	Block 2 Dec-Feb NYMEX Lock Price		\$ 5,830	\$ 5,830	\$ 5,830												
20	Block 2 Dec-Feb NYMEX Lock Cost		\$ 18,209	\$ 18,209	\$ 16,446												
21	Block 3 Nov-Mar NYMEX Lock Volume																
22	Block 3 Nov-Mar NYMEX Lock Price																
23	Block 3 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -											
24	Block 3 Dec-Feb NYMEX Lock Volume																
25	Block 3 Dec-Feb NYMEX Lock Price																
26	Block 3 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -												
27	Block 4 Nov-Mar NYMEX Lock Volume																
28	Block 4 Nov-Mar NYMEX Lock Price																
29	Block 4 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -											
30	Block 4 Dec-Feb NYMEX Lock Volume																
31	Block 4 Dec-Feb NYMEX Lock Price																
32	Block 4 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -												
33	Total NYMEX Lock Volume	63,980	169,985	169,985	153,535	66,112											
34	Weighted Average NYMEX Lock Price	\$ 7,908	\$ 8,398	\$ 8,398	\$ 8,398	\$ 7,908											
35	Total NYMEX Lock Cost	\$ 505,936	\$ 1,427,610	\$ 1,427,610	\$ 1,289,454	\$ 522,801	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
36	NYMEX Variable Volume	38,265	49,251	49,251	44,485	153,124											
37	Monthly NYMEX Price	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411				
38	Total NYMEX Variable Cost	\$ 302,329	\$ 395,733	\$ 399,673	\$ 347,783	\$ 1,026,699	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				
39	Purchased Volumes	102,244	219,237	219,237	198,020	219,237											957,974
40	Average NYMEX Price	\$ 7,905	\$ 8,317	\$ 8,335	\$ 8,268	\$ 7,068										\$ 7,981	
41	NYMEX Cost	\$ 808,265	\$ 1,823,343	\$ 1,827,283	\$ 1,637,237	\$ 1,549,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,645,628	\$ -		
42	NYMEX Basis Price																
43	NYMEX Basis Costs																
44	Total Purchase Price																
45	Total Purchase Cost																
46																	
47	Transportation Fuel Losses and Variable Charges																
48	Tennessee Gas Pipeline (Contract 5083)																
49	Receipt Point: Tennessee Zone L																
50	Delivery Point: Pleasant St. (Interconnection with Granite)																
51	Received Volume	Line 39	102,244	219,237	219,237	198,020	219,237	-	-	-	-	-	-	957,974	-		
52	Fuel Loss Rate	Att FXW-10, Line 39 of Page 2	4.64%	4.64%	4.64%	4.64%	4.64%									4.64%	
53	Delivered Volume	Line 51 times (1 - Line 52)	97,500	209,064	209,064	188,832	209,064									913,524	-
54	Variable Transportation Rate	Att FXW-10, Line 25 of Page 2	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634									\$ 0.2634	
55	Variable Transportation Costs	Line 53 times Line 54	\$ 25,682	\$ 55,067	\$ 55,067	\$ 49,738	\$ 55,067	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,622	\$ -		
56																	
57	Granite State Gas Transmission (Contract 19-100-FT-NN)																
58	Receipt Point: Pleasant St.																
59	Delivery Point: Northern City Gates																
60	Received Volume	Line 53	97,500	209,064	209,064	188,832	209,064	-	-	-	-	-	-	913,524	-		
61	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!		
62	City Gate Delivered Volume	Line 60 times (1 - Line 61)	97,159	208,332	208,332	188,171	208,332									910,327	-
63	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!		
64	Variable Transportation Costs	Line 62 times Line 63	\$ 146	\$ 312	\$ 312	\$ 282	\$ 312	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,365	\$ -		

REDACTED

Source of Supply: Atlantic Bridge Ramapo Pipeline Path

Denotes Confidential Information		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer	
1	Purchased Volumes	186,603	195,807	195,807	176,858	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273	
2	City Gate Delivered Volume	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796	1,088,544	
3	Total Purchase Cost															
4	Variable Transportation Costs	\$ 5,934	\$ 6,132	\$ 6,132	\$ 5,539	\$ 6,132	\$ 5,948	\$ 6,146	\$ 5,948	\$ 6,146	\$ 6,146	\$ 5,948	\$ 6,146	\$ 35,817	\$ 36,481	
5	Total City Gate Delivered Costs															
6	Average Delivered Price															
7																
8	Ramapo Supply Purchases															
9	Block 1 Nov-Mar NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10	Block 1 Nov-Mar NYMEX Lock Price	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	
11	Block 1 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	Block 1 Dec-Feb NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	Block 1 Dec-Feb NYMEX Lock Price	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	\$ 8,800	
14	Block 1 Dec-Feb NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15	Block 2 Nov-Mar NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
16	Block 2 Nov-Mar NYMEX Lock Price	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	
17	Block 2 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
18	Block 2 Dec-Feb NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
19	Block 2 Dec-Feb NYMEX Lock Price	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	\$ 5,830	
20	Block 2 Dec-Feb NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
21	Block 3 Nov-Mar NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
22	Block 3 Nov-Mar NYMEX Lock Price	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	
23	Block 3 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
24	Block 3 Dec-Feb NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	Block 3 Dec-Feb NYMEX Lock Price	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	
26	Block 3 Dec-Feb NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27	Block 4 Nov-Mar NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
28	Block 4 Nov-Mar NYMEX Lock Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
29	Block 4 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
30	Block 4 Dec-Feb NYMEX Lock Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
31	Block 4 Dec-Feb NYMEX Lock Price	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	\$ 77,004	
32	Block 4 Dec-Feb NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
33	Total NYMEX Lock Volume	-	77,004	77,004	69,552	-	-	-	-	-	-	-	-	-	-	
34	Weighted Average NYMEX Lock Price	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	\$ 7,460	
35	Total NYMEX Lock Cost	\$ -	\$ 574,450	\$ 574,450	\$ 518,858	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
36	NYMEX Variable Volume	186,603	118,803	118,803	107,306	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273	
37	Monthly NYMEX Price	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 5,345	\$ 5,411	
38	Total NYMEX Variable Cost	\$ 1,474,352	\$ 954,580	\$ 964,084	\$ 838,916	\$ 1,312,884	\$ 1,001,121	\$ 1,008,784	\$ 987,279	\$ 1,032,172	\$ 1,035,458	\$ 999,811	\$ 1,045,896	\$ 821,369	\$ 821,369	
39	Purchased Volumes	186,603	195,807	195,807	176,858	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273	
40	Monthly NYMEX Price	\$ 7,901	\$ 7,809	\$ 7,857	\$ 7,677	\$ 6,705	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 5,345	\$ 5,411	
41	NYMEX Cost	\$ 1,474,352	\$ 1,529,030	\$ 1,538,534	\$ 1,357,774	\$ 1,312,884	\$ 1,001,121	\$ 1,008,784	\$ 987,279	\$ 1,032,172	\$ 1,035,458	\$ 999,811	\$ 1,045,896	\$ 821,369	\$ 821,369	
42	NYMEX Basis Price															
43	NYMEX Basis Costs															
44	Total Purchase Price															
45	Total Purchase Cost															
46																
47	Transportation Fuel Losses and Variable Charges															
48	Algonquin Pipeline (Contract 510939)															
49	Receipt Point: Ramapo, NJ															
50	Delivery Point: Beverly															
51	Received Volume	186,603	195,807	195,807	176,858	195,807	187,055	193,291	187,055	193,291	193,291	187,055	193,291	1,137,937	1,147,273	
52	Fuel Loss Rate	4.18%	5.64%	5.64%	5.64%	5.64%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%	5.16%	4.18%	
53	Delivered Volume	178,803	184,763	184,763	166,883	184,763	179,237	185,211	179,237	185,211	185,211	179,237	185,211	1,079,212	1,099,317	
54	Variable Transportation Rate	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	
55	Variable Transportation Costs	\$ 5,668	\$ 5,857	\$ 5,857	\$ 5,290	\$ 5,857	\$ 5,682	\$ 5,871	\$ 5,682	\$ 5,871	\$ 5,871	\$ 5,682	\$ 5,871	\$ 34,211	\$ 34,848	
56																
57	Maritimes Pipeline (Contract 210363)															
58	Receipt Point: Beverly															
59	Delivery Point: Lewiston City-Gate															
60	Received Volume	178,803	184,763	184,763	166,883	184,763	179,237	185,211	179,237	185,211	185,211	179,237	185,211	1,079,212	1,099,317	
61	Fuel Loss Rate	0.74%	0.74%	0.74%	0.74%	0.74%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	0.78%	0.98%	
62	City Gate Delivered Volume	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796	1,088,544	
63	Variable Transportation Rate	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	
64	Variable Transportation Costs	\$ 266	\$ 275	\$ 275	\$ 248	\$ 275	\$ 266	\$ 275	\$ 266	\$ 275	\$ 275	\$ 266	\$ 275	\$ 1,506	\$ 1,633	

REDACTED

Source of Supply: Dawn Hub Supply (Union Dawn Storage, PXP and WXP Dawn Hub Paths)

Denotes Confidential Information		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023	2023 Summer
Line 1	Purchased Volumes	13,550	394,135	419,449	383,698	235,527	749,275	275,251	99,284	49,656	51,014	87,673	358,802	Winter	921,681
Line 2	City Gate Delivered Volume	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,626	49,853	85,678	350,639	2,134,481	900,712
Line 3	Total Purchase Cost														
Line 4	Variable Transportation Costs	\$ 85	\$ 2,626	\$ 2,946	\$ 2,800	\$ 1,549	\$ 4,810	\$ 1,684	\$ 607	\$ 304	\$ 312	\$ 536	\$ 2,195	\$ 14,816	\$ 5,638
Line 5	Total City Gate Delivered Costs														
Line 6	Average Delivered Price														
Line 7	Dawn Hub Supply Costs														
Line 8	Block 1 Nov-Mar NYMEX Lock Volume														
Line 9	Block 1 Nov-Mar NYMEX Lock Price	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610	\$ 8,610									
Line 10	Block 1 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
Line 11	Block 1 Dec-Feb NYMEX Lock Volume														
Line 12	Block 1 Dec-Feb NYMEX Lock Price		\$ 8,800	\$ 8,800	\$ 8,800										
Line 13	Block 1 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
Line 14	Block 2 Nov-Mar NYMEX Lock Volume														
Line 15	Block 2 Nov-Mar NYMEX Lock Price	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660	\$ 5,660									
Line 16	Block 2 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
Line 17	Block 2 Dec-Feb NYMEX Lock Volume														
Line 18	Block 2 Dec-Feb NYMEX Lock Price		\$ 5,830	\$ 5,830	\$ 5,830										
Line 19	Block 2 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
Line 20	Block 3 Nov-Mar NYMEX Lock Volume														
Line 21	Block 3 Nov-Mar NYMEX Lock Price	\$ 7,480	\$ 7,480	\$ 7,480	\$ 7,480	\$ 7,480									
Line 22	Block 3 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
Line 23	Block 3 Dec-Feb NYMEX Lock Volume		155,000	155,000	140,000										
Line 24	Block 3 Dec-Feb NYMEX Lock Price		\$ 7,765	\$ 7,765	\$ 7,765										
Line 25	Block 3 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
Line 26	Block 3 Dec-Feb NYMEX Lock Volume		\$ 1,203,575	\$ 1,203,575	\$ 1,087,100										
Line 27	Block 4 Nov-Mar NYMEX Lock Volume														
Line 28	Block 4 Nov-Mar NYMEX Lock Price														
Line 29	Block 4 Nov-Mar NYMEX Lock Cost	\$ -	\$ -	\$ -	\$ -	\$ -									
Line 30	Block 4 Dec-Feb NYMEX Lock Volume														
Line 31	Block 4 Dec-Feb NYMEX Lock Price														
Line 32	Block 4 Dec-Feb NYMEX Lock Cost		\$ -	\$ -	\$ -										
Line 33	Total NYMEX Lock Volume		155,000	155,000	140,000										
Line 34	Weighted Average NYMEX Lock Price		\$ 7,765	\$ 7,765	\$ 7,765										
Line 35	Total NYMEX Lock Cost	\$ -	\$ 1,203,575	\$ 1,203,575	\$ 1,087,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Line 36	NYMEX Variable Volume	13,550	239,135	264,449	243,698	235,527	749,275	275,251	99,284	49,656	51,014	87,673	358,802		
Line 37	Monthly NYMEX Price	\$ 7,901	\$ 8,035	\$ 8,115	\$ 7,818	\$ 7,818	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411		
Line 38	Total NYMEX Variable Cost	\$ 107,060	\$ 1,921,452	\$ 2,146,005	\$ 1,905,232	\$ 1,579,206	\$ 4,010,122	\$ 1,436,537	\$ 524,021	\$ 265,163	\$ 273,282	\$ 468,612	\$ 1,941,479		
Line 39	Purchased Volumes	13,550	394,135	419,449	383,698	235,527	749,275	275,251	99,284	49,656	51,014	87,673	358,802	2,195,635	921,681
Line 40	Monthly NYMEX Price	\$ 7,901	\$ 7,929	\$ 7,986	\$ 7,799	\$ 7,805	\$ 5,352	\$ 5,219	\$ 5,278	\$ 5,340	\$ 5,357	\$ 5,345	\$ 5,411	\$ 6,908	\$ 5,328
Line 41	NYMEX Cost	\$ 107,060	\$ 3,125,027	\$ 3,349,580	\$ 2,929,332	\$ 1,579,206	\$ 4,010,122	\$ 1,436,537	\$ 524,021	\$ 265,163	\$ 273,282	\$ 468,612	\$ 1,941,479	\$ 15,163,327	\$ 4,909,094
Line 42	NYMEX Basis Price														
Line 43	NYMEX Basis Costs														
Line 44	Total Purchase Price														
Line 45	Total Purchase Cost														
Line 46															
Line 47	Total Purchased Volumes	13,550	394,135	419,449	383,698	235,527	749,275	275,251	99,284	49,656	51,014	87,673	358,802	2,195,635	921,681
Line 48	Storage Net Withdrawn Volumes	636,656	590,749	702,125	730,341	578,465								3,238,336	
Line 49	Total Volumes	650,206	984,884	1,121,574	1,114,039	813,992	749,275	275,251	99,284	49,656	51,014	87,673	358,802	5,433,970	921,681
Line 50	Purchased Percentage		2%	40%	37%	34%	29%	100%	100%	100%	100%	100%	100%	40%	100%
Line 51															
Line 52	Transportation Fuel Losses and Variable Charges														
Line 53	Enbridge (Contract M12256)														
Line 54	Receipt Point: Union Dawn														
Line 55	Delivered Volume	13,260	358,279	344,352	312,984	218,611	723,837	275,251	99,284	49,656	51,014	87,673	358,802	1,971,323	921,681
Line 56	Fuel Loss Rate	1.10%	1.10%	1.10%	1.10%	1.10%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%
Line 57	Delivered Volume	13,114	354,338	340,565	309,541	216,207	719,349	273,545	98,669	49,348	50,698	87,129	356,578	1,953,112	915,966
Line 58	Variable Transportation Rate	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032
Line 59	Variable Transportation Costs	\$ 42	\$ 1,134	\$ 1,090	\$ 991	\$ 692	\$ 2,302	\$ 875	\$ 316	\$ 158	\$ 162	\$ 279	\$ 1,141	\$ 6,250	\$ 2,931
Line 60															
Line 61	Enbridge (Contract M12296)														
Line 62	Receipt Point: Union Dawn														
Line 63	Delivered Volume	290	26,024	44,895	52,976	13,265	25,439							162,910	
Line 64	Fuel Loss Rate	1.10%	1.10%	1.10%	1.10%	1.10%	0.62%							1.03%	
Line 65	Delivered Volume	287	25,738	44,402	52,393	13,139	25,281							161,240	
Line 66	Variable Transportation Rate	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032							\$ 0.0032	
Line 67	Variable Transportation Costs	\$ 1	\$ 82	\$ 142	\$ 168	\$ 42	\$ 81							\$ 516	
Line 68															
Line 69	Enbridge (Contract M12279)														
Line 70	Receipt Point: Union Dawn														
Line 71	Delivered Volume	287	25,738	44,402	52,393	13,139	25,281							161,240	
Line 72	Fuel Loss Rate	1.54%	1.54%	1.54%	1.54%	1.54%	1.32%							1.51%	
Line 73	Delivered Volume	283	25,342	43,718	51,586	12,937	24,947							158,813	
Line 74	Variable Transportation Rate	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032							\$ 0.0032	
Line 75	Variable Transportation Costs	\$ -	\$ 31	\$ 96	\$ 56	\$ 11	\$ -							\$ 194	
Line 76															
Line 77	TransCanada Pipeline (Contracts 57055 & 57091)														
Line 78	Receipt Point: Parkway														
Line 79	Delivered Volume	13,114	354,338	340,565	309,541	216,207	719,349	273,545	98,669	49,348	50,698	87,129	356,578	1,953,112	915,966
Line 80	Fuel Loss Rate	1.54%	1.54%	1.54%	1.54%	1.54%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.46%	1.32%
Line 81	Delivered Volume	12,912	348,881	335,320	304,774	212,877	709,853	269,934	97,366	48,697	50,028	85,979	351,871	1,924,617	903,875
Line 82															
Line 83	TransCanada Pipeline (Contract 63265)														
Line 84	Receipt Point: Parkway														
Line 85	Delivered Volume	287	25,738	44,402	52,393	13,139	25,281							161,240	
Line 86	Fuel Loss Rate	1.54%	1.54%	1.54%	1.54%	1.54%	1.32%							1.51%	
Line 87	Delivered Volume	283	25,342	43,718	51,586	12,937	24,947							158,813	
Line 88	Variable Transportation Rate	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
Line 89	Variable Transportation Costs	\$ 19	\$ 523	\$ 503	\$ 457	\$ 319	\$ 1,065	\$ 405	\$ 146	\$ 73	\$ 75	\$ 129	\$ 528	\$ 2,887	\$ 1,356
Line 90															

Source of Supply: Tennessee Storage

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
2	Gross Withdrawn Volume	Line 10	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
3	City Gate Delivered Volume	Line 38	64,603	66,757	66,308	9,679	-	-	-	-	-	-	-	-	207,347	-
4	Total Withdrawal Costs	Line 18	\$ 429,197	\$ 443,503	\$ 440,522	\$ 64,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,377,527	\$ -
5	Variable Transportation Costs	Sum Lines 31 and 40	\$ 6,703	\$ 6,927	\$ 6,880	\$ 1,004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,514	\$ -
6	Total City Gate Delivered Costs	Line 3 plus Line 4	\$ 435,900	\$ 450,430	\$ 447,402	\$ 65,308	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,399,040	\$ -
7	Average Delivered Price	Line 5 divided by Line 2	\$ 6.747	\$ 6.747	\$ 6.747	\$ 6.747									\$ 6.747	
8																
9	<u>Tennessee Storage Withdrawals</u>															
10	Gross Withdrawn Volume	Sendout Optimization	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
11	Withdrawal Rate	FXW-10, Line 1 of Page 3	\$ 0.0087	\$ 0.0087	\$ 0.0087	\$ 0.0087									\$ 0.0087	
12	Withdrawal Charges	Line 9 times Line 10	\$ 573	\$ 592	\$ 588	\$ 86	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,838	\$ -
13	Inventory Rate	FXW-12	\$ 6,5130	\$ 6,5130	\$ 6,5130	\$ 6,5130									\$ 6,5130	
14	Withdraw Inventory Value	Line 9 times Line 12	\$ 428,524	\$ 442,912	\$ 439,935	\$ 64,218	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,375,669	\$ -
15	Withdrawal Fuel Rate	FXW-10, Line 2 of Page 3	0.00%	0.00%	0.00%	0.00%									0.00%	
16	Withdrawal Fuel Losses	FXW-10, Line 1 of Page 3 times Line 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Net Withdrawal Volume	Line 9 minus Line 14	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
18	Total Withdrawal Costs	Line 11 plus Line 13	\$ 429,197	\$ 443,503	\$ 440,522	\$ 64,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,377,527	\$ -
19																
20	<u>Transportation Fuel Losses and Variable Charges</u>															
21	Tennessee Gas Pipeline (Contract 5265)															
22	Receipt Point: Tennessee FS-NIA Withdrawal Meter															
23	Delivery Point: Pleasant St. (Interconnection with Granite)															
24	Total Contract Received Volume	Sendout Optimization	65,811	68,004	68,004	61,423	68,004	65,811	68,004	65,811	68,004	68,004	65,811	68,004	397,057	403,638
25	Received Volume	Line 17	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
26	Percentage Allocated	Line 25 divided by Line 24	100.00%	100.00%	99.33%	16.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	53.20%	0.00%
27	Received Volume	Line 25	65,811	68,004	67,547	9,860	-	-	-	-	-	-	-	-	211,222	-
28	Fuel Loss Rate	Att FXW-10, Line 40 of Page 2	1.49%	1.49%	1.49%	1.49%									1.49%	
29	Delivered Volume	Line 27 times (1 - Line 28)	64,830	66,991	66,541	9,713	-	-	-	-	-	-	-	-	208,075	-
30	Variable Transportation Rate	Att FXW-10, Line 26 of Page 2	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019									\$ 0.1019	
31	Variable Transportation Costs	Line 29 times Line 30	\$ 6,606	\$ 6,826	\$ 6,781	\$ 990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,203	\$ -
32																
33	Granite State Gas Transmission (Contract 19-100-FT-NN)															
34	Receipt Point: Pleasant St.															
35	Delivery Point: Northern City Gates															
36	Received Volume	Line 29	64,830	66,991	66,541	9,713	-	-	-	-	-	-	-	-	208,075	-
37	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
38	City Gate Delivered Volume	Line 36 times (1 - Line 37)	64,603	66,757	66,308	9,679	-	-	-	-	-	-	-	-	207,347	-
39	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
40	Variable Transportation Costs	Line 38 times Line 39	\$ 97	\$ 100	\$ 99	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 311	\$ -

REDACTED

Source of Supply: Northern LNG Inventory
On-System Storage

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Gross Withdrawn Volume	Line 9	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040
2	Net Withdrawn Volume	Line 15	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040
3	Total Withdrawal Costs	Line 16														
4	Variable Transportation Costs	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Total City Gate Delivered Costs	Line 3 plus Line 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Northern LNG Withdrawn Inventory															
9	Gross Withdrawn Volume	Sendout Optimization	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040
10	Withdrawal Rate	N/A	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	Withdrawal Charges	Line 9 times Line 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Inventory Rate	FXW-12														
13	Withdrawn Inventory Value	Line 9 times Line 12														
14	Withdrawal Fuel Losses	N/A														
15	Net Withdrawn Volume	Line 9 minus Line 14	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260	11,040
16	Total Withdrawal Costs	Line 11 plus Line 13														

REDACTED

Source of Supply: Peaking Contract 1

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 9	-	2,133	160,309	5,766	-	-	-	-	-	-	-	-	168,207	-
2	City Gate Delivered Volume	Sum Lines 21 and 24	-	2,133	160,283	5,766	-	-	-	-	-	-	-	-	168,181	-
3	Total Purchase Cost	Line 15														
4	Variable Transportation Costs	Line 26	\$ -	\$ -	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ -
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	Peaking Contract 1 Costs															
9	Purchased Volumes	Sendout Optimization	-	2,133	160,309	5,766	-	-	-	-	-	-	-	-	168,207	-
10	Monthly NYMEX Price	Att FXW-10, Line 19 of Page 1	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411	\$ 8.104	-
11	NYMEX Cost	Line 9 times Line 10	\$ -	\$ 17,138	\$ 1,300,904	\$ 45,076	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,363,118	\$ -
12	NYMEX Basis Price	Att FXW-10, Line 16 of Page 1														
13	NYMEX Basis Costs	Line 9 times Line 12														
14	Total Purchase Price	Line 10 plus Line 12														
15	Total Purchase Cost	Line 11 plus Line 13														
16																
17	Transportation Fuel Losses and Variable Charges															
18	Granite State Gas Transmission (Contract 19-100-FT-NN)															
19	Receipt Point: Westbrook															
20	Delivery Point: Northern City Gates															
21	City Gate Delivered Volume	Lewiston City-Gate - Non-GSGT	-	2,133	152,957	5,766	-	-	-	-	-	-	-	-	-	-
22	Received Volume	Line 9	-	-	7,351	-	-	-	-	-	-	-	-	-	7,351	-
23	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
24	City Gate Delivered Volume	Line 22 times (1 - Line 23)	-	-	7,326	-	-	-	-	-	-	-	-	-	7,326	-
25	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
26	Variable Transportation Costs	Line 24 times Line 25	\$ -	\$ -	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ -

REDACTED

Source of Supply: Peaking Contract 2

Denotes Confidential Information

Line	City Gate Delivered Costs	Reference	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	2022-2023 Winter	2023 Summer
1	Purchased Volumes	Line 9	-	10,735	30,735	18,530	-	-	-	-	-	-	-	-	60,000	-
2	City Gate Delivered Volume	Sum Lines 16 and 19	-	10,735	30,730	18,530	-	-	-	-	-	-	-	-	59,985	-
3	Total Purchase Cost	Line 11														
4	Variable Transportation Costs	Line 21														
5	Total City Gate Delivered Costs	Sum Lines 3 and 4														
6	Average Delivered Price	Line 5 divided by Line 2														
7																
8	<u>Maritimes Supply Costs</u>															
9	Purchased Volumes	Sendout Optimization	-	10,735	30,735	18,530	-	-	-	-	-	-	-	-	60,000	-
10	Total Purchase Price	Line 10 plus Line 12														
11	Total Purchase Cost	Line 11 plus Line 13														
12																
13	Granite State Gas Transmission (Contract 19-100-FT-NN)															
14	Receipt Point: Westbrook, Newington, Eliot															
15	Delivery Point: Northern City Gates															
16	City Gate Delivered Volume	Lewiston City-Gate - Non-GSGT	-	10,735	29,326	18,530	-	-	-	-	-	-	-	-	-	-
17	Received Volume	Line 8	-	-	1,409	-	-	-	-	-	-	-	-	-	1,409	-
18	Fuel Loss Rate	Att FXW-10, Line 32 of Page 2	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	#DIV/0!
19	City Gate Delivered Volume	Line 17 times (1 - Line 18)	-	-	1,404	-	-	-	-	-	-	-	-	-	1,404	-
20	Variable Transportation Rate	Att FXW-10, Line 18 of Page 2	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	#DIV/0!
21	Variable Transportation Costs	Line 19 times Line 20	\$ -	\$ -	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2	\$ -

REDACTED

Northern Utilities, Inc.
Natural Gas Commodity Price Forecast

Denotes Confidential Information

Estimated Adders to NYMEX Last Day Settlement - Based on July 26, 2022 ICE Settlement Prices

Line	Supply Source	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
1	Tennessee Zone 0												
2	Tennessee Zone L												
3	Tennessee Niagara												
4	Iroquois Receipts												
5	Transco Zone 6, non-NY												
6	Texas Eastern Zone M-3												
7	Leidy Hub												
8	Tennessee Zone 4 Station 313 Pool												
9	Tennessee Zone 4 Storage Injection												
10	Union Dawn Storage - Dawn Supply												
11	Union Dawn Storage Injection												
12	LNG Contract												
13	Atlantic Bridge - Ramapo												
14	PXP - Dawn Supply												
15	Incremental Supply												
16	Peaking Contract 1												
17	WXP - Dawn Supply												

Estimated NYMEX Last Day Settlement - Based on September 7, 2022 NYMEX Natural Gas Settlement

19	NYMEX	\$ 7.901	\$ 8.035	\$ 8.115	\$ 7.818	\$ 6.705	\$ 5.352	\$ 5.219	\$ 5.278	\$ 5.340	\$ 5.357	\$ 5.345	\$ 5.411
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Fixed Price Contracts

21	Peaking Contract 2												
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Northern Utilities, Inc.
Transportation Contract Rates
November 2022 through October 2023
Fixed Demand Rates (\$ per Dth/Month)

Line	Pipeline	Rate Schedule	Receipt	Delivery	Reference	Fixed Demand Rates (\$ per Dth/Month)											
						Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
1	Algonquin	AFT-1	N/A	N/A	AGT-1	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927	\$ 8.5927
2	Algonquin	AFT-1 (AB)	N/A	N/A	AGT-4	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170	\$ 54.9170
3	Granite	FT-NN	N/A	N/A	GSGT-1	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563	\$ 6.1563
4	Iroquois	RTS-1	Zone 1	Zone 1	IGTS-1	\$ 4.9427	\$ 4.9427	\$ 4.9427	\$ 4.9427	\$ 4.9427	\$ 5.2357	\$ 5.2357	\$ 5.2357	\$ 5.2357	\$ 5.2357	\$ 4.6690	\$ 4.6690
5	Maritimes	MN365	N/A	N/A	MNUS-1	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833	\$ 13.3833
6	PNGTS	FT (C2C)	N/A	N/A	PNGTS-1	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500	\$ 18.2500
7	PNGTS	FT (PXP)	N/A	N/A	PNGTS-3	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543	\$ 22.6543
8	PNGTS	FT (WXP)	N/A	N/A	PNGTS-9	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417	\$ 24.9417
9	Tennessee	FT-A	Zone 0	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995	\$ 19.6995
10	Tennessee	FT-A	Zone L	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901	\$ 17.4901
11	Tennessee	FT-A	Zone 4	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332	\$ 6.9332
12	Tennessee	FT-A	Zone 5	Zone 6	TGP-1 (PCB & PS/GHG), TGP-5 (2022 Rates)	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936	\$ 6.0936
13	Texas Eastern	FT-1/FTS	M3	M3	TETCO-1	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140	\$ 12.1140
14	TransCanada	FT	Parkway	E. Hereford	CAD-1	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815	\$ 16.9815
15	Union	M12	Dawn	Parkway	CAD-1	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832	\$ 2.9832

Line	Pipeline	Rate Schedule	Receipt	Delivery	Reference	Variable Transportation Commodity Rates (\$/Dth)											
						Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
16	Algonquin	AFT-1	N/A	N/A	AGT-1 (Max Commodity, Surcharge), FERC-1 (ACA)	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426	\$ 0.0426
17	Algonquin	AFT-1 (AB)	N/A	N/A	AGT-1 (Surcharge), FERC-1 (ACA), See Note 1.	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317	\$ 0.0317
18	Granite	FT-NN	N/A	N/A	GSGT-1 (Commodity), FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
19	Iroquois	RTS-1	Zone 1	Zone 1	IGTS-1 (Commodity), FERC-1 (ACA)	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049	\$ 0.0049
20	Maritimes	MN365	N/A	N/A	MNUS-1 (Commodity), FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
21	PNGTS	FT (C2C)	N/A	N/A	FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
22	PNGTS	FT (PXP)	N/A	N/A	PNGTS-7 (PXP Commodity), FERC-1 (ACA)	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106	\$ 0.0106
23	PNGTS	FT (WXP)	N/A	N/A	FERC-1 (ACA)	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015	\$ 0.0015
24	Tennessee	FT-A	Zone 0	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020	\$ 0.3020
25	Tennessee	FT-A	Zone L	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634	\$ 0.2634
26	Tennessee	FT-A	Zone 4	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019	\$ 0.1019
27	Tennessee	FT-A	Zone 5	Zone 6	TGP-2 (PS/GHG), TGP-3 (EPCR), TGP-5, FERC-1	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772	\$ 0.0772
28	Texas Eastern	FT-1/FTS	M3	M3	TETCO-1, FERC-1 (ACA)	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769	\$ 0.0769
29	Union	M12	Dawn	Parkway	CAD-1	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032	\$ 0.0032

Line	Pipeline	Rate Schedule	Receipt	Delivery	Reference	Transportation Fuel Rates (Percentage)											
						Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
30	Algonquin	AFT-1	N/A	N/A	AGT-2	1.19%	1.27%	1.27%	1.27%	1.27%	1.19%	1.19%	1.19%	1.19%	1.19%	1.19%	1.19%
31	Algonquin	AFT-1 (AB)	N/A	N/A	AGT-2	4.18%	5.64%	5.64%	5.64%	5.64%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%	4.18%
32	Granite	FT-NN	N/A	N/A	GSGT-1	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	0.35%	
33	Iroquois	RTS-1	Zone 1	Zone 1	IGTS-3	0.30%	0.30%	0.30%	0.30%	0.30%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	
34	Maritimes	MN365	N/A	N/A	MNUS-3	0.74%	0.74%	0.74%	0.74%	0.74%	0.98%	0.98%	0.98%	0.98%	0.98%	0.98%	
35	PNGTS	FT (C2C)	N/A	N/A	PNGTS-5 (Measurement Variance)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
36	PNGTS	FT (PXP)	N/A	N/A	PNGTS-5 (Measurement Variance), PNGTS-6 (PXP Fuel)	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	0.28%	
37	PNGTS	FT (WXP)	N/A	N/A	PNGTS-5 (Measurement Variance), PNGTS-11 (WXP Fuel)	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	1.34%	
38	Tennessee	FT-A	Zone 0	Zone 6	TGP-3	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	5.31%	
39	Tennessee	FT-A	Zone L	Zone 6	TGP-3	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	4.64%	
40	Tennessee	FT-A	Zone 4	Zone 6	TGP-3	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	1.49%	
41	Tennessee	FT-A	Zone 5	Zone 6	TGP-3	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	1.09%	
42	Texas Eastern	FT-1/FTS	M3	M3	TETLP-3,4&5	0.53%	1.36%	1.36%	1.36%	0.89%	0.53%	0.53%	0.53%	0.53%	0.53%	0.53%	
43	TransCanada	FT	Parkway	E. Hereford	CAD-6	1.54%	1.54%	1.54%	1.54%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	1.32%	
44	Union	M12	Dawn	Parkway	CAD-7	1.10%	1.10%	1.10%	1.10%	1.10%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	

Northern Utilities, Inc. Underground Storage Contract Rates November 2022 through October 2023										
Line	Storage	Rate Schedule	Notes	Reference	Space Rate	Demand Rate	Withdrawal Rate	Withdrawal Fuel Loss	Injection Rate	Injection Fuel Loss
1	Tennessee	FS-MA		TGP-5 (2022 TGP Settlement Rates), TGP-4 (Inj Fuel)	\$ 0.0173	\$ 1.2655	\$ 0.0087	0.00%	\$ 0.0087	1.62%
2	Union	Storage	1	CAD-8	\$ 0.0592	\$ -	\$ 0.0057	0.60%	\$ 0.0057	0.60%

Note 1 The demand charge for Union Storage shall be \$236,666.67 per month divided by Maximum Storage Balance of 4,000,000 Dth.
The Withdrawal Rate and Injection Rate are equal to contractual variable rate converted from \$CAD/GJ to \$USD/Dth. Calculations are on CAD-1.

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AGT Rate Summary

ALGONQUIN GAS TRANSMISSION, LLC

SUMMARY OF RATES

Effective Rates 12/01/2021

RATE SCHEDULE AFT-1

	Reservation	Commodity		Authorized Overrun		Capacity Release Vol Res	System Balancing Surcharge (Credit) Rate	
		Max	Min	Max	Min		Non Beverly	Beverly
(F-1/WS-1)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(F-2/F-3)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(F-4)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(STB/SS-3)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(FTP)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(PSS-T)	\$ 8.5626	\$0.0000	\$0.0000	\$0.2815	\$0.0000	\$0.2815	\$0.0369	\$0.0258
(AFT-2)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(AFT-3)	\$ 8.7363	\$0.0000	\$0.0000	\$0.2872	\$0.0000	\$0.2872	\$0.0369	\$0.0258
(AFT-5)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(ITP)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(X-35)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(X-39)	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
Tiverton	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
Incremental								
Hubline	\$ 9.4048	\$0.0042	\$0.0042	\$0.3134	\$0.0042	\$0.3092	\$0.0369	\$0.0258*
Secondary Surcharge 1/		\$0.0267	\$0.0000				\$0.0369	\$0.0258
Ramapo	\$ 8.7496	\$0.0126	\$0.0126	\$0.3003	\$0.0126	\$0.2877	\$0.0219	\$0.0153
AIM	\$33.3680	\$0.0155	\$0.0155	\$1.1125	\$0.0155	\$1.0970	\$0.0238	\$0.0167
Atlantic Br.	\$55.6932	\$0.0115	\$0.0115	\$1.8425	\$0.0115	\$1.8310	\$0.0302	\$0.0211

*For Deliveries off of Hubline Facilities

RATE SCHEDULE AFT-1S

	Reservation	Commodity		Authorized Overrun		Capacity Release Vol Res	System Balancing Surcharge (Credit) Rate	
		Max	Min	Max	Min		Non Beverly	Beverly
(F-1/WS-1)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130	\$0.0369	\$0.0258
(F-2/F-3)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130	\$0.0369	\$0.0258
(F-4)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130	\$0.0369	\$0.0258
(STB/SS-3)	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130	\$0.0369	\$0.0258
(Hubline) 2/		\$0.0267	\$0.0000				\$0.0369	\$0.0258*

*For Deliveries off of Hubline Facilities

OTHER FIRM RATE SCHEDULES

	Reservation	Commodity		Authorized Overrun		Capacity Release Vol Res	System Balancing Surcharge (Credit) Rate	
		Max	Min	Max	Min		Non Beverly	Beverly
AFT-E	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
(Hubline) 2/		\$0.0267	\$0.0000				\$0.0369	\$0.0258*
AFT-ES	\$ 3.4371	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.1130	\$0.0369	\$0.0258
(Hubline) 2/		\$0.0267	\$0.0000				\$0.0369	\$0.0258*
T-1	\$ 1.6687	\$0.0042		\$0.0591			\$0.0369	\$0.0258
AFT-4	\$ 8.5927	\$0.0042	\$0.0042	\$0.2867	\$0.0042	\$0.2825	\$0.0369	\$0.0258
AFT-CL:								
Canal	\$ 0.5111	\$0.0000	\$0.0000	\$0.0168	\$0.0000	\$0.0168		
Middletown	\$ 0.7872	\$0.0000	\$0.0000	\$0.0259	\$0.0000	\$0.0259		
Cleary	\$ 0.3758	\$0.0000	\$0.0000	\$0.0124	\$0.0000	\$0.0124		
Lake Road	\$ 0.2224	\$0.0000	\$0.0000	\$0.0073	\$0.0000	\$0.0073		
Manchester	\$ 1.6789	\$0.0000	\$0.0000	\$0.0552	\$0.0000	\$0.0552		
Bellingham	\$ 0.3715	\$0.0000	\$0.0000	\$0.0122	\$0.0000	\$0.0122		
Phelps Dodge	\$ 0.0000	\$0.0166	\$0.0000	\$0.0166	\$0.0000	\$0.0000		
Cape Cod	\$ 3.3204	\$0.0000	\$0.0000	\$0.1092	\$0.0000	\$0.1092		
Northeast Gateway	\$ 2.4859	\$0.0000	\$0.0000	\$0.0817	\$0.0000	\$0.0817		
J-2 Facility	\$ 2.3731	\$0.0000	\$0.0000	\$0.0780	\$0.0000	\$0.0780		
Kleen Energy	\$ 0.8035	\$0.0000	\$0.0000	\$0.0264	\$0.0000	\$0.0264		
Salem	\$ 7.3635	\$0.0000	\$0.0000	\$0.2421	\$0.0000	\$0.2421		
West Roxbury	\$15.5204	\$0.0000	\$0.0000	\$0.5103	\$0.0000	\$0.5103		
X-33	\$ 2.7241	\$0.0000		\$0.0896			\$0.0369	\$0.0258

*For Deliveries off of Hubline Facilities

INTERRUPTIBLE SERVICE

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AGT Rate Summary

	Commodity		Authorized Overrun		System Balancing Surcharge (Credit) Rate	
	Max	Min	Max	Min	Non Beverly	Beverly
AIT-1	\$0.2867	\$0.0042	\$0.2867	\$0.0042	\$0.0369	\$0.0258
(Hubline 2/)	\$0.0267	\$0.0000			\$0.0369	\$0.0258*
AIT-2						
Manchester	\$0.0552	\$0.0000	\$0.0552	\$0.0000		
Canal	\$0.0168	\$0.0000	\$0.0168	\$0.0000		
Cape Cod	\$0.1092	\$0.0000	\$0.1092	\$0.0000		
Northeast Gateway	\$0.0817	\$0.0000	\$0.0817	\$0.0000		
J-2 Facility	\$0.0780	\$0.0000	\$0.0780	\$0.0000		
Kleen Energy	\$0.0264	\$0.0000	\$0.0264	\$0.0000		
Salem	\$0.2421	\$0.0000	\$0.2421	\$0.0000		
West Roxbury	\$0.5103	\$0.0000	\$0.5103	\$0.0000		
PAL	\$0.2867	\$0.0000	\$0.0000	\$0.0000	\$0.0369	\$0.0258

TITLE TRANSFER TRACKING SERVICE

	Max	Min
TTT	\$5.3900	\$0.0000

Rates are per MMBTU. Rate excludes the Annual Charge Adjustment (ACA) Surcharge. The ACA Commodity Surcharge to applicable customers, pursuant to Section 34 of the General Terms and Conditions.

FUEL REIMBURSEMENT PERCENTAGES

Period	Duration	FRP
<u>System Services 1/</u>		
Winter	Dec 1 - Mar 31	1.27%
Spring, Summer and Fall	Apr 1 - Nov 30	1.19%
<u>Incremental Ramapo Service 1/</u>		
Winter	Dec 1 - Mar 31	1.31%
Spring, Summer and Fall	Apr 1 - Nov 30	0.77%
<u>Incremental AIM Service 1/</u>		
Winter	Dec 1 - Mar 31	3.38%
Spring, Summer and Fall	Apr 1 - Nov 30	2.37%
<u>Incremental Atlantic Bridge Service 1/</u>		
Winter	Dec 1 - Mar 31	5.64%
Spring, Summer and Fall	Apr 1 - Nov 30	4.18%

1/ For all receipt points other than Beverly, Meter No. 00215

System Services - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	0.83%
Spring, Summer and Fall	Apr 1 - Nov 30	0.96%

Incremental Ramapo Service - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	0.85%
Spring, Summer and Fall	Apr 1 - Nov 30	0.00%

Incremental AIM Service - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	2.38%
Spring, Summer and Fall	Apr 1 - Nov 30	0.00%

Incremental Atlantic Bridge Service - Beverly Receipts/Non-Hubline Deliveries

Winter	Dec 1 - Mar 31	0.00%
Spring, Summer and Fall	Apr 1 - Nov 30	2.72%

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AGT Rate Summary

2/ Hubline Surcharge applicable to all customers utilizing secondary receipt points between and including Beverly and Weymouth and/or utilizing secondary delivery points between Beverly and Weymouth,including Beverly and excluding Weymouth,and in addition to other applicable charges.

The Summary of Rates serves as a handy reference and does not replace Algonquin's Tariff. The rates are subject to commission approval.

STATEMENT OF NEGOTIATED RATES 1/2/3/4/5/9/

Customer Name: Northern Utilities, Inc. d/b/a Unitil

Service Agreement: 510939

Term of Negotiated Rate: The term of this negotiated rate commences on the Service Commencement Date (as defined in the Precedent Agreement between Pipeline and Customer) of Contract No. 510939 and continues for the Primary Term (as such term is defined in the Precedent Agreement and Contract No. 510939. In the event Customer exercises its one-time option to extend the Primary Term of Contract No. 510939 for up to 100% of the MDTQ, then (a) Pipeline and Customer will amend the Negotiated Rate to reflect the extension of the term of the Negotiated Rate for an additional (i) five (5) years at a new negotiated reservation rate equal to \$45.124 per Dth per month or (ii) ten (10) years at a new negotiated reservation rate equal to \$43.375 per Dth per month for the elected volume, or (b) if Customer elects to extend the Primary Term of Contract No. 510939 at the then-effective maximum recourse reservation rate, then the term of the Negotiated Rate will expire at the end of the Primary Term. 10/11/

Rate Schedule: AFT-1 [Atlantic Bridge Project]

MDTQ: 7,599 Dth/d

Reservation Rate: Customer shall pay a negotiated reservation rate of \$54.917 per Dth, per month of Customer's MDTQ under Contract No. 510939 during the Primary Term thereof. 3/6/8/

Commodity Charge and Other Charges: 7/

Primary Receipt Point: 4/

Mahwah (Meter No. 00201) – 7,599 Dth/d
Ramapo (Meter No. 00214) – 7,599 Dth/d

Primary Delivery Point: 4/

Beverly (Meter No. 01215) – 7,599 Dth/d

Recourse Rate(s): The Recourse Rate(s) applicable to this service is the applicable maximum rate(s) stated on Pipeline's Statement of Rates for Rate Schedule AFT-1 [Atlantic Bridge Project] at the applicable time.

FOOTNOTES:

1/ This negotiated rate transaction does not deviate in any material respect from the form of service agreement set forth in Pipeline's FERC Gas Tariff.

replaced with the adjusted Reservation Rate and adjusted term extension rates, which are the applicable rates updated to reflect the cost sharing rate adjustment set forth in footnote 3.

7/ Customer shall pay: (i) a commodity charge which shall be zero for the quantity of gas, in Dekatherms, delivered during the applicable Day under Pipeline's Rate Schedule AFT-1 for the Project; (ii) the applicable Fuel Reimbursement Quantity ("FRQ") under Pipeline's Rate Schedule AFT-1 for the Project; (iii) the applicable Annual Charge Adjustment and all other charges and surcharges applicable to Rate Schedule AFT-1 for the Project; and (iv) any future surcharge or additional usage charge pursuant to any FERC-approved cost recovery mechanism of general applicability implemented in a generic proceeding or in a Pipeline specific proceeding, which mechanism recovers cost components not reflected in Pipeline's initial recourse rate(s) applicable to service under Pipeline's Rate Schedule AFT-1 for the Project.

8/ **Most Favored Nations (MFN)**

(a) MFN Related to Service on the Project and Future Expansions—In the event Pipeline enters into a long-term firm transportation service agreement under Rate Schedule AFT-1, or any similar, firm non-lateral only transportation rate schedule for service on Pipeline's mainline, (i) prior to the in-service date of the Project for service on the Project or (ii) for a period within ten years following the in-service date of the Project for incremental expansion service under any future project, with any customer who is similarly situated to Customer, and such customer's reservation rate is less than Customer's Reservation Rate, Pipeline will promptly offer Customer the same reservation rate as such other customer, or an agreed rate as set forth in subpart (b)(iii), provided that, in the case of subpart (a)(ii) for incremental expansion service under any future project, all the requirements of subpart (b) are met. If Customer is willing to accept such reservation rate, Customer must do so under the same or substantially similar terms and conditions of service of the Algonquin Tariff or other Commission-approved provisions and the same or substantially similar rate related provisions applicable to such other customer, and as further described in subparts (c) and (d) below. For purposes of this footnote 8, Customer will be considered "similarly situated" to another Project customer or Qualifying Incremental Project Customer (as such latter term is defined in subpart (b)(ii) below) if Customer meets the criteria in subparts (a) and/or (b), as applicable, and in either case, if Customer is receiving firm transportation service under a service agreement (and rate agreement, if applicable) under the same or substantially similar terms and conditions of service of the Algonquin Tariff or other Commission-approved provisions and the same or substantially similar rate/rate related provisions as such Project customer or Qualifying Incremental Project Customer ("Similarly Situated Customer").

(b) Interrelationship to Future Expansions

(i) Determination of Indicative Rate - Except as otherwise provided herein, in the event Pipeline enters into a long-term firm transportation service agreement (i.e., one year or longer) under Rate Schedule AFT-1, or any similar firm non-lateral only transportation rate schedule for service using Pipeline's mainline, for service on an incremental expansion project of comparable scope with any Similarly Situated Customer all of whose Primary Receipt Point(s) are located at or upstream of the Mahwah Interconnect and all of whose Primary Delivery Point(s) are located at or downstream of the HubLine Interconnection (i.e., the point on Algonquin's I-9 line between Fore River 803 and Potter 081 near the town of Weymouth that Algonquin identifies as interconnection of its

Canadian Tolls

Line	Item	Units	TCPL and Enbridge Tolls	Reference
1	Union Parkway Belt to East Hereford on TCPL			
2	Demand Toll	\$CAD / GJ	\$ 19.27504	CAD-3
3	Delivery Pressure Demand Toll	\$CAD / GJ	\$ 0.60833	CAD-2
4	Abandonment Surcharge	\$CAD / GJ	\$ 1.11629	CAD-3
5	Total Demand Toll	\$CAD / GJ	\$ 20.99966	Sum of Above
6	\$USD to \$CAD	Ratio	1.3047	CAD-5
7	Total Demand Toll	\$US / GJ	\$ 16.0954	Line 5 divided by Line 6
8	GJ per Dth	Ratio	1.055056	
9	Total Demand Toll	\$US / Dth	\$ 16.9815	Line 7 divided by Line 8
10				
11	Dawn to Parkway on Enbridge Gas, Inc. Pipeline			
12	Total Demand Toll	\$CAD / GJ	\$ 3.6890	CAD-4
13	\$USD to \$CAD	Ratio	1.3047	CAD-5
14	Total Demand Toll	\$US / GJ	\$ 2.8275	Line 12 divided by Line 13
15	GJ per Dth	Ratio	1.055056	
16	Total Demand Toll	\$US / Dth	\$ 2.9832	Line 14 divided by Line 15
17				
18	Dawn to Parkway on Enbridge Gas, Inc. Pipeline			
19	Facility Carbon Charge	\$CAD / GJ	\$ 0.0040	CAD-4
20	\$USD to \$CAD	Ratio	1.3047	CAD-5
21	Total Demand Toll	\$US / GJ	\$ 0.0031	Line 12 divided by Line 13
22	GJ per Dth	Ratio	1.055056	
23	Facility Carbon Charge	\$US / Dth	\$ 0.0033	Line 14 divided by Line 15
24				
25	Enbridge Gas, Inc. Storage Injection/Withdrawal Charges			
26	Variable Storage Charges	\$CAD / GJ	\$ 0.0070	CAD-8
27	\$USD to \$CAD	Ratio	1.3047	CAD-5
28	Variable Storage Charges	\$US / GJ	\$ 0.0054	Line 12 divided by Line 13
29	GJ per Dth	Ratio	1.055056	
30	Variable Storage Charges	\$US / Dth	\$ 0.0057	Line 14 divided by Line 15

North Bay Junction Long Term Fixed Price (NBJ LTFP) Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
1	NBJ LTFP	28.28750	0.9300
2	NBJ LTFP Differential Surcharge	0.00000	0.0000

Note: The toll for NBJ LTFP is inclusive of the applicable Abandonment Surcharge for FT service from Empress to North Bay Junction. The NBJ LTFP Differential Surcharge is zero provided the Abandonment Surcharge for FT service from Empress to North Bay Junction is equal or less than \$6.69167/GJ/Month.

Enhanced Market Balancing Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
3	Union Parkway Belt to Union EDA	9.92374	0.3262	0.43192	0.0142

Delivery Pressure

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
4	Average Delivery Pressure Toll	0.60833	0.0200

Note: Delivery Pressure toll applies to the following locations: Emerson 1 , Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford. The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions and STFT.

Union Dawn Receipt Point Surcharge

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
5	Union Dawn Receipt Point Surcharge	0.13135	0.0043

Short Notice Balancing (SNB) Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
6	SNB Toll	2.97597	0.0978

Note: This SNB Toll is a representative toll for the Eastern Region.

Energy Deficient Gas Allowance (EDGA) Service

Line No.	Particulars	Capacity Charge (\$/GJ/D)
	(a)	(b)
7	Western Section	0.9388
8	Eastern Section	0.3302

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll. The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union NDA	Enbridge CDA	-	0.4482	-	0.0214
2	Union NDA	Enbridge Parkway CDA	-	0.4537	-	0.0217
3	Union NDA	Enbridge EDA	-	0.4769	-	0.0233
4	Union NDA	KPUC EDA	-	0.5748	-	0.0298
5	Union NDA	Energir EDA	-	0.6348	-	0.0338
6	Union NDA	Enbridge SWDA	-	0.6014	-	0.0316
7	Union NDA	Union SWDA	-	0.6029	-	0.0317
8	Union NDA	Chippawa	-	0.5417	-	0.0276
9	Union NDA	Cornwall	-	0.5224	-	0.0263
10	Union NDA	East Hereford	-	0.7544	-	0.0418
11	Union NDA	Emerson 1	-	0.6135	-	0.0704
12	Union NDA	Emerson 2	-	0.6135	-	0.0704
13	Union NDA	Iroquois	-	0.5008	-	0.0249
14	Union NDA	Kirkwall	-	0.4785	-	0.0234
15	Union NDA	Napierville	-	0.6225	-	0.0330
16	Union NDA	Niagara Falls	-	0.5401	-	0.0275
17	Union NDA	North Bay Junction	-	0.1241	-	0.0061
18	Union NDA	Phillipsburg	-	0.6339	-	0.0338
19	Union NDA	Spruce	-	0.5665	-	0.0642
20	Union NDA	St. Clair	-	0.6170	-	0.0326
21	Union NDA	Welwyn	-	0.6959	-	0.0812
22	Union NDA	Dawn Export	-	0.6014	-	0.0316
23	Union Parkway Belt	Empress	36.52433	1.2008	3.78079	0.1243
24	Union Parkway Belt	TransGas SSSDA	32.93821	1.0829	3.30933	0.1088
25	Union Parkway Belt	Centram SSSDA	30.35888	0.9981	2.97171	0.0977
26	Union Parkway Belt	Centram MDA	27.81908	0.9146	2.64017	0.0868
27	Union Parkway Belt	Centrat MDA	28.49738	0.9369	2.58846	0.0851
28	Union Parkway Belt	Union WDA	23.89229	0.7855	1.98317	0.0652
29	Union Parkway Belt	Nipigon WDA	21.91217	0.7204	1.72463	0.0567
30	Union Parkway Belt	Union NDA	13.80004	0.4537	0.66004	0.0217
31	Union Parkway Belt	Calstock NDA	18.57850	0.6108	1.28663	0.0423
32	Union Parkway Belt	Tunis NDA	15.95354	0.5245	0.94292	0.0310
33	Union Parkway Belt	Energir NDA	13.73008	0.4514	0.65092	0.0214
34	Union Parkway Belt	Union SSMDA	16.31854	0.5365	1.12846	0.0371
35	Union Parkway Belt	Union NCDA	6.64604	0.2185	0.27375	0.0090
36	Union Parkway Belt	Union CDA	4.16100	0.1368	0.10646	0.0035
37	Union Parkway Belt	Union ECDA	3.47358	0.1142	0.06083	0.0020
38	Union Parkway Belt	Union EDA	9.02158	0.2966	0.43192	0.0142
39	Union Parkway Belt	Union Parkway Belt	2.92000	0.0960	0.02433	0.0008
40	Union Parkway Belt	Enbridge CDA	4.55946	0.1499	0.13383	0.0044
41	Union Parkway Belt	Enbridge Parkway CDA	2.92000	0.0960	0.02433	0.0008
42	Union Parkway Belt	Enbridge EDA	12.02067	0.3952	0.63267	0.0208
43	Union Parkway Belt	KPUC EDA	8.94250	0.2940	0.42583	0.0140
44	Union Parkway Belt	Energir EDA	15.63721	0.5141	0.87296	0.0287
45	Union Parkway Belt	Enbridge SWDA	7.41558	0.2438	0.32546	0.0107
46	Union Parkway Belt	Union SWDA	7.45817	0.2452	0.32850	0.0108
47	Union Parkway Belt	Chippawa	5.59667	0.1840	0.20379	0.0067
48	Union Parkway Belt	Cornwall	12.21838	0.4017	0.64483	0.0212
49	Union Parkway Belt	East Hereford	19.27504	0.6337	1.11629	0.0367
50	Union Parkway Belt	Emerson 1	26.21004	0.8617	2.42725	0.0798
51	Union Parkway Belt	Emerson 2	26.21004	0.8617	2.42725	0.0798
52	Union Parkway Belt	Iroquois	11.37888	0.3741	0.59008	0.0194
53	Union Parkway Belt	Kirkwall	3.67738	0.1209	0.07604	0.0025
54	Union Parkway Belt	Napierville	15.26004	0.5017	0.84863	0.0279
55	Union Parkway Belt	Niagara Falls	5.55104	0.1825	0.20075	0.0066
56	Union Parkway Belt	North Bay Junction	10.04358	0.3302	0.49883	0.0164
57	Union Parkway Belt	Phillipsburg	15.60679	0.5131	0.86992	0.0286
58	Union Parkway Belt	Spruce	28.49738	0.9369	2.58846	0.0851
59	Union Parkway Belt	St. Clair	7.88704	0.2593	0.35588	0.0117
60	Union Parkway Belt	Welwyn	30.35888	0.9981	2.97171	0.0977
61	Union Parkway Belt	Dawn Export	7.41558	0.2438	0.32546	0.0107
62	Union SSMDA	Empress	-	0.8020	-	0.0951
63	Union SSMDA	TransGas SSSDA	-	0.6841	-	0.0796
64	Union SSMDA	Centram SSSDA	-	0.5994	-	0.0685
65	Union SSMDA	Centram MDA	-	0.5158	-	0.0576
66	Union SSMDA	Centrat MDA	-	0.5100	-	0.0568
67	Union SSMDA	Union WDA	-	0.6741	-	0.0783
68	Union SSMDA	Nipigon WDA	-	1.0178	-	0.0852
69	Union SSMDA	Union NDA	-	0.8110	-	0.0581
70	Union SSMDA	Calstock NDA	-	0.9678	-	0.0786
71	Union SSMDA	Tunis NDA	-	0.8815	-	0.0673
72	Union SSMDA	Energir NDA	-	0.8084	-	0.0577
73	Union SSMDA	Union SSMDA	-	0.0960	-	0.0008
74	Union SSMDA	Union NCDA	-	0.6590	-	0.0453
75	Union SSMDA	Union CDA	-	0.5295	-	0.0367
76	Union SSMDA	Union ECDA	-	0.5541	-	0.0383
77	Union SSMDA	Union EDA	-	0.7371	-	0.0505
78	Union SSMDA	Union Parkway Belt	-	0.5365	-	0.0371
79	Union SSMDA	Enbridge CDA	-	0.5837	-	0.0403
80	Union SSMDA	Enbridge Parkway CDA	-	0.5365	-	0.0371
81	Union SSMDA	Enbridge EDA	-	0.8357	-	0.0571

Effective
2022-04-01
Rate M12
Page 1 of 4

ENBRIDGE GAS INC.
UNION SOUTH
TRANSPORTATION RATES

Availability

Charges under this schedule shall be applicable to a Shipper who enters into a Transportation Service Contract with Union.

Applicable Points

Dawn as a receipt point: Dawn (TCPL), Dawn (Facilities), Dawn (Tecumseh), Dawn (Vector) and Dawn (TSLE).
Dawn as a delivery point: Dawn (Facilities).

Uses

Transportation Service under this rate schedule shall be for transportation on Union's Dawn - Parkway facilities.

Identified rates represent maximum prices for service. These rates may change periodically.
Near prices may also be negotiated, which may be higher than the identified rates.

	Monthly Demand Charges (applied to daily contract demand) Rate/GJ	Fuel and Commodity Charges			
		Union Supplied Fuel		Shipper Supplied Fuel	
		Fuel and Commodity Charge Rate/GJ	Fuel Ratio %	AND	Commodity Charge Rate/GJ
<u>Transportation (1), (5)</u>					
Dawn to Parkway	\$3.689	Monthly fuel and commodity rates shall be in accordance with schedule "C".	Monthly fuel ratios shall be in accordance with schedule "C".		
Dawn to Kirkwall	\$3.130				
Kirkwall to Parkway	\$0.559				
<u>Firm Transportation</u>					
Between Dawn, Kirkwall and Parkway	\$4.560	Monthly fuel and commodity rates shall be in accordance with schedule "C".	Monthly fuel ratios shall be in accordance with schedule "C".		
<u>Fixed Firm/Interruptible Transportation (1)</u>					
Dawn to Parkway – Maximum	\$8.854	Monthly fuel and commodity rates shall be in accordance with schedule "C".	Monthly fuel ratios shall be in accordance with schedule "C".		
Dawn to Kirkwall – Maximum	\$8.854				
From Parkway (TCPL / EGT) to Parkway (Cons) / Disgar (2)	n/a	n/a	0.167%		
<u>Facility Charge (applied to all quantities transported)</u>					
Facility Carbon Charge		\$0.004	\$0.004		



Daily Exchange Rates Lookup



All Bank of Canada exchange rates are indicative rates only, obtained from averages of aggregated price quotes from financial institutions. For details, please read our full [Terms and Conditions](#).

US dollar (USD)

Date	USD → CAD	CAD → USD
2022-07-06	1.3047	0.7665

Service Type	Receipt Location	Delivery Location	From Gas Day	To Gas Day	Combined Ratio
FH	Union Parkway Belt	East Hereford	5/1/2021	5/31/2021	1.24
FH	Union Parkway Belt	East Hereford	6/1/2021	6/30/2021	1.24
FH	Union Parkway Belt	East Hereford	7/1/2021	7/31/2021	1.27
FH	Union Parkway Belt	East Hereford	8/1/2021	8/31/2021	1.62
FH	Union Parkway Belt	East Hereford	9/1/2021	9/30/2021	1.08
FH	Union Parkway Belt	East Hereford	10/1/2021	10/31/2021	1.56
FH	Union Parkway Belt	East Hereford	11/1/2021	11/30/2021	1.42
FH	Union Parkway Belt	East Hereford	12/1/2021	12/31/2021	1.54
FH	Union Parkway Belt	East Hereford	1/1/2022	1/31/2022	1.59
FH	Union Parkway Belt	East Hereford	2/1/2022	2/28/2022	1.51
FH	Union Parkway Belt	East Hereford	3/1/2022	3/31/2022	1.65
FH	Union Parkway Belt	East Hereford	4/1/2022	4/30/2022	1.23
FH	Union Parkway Belt	East Hereford	Average Winter (Nov-Mar)		1.54
FH	Union Parkway Belt	East Hereford	Average Summer (Apr-Oct)		1.32

SCHEDULE "C"

ENBRIDGE GAS INC.

Union South

M12 Monthly Transportation Fuel Ratios and Fuel Rates

Firm or Interruptible Transportation Commodity

Effective April 1, 2022

Month	VT1 Easterly Dawn to Parkway (TCPL), Parkway (EGT) With Dawn Compression		VT1 Easterly Dawn to Kirkwall, Lisgar, Parkway (Consumers) With Dawn Compression		M12-X Westerly Kirkwall to Dawn	
	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate
	(%)	(\$/GJ)	(%)	(\$/GJ)	(%)	(\$/GJ)
April	0.926	0.048	0.577	0.031	0.167	0.008
May	0.658	0.035	0.394	0.021	0.167	0.008
June	0.550	0.029	0.290	0.015	0.167	0.008
July	0.534	0.028	0.277	0.015	0.167	0.008
August	0.426	0.022	0.168	0.008	0.167	0.008
September	0.421	0.022	0.168	0.008	0.167	0.008
October	0.791	0.042	0.487	0.025	0.167	0.008
November	0.942	0.050	0.659	0.035	0.167	0.008
December	1.067	0.056	0.783	0.041	0.167	0.008
January	1.229	0.065	0.930	0.049	0.167	0.008
February	1.167	0.061	0.876	0.046	0.167	0.008
March	1.089	0.058	0.784	0.041	0.167	0.008

Month	M12-X Easterly Kirkwall to Parkway (TCPL), Parkway (EGT)		M12-X Easterly Kirkwall to Lisgar, Parkway (Consumers)		M12-X Westerly Parkway to Kirkwall, Dawn	
	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate	Fuel Ratio	Fuel Rate
	(%)	(\$/GJ)	(%)	(\$/GJ)	(%)	(\$/GJ)
April	0.515	0.027	0.167	0.008	0.316	0.017
May	0.432	0.023	0.167	0.008	0.316	0.017
June	0.426	0.022	0.167	0.008	0.316	0.017
July	0.425	0.022	0.167	0.008	0.316	0.017
August	0.425	0.022	0.167	0.008	0.316	0.017
September	0.420	0.022	0.167	0.008	0.316	0.017
October	0.470	0.024	0.167	0.008	0.316	0.017
November	0.450	0.023	0.167	0.008	0.167	0.008
December	0.451	0.023	0.167	0.008	0.167	0.008
January	0.466	0.024	0.167	0.008	0.167	0.008
February	0.457	0.024	0.167	0.008	0.167	0.008
March	0.472	0.024	0.167	0.008	0.167	0.008

SCHEDULE 2
Page 1 of 1
Contract No. LST086

PRICING PROVISIONS

Shipper agrees to pay Union the following for the Storage Services:

- (a) **Monthly Demand Charge:** For the period of April, 2018 to March, 2023 inclusive, a monthly demand charge of \$236,666.67 US if the Maximum Storage Balance is 4,220,224 GJ (4,000,000 MMBtu); or a monthly demand charge of \$201,666.67 US if Shipper elects a lower Maximum Storage Balance of 3,587,190 GJ (3,400,000 MMBtu).
- (b) **Demand Charge Escalation:** *Intentionally blank*
- (c) **Variable Storage Charges:**
 - (i) **Firm:** For each GJ of gas withdrawn from or injected into the Storage Account on a firm basis, a charge equal to \$0.007 CDN/GJ;
 - (ii) **Interruptible:** For each GJ of gas withdrawn from or injected into the Storage Account on an interruptible basis, a charge equal to the price set out under the heading 'If Shipper supplies fuel Commodity Charge Price/GJ' in the 'Storage Services' section under '(C) Pricing' in the MPSS (currently \$0.041CDN/GJ);
 - (iii) **Authorized Overrun:** For each GJ of gas withdrawn from or injected into the Storage Account on an authorized overrun basis, a charge equal to the price set out under the heading 'If Shipper supplies fuel Commodity Charge Price/GJ' in the 'Authorized Overrun' section under '(C) Pricing' in the MPSS (currently \$0.041CDN/GJ);
 - (iv) **Dehydration Charge:** Not Applicable.
- (d) **Fuel:**
 - (i) **Firm and Interruptible:** For each GJ of gas withdrawn from or injected into the Storage Account on a firm or interruptible basis, an amount of fuel in kind equal to the fuel ratio set out under the heading of 'If Shipper supplies fuel' in the 'Storage Services' section under '(C) Pricing' in the MPSS (currently 0.600%);
 - (ii) **Authorized Overrun:** For each GJ of gas withdrawn from or injected into the Storage Account on an authorized overrun basis, an amount of fuel in kind equal to the fuel ratio set out under the heading of 'If Shipper supplies fuel' in the 'Authorized Overrun' section under '(C) Pricing' in the MPSS (currently 1.03%).
- (e) **Late Season Balance Charge and Early Season Balance Charge:** *Intentionally blank*
- (f) **Shortfall Charge:** *Intentionally blank*
- (g) **Other Charges:** Any and all other charges as may be set out in this Contract, and any charges relating to Unauthorized Overrun, Drafted Storage Balance and Overrun of Maximum Storage Balance as set out in the MPSS.

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

FY 2022 GAS ANNUAL CHARGES
CORRECTION FOR ANNUAL CHARGES UNIT CHARGE
June 21, 2022

The annual charges unit charge (ACA) to be applied to in fiscal year 2023 for recovery of FY 2022 Current year and 2021 True-Up is **\$0.0015** per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2022.

The following calculations were used to determine the FY 2022 unit charge:

2022 CURRENT:

Estimated Program Cost \$91,433,000 divided by 62,561,913,420 Dth = 0.0014614802

2021 TRUE-UP:

Debit/Credit Cost \$2,517,644 divided by 61,518,030,836 Dth = 0.0000409253

TOTAL UNIT CHARGE = 0.0015024055

If you have any questions, please contact Raven A. Rodriguez at (202)502-6276 or e-mail at Raven.Rodriguez@ferc.gov.

PUBLIC

4.2 Rate Schedule FT-NN
 Firm Transportation Service
 Currently Effective Rates

	\$/Dth	
	Base Tariff Rate	ACA Adj.
Reservation Charge:		
Maximum	\$6.1563	N/A
Minimum	\$0.0000	N/A
Commodity Charge:		
Maximum	\$0.0000	a/
Minimum	\$0.0000	a/
Authorized Overrun Commodity Charge:		
Maximum	\$0.2024	a/
Minimum	\$0.0000	a/
Fuel and Losses Percentage	0.35%	N/A
Volumetric Reservation Charge		
Maximum	\$0.2024	a/
Minimum	\$0.0000	a/

a/ The ACA Adj. Surcharge is revised annually and posted on the FERC website at the web address <http://www.ferc.gov> on the Annual Charges page of the Natural Gas Section. The ACA Adj. Surcharge is incorporated by reference in the Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Section 6.17 of the General Terms and Conditions.

Iroquois Gas Transmission System, L.P.
Settlement Attachment
Pro-Forma Tariff Sheet No. 4 Revision 5 superseding Revision 4

----- NON-EASTCHESTER RATES (All in \$ Per Dth) ~~1/-~~-----

	Minimum	RP16-301 RP19-445 Rates Maximum 21/	RP22-TBD Rates Maximum RP19-445 Rates		
		Effective 4/1/2020 Effective 9/1/2016	Effective 9/1/2022 17	Effective 9/1/2018 2023	Effective 9/1/2019 2024
RTS DEMAND (Monthly):					
Zone 1	\$0.0000	\$5.2357 \$6.1928	5.9982 24.8393	5.5997 4.5655	5.4177 4.2918
Zone 2	\$0.0000	\$4.4878 \$5.3381	5.1678 4.3344	4.7998 4.1823	4.6438 4.0302
Inter-Zone	\$0.0000	\$8.2304 \$10.4755	9.8672 7.4217	8.8026 7.2240	8.5165 7.0567
RTS COMMODITY (Daily):					
Zone 1	\$0.0034	\$0.0034 \$0.0034	\$-0.0034	\$-0.0034	\$0.0034
Zone 2	\$0.0022	\$0.0022 \$0.0022	\$-0.0022	\$-0.0022	\$0.0022
Inter-Zone	\$0.0056	\$0.0056 \$0.0056	\$-0.0056	\$-0.0056	\$0.0056
ITS COMMODITY (Daily):					
Zone 1	\$0.0034	\$0.1755 \$0.2070	0.2006 0.1625	0.1875 0.1535	\$0.1815 0.1445
Zone 2	\$0.0022	\$0.1497 \$0.1777	0.1721 0.1447	0.1600 0.1397	\$0.1549 0.1347
Inter-Zone	\$0.0056	\$0.2762 \$0.3500	0.3300 0.2496	0.2950 0.2431	\$0.2856 0.2376
VOLUMETRIC CAPACITY RELEASE (Daily) 32/ :					
Zone 1	\$0.0000	\$0.1721 \$0.2036	0.1972 0.1591	0.1841 0.1501	\$0.1781 0.1411
Zone 2	\$0.0000	\$0.1475 \$0.1755	0.1699 0.1425	0.1578 0.1375	\$0.1527 0.1325
Inter-Zone	\$0.0000	\$0.2706 \$0.3444	0.3244 0.2440	0.2894 0.2375	\$0.2800 0.2320

Iroquois Gas Transmission System, L.P.

Settlement Attachment

Pro-Forma Tariff Sheet No. 4.01 Revision 5 superseding Revision 4

~~1/ Transporter's Settlement dated February 28, 2019, in Docket Nos. RP19-445-000, et al., approved by Commission Order issued May 2, 2019, established two additional rate step-downs effective 3/1/2019 and 4/1/2020 referred to as "RP19-445 Rates", but otherwise did not modify Transporter's Settlement dated August 18, 2016, in Docket No. RP16-301-000, which remains effective, including the moratorium on initiation of changes to Transporter's Settlement Rates prior to September 1, 2020. All Maximum and Minimum Rates listed on Sheet Nos. 4, 4B, 4C, and 5A are subject to the moratorium.~~

12/ The ~~RP16~~RP19-445301 Rates that became effective ~~9/1/2018~~4/1/2020 shall be applicable to any Contesting Party to the Settlement dated ~~February 28, 2019~~[insert date], pursuant to Section ~~13.35.2 and 5.3~~ of that Settlement, ~~and shall become Transporter's effective base tariff rates in the event and as of the date that the Settlement dated February 28, 2019 terminates early pursuant to Sections 6.2 and 6.3. See footnote 1.~~

23/ No rate cap shall apply to any capacity releases with terms of less than or equal to one year pursuant to FERC Order Nos. 712 et al.

Historic Iroquois Zone 1 Fuel Rates

May-21	0.10%
Jun-21	0.00%
Jul-21	0.20%
Aug-21	0.10%
Sep-21	0.00%
Oct-21	0.00%
Nov-21	0.20%
Dec-21	0.20%
Jan-22	0.40%
Feb-22	0.50%
Mar-22	0.20%
Apr-22	0.30%
Nov-Mar	0.30%
Apr-Oct	0.10%

STATEMENT OF NEGOTIATED RATES 1/2/4/6/

Customer Name: Northern Utilities, Inc. d/b/a Unitil

Service Agreement: 210371

Rate Schedule: MN365

Reservation Rate: Customer shall pay a negotiated reservation rate of \$13.3833 per Dth, per month (equivalent to \$0.44 per Dth, per Day) of Customer's MDTQ under Contract No. 210371 during the Term of Negotiated Rate.

Usage Rate and Other Charges: 3/

Term of Negotiated Rate: The term of this negotiated rate commences on January 1, 2021 and extends through December 31, 2035. 5/

Quantity ("MDTQ"): 7,500 Dth/d

Primary Receipt Point:

Beverly – Essex Co., MA (Meter No. 30035) - 7,500 Dth/d

Primary Delivery Points:

Northern Utilities – Cotton Rd – Androscoggin Co, ME (Meter No. 30028)– 7,500 Dth/d

Recourse Rate(s): The Recourse Rate(s) applicable to this service is the applicable maximum rate(s) stated on Pipeline's Statement of Rates for Rate Schedule MN365 at the applicable time.

FOOTNOTES:

1/ This negotiated rate transaction does not deviate in any material respect from the form of service agreement set forth in Pipeline's FERC Gas Tariff.

2/ This Negotiated Rate shall apply only to transportation service under Contract No. 210371, up to Customer's specified MDTQ, using the Primary Receipt Point and Primary Delivery Point designated herein, and any secondary receipt and delivery points available under Rate Schedule MN365.

3/ Customer shall pay: (i) a commodity charge which shall be zero for the quantity of gas, in Dekatherms, delivered during the applicable Day under Pipeline's Rate Schedule MN365; (ii) the applicable Fuel Reimbursement Quantity ("FRQ") under Pipeline's Rate Schedule MN365; (iii) the applicable Annual Charge Adjustment and all other charges and surcharges applicable to Rate Schedule MN365; and (iv) any future surcharge or additional usage charge pursuant to any FERC-approved cost recovery mechanism of general applicability implemented in a generic proceeding or in a Pipeline specific proceeding, which mechanism recovers cost components not

reflected in Pipeline's recourse rate(s) applicable to service under Pipeline's Rate Schedule MN365.

4/ Pipeline and Customer agree that Contract No. 210371 is a ROFR Agreement.

5/ If the term of Contract No. 210371 renews for one or more twelve (12) month evergreen period(s) at the negotiated reservation rate, then the term of this Negotiated Rate Agreement shall be extended for such evergreen period(s).

6/ Customer will be eligible to receive reservation charge adjustments under this Negotiated Rate Agreement in accordance with Pipeline's FERC Gas Tariff.

FUEL RETAINAGE PERCENTAGES

FUEL RETAINAGE PERCENTAGE: PURSUANT TO SECTION 20 OF THE GT&C

Winter Period (November 1 - March 31) 0.74%

Non-Winter Period (April 1 - October 31) 0.98%

SCHEDULE 1

Receipt Point(s): 01-0100 Pittsburg, NH
Delivery Point(s): 05-0850 Newington Granite State
Maximum Daily Quantity: 40003 Dth/day
Maximum Contract Demand: 219176437 Dth
Effective Service Period: April 1, 2018 through November 30, 2032
Rate Provision(s) (check if applicable rate):

Discounted Rate

Negotiated Rate

Shipper's charges and fees shall be calculated as follows:

~~\$0.6000/Dth/day~~

Additional Terms: Shipper shall have the right to deliver, on a secondary basis, to the following meters, at the Negotiated Rate of \$0.60/Dth/day. Delivery to all other secondary delivery points on this Negotiated Rate contract shall be priced at the Maximum Recourse Rate.

Meter #	Name	Operator
05-0525	Westbrook	M&NE
05-0600	Westbrook	Granite State
02-0650	Gorham	Maine Natural Gas
05-0725	Eliot	Granite State
05-0750	Eliot CNG	XPress Natural Gas
02-0775	Newington	Essential Power
02-0900	Newington	Eversource
05-0850	Newington	Granite State
05-1000	Haverhill	Tennessee Gas Pipeline
05-1025	Haverhill	National Grid
05-1050	Methuen	M&NE
05-1150	Dracut	Tennessee Gas Pipeline

Revision No. 2

SCHEDULE 1

Primary Receipt Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	Maximum Daily Quantity (Dth/day)
11/1/2020	10/31/2040	10100	Pittsburg (East Hereford)	0 (Phase I Quantity) plus 0 (Phase II Quantity) plus 10,000 (Phase III Quantity)

Primary Delivery Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	Maximum Daily Quantity (Dth/day)
11/1/2020	10/31/2040	50850	Newington Granite State	0 (Phase I Quantity) plus 0 (Phase II Quantity) plus 10,000 (Phase III Quantity)

Maximum Contract Demand	0 Dth (Phase I Quantity)
plus	0 Dth (Phase II Quantity)
plus	10,000 Dth (Phase III Quantity)
Total Maximum Contract Demand	10,000 Dth (Phase I, II and III Quantities)

Effective Service Period 1/ to 1/

Rate Provision(s) (check if applicable rate):

Discounted Rate
 Negotiated Rate

Shipper's charges and fees shall be calculated as follows:

For the period of November 1, 2020 through October 31, 2021, for volumes received at the

primary receipt point and delivered to the primary delivery point, the reservation charge shall be \$0.7500/Dth/day (the “Negotiated Daily Demand Rate”). For the period of November 1, 2021 through October 31, 2040, for volumes received at the primary receipt point and delivered to the primary delivery point, the Negotiated Daily Demand Rate shall be \$0.7448/Dth/day.

For volumes received at the primary receipt point and delivered to any of the following secondary delivery points, the reservation charge shall be the Negotiated Daily Demand Rate: Westbrook M&NE, Westbrook Granite State, Eliot Granite State, Dracut and Haverhill Tennessee Gas. Deliveries to any other secondary delivery point(s) will be at the Recourse Reservation Rate.

Shipper shall have secondary receipt point access for delivery to any delivery point at the Recourse Reservation Rate.

In addition to the applicable reservation rate stated above, Shipper shall pay or furnish, as applicable, all maximum applicable demand and commodity surcharges, unit charges, Measurement Variance Quantities, and other fuel requirements and charges, as specified in the Tariff, in addition to any charges associated with mandated compliance with new or revised regulations or legislation (i.e. environmental, modernization and safety), which may change from time to time, and any other amounts contemplated under Article IV of this Contract.

PNGTS Construction Cost Sharing:

Shipper’s Negotiated Daily Demand Rate for PNGTS reflected above shall be adjusted as follows:

To the extent Actual PNGTS Construction Costs (defined below) exceed Estimated PNGTS Construction Costs (defined below), Shipper’s Negotiated Daily Demand Rate shall be multiplied by the Capital Cost Overrun Factor (“CCO Factor”). The CCO Factor shall be equal to $1 + [(CCO/EPCC) \times 50\%]$. In no event shall the CCO Factor exceed 1.0667.

To the extent Actual PNGTS Construction Costs, as defined below, are less than Estimated PNGTS Construction Costs as defined below, Shipper’s Negotiated Daily Demand Rate shall be multiplied by the Capital Cost Underrun Factor (“CCU Factor”). The CCU Factor shall be equal to $1 - [(CCU/EPCC) \times 50\%]$. In no event shall the CCU Factor be less than 0.9333.

Any such adjustment to Shipper’s Negotiated Daily Demand Rate for PNGTS shall be subject to a rate adjustment cap of +/- US\$0.05 per Dth (overruns/ underruns). Such adjustment shall be effective on the actual in-service date for Phase III based on the final costs estimated by PNGTS at such time, and subsequently adjusted, if necessary, as soon as administratively feasible based on the Phase III final cost report filed with the FERC, to keep the applicable Parties financially whole as if the actual costs were known as of the actual in-service date of Phase III. Any subsequent adjustment shall not be later than the first anniversary date of the actual in-service date of Phase III and shall remain in effect for the balance of the Initial Term.

“Actual PNGTS Construction Costs” or “APCC” shall mean the amount filed by PNGTS with the FERC following completion of construction of the facilities associated with PXP Phase III (such construction shall be referred to herein as “PNGTS Construction”). PNGTS shall maintain books and records reasonably necessary for Shipper to verify the APCC.

“Capital Cost Overrun” or “CCO” shall be an amount in U.S. dollars equal to the difference between

the Actual PNGTS Construction Costs and the Estimated PNGTS Construction Costs, if Actual PNGTS Construction Costs exceed Estimated Project Costs.

“Capital Cost Underrun” or “CCU” shall be an amount in U.S. dollars equal to the difference between the Actual PNGTS Construction Costs and the Estimated PNGTS Construction Costs, if Actual PNGTS Construction Costs are less than Estimated PNGTS Construction Costs.

“Estimated PNGTS Construction Costs” or “EPCC” shall mean all costs and expenses that are projected to be incurred by PNGTS to complete the PNGTS Construction in the manner contemplated by this Agreement as filed with the FERC in its Section 7 of the Natural Gas Act certificate application for Phase III.

Shipper shall have one-time audit right to be exercised no later than thirteen (13) months after the actual in-service date for Phase III, at Shipper’s sole cost and expense, to review PNGTS’s books and records as reasonably necessary to verify costs associated with Phase III of the PNGTS Construction for purposes of this provision.

Historic PNGTS Zone 1 Measurement Variance Rates

May-21	-1.00%
Jun-21	-1.00%
Jul-21	-1.00%
Aug-21	-1.00%
Sep-21	-1.00%
Oct-21	-1.00%
Nov-21	1.00%
Dec-21	-0.31%
Jan-22	-0.83%
Feb-22	-1.00%
Mar-22	-0.10%
Apr-22	0.90%
Annual	-0.53%
Projected (Greater of Annual Average or 0%)	0.00%
PXP Project Fuel Rate	0.28%
WXP Project Fuel Rate	1.336%

**Portland Natural Gas Transmission System
 Portland XPress Project (PXP) Phase III
 Project Fuel Study**

M&N Operating Company, LLC, the operator of the Joint Facilities between Westbrook and Dracut, estimated the daily fuel consumption for PXP. The result of the study is shown on Line 3 below. The proposed initial Fuel Rate was calculated by dividing the total estimated daily fuel consumption by the estimated daily volume to be transported on the Joint Facilities.

Once in service, the Fuel Rate will be adjusted monthly pursuant to proposed Section 6.2.26 of the General Terms & Conditions of PNGTS's FERC Gas Tariff, Third Revised Volume No. 1, so that the Fuel Rate is based upon actual fuel usage and transportation activity. Currently, the PNGTS system has no compression facilities and therefore shippers only pay a charge related to Lost And Unaccounted For Gas.

Line No.	Description		
1	Installed Horsepower	6,300	hp
2	PXP Volume Transported on both Northern Facilities and Joint Facilities	119,378	Dth/d
3	Estimated Fuel	296.2	Dth/d
4	Assumed Load Factor	90%	
5	Initial Compressor Fuel Rate	0.28%	

Statement of Transportation Rates
 (Rates per DTH)

Rate Schedule	Rate Component	Base Rate	ACA Unit Charge 1/
FT	Recourse Reservation Rate		
	-- Maximum	\$25.9843	-----
	-- Minimum	\$00.0000	-----
	Seasonal Recourse Reservation Rate		
	-- Maximum	\$49.3701	-----
	-- Minimum	\$00.0000	-----
	Recourse Usage Rate		
	-- Maximum	\$00.0000	2/
	-- Minimum	\$00.0000	2/
	-- PXP Project	\$00.0091	
FT-FLEX	Recourse Reservation Rate		
	--Maximum	\$17.4406	-----
	--Minimum	\$00.0000	-----
	Recourse Usage Rate		
	--Maximum	\$00.2809	2/
	--Minimum	\$00.0000	2/

The following adjustment applies to all Rate Schedules above:

MEASUREMENT VARIANCE FACTOR-LAUF:

Minimum down to -1.00%
 Maximum up to +1.00%

MEASUREMENT VARIANCE FACTOR-FUEL 3/

-
- 1/ ACA assessed where applicable under Section 154.402 of the Commission's regulations and will be charged pursuant to Section 6.18 of the General Terms and Conditions at such time that initial and successive ACA assessments are made.
 - 2/ The currently effective ACA unit charge as published on the Commission's website (www.ferc.gov) is incorporated herein by reference.

Portland Natural Gas Transmission System

FERC Gas Tariff

Third Revised Volume No. 1

- 3/ Measurement Variance Factor-Fuel shall be calculated in accordance with Section 6.2.26 herein and shall apply to Rate Schedule FT-Firm Transportation Service PXP contracts with primary point rights on the Joint Facilities, and Phase II and Phase III Rate Schedule FT-Firm Transportation Service WXP contracts, as applicable.

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SCHEDULE 1

Primary Receipt Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Maximum Daily Quantity (Dth/day)</u>
1/	1/	10100	PITTSBURG (EAST HEREFORD)	10,000

Primary Delivery Points

<u>Begin Date</u>	<u>End Date</u>	<u>Scheduling Point No.</u>	<u>Scheduling Point Name</u>	<u>Maximum Daily Quantity (Dth/day)</u>
1/	1/	51150	DRACUT, MASSACHUSETTIS	10,000

Maximum Contract Demand 10,000 Dth
 Effective Service Period 1/ to 1/

Rate Provision(s) (check if applicable rate):

Discounted Rate
 Negotiated Rate

Shipper's charges and fees shall be calculated as follows:

For 1/ to 1/, shipper agrees to pay a fixed discounted daily demand rate of \$0.8200 per Dth ("Discounted Daily Demand Rate") multiplied by the sum of the Maximum Daily Quantity during such term.

Other terms and conditions:

In addition to the Discounted Daily Demand Rate, Shipper shall pay all maximum applicable demand and commodity surcharges, including but not limited to measurement variance and unit charges, specified under Rate Schedule FT set forth in the Tariff, in addition to any charges associated with mandated compliance with new or revised regulations or legislation (i.e. environmental, modernization and safety) (collectively, the "Project Rate").

If during the term in Article VII, Transporter's maximum recourse rate under Rate Schedule FT set forth in the Tariff for a route from the Primary Receipt Point to the Primary Delivery Point is, or is expected to be, lower than the fixed \$0.8200/Dth/day then Transporter may, at its discretion, require Shipper to convert its Discounted Daily Demand Rate to a fixed negotiated daily reservation rate equal to \$0.8200/Dth/day (the "Converted Negotiated Demand Rate"), and Shipper would continue to pay all other components of the Project Rate without modification thereto. The Parties expressly agree that if a conversion to the Converted Negotiated Demand Rate occurs, it shall not make Shipper responsible for any charges or surcharges above and beyond the Project Rate which it otherwise would not be responsible for prior to such conversion. If during the term in Article VII and after Transporter requires Shipper to convert its Discounted Daily Demand Rate to the Converted Negotiated Demand Rate, the maximum Tariff recourse rate under Rate Schedule FT set forth in the Tariff for a route from Primary Receipt Point to the Primary Delivery Point is, or is expected to be, greater than the Discounted Daily Demand Rate was prior to such conversion, Transporter may, at its discretion, require Shipper to convert is Converted Negotiated Demand Rate back to Discounted Daily Demand Rate.

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~~Secondary Receipt Points.~~

Shipper shall have secondary receipt point access on Transporter's system pursuant to the terms and conditions of Transporter's Tariff, at the Project Rate.

Secondary Delivery Points:

Shipper shall have secondary delivery point access on Transporter's system pursuant to the terms and conditions of Transporter's Tariff at the Project Rate.

1/ Pursuant to Article VII of the Contract.

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**Portland Natural Gas Transmission System
Westbrook XPress (WXP) Phase II and III
Project Measurement Variance Factor-Fuel Study**

Line No.	Description			
1	Installed Horsepower		15,900	hp
2	WXP Incremental Project Capacity	1/	80,998	Mcf/d
3	Assumed Load Factor Range		75% to 100%	
4	Estimated Fuel Usage Range		0 to 1,082	Mcf/d
5	WXP Project Measurement Variance Factor-Fuel Rate Range	2/	0.000% to 1.336%	

Notes:

- 1/ See page 1 of the Application for a Certificate of Public Convenience and Necessity; 80,998 Mcf/d represents the requested increase to certificated capacity on PNGTS's wholly-owned north system from Pittsburg, New Hampshire, to Westbrook, Maine.
- 2/ (Ln. 4 x 365) / (Ln. 2 x Ln. 3 x 365). The low value of the range was calculated utilizing a 75% load factor, and the high value of the range utilized a 100% load factor. PNGTS anticipates an initial WXP Project fuel rate within the reflected range. Subsequent monthly fuel rates will be adjusted in accordance with the PNGTS fuel mechanism as proposed in this certificate application, and are intended to keep Phase II and III WXP Project shippers and PNGTS whole on a rolling monthly basis.

Texas Eastern Transmission, LP
 FERC Gas Tariff
 Eighth Revised Volume No. 1

Part 4 - Statements of Rates

2. Rate Schedule FT-1

Version 106.0.0

Page 1 of 38

CURRENTLY EFFECTIVE SERVICE RATES APPLICABLE TO OPEN ACCESS, PART 284, RATE
 SCHEDULES IN FERC GAS TARIFF, EIGHTH REVISED VOLUME NO. 1

FT-1
 RESERVATION
 CHARGES

Pursuant to Sections 3.2(A), 3.3(A), and 3.5 of Rate Schedule FT-1:

ACCESS AREA	FT-1 RESERVATION CHARGE*		FT-1 RESERVATION CHARGE ADJUSTMENT	
	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
	\$/dth		\$/dth	
STX-AAB	11.8550	0.0000	0.3898	0.0000
WLA-AAB	5.6130	0.0000	0.1845	0.0000
ELA-AAB	3.4450	0.0000	0.1132	0.0000
ETX-AAB	3.7060	0.0000	0.1218	0.0000
STX-STX	7.8500	0.0000	0.2581	0.0000
STX-WLA	10.0740	0.0000	0.3312	0.0000
STX-ELA	11.8810	0.0000	0.3906	0.0000
STX-ETX	11.8820	0.0000	0.3906	0.0000
WLA-WLA	3.8320	0.0000	0.1260	0.0000
WLA-ELA	5.6400	0.0000	0.1854	0.0000
WLA-ETX	5.6390	0.0000	0.1854	0.0000
ELA-ELA	3.4720	0.0000	0.1141	0.0000
ETX-ETX	3.7330	0.0000	0.1227	0.0000
ETX-ELA	3.4720	0.0000	0.1141	0.0000
MARKET AREA	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
M1-M1	4.4500	0.0000	0.1463	0.0000
M1-M2	11.0520	0.0000	0.3633	0.0000
M1-M3	21.5010	0.0000	0.7069	0.0000
M2-M2	8.2650	0.0000	0.2717	0.0000
M2-M3	18.7150	0.0000	0.6153	0.0000
M3-M3	12.1140	0.0000	0.3983	0.0000

* Reservation Charge reflects a storage surcharge of: 0.0970

Texas Eastern Transmission, LP
 FERC Gas Tariff
 Eighth Revised Volume No. 1

Part 4 - Statements of Rates

2. Rate Schedule FT-1

Version 106.0.0

CURRENTLY EFFECTIVE SERVICE RATES APPLICABLE TO OPEN ACCESS, PART 284, RATE SCHEDULES IN FERC GAS TARIFF, EIGHTH REVISED VOLUME NO. 1

FT-1
 USAGE
 CHARGES

ZONE RATE
 \$/dth

Pursuant to Sections 3.2(A) and 3.3(A) of Rate Schedule FT-1:

	STX	WLA	ELA	ETX	M1	M2	M3
USAGE-1 - MAXIMUM							
from STX	0.0248	0.0298	0.0449	0.0449	0.0710	0.1202	0.1890
from WLA	0.0298	0.0125	0.0307	0.0307	0.0568	0.1060	0.1748
from ELA	0.0449	0.0307	0.0252	0.0252	0.0513	0.1005	0.1693
from ETX	0.0449	0.0307	0.0252	0.0252	0.0513	0.1005	0.1693
from M1	0.0710	0.0568	0.0513	0.0513	0.0261	0.0753	0.1441
from M2	0.1202	0.1060	0.1005	0.1005	0.0753	0.0538	0.1255
from M3	0.1890	0.1748	0.1693	0.1693	0.1441	0.1255	0.0754
USAGE-1 - MINIMUM							
from STX	0.0218	0.0267	0.0418	0.0418	0.0648	0.1141	0.1828
from WLA	0.0267	0.0094	0.0276	0.0276	0.0506	0.0999	0.1686
from ELA	0.0418	0.0276	0.0221	0.0221	0.0451	0.0944	0.1631
from ETX	0.0418	0.0276	0.0221	0.0221	0.0451	0.0944	0.1631
from M1	0.0648	0.0506	0.0451	0.0451	0.0230	0.0723	0.1410
from M2	0.1141	0.0999	0.0944	0.0944	0.0723	0.0508	0.1224
from M3	0.1828	0.1686	0.1631	0.1631	0.1410	0.1224	0.0724
USAGE-1 - BACKHAUL MAXIMUM							
from STX	0.0197						
from WLA		0.0090					
from ELA			0.0192				
from ETX				0.0192			
from M1				0.0467	0.0215		
from M2				0.0900	0.0648	0.0464	
from M3						0.1078	0.0645
USAGE-1 - BACKHAUL MINIMUM							
from STX	0.0167						
from WLA		0.0059					
from ELA			0.0161				
from ETX				0.0161			
from M1				0.0405	0.0184		
from M2				0.0839	0.0618	0.0434	
from M3						0.1047	0.0615
USAGE-2	0.2586	0.2586	0.2586	0.2586	0.4310	0.6972	1.1096

ACA COMMODITY SURCHARGE TO APPLICABLE CUSTOMERS, PURSUANT TO SECTION 15.5 OF THE GENERAL TERMS AND CONDITIONS.

CURRENTLY EFFECTIVE PERCENTAGES FOR APPLICABLE SHRINKAGE FOR ASA RATE SCHEDULES
 Effective During the Winter Period: March 1 through March 31

FOR TRANSPORTATION SERVICE		STX (%)	WLA (%)	ELA (%)	ETX (%)	M1 (%)	M2 (%)	M3 (%)
	from STX	1.09	1.25	2.12	2.12	3.08	4.70	5.81
Base	from WLA	0.50	0.50	1.38	1.38	2.34	3.96	5.07
Applicable	from ELA	1.05	1.05	1.05	1.05	2.01	3.63	4.74
Shrinkage	from ETX	1.09	1.05	1.05	1.05	2.01	3.63	4.74
Percentage	from M1	3.08	2.34	2.01	2.01	0.96	2.58	3.69
	from M2	4.70	3.96	3.63	3.63	2.58	1.80	2.90
	from M3	5.81	5.07	4.74	4.74	3.69	2.90	1.28
	from STX	-0.86	-0.98	-1.63	-1.63	-2.33	-3.34	-3.57
Applicable	from WLA	-0.23	-0.40	-1.01	-1.01	-1.71	-2.72	-2.95
Shrinkage	from ELA	-0.56	-0.68	-0.64	-0.64	-1.34	-2.35	-2.58
Adjustment	from ETX	-0.60	-0.68	-0.64	-0.64	-1.34	-2.35	-2.58
Percentage	from M1	-2.33	-1.71	-1.34	-1.34	-0.70	-1.71	-1.94
	from M2	-3.34	-2.72	-2.35	-2.35	-1.71	-1.18	-1.40
	from M3	-3.57	-2.95	-2.58	-2.58	-1.94	-1.40	-0.39
	from STX	0.23	0.27	0.49	0.49	0.75	1.36	2.24
Applicable	from WLA	0.27	0.10	0.37	0.37	0.63	1.24	2.12
Shrinkage	from ELA	0.49	0.37	0.41	0.41	0.67	1.28	2.16
Percentage	from ETX	0.49	0.37	0.41	0.41	0.67	1.28	2.16
	from M1	0.75	0.63	0.67	0.67	0.26	0.87	1.75
	from M2	1.36	1.24	1.28	1.28	0.87	0.62	1.50
	from M3	2.24	2.12	2.16	2.16	1.75	1.50	0.89
FOR TRANSPORTATION SERVICE UNDER CONTRACTS WITH PARTIAL BACKHAUL PATHS		STX (%)	WLA (%)	ELA (%)	ETX (%)	M1 (%)	M2 (%)	M3 (%)
	from STX	0.00						
Base	from WLA		0.00					
Applicable	from ELA			0.00				
Shrinkage	from ETX				0.00			
Percentage	from M1				0.00	0.00		
	from M2				0.00	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Adjustment	from ETX				0.41			
Percentage	from M1				0.41	0.00		
	from M2				0.41	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Percentage	from ETX				0.41			
	from M1				0.41	0.00		
	from M2				0.41	0.00	0.00	
	from M3						0.00	0.00
FOR STORAGE SERVICE			Base		Applicable		Applicable	
			Applicable		Shrinkage		Shrinkage	
			Shrinkage		Adjustment		Shrinkage	
			Percentage		Percentage		Percentage	
	Monthly W/d (SS,SS-1,X-28)		2.86 %		-1.81 %		1.05 %	
	Monthly W/d (FSS,ISS-1)		1.76 %		-1.17 %		0.59 %	
	Monthly Injections		1.76 %		-1.17 %		0.59 %	
	Monthly Inventory Level		0.08 %		-0.05 %		0.03 %	

Footnote: Due to the bidirectional flow patterns of Pipeline's Access Area Zones, there is no distinction between forwardhauls and backhauls for applicable Shrinkage purposes in the Access Area Zones.

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CURRENTLY EFFECTIVE PERCENTAGES FOR APPLICABLE SHRINKAGE FOR ASA RATE SCHEDULES
 Effective During the Winter Period: December 1 through February 28

FOR TRANSPORTATION SERVICE		STX (%)	WLA (%)	ELA (%)	ETX (%)	M1 (%)	M2 (%)	M3 (%)
	from STX	1.09	1.25	2.12	2.12	3.08	4.70	5.81
Base	from WLA	0.50	0.50	1.38	1.38	2.34	3.96	5.07
Applicable	from ELA	1.05	1.05	1.05	1.05	2.01	3.63	4.74
Shrinkage	from ETX	1.09	1.05	1.05	1.05	2.01	3.63	4.74
Percentage	from M1	3.08	2.34	2.01	2.01	0.96	2.58	3.69
	from M2	4.70	3.96	3.63	3.63	2.58	1.80	2.90
	from M3	5.81	5.07	4.74	4.74	3.69	2.90	1.28
	from STX	-0.45	-0.56	-1.15	-1.15	-1.38	-2.39	-2.63
Applicable	from WLA	0.19	0.02	-0.53	-0.53	-0.76	-1.77	-2.01
Shrinkage	from ELA	-0.08	-0.20	-0.17	-0.17	-0.40	-1.41	-1.65
Adjustment	from ETX	-0.12	-0.20	-0.17	-0.17	-0.40	-1.41	-1.65
Percentage	from M1	-1.38	-0.76	-0.40	-0.40	-0.23	-1.24	-1.48
	from M2	-2.39	-1.77	-1.41	-1.41	-1.24	-0.71	-0.93
	from M3	-2.63	-2.01	-1.65	-1.65	-1.48	-0.93	0.08
	from STX	0.64	0.69	0.97	0.97	1.70	2.31	3.18
Applicable	from WLA	0.69	0.52	0.85	0.85	1.58	2.19	3.06
Shrinkage	from ELA	0.97	0.85	0.88	0.88	1.61	2.22	3.09
Percentage	from ETX	0.97	0.85	0.88	0.88	1.61	2.22	3.09
	from M1	1.70	1.58	1.61	1.61	0.73	1.34	2.21
	from M2	2.31	2.19	2.22	2.22	1.34	1.09	1.97
	from M3	3.18	3.06	3.09	3.09	2.21	1.97	1.36
FOR TRANSPORTATION SERVICE UNDER CONTRACTS WITH PARTIAL BACKHAUL PATHS		STX (%)	WLA (%)	ELA (%)	ETX (%)	M1 (%)	M2 (%)	M3 (%)
	from STX	0.00						
Base	from WLA		0.00					
Applicable	from ELA			0.00				
Shrinkage	from ETX				0.00			
Percentage	from M1				0.00	0.00		
	from M2				0.00	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Adjustment	from ETX				0.88			
Percentage	from M1				0.88	0.00		
	from M2				0.88	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Percentage	from ETX				0.88			
	from M1				0.88	0.00		
	from M2				0.88	0.00	0.00	
	from M3						0.00	0.00
FOR STORAGE SERVICE			Base Applicable Shrinkage Percentage		Applicable Shrinkage Adjustment Percentage		Applicable Shrinkage Percentage	
	Monthly W/d (SS,SS-1,X-28)		2.86 %		-1.34 %		1.52 %	
	Monthly W/d (FSS,ISS-1)		1.76 %		-1.17 %		0.59 %	
	Monthly Injections		1.76 %		-1.17 %		0.59 %	
	Monthly Inventory Level		0.08 %		-0.05 %		0.03 %	

Footnote: Due to the bidirectional flow patterns of Pipeline's Access Area Zones, there is no distinction between forwardhauls and backhauls for applicable Shrinkage purposes in the Access Area Zones.

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CURRENTLY EFFECTIVE PERCENTAGES FOR APPLICABLE SHRINKAGE FOR ASA RATE SCHEDULES

Effective During the Spring, Summer and Fall Periods: April 1 through November 30

FOR TRANSPORTATION SERVICE		STX (%)	WLA (%)	ELA (%)	ETX (%)	M1 (%)	M2 (%)	M3 (%)
	from STX	0.93	1.04	1.64	1.64	2.49	3.59	4.34
Base	from WLA	0.53	0.53	1.13	1.13	1.98	3.08	3.83
Applicable	from ELA	0.91	0.91	0.91	0.91	1.76	2.86	3.61
Shrinkage	from ETX	0.93	0.91	0.91	0.91	1.76	2.86	3.61
Percentage	from M1	2.49	1.98	1.76	1.76	0.85	1.95	2.70
	from M2	3.59	3.08	2.86	2.86	1.95	1.42	2.17
	from M3	4.34	3.83	3.61	3.61	2.70	2.17	1.07
	from STX	-0.79	-0.88	-1.35	-1.35	-2.05	-2.78	-3.01
Applicable	from WLA	-0.37	-0.47	-0.92	-0.92	-1.62	-2.35	-2.58
Shrinkage	from ELA	-0.62	-0.70	-0.67	-0.67	-1.37	-2.10	-2.33
Adjustment	from ETX	-0.64	-0.70	-0.67	-0.67	-1.37	-2.10	-2.33
Percentage	from M1	-2.05	-1.62	-1.37	-1.37	-0.70	-1.43	-1.66
	from M2	-2.78	-2.35	-2.10	-2.10	-1.43	-1.06	-1.28
	from M3	-3.01	-2.58	-2.33	-2.33	-1.66	-1.28	-0.54
	from STX	0.14	0.16	0.29	0.29	0.44	0.81	1.33
Applicable	from WLA	0.16	0.06	0.21	0.21	0.36	0.73	1.25
Shrinkage	from ELA	0.29	0.21	0.24	0.24	0.39	0.76	1.28
Percentage	from ETX	0.29	0.21	0.24	0.24	0.39	0.76	1.28
	from M1	0.44	0.36	0.39	0.39	0.15	0.52	1.04
	from M2	0.81	0.73	0.76	0.76	0.52	0.36	0.89
	from M3	1.33	1.25	1.28	1.28	1.04	0.89	0.53
FOR TRANSPORTATION SERVICE UNDER CONTRACTS WITH PARTIAL BACKHAUL PATHS		STX (%)	WLA (%)	ELA (%)	ETX (%)	M1 (%)	M2 (%)	M3 (%)
	from STX	0.00						
Base	from WLA		0.00					
Applicable	from ELA			0.00				
Shrinkage	from ETX				0.00			
Percentage	from M1				0.00	0.00		
	from M2				0.00	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Adjustment	from ETX				0.24			
Percentage	from M1				0.24	0.00		
	from M2				0.24	0.00	0.00	
	from M3						0.00	0.00
	from STX	0.00						
Applicable	from WLA		0.00					
Shrinkage	from ELA			0.00				
Percentage	from ETX				0.24			
	from M1				0.24	0.00		
	from M2				0.24	0.00	0.00	
	from M3						0.00	0.00
FOR STORAGE SERVICE			Base Applicable Shrinkage Percentage		Applicable Shrinkage Adjustment Percentage		Applicable Shrinkage Percentage	
	Monthly W/d (SS,SS-1,X-28)		2.70 %		-1.84 %		0.86 %	
	Monthly W/d (FSS,ISS-1)		1.76 %		-1.17 %		0.59 %	
	Monthly Injections		1.76 %		-1.17 %		0.59 %	
	Monthly Inventory Level		0.08 %		-0.05 %		0.03 %	

Footnote: Due to the bidirectional flow patterns of Pipeline's Access Area Zones, there is no distinction between forwardhauls and backhauls for applicable Shrinkage purposes in the Access Area Zones.

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES
RATE SCHEDULE FOR FT-A

Base Reservation Rates		DELIVERY ZONE							
RECEIPT ZONE	0	L	1	2	3	4	5	6	
0	\$4.7485		\$9.92300	\$13.3478	\$13.5840	\$14.9261	\$15.8434	\$19.8779	
L		\$4.2156							
1	\$7.1485		\$6.8524	\$9.1192	\$12.9182	\$12.7224	\$14.3480	\$17.6429	
2	\$13.3479		\$9.0644	\$4.7144	\$4.4071	\$5.6390	\$7.7558	\$10.0118	
3	\$13.5840		\$7.1799	\$4.7525	\$3.4286	\$5.2666	\$9.5251	\$11.0065	
4	\$17.2471		\$15.9003	\$6.0594	\$9.2085	\$4.5075	\$4.8747	\$6.9640	
5	\$20.5647		\$14.4505	\$6.3563	\$7.6911	\$5.0074	\$4.6970	\$6.1147	
6	\$23.7895		\$16.5974	\$11.4230	\$12.5841	\$8.8889	\$4.6763	\$4.0480	

Daily Base Reservation Rate 1/		DELIVERY ZONE							
RECEIPT ZONE	0	L	1	2	3	4	5	6	
0	\$0.1561		\$0.3262	\$0.4388	\$0.4466	\$0.4907	\$0.5209	\$0.6535	
L		\$0.1386							
1	\$0.2350		\$0.2253	\$0.2998	\$0.4247	\$0.4183	\$0.4717	\$0.5800	
2	\$0.4388		\$0.2980	\$0.1550	\$0.1449	\$0.1854	\$0.2550	\$0.3292	
3	\$0.4466		\$0.2361	\$0.1562	\$0.1127	\$0.1731	\$0.3132	\$0.3619	
4	\$0.5670		\$0.5227	\$0.1992	\$0.3027	\$0.1482	\$0.1603	\$0.2290	
5	\$0.6761		\$0.4751	\$0.2090	\$0.2529	\$0.1646	\$0.1544	\$0.2010	
6	\$0.7821		\$0.5457	\$0.3756	\$0.4137	\$0.2922	\$0.1537	\$0.1331	

Maximum Reservation Rates 2 /, 3 /		DELIVERY ZONE							
RECEIPT ZONE	0	L	1	2	3	4	5	6	
0	\$4.7973		\$9.9718	\$13.3966	\$13.6328	\$14.9749	\$15.8922	\$19.9267	
L		\$4.2644							
1	\$7.1973		\$6.9012	\$9.1680	\$12.9670	\$12.7712	\$14.3968	\$17.6917	
2	\$13.3967		\$9.1132	\$4.7632	\$4.4559	\$5.6878	\$7.8046	\$10.0606	
3	\$13.6328		\$7.2287	\$4.8013	\$3.4774	\$5.3154	\$9.5739	\$11.0553	
4	\$17.2959		\$15.9491	\$6.1082	\$9.2573	\$4.5563	\$4.9235	\$7.0128	
5	\$20.6135		\$14.4993	\$6.4051	\$7.7399	\$5.0562	\$4.7458	\$6.1635	
6	\$23.8383		\$16.6462	\$11.4718	\$12.6329	\$8.9377	\$4.7251	\$4.0968	

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of **\$0.0000**.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of **\$0.0488**.

RATES PER DEKATHERM

COMMODITY RATES
RATE SCHEDULE FOR FT-A

Base
Commodity Rates

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2286	\$0.2182	\$0.2597
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.1944	\$0.1983	\$0.2264
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0629	\$0.1009	\$0.1118
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0841	\$0.1164	\$0.1271
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0389	\$0.0550	\$0.0892
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0548	\$0.0543	\$0.0674
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0843	\$0.0457	\$0.0277

Minimum
Commodity Rates 1/, 2/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Maximum
Commodity Rates 1/, 2/, 3/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0051		\$0.0134	\$0.0196	\$0.0238	\$0.2305	\$0.2201	\$0.2616
L		\$0.0031						
1	\$0.0061		\$0.0100	\$0.0166	\$0.0198	\$0.1963	\$0.2002	\$0.2283
2	\$0.0186		\$0.0106	\$0.0031	\$0.0047	\$0.0648	\$0.1028	\$0.1137
3	\$0.0226		\$0.0188	\$0.0045	\$0.0021	\$0.0860	\$0.1183	\$0.1290
4	\$0.0269		\$0.0224	\$0.0106	\$0.0124	\$0.0408	\$0.0569	\$0.0911
5	\$0.0303		\$0.0275	\$0.0119	\$0.0137	\$0.0567	\$0.0562	\$0.0693
6	\$0.0365		\$0.0319	\$0.0162	\$0.0182	\$0.0862	\$0.0476	\$0.0296

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of **\$0.0019.**

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/ -----	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	0.61%		1.85%	2.81%	3.45%	4.14%	4.68%	5.31%
	L		0.32%						
	1	0.77%		1.35%	2.31%	2.85%	3.39%	4.08%	4.64%
	2	2.74%		1.44%	0.31%	0.56%	1.02%	1.74%	2.32%
	3	3.35%		2.78%	0.56%	0.17%	1.41%	2.00%	2.66%
	4	3.99%		3.15%	1.43%	1.70%	0.58%	0.88%	1.49%
	5	4.68%		4.08%	1.74%	2.03%	0.87%	0.86%	1.09%
	6	5.58%		4.85%	2.32%	2.66%	1.40%	0.69%	0.36%

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ 6.21%

EPCR 3/, 4/ -----	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.0034		\$0.0132	\$0.0204	\$0.0254	\$0.0307	\$0.0349	\$0.0419
	L		\$0.0011						
	1	\$0.0046		\$0.0093	\$0.0169	\$0.0207	\$0.0257	\$0.0315	\$0.0362
	2	\$0.0204		\$0.0099	\$0.0011	\$0.0030	\$0.0067	\$0.0122	\$0.0167
	3	\$0.0254		\$0.0207	\$0.0030	\$0.0000	\$0.0097	\$0.0144	\$0.0192
	4	\$0.0307		\$0.0238	\$0.0099	\$0.0120	\$0.0032	\$0.0055	\$0.0104
	5	\$0.0349		\$0.0315	\$0.0122	\$0.0144	\$0.0055	\$0.0054	\$0.0072
	6	\$0.0419		\$0.0362	\$0.0167	\$0.0192	\$0.0097	\$0.0041	\$0.0015

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ \$0.0515

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.13%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.13%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 5/ The incremental F&LR and EPCR set forth above are applicable to a Shipper(s) utilizing capacity on the Broad Run Expansion Project – Market Component facilities, from any receipt point(s) to any delivery point(s) located on the project's transportation path. Any service provided to a Shipper(s) outside the project's transportation path shall be subject to the greater of the incremental F&LR and EPCR for the project or the applicable F&LR and EPCR for the applicable receipt(s) and delivery point(s) as shown in the rate matrices above. Included in the above F&LR is the Losses component of the F&LR equal to 0.13%.

RATES PER DEKATHERM

FIRM STORAGE SERVICE
RATE SCHEDULE FS

Rate Schedule and Rate	=====			
	Base Tariff Rate	Max Tariff Rate	F&LR 2/, 3/	EPCR 2/

FIRM STORAGE SERVICE (FS) - PRODUCTION AREA				
=====				
Deliverability Rate	\$1.7426	\$1.7426 1/		
Space Rate	\$0.0177	\$0.0177 1/		
Injection Rate	\$0.0073	\$0.0073	1.62%	\$0.0000
Withdrawal Rate	\$0.0073	\$0.0073		
Overrun Rate	\$0.2091	\$0.2091 1/		
FIRM STORAGE SERVICE (FS) - MARKET AREA				
=====				
Deliverability Rate	\$1.2801	\$1.2801 1/		
Space Rate	\$0.0175	\$0.0175 1/		
Injection Rate	\$0.0087	\$0.0087	1.62%	\$0.0000
Withdrawal Rate	\$0.0087	\$0.0087		
Overrun Rate	\$0.1537	\$0.1537 1/		

Notes:

- 1/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.000.
- 2/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 3/ The applicable F&LR pursuant to Article XXXVII of the General Terms and Conditions, associated with Losses is equal to 0.03%.

Tennessee Gas Pipeline Company, L.L.C.
Settlement Rates effective November 1, 2022 - Base Reservation and Commodity
13.5 % Rate Reduction from the Appendix A-0 Rates

Line
No.

General System Transportation Services

Rate Schedule FT-A, FT-G, NET, NET-284

		Reservation							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
1	Zone 0	\$4.6943		\$9.8096	\$13.1952	\$13.4288	\$14.7555	\$15.6623	\$19.6507
2	Zone L		\$4.1674						
3	Zone 1	\$7.0668		\$6.7741	\$9.0149	\$12.7706	\$12.5770	\$14.1840	\$17.4413
4	Zone 2	\$13.1953		\$8.9608	\$4.6605	\$4.3567	\$5.5746	\$7.6672	\$9.8974
5	Zone 3	\$13.4288		\$7.0978	\$4.6982	\$3.3894	\$5.2064	\$9.4162	\$10.8807
6	Zone 4	\$17.0500		\$15.7186	\$5.9901	\$9.1033	\$4.4560	\$4.8190	\$6.8844
7	Zone 5	\$20.3297		\$14.2853	\$6.2836	\$7.6032	\$4.9501	\$4.6433	\$6.0448
8	Zone 6	\$23.5176		\$16.4078	\$11.2924	\$12.4403	\$8.7873	\$4.6228	\$4.0017
		Commodity							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
9	Zone 0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2260	\$0.2157	\$0.2567
10	Zone L		\$0.0012						
11	Zone 1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.1922	\$0.1960	\$0.2238
12	Zone 2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0622	\$0.0997	\$0.1105
13	Zone 3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0831	\$0.1150	\$0.1256
14	Zone 4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0385	\$0.0544	\$0.0881
15	Zone 5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0541	\$0.0536	\$0.0666
16	Zone 6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0833	\$0.0452	\$0.0274
		Min. Commodity							
		Delivery Zone							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
17	Zone 0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
18	Zone L		\$0.0012						
19	Zone 1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
20	Zone 2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
21	Zone 3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
22	Zone 4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
23	Zone 5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
24	Zone 6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020
		Rate Schedule FT-GS							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
25	Zone 0	\$0.2598		\$0.5469	\$0.7376	\$0.7538	\$1.0346	\$1.0739	\$1.3335
26	Zone L		\$0.2293						
27	Zone 1	\$0.3906		\$0.3778	\$0.5060	\$0.7145	\$0.8813	\$0.9732	\$1.1794
28	Zone 2	\$0.7368		\$0.4982	\$0.2564	\$0.2411	\$0.3676	\$0.5200	\$0.6528
29	Zone 3	\$0.7528		\$0.4028	\$0.2596	\$0.1859	\$0.3685	\$0.6310	\$0.7218
30	Zone 4	\$0.9548		\$0.8781	\$0.3354	\$0.5074	\$0.2826	\$0.3184	\$0.4655
31	Zone 5	\$1.1373		\$0.8038	\$0.3526	\$0.4264	\$0.3254	\$0.3082	\$0.3978
32	Zone 6	\$1.3171		\$0.9236	\$0.6305	\$0.6950	\$0.5648	\$0.2983	\$0.2467
		Rate Schedule IT, PTR and FT Overrun							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
33	Zone 0	\$0.1570		\$0.3320	\$0.4483	\$0.4595	\$0.7111	\$0.7306	\$0.9028
34	Zone L		\$0.1381						
35	Zone 1	\$0.2358		\$0.2293	\$0.3085	\$0.4346	\$0.6057	\$0.6623	\$0.7971
36	Zone 2	\$0.4476		\$0.3017	\$0.1542	\$0.1455	\$0.2455	\$0.3519	\$0.4360
37	Zone 3	\$0.4585		\$0.2473	\$0.1567	\$0.1116	\$0.2543	\$0.4247	\$0.4833
38	Zone 4	\$0.5810		\$0.5336	\$0.2041	\$0.3079	\$0.1849	\$0.2129	\$0.3145
39	Zone 5	\$0.6917		\$0.4907	\$0.2147	\$0.2597	\$0.2169	\$0.2063	\$0.2655
40	Zone 6	\$0.8016		\$0.5641	\$0.3830	\$0.4224	\$0.3722	\$0.1970	\$0.1590

Tennessee Gas Pipeline Company, L.L.C.
Settlement Rates effective November 1, 2022 - Base Reservation and Commodity
13.5 % Rate Reduction from the Appendix A-0 Rates

Line
No.

Rate Schedule FT-BH

		Reservation							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
1	Zone 0	\$2.3471							
2	Zone L		\$2.0837						
3	Zone 1	\$3.5334		\$3.3870					
4	Zone 2	\$6.5977		\$4.4804	\$2.3302				
5	Zone 3	\$6.7144		\$3.5490	\$2.3492	\$1.6947			
6	Zone 4	\$8.5250		\$7.8593	\$2.9951	\$4.5517	\$2.2279		
7	Zone 5	\$10.1648		\$7.1427	\$3.1418	\$3.8016	\$2.4750	\$2.3217	
8	Zone 6	\$11.7587		\$8.2038	\$5.6463	\$6.2200	\$4.3937	\$2.3115	\$2.0009
		Commodity							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
9	Zone 0	\$0.0413							
10	Zone L		\$0.0353						
11	Zone 1	\$0.0616		\$0.0624					
12	Zone 2	\$0.1222		\$0.0808	\$0.0393				
13	Zone 3	\$0.1274		\$0.0722	\$0.0407	\$0.0280			
14	Zone 4	\$0.1607		\$0.1460	\$0.0564	\$0.0834	\$0.0751		
15	Zone 5	\$0.1905		\$0.1385	\$0.0599	\$0.0721	\$0.0948	\$0.0919	
16	Zone 6	\$0.2218		\$0.1595	\$0.1045	\$0.1157	\$0.1555	\$0.0830	\$0.0603

Rate Schedule FT-A EDS/ERS (Extended Delivery/Receipt)

		Reservation							
		Zone 0	Zone L	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
17	Zone 0			\$0.3226	\$0.4338	\$0.4415	\$0.4851	\$0.5149	\$0.6461
18	Zone L								
19	Zone 1	\$0.2323			\$0.2964	\$0.4199	\$0.4135	\$0.4663	\$0.5733
20	Zone 2	\$0.4338		\$0.2946		\$0.1432	\$0.1833	\$0.2521	\$0.3254
21	Zone 3	\$0.4415		\$0.2334	\$0.1545		\$0.1712	\$0.3097	\$0.3577
22	Zone 4	\$0.5605		\$0.5168	\$0.1969	\$0.2993		\$0.1585	\$0.2263
23	Zone 5	\$0.6683		\$0.4697	\$0.2065	\$0.2500	\$0.1628		\$0.1988
24	Zone 6	\$0.7732		\$0.5394	\$0.3713	\$0.4090	\$0.2888	\$0.1520	

Rate Schedule PAL

		Commodity	Overrun
25	PAL (Daily)	\$0.3361	\$0.3361
26	PAL (Term)	\$0.3361	\$0.3361

Incremental Transportation Services

		Reservation	Commodity	Overrun	Min. Comm.	
27	Stagecoach - CP00-65	FT-A	\$3.1595	\$0.0000	\$0.1039	\$0.0000
28	ConneXion NY/NJ - CP05-355	FT-A	\$8.8797	\$0.0000	\$0.2919	\$0.0000
29	Concord - CP08-65	FT-A	\$10.4720	\$0.0000	\$0.3443	\$0.0000
30	Tewksbury - CP04-60	FT-IL	\$5.2899	\$0.0000	\$0.1740	\$0.0000
31	300 Line Market - CP09-444	FT-A	\$22.1379	\$0.0000	\$0.7278	\$0.0000
32	NSD - CP11-30	FT-A	\$5.3595	\$0.0000	\$0.1762	\$0.0000
33	Northampton - CP11-36	FT-A	\$23.8826	\$0.0000	\$0.7852	\$0.0000
34	NEUP - CP11-161	FT-A	\$7.6505	\$0.0000	\$0.2515	\$0.0000
35	Niagara Expansion - CP14-88	FT-A	\$8.6167	\$0.0000	\$0.2833	\$0.0000
36	Connecticut Expansion - CP14-529	FT-A	\$16.7541	\$0.0666	\$0.6174	\$0.0066
37	Broad Run Expansion Project - CP15-77	FT-A	\$25.8763	\$0.0336	\$0.8798	\$0.0336
38	Susquehanna West Project - CP15-148	FT-A	\$14.8083	\$0.0385	\$0.5253	\$0.0028
39	Triad Expansion Project - CP 15-520	FT-A	\$6.5128	\$0.0385	\$0.2526	\$0.0028
40	Orion Project - CP 16-4	FT-A	\$14.2905	\$0.0385	\$0.5083	\$0.0028

Storage Services

		Deliverability	Space	Inj/With	Overrun
41	FS - PA [1]	\$1.7226	\$0.0175	\$0.0073	\$0.2067
42	FS - MA	\$1.2655	\$0.0173	\$0.0087	\$0.1519
43	IS - PA		\$0.0863	\$0.0073	
44	IS - MA		\$0.0695	\$0.0087	

Notes:

[1] The Rate Schedule FS-PA Rates set forth herein do not include the impact of the Bear Creek Proceeding, if any.

Winter Period Re-Entry Surcharge Calculation
 (Applicable to Capacity Assigned Customers Returning to Sales Service)

Line	Item	HLF (50, 51, 52)	LLF (40, 41, 42)	Weighted Average	Reference
1	Winter Demand Cost of Gas Rate	\$ 0.1995	\$ 0.3081	\$ 0.2913	No Change from Page 3 - Lines 79 and 99 of CAK-13
2	Winter Commodity Cost of Gas Rate	\$ 0.9082	\$ 0.8888	\$ 0.8918	No Change from Page 3 - Lines 85 and 105 of CAK-13
3	Winter Indirect Cost of Gas	\$ 0.0236	\$ 0.0236	\$ 0.0236	Prior Period Over Collection removed from Page 3, Lines 87 and 107 of CAK-13
4	Winter Cost of Gas Rate (Exclusive of Credits)	\$ 1.1313	\$ 1.2205	\$ 1.2067	Sum Lines 1 through 3
5	Winter Cost of Gas Rate for Incumbent Sales Customers	\$ 1.0604	\$ 1.1496	\$ 1.1358	Page 3 - Lines 72 and 92 of CAK-13
6	Winter Re-Entry Surcharge	\$ 0.0709	\$ 0.0709	\$ 0.0709	Positive Difference between Line 4 and Line 5
7	Projected Sales (therms)	2,898,272	15,802,392	18,700,664	Page 3 - Lines 85 and 105 of Summary

Summer Period Re-Entry Surcharge & Conversion Surcharge Calculation
 (Applicable to Capacity Assigned & Capacity Exempt Customers Returning to Sales Service)

Line	Item	HLF (50, 51, 52)	LLF (40, 41, 42)	Weighted Average	Reference
8	Summer Demand Cost of Gas Rate	\$ 0.1099	\$ 0.2151	\$ 0.1988	No Change from Page 7 - Lines 188 and 208 of CAK-13
9	Summer Commodity Cost of Gas Rate	\$ 0.4989	\$ 0.4989	\$ 0.4989	No Change from Page 7 - Lines 194 and 214 of Summary
10	Summer Indirect Cost of Gas	\$ 0.0254	\$ 0.0254	\$ 0.0254	No Change from Page 7 - Lines 196 and 216 of Summary
11	Summer Cost of Gas Rate (Exclusive of Credits)	\$ 0.6342	\$ 0.7394	\$ 0.7231	Sum Lines 8 through 10
12	Summer Cost of Gas Rate for Incumbent Sales Customers	\$ 0.6342	\$ 0.7394	\$ 0.7231	Page 7 - Lines 181 and 201 of CAK-13
13	Summer Re-Entry Surcharge	\$ -	\$ -	\$ -	Positive Difference between Line 11 and Line 12
14	Projected Sales (therms)	2,206,001	2,770,809	4,976,810	Page 7 - Lines 193 and 213 of CAK-13

Winter Period Conversion Surcharge Calculation
 (Applicable to Capacity Exempt Customers Returning to Sales Service)

Line	Item	HLF (50, 51, 52)	LLF (40, 41, 42)	
1	LLF Winter Demand Cost of Gas Rate	\$ 0.3081	\$ 0.3081	No Change from Page 3 - Lines 79 and 99 of CAK-13
2	LLF Winter Commodity Cost of Gas Rate	\$ 0.8888	\$ 0.8888	No Change from Page 3 - Lines 85 and 105 of CAK-13
3	LLF Winter Indirect Cost of Gas	\$ 0.0236	\$ 0.0236	Prior Period Over Collection removed from Page 3, Lines 87 and 107 of CAK-13
4	Floor Price (LLF Winter Cost of Gas Rate, Exclusive of Credits)	\$ 1.2205	\$ 1.2205	Sum Lines 1 through 3.
5	Total Incremental Cost	\$ 2.7025	\$ 2.7025	See Line 15 of Incremental Commodity Price Worksheet
6	Total Conversion Rate	\$ 2.7025	\$ 2.7025	Maximum of Line 4 and Line 5
7	Winter Gas Adjustment Factor for Incumbent Sales Customers	\$ 1.0604	\$ 1.1496	Page 3 - Lines 85 and 105 of Summary
8	Conversion Surcharge	\$ 1.6421	\$ 1.5529	Positive Difference between Line 6 and Line 7

Incremental Commodity Price Worksheet
 Based on 9/7/2022 NYMEX and Algonquin Basis Settlement Prices

Line	Month	9/7/2022 NYMEX Settlement	Projected PNGTS Delivered Basis (9/7/2022 Algonquin Basis plus \$0.75 per Dth)	Projected FOM Index	Projected Non-Capacity Assigned Delivery Service Loads	Comments
1	Nov-22	\$ 7.901	\$ 6.015	\$ 13.916	220,579	
2	Dec-22	\$ 8.035	\$ 22.390	\$ 30.425	223,362	
3	Jan-23	\$ 8.115	\$ 33.423	\$ 41.538	238,274	
4	Feb-23	\$ 7.818	\$ 32.763	\$ 40.581	225,418	
5	Mar-23	\$ 6.705	\$ 10.908	\$ 17.613	235,373	
6	Apr-23	\$ 5.352	\$ 2.035	\$ 7.387	208,662	
7	Winter Period Weigthed Average Baseload Price (\$/Dth)			\$ 25.596	1,351,668	Average, Weighted by Loads, Lines 1 through 6
8	Load Shape Price Factor			1.034		See Load Shape Price Factor Worksheet
9	Winter Period Incremental Load Shape Price (\$/Dth)			\$ 26.466		Line 7 times Line 8
10	Granite Fuel			0.35%		Granite Tariff
11	Granite Variable Transport (\$/Dth)			\$ 0.2039		Granite Tariff (IT Daily Rate plus ACA)
12	Northern City-Gate Price (\$/Dth)			\$ 26.763		Line 9 times (1 plus Line 10) plus Line 11
13	New Hampshire Division City-Gate Sendout to Sales Ratio			1.0098		See Att 2 to Sch 10B
14	Northern Retail Meter Price (\$/Dth)			\$ 27.025		Line 12 times Line 13
15	Northern Retail Meter Price (\$/therm)			\$ 2.7025		Line 14 divided by 10

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Nov-21	11/1/2021	7,747	5,075	12,822	7,747	-	7,747	\$ 4.905	\$ 37,999
Nov-21	11/2/2021	8,208	5,480	13,688	8,208	-	8,208	\$ 5.220	\$ 42,846
Nov-21	11/3/2021	8,807	6,672	15,479	8,807	-	8,807	\$ 5.715	\$ 50,332
Nov-21	11/4/2021	8,370	6,728	15,098	8,370	-	8,370	\$ 6.020	\$ 50,387
Nov-21	11/5/2021	8,202	6,786	14,988	8,202	-	8,202	\$ 5.750	\$ 47,162
Nov-21	11/6/2021	6,075	6,250	12,325	6,075	-	6,075	\$ 5.210	\$ 31,651
Nov-21	11/7/2021	5,728	6,078	11,806	5,728	-	5,728	\$ 5.210	\$ 29,843
Nov-21	11/8/2021	7,946	5,706	13,652	7,946	-	7,946	\$ 5.210	\$ 41,399
Nov-21	11/9/2021	7,659	4,385	12,044	7,659	-	7,659	\$ 4.920	\$ 37,682
Nov-21	11/10/2021	8,130	6,319	14,449	8,130	-	8,130	\$ 4.605	\$ 37,439
Nov-21	11/11/2021	7,419	5,269	12,688	7,419	-	7,419	\$ 4.135	\$ 30,678
Nov-21	11/12/2021	6,777	5,076	11,853	6,777	-	6,777	\$ 4.215	\$ 28,565
Nov-21	11/13/2021	6,196	5,240	11,436	6,196	-	6,196	\$ 5.170	\$ 32,033
Nov-21	11/14/2021	5,062	5,611	10,673	5,062	-	5,062	\$ 5.170	\$ 26,171
Nov-21	11/15/2021	7,722	7,068	14,790	7,722	-	7,722	\$ 5.170	\$ 39,923
Nov-21	11/16/2021	8,675	7,231	15,906	8,675	-	8,675	\$ 5.070	\$ 43,982
Nov-21	11/17/2021	8,025	6,341	14,366	8,025	-	8,025	\$ 4.900	\$ 39,323
Nov-21	11/18/2021	7,215	4,943	12,158	7,215	-	7,215	\$ 4.555	\$ 32,864
Nov-21	11/19/2021	8,253	6,747	15,000	8,253	-	8,253	\$ 5.035	\$ 41,554
Nov-21	11/20/2021	7,674	6,383	14,057	7,674	-	7,674	\$ 4.920	\$ 37,756
Nov-21	11/21/2021	4,879	5,187	10,066	4,879	-	4,879	\$ 4.920	\$ 24,005
Nov-21	11/22/2021	7,936	7,081	15,017	7,936	-	7,936	\$ 4.920	\$ 39,045
Nov-21	11/23/2021	9,152	8,841	17,993	9,152	-	9,152	\$ 9.640	\$ 88,225
Nov-21	11/24/2021	6,701	7,737	14,438	6,701	-	6,701	\$ 5.560	\$ 37,258
Nov-21	11/25/2021	4,122	5,507	9,629	4,122	-	4,122	\$ 6.885	\$ 28,380
Nov-21	11/26/2021	4,688	7,023	11,711	4,688	-	4,688	\$ 6.885	\$ 32,277
Nov-21	11/27/2021	5,370	8,055	13,425	5,370	-	5,370	\$ 6.885	\$ 36,972
Nov-21	11/28/2021	6,146	7,534	13,680	6,146	-	6,146	\$ 6.885	\$ 42,315
Nov-21	11/29/2021	9,118	8,653	17,771	9,118	-	9,118	\$ 6.885	\$ 62,777

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Nov-21	11/30/2021	7,822	8,001	15,823	7,822	-	7,822	\$ 8.325	\$ 65,118
Dec-21	12/1/2021	6,307	7,529	13,836	6,307	-	6,307	\$ 7.855	\$ 49,541
Dec-21	12/2/2021	6,030	6,310	12,340	6,030	-	6,030	\$ 4.925	\$ 29,698
Dec-21	12/3/2021	6,370	8,479	14,849	6,370	-	6,370	\$ 7.745	\$ 49,336
Dec-21	12/4/2021	5,568	7,306	12,874	5,568	-	5,568	\$ 4.925	\$ 27,422
Dec-21	12/5/2021	5,329	6,431	11,760	5,329	-	5,329	\$ 4.925	\$ 26,245
Dec-21	12/6/2021	5,504	5,836	11,340	5,504	-	5,504	\$ 4.925	\$ 27,107
Dec-21	12/7/2021	6,865	8,173	15,038	6,865	-	6,865	\$ 7.565	\$ 51,934
Dec-21	12/8/2021	7,116	9,339	16,455	7,116	-	7,116	\$ 12.140	\$ 86,388
Dec-21	12/9/2021	7,254	8,743	15,997	7,254	-	7,254	\$ 8.615	\$ 62,493
Dec-21	12/10/2021	5,968	7,171	13,139	5,968	-	5,968	\$ 3.710	\$ 22,141
Dec-21	12/11/2021	4,591	5,337	9,928	4,591	-	4,591	\$ 3.885	\$ 17,836
Dec-21	12/12/2021	5,480	6,861	12,341	5,480	-	5,480	\$ 3.885	\$ 21,290
Dec-21	12/13/2021	5,956	6,419	12,375	5,956	-	5,956	\$ 3.885	\$ 23,139
Dec-21	12/14/2021	6,508	7,826	14,334	6,508	-	6,508	\$ 4.550	\$ 29,611
Dec-21	12/15/2021	5,679	7,217	12,896	5,679	-	5,679	\$ 3.520	\$ 19,990
Dec-21	12/16/2021	5,452	5,515	10,967	5,452	-	5,452	\$ 3.510	\$ 19,137
Dec-21	12/17/2021	5,123	6,091	11,214	5,123	-	5,123	\$ 3.860	\$ 19,775
Dec-21	12/18/2021	5,105	7,539	12,644	5,105	-	5,105	\$ 28.060	\$ 143,246
Dec-21	12/19/2021	5,966	9,136	15,102	5,966	-	5,966	\$ 28.060	\$ 167,406
Dec-21	12/20/2021	5,851	8,797	14,648	5,851	-	5,851	\$ 28.060	\$ 164,179
Dec-21	12/21/2021	5,708	8,133	13,841	5,708	-	5,708	\$ 7.660	\$ 43,723
Dec-21	12/22/2021	5,703	8,515	14,218	5,703	-	5,703	\$ 9.950	\$ 56,745
Dec-21	12/23/2021	5,692	9,461	15,153	5,692	-	5,692	\$ 14.580	\$ 82,989
Dec-21	12/24/2021	5,245	8,511	13,756	5,245	-	5,245	\$ 7.335	\$ 38,472
Dec-21	12/25/2021	4,767	7,724	12,491	4,767	-	4,767	\$ 7.335	\$ 34,966
Dec-21	12/26/2021	5,226	8,114	13,340	5,226	-	5,226	\$ 7.335	\$ 38,333
Dec-21	12/27/2021	7,936	8,269	16,205	7,936	-	7,936	\$ 7.335	\$ 58,211
Dec-21	12/28/2021	7,734	7,483	15,217	7,734	-	7,734	\$ 4.600	\$ 35,576

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Dec-21	12/29/2021	7,064	7,451	14,515	7,064	-	7,064	\$ 4.115	\$ 29,068
Dec-21	12/30/2021	6,402	7,325	13,727	6,402	-	6,402	\$ 3.780	\$ 24,200
Dec-21	12/31/2021	4,093	6,467	10,560	4,093	-	4,093	\$ 3.780	\$ 15,472
Jan-22	1/1/2022	3,804	6,170	9,974	3,804	-	3,804	\$ 5.490	\$ 20,884
Jan-22	1/2/2022	4,505	7,825	12,330	4,505	-	4,505	\$ 5.490	\$ 24,732
Jan-22	1/3/2022	7,250	10,346	17,596	7,250	-	7,250	\$ 5.490	\$ 39,803
Jan-22	1/4/2022	7,734	9,368	17,102	7,734	-	7,734	\$ 10.570	\$ 81,748
Jan-22	1/5/2022	7,250	7,747	14,997	7,250	-	7,250	\$ 6.950	\$ 50,388
Jan-22	1/6/2022	6,610	8,117	14,727	6,610	-	6,610	\$ 11.560	\$ 76,412
Jan-22	1/7/2022	7,236	9,640	16,876	7,236	-	7,236	\$ 23.115	\$ 167,260
Jan-22	1/8/2022	6,595	9,377	15,972	6,595	-	6,595	\$ 21.960	\$ 144,826
Jan-22	1/9/2022	5,468	8,012	13,480	5,468	-	5,468	\$ 21.960	\$ 120,077
Jan-22	1/10/2022	8,385	11,091	19,476	8,385	-	8,385	\$ 21.960	\$ 184,135
Jan-22	1/11/2022	9,119	12,288	21,407	9,119	-	9,119	\$ 20.120	\$ 183,474
Jan-22	1/12/2022	8,220	8,273	16,493	8,220	-	8,220	\$ 16.330	\$ 134,233
Jan-22	1/13/2022	7,918	7,723	15,641	7,918	-	7,918	\$ 18.960	\$ 150,125
Jan-22	1/14/2022	8,135	10,300	18,435	8,135	-	8,135	\$ 25.000	\$ 203,375
Jan-22	1/15/2022	8,251	12,276	20,527	8,251	-	8,251	\$ 26.940	\$ 222,282
Jan-22	1/16/2022	5,767	8,886	14,653	5,767	-	5,767	\$ 26.940	\$ 155,363
Jan-22	1/17/2022	7,365	7,920	15,285	7,365	-	7,365	\$ 26.940	\$ 198,413
Jan-22	1/18/2022	8,985	11,048	20,033	8,985	-	8,985	\$ 26.940	\$ 242,056
Jan-22	1/19/2022	8,122	7,457	15,579	8,122	-	8,122	\$ 14.985	\$ 121,708
Jan-22	1/20/2022	8,748	10,964	19,712	8,748	-	8,748	\$ 22.690	\$ 198,492
Jan-22	1/21/2022	8,525	11,252	19,777	8,525	-	8,525	\$ 21.635	\$ 184,438
Jan-22	1/22/2022	6,124	10,000	16,124	6,124	-	6,124	\$ 21.595	\$ 132,248
Jan-22	1/23/2022	5,764	8,751	14,515	5,764	-	5,764	\$ 21.595	\$ 124,474
Jan-22	1/24/2022	7,988	8,990	16,978	7,988	-	7,988	\$ 21.595	\$ 172,501
Jan-22	1/25/2022	8,035	9,636	17,671	8,035	-	8,035	\$ 20.730	\$ 166,566
Jan-22	1/26/2022	8,701	11,863	20,564	8,701	-	8,701	\$ 24.615	\$ 214,175

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Jan-22	1/27/2022	8,954	9,775	18,729	8,954	-	8,954	\$ 20.710	\$ 185,437
Jan-22	1/28/2022	8,096	8,763	16,859	8,096	-	8,096	\$ 23.380	\$ 189,284
Jan-22	1/29/2022	5,603	11,809	17,412	5,603	-	5,603	\$ 27.930	\$ 156,492
Jan-22	1/30/2022	6,530	11,244	17,774	6,530	-	6,530	\$ 27.930	\$ 182,383
Jan-22	1/31/2022	8,638	10,676	19,314	8,638	-	8,638	\$ 27.930	\$ 241,259
Feb-22	2/1/2022	9,105	8,774	17,879	9,105	-	9,105	\$ 22.655	\$ 206,274
Feb-22	2/2/2022	7,959	7,198	15,157	7,959	-	7,959	\$ 12.630	\$ 100,522
Feb-22	2/3/2022	7,711	7,191	14,902	7,711	-	7,711	\$ 14.860	\$ 114,585
Feb-22	2/4/2022	8,677	10,004	18,681	8,677	-	8,677	\$ 22.805	\$ 197,879
Feb-22	2/5/2022	8,732	11,083	19,815	8,732	-	8,732	\$ 21.335	\$ 186,297
Feb-22	2/6/2022	8,664	9,508	18,172	8,664	-	8,664	\$ 21.335	\$ 184,846
Feb-22	2/7/2022	7,917	7,718	15,635	7,917	-	7,917	\$ 21.335	\$ 168,909
Feb-22	2/8/2022	8,413	7,992	16,405	8,413	-	8,413	\$ 11.990	\$ 100,872
Feb-22	2/9/2022	8,038	8,024	16,062	8,038	-	8,038	\$ 10.825	\$ 87,011
Feb-22	2/10/2022	7,301	7,173	14,474	7,301	-	7,301	\$ 8.325	\$ 60,781
Feb-22	2/11/2022	6,719	5,915	12,634	6,719	-	6,719	\$ 4.210	\$ 28,287
Feb-22	2/12/2022	6,908	6,654	13,562	6,908	-	6,908	\$ 14.550	\$ 100,511
Feb-22	2/13/2022	6,006	9,557	15,563	6,006	-	6,006	\$ 14.550	\$ 87,387
Feb-22	2/14/2022	9,021	11,766	20,787	9,021	-	9,021	\$ 14.550	\$ 131,256
Feb-22	2/15/2022	9,167	10,562	19,729	9,167	-	9,167	\$ 22.475	\$ 206,028
Feb-22	2/16/2022	7,341	6,812	14,153	7,341	-	7,341	\$ 4.685	\$ 34,393
Feb-22	2/17/2022	6,363	4,104	10,467	6,363	-	6,363	\$ 4.130	\$ 26,279
Feb-22	2/18/2022	8,065	9,263	17,328	8,065	-	8,065	\$ 8.165	\$ 65,851
Feb-22	2/19/2022	8,522	9,573	18,095	8,522	-	8,522	\$ 9.665	\$ 82,365
Feb-22	2/20/2022	6,068	8,464	14,532	6,068	-	6,068	\$ 9.665	\$ 58,647
Feb-22	2/21/2022	7,194	6,822	14,016	7,194	-	7,194	\$ 9.665	\$ 69,530
Feb-22	2/22/2022	6,859	5,783	12,642	6,859	-	6,859	\$ 9.665	\$ 66,292
Feb-22	2/23/2022	6,954	7,880	14,834	6,954	-	6,954	\$ 4.695	\$ 32,649
Feb-22	2/24/2022	8,107	9,357	17,464	8,107	-	8,107	\$ 15.085	\$ 122,294

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Feb-22	2/25/2022	7,689	10,726	18,415	7,689	-	7,689	\$ 23.745	\$ 182,575
Feb-22	2/26/2022	7,217	9,006	16,223	7,217	-	7,217	\$ 23.390	\$ 168,806
Feb-22	2/27/2022	5,968	9,573	15,541	5,968	-	5,968	\$ 23.390	\$ 139,592
Feb-22	2/28/2022	8,372	10,951	19,323	8,372	-	8,372	\$ 23.390	\$ 195,821
Mar-22	3/1/2022	8,227	8,197	16,424	8,227	-	8,227	\$ 7.930	\$ 65,240
Mar-22	3/2/2022	8,112	8,428	16,540	8,112	-	8,112	\$ 5.065	\$ 41,087
Mar-22	3/3/2022	9,120	10,282	19,402	9,120	-	9,120	\$ 21.545	\$ 196,490
Mar-22	3/4/2022	8,705	9,003	17,708	8,705	-	8,705	\$ 15.375	\$ 133,839
Mar-22	3/5/2022	7,283	6,954	14,237	7,283	-	7,283	\$ 4.730	\$ 34,449
Mar-22	3/6/2022	5,543	4,567	10,110	5,543	-	5,543	\$ 4.730	\$ 26,218
Mar-22	3/7/2022	7,112	6,592	13,704	7,112	-	7,112	\$ 4.730	\$ 33,640
Mar-22	3/8/2022	8,160	8,170	16,330	8,160	-	8,160	\$ 4.850	\$ 39,576
Mar-22	3/9/2022	8,096	8,172	16,268	8,096	-	8,096	\$ 5.295	\$ 42,868
Mar-22	3/10/2022	7,806	6,836	14,642	7,806	-	7,806	\$ 4.605	\$ 35,947
Mar-22	3/11/2022	6,697	6,088	12,785	6,697	-	6,697	\$ 4.590	\$ 30,739
Mar-22	3/12/2022	7,042	8,409	15,451	7,042	-	7,042	\$ 7.610	\$ 53,590
Mar-22	3/13/2022	6,062	8,205	14,267	6,062	-	6,062	\$ 7.610	\$ 46,132
Mar-22	3/14/2022	7,860	6,435	14,295	7,860	-	7,860	\$ 7.610	\$ 59,815
Mar-22	3/15/2022	7,885	6,420	14,305	7,885	-	7,885	\$ 4.400	\$ 34,694
Mar-22	3/16/2022	7,360	6,506	13,866	7,360	-	7,360	\$ 3.980	\$ 29,293
Mar-22	3/17/2022	6,943	5,410	12,353	6,943	-	6,943	\$ 4.005	\$ 27,807
Mar-22	3/18/2022	6,497	4,423	10,920	6,497	-	6,497	\$ 4.010	\$ 26,053
Mar-22	3/19/2022	6,157	5,568	11,725	6,157	-	6,157	\$ 4.030	\$ 24,813
Mar-22	3/20/2022	4,892	5,242	10,134	4,892	-	4,892	\$ 4.030	\$ 19,715
Mar-22	3/21/2022	8,035	6,567	14,602	8,035	-	8,035	\$ 4.030	\$ 32,381
Mar-22	3/22/2022	8,194	7,618	15,812	8,194	-	8,194	\$ 4.645	\$ 38,061
Mar-22	3/23/2022	7,606	6,677	14,283	7,606	-	7,606	\$ 4.985	\$ 37,916
Mar-22	3/24/2022	7,575	7,026	14,601	7,575	-	7,575	\$ 4.955	\$ 37,534
Mar-22	3/25/2022	6,686	5,029	11,715	6,686	-	6,686	\$ 4.655	\$ 31,123

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Mar-22	3/26/2022	6,366	5,505	11,871	6,366	-	6,366	\$ 8.615	\$ 54,843
Mar-22	3/27/2022	5,985	7,160	13,145	5,985	-	5,985	\$ 8.615	\$ 51,561
Mar-22	3/28/2022	9,156	9,808	18,964	9,156	-	9,156	\$ 8.615	\$ 78,879
Mar-22	3/29/2022	9,147	8,530	17,677	9,147	-	9,147	\$ 12.725	\$ 116,396
Mar-22	3/30/2022	7,774	6,388	14,162	7,774	-	7,774	\$ 5.525	\$ 42,951
Mar-22	3/31/2022	6,894	4,868	11,762	6,894	-	6,894	\$ 4.790	\$ 33,022
Apr-22	4/1/2022	7,208	5,719	12,927	7,208	-	7,208	\$ 5.465	\$ 39,392
Apr-22	4/2/2022	7,240	5,740	12,980	7,240	-	7,240	\$ 5.375	\$ 38,915
Apr-22	4/3/2022	5,954	6,179	12,133	5,954	-	5,954	\$ 5.375	\$ 32,003
Apr-22	4/4/2022	7,517	5,930	13,447	7,517	-	7,517	\$ 5.375	\$ 40,404
Apr-22	4/5/2022	7,661	5,912	13,573	7,661	-	7,661	\$ 5.515	\$ 42,250
Apr-22	4/6/2022	7,624	6,058	13,682	7,624	-	7,624	\$ 5.875	\$ 44,791
Apr-22	4/7/2022	6,910	6,060	12,970	6,910	-	6,910	\$ 6.385	\$ 44,120
Apr-22	4/8/2022	6,620	5,102	11,722	6,620	-	6,620	\$ 5.890	\$ 38,992
Apr-22	4/9/2022	6,541	5,489	12,030	6,541	-	6,541	\$ 6.085	\$ 39,802
Apr-22	4/10/2022	6,804	5,673	12,477	6,804	-	6,804	\$ 6.085	\$ 41,402
Apr-22	4/11/2022	6,883	4,857	11,740	6,883	-	6,883	\$ 6.085	\$ 41,883
Apr-22	4/12/2022	7,146	4,856	12,002	7,146	-	7,146	\$ 6.000	\$ 42,876
Apr-22	4/13/2022	6,905	5,247	12,152	6,905	-	6,905	\$ 6.135	\$ 42,362
Apr-22	4/14/2022	6,648	5,859	12,507	6,648	-	6,648	\$ 6.285	\$ 41,783
Apr-22	4/15/2022	5,987	3,488	9,475	5,987	-	5,987	\$ 6.935	\$ 41,520
Apr-22	4/16/2022	6,106	4,833	10,939	6,106	-	6,106	\$ 6.935	\$ 42,345
Apr-22	4/17/2022	4,935	5,958	10,893	4,935	-	4,935	\$ 6.935	\$ 34,224
Apr-22	4/18/2022	6,938	6,102	13,040	6,938	-	6,938	\$ 6.935	\$ 48,115
Apr-22	4/19/2022	7,550	6,091	13,641	7,550	-	7,550	\$ 7.790	\$ 58,815
Apr-22	4/20/2022	8,072	6,114	14,186	8,072	-	8,072	\$ 7.745	\$ 62,518
Apr-22	4/21/2022	7,329	4,941	12,270	7,329	-	7,329	\$ 6.665	\$ 48,848
Apr-22	4/22/2022	7,180	4,899	12,079	7,180	-	7,180	\$ 7.290	\$ 52,342
Apr-22	4/23/2022	5,932	4,676	10,608	5,932	-	5,932	\$ 5.950	\$ 35,295

Load Shape Price Factor Worksheet

Month	Date	Historic Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment			2021-2022 Cost Analysis	
		Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total	AGT City-Gate Price	AGT City-Gate Cost
Apr-22	4/24/2022	4,958	5,177	10,135	4,958	-	4,958	\$ 5.950	\$ 29,500
Apr-22	4/25/2022	7,636	5,540	13,176	7,636	-	7,636	\$ 5.950	\$ 45,434
Apr-22	4/26/2022	7,703	5,029	12,732	7,703	-	7,703	\$ 7.800	\$ 60,083
Apr-22	4/27/2022	7,874	6,286	14,160	7,874	-	7,874	\$ 6.795	\$ 53,504
Apr-22	4/28/2022	8,463	6,031	14,494	8,463	-	8,463	\$ 10.210	\$ 86,407
Apr-22	4/29/2022	7,079	5,256	12,335	7,079	-	7,079	\$ 6.440	\$ 45,589
Apr-22	4/30/2022	5,637	4,764	10,401	5,637	-	5,637	\$ 6.440	\$ 36,302
Winter Period		1,278,915	1,340,484	2,619,399	1,278,915	-	1,278,915	\$ 10.568	\$ 13,515,702
								Weighted Average Daily Price	\$ 10.568
								Straight Average Daily Price	\$ 10.225
								Load Shape Price Factor	1.034

Month	Projected Delivery Service Loads			Delivery Service Loads Not Subject to Capacity Assignment		
	Capacity Exempt	Capacity Assigned	Total	Capacity Exempt	Capacity Assigned	Total
Nov-22	220,579	206,384	426,963	220,579	-	220,579
Dec-22	223,362	231,875	455,237	223,362	-	223,362
Jan-23	238,274	258,865	497,139	238,274	-	238,274
Feb-23	225,418	238,518	463,936	225,418	-	225,418
Mar-23	235,373	243,228	478,601	235,373	-	235,373
Apr-23	208,662	198,649	407,311	208,662	-	208,662
Winter	1,351,668	1,377,519	2,729,187	1,351,668	-	1,351,668

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Northern Utilities, Inc.
New Hampshire Division
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Estimated Delivered City-Gate Commodity Costs and Volumes November 2022 through April 2023			
Denotes Confidential Information			
Supply Source	Delivered City-Gate Costs	Delivered City-Gate Volumes	Delivered Cost per Dth
Tennessee Niagara Pipeline Path		332,235	
TGP Zone 4 300 Leg Supply		182,425	
Tennessee Storage		207,347	
Leidy Hub		143,888	
Dawn Supply		2,134,481	
Union Dawn Storage		3,140,246	
Peaking Contract 1		168,181	
Tennessee Zone 0		490,250	
Tennessee Zone L		910,327	
Atlantic Bridge Ramapo Pipeline Path		1,070,796	
Transco Zone 6, non-NY		43,186	
Iroquois Receipts Pipeline Path		944,757	
Texas Eastern Zone M-3		1,827	
Lewiston LNG		40,260	
Peaking Contract 2		59,995	
Total Delivered Commodity Cost	\$87,699,220	9,870,201	\$8.885

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Northern Utilities, Inc.
New Hampshire Division
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Estimated Delivered City-Gate Commodity Costs and Volumes May 2023 through October 2023			
Denotes Confidential Information			
Supply Source	Delivered City-Gate Costs	Delivered City-Gate Volumes	Delivered Cost per Dth
TGP Zone 4 300 Leg Supply		396,232	
Atlantic Bridge Ramapo Pipeline Path		1,088,544	
Tennessee Niagara Pipeline Path		337,742	
Dawn Supply		900,712	
Lewiston LNG		11,040	
Total Delivered Commodity Cost	\$13,507,267	2,734,270	\$4.940

Northern Utilities, Inc.
Normal Year Weather - Sales Service Load
Commodity Volumes by Supply Source (Dth)
November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter
Pipeline Supplies													
Tennessee Long-Haul Pipeline Path	149,475	320,530	320,530	289,511	320,530	0	0	0	0	0	0	0	1,400,577
Algonquin Receipts Pipeline Path	37,530	38,781	38,781	35,028	38,781	0	0	0	0	0	0	0	188,901
Iroquois Receipts Pipeline Path	187,700	193,957	193,957	175,187	193,957	0	0	0	0	0	0	0	944,757
Tennessee Niagara Pipeline Path	55,067	56,902	56,902	51,395	56,902	55,067	56,902	55,067	56,902	56,902	55,067	56,902	332,235
Atlantic Bridge Ramapo Pipeline Path	177,480	183,396	183,396	165,648	183,396	177,480	183,396	177,480	183,396	183,396	177,480	183,396	1,070,796
PXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
WXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Pipeline	607,252	793,566	793,566	716,769	793,566	232,547	240,298	232,547	240,298	240,298	232,547	240,298	3,937,266
Underground Storage													
Tennessee Storage	64,603	66,757	66,308	9,679	0	0	0	0	0	0	0	0	207,347
TGP Zone 4 300 Leg Supply	0	0	449	50,617	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	182,425
Tennessee FS-MA Storage Path	64,603	66,757	66,757	60,296	66,757	64,603	66,757	64,603	66,757	66,757	64,603	66,757	389,772
Union Dawn Storage	617,749	572,943	680,455	707,983	561,116	0	0	0	0	0	0	0	3,140,246
Dawn Supply	13,148	382,255	406,504	371,952	228,463	732,159	268,989	97,025	48,526	49,853	85,678	350,639	2,134,481
Union Dawn Storage Path	630,897	955,198	1,086,959	1,079,935	789,578	732,159	268,989	97,025	48,526	49,853	85,678	350,639	5,274,727
Subtotal Storage	695,500	1,021,955	1,153,716	1,140,231	856,335	796,762	335,746	161,628	115,283	116,610	150,281	417,396	5,664,499
Peaking Supplies													
Lewiston LNG	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260
PNGTS Delivered (Dec - Feb)	0	0	0	0	0	0	0	0	0	0	0	0	0
Peaking Contract 1	0	2,133	160,283	5,766	0	0	0	0	0	0	0	0	168,181
Peaking Contract 2	0	10,735	30,730	18,530	0	0	0	0	0	0	0	0	59,995
Incremental Delivered Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Peaking	1,800	14,727	222,273	25,976	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	268,437
Total Delivered (Dth)	1,304,552	1,830,248	2,169,555	1,882,976	1,651,761	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	9,870,201

Northern Utilities, Inc.
Design Year Weather - Planning Load
Commodity Volumes by Supply Source (Dth)
November 2022 through October 2023

Description	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Winter
Pipeline Supplies													
Tennessee Long-Haul Pipeline Path	149,475	406,378	406,378	367,051	406,378	0	0	0	0	0	0	0	1,735,659
Algonquin Receipts Pipeline Path	37,530	38,781	38,781	35,028	38,781	0	0	0	0	0	0	0	188,901
Iroquois Receipts Pipeline Path	193,021	199,455	199,455	180,153	199,455	0	0	0	0	0	0	0	971,541
Tennessee Niagara Pipeline Path	69,805	72,132	72,132	65,151	72,132	69,805	72,132	69,805	72,132	72,132	69,805	72,132	421,156
Atlantic Bridge Ramapo Pipeline Path	225,000	232,500	232,500	210,000	232,500	225,000	232,500	225,000	232,500	232,500	225,000	232,500	1,357,500
PXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
WXP Dawn Pipeline Path	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Pipeline	674,831	949,246	949,246	857,383	949,246	294,805	304,632	294,805	304,632	304,632	294,805	304,632	4,674,757
Underground Storage													
Tennessee Storage	79,311	81,955	81,406	11,906	0	0	0	0	0	0	0	0	254,579
TGP Zone 4 300 Leg Supply	0	0	549	62,118	81,955	79,311	81,955	79,311	81,955	81,955	79,311	81,955	223,934
Tennessee FS-MA Storage Path	79,311	81,955	81,955	74,024	81,955	79,311	81,955	79,311	81,955	81,955	79,311	81,955	478,512
Union Dawn Storage	855,620	938,537	1,109,553	846,155	103,397	0	0	0	0	0	0	0	3,853,261
Dawn Supply	58,584	420,052	511,280	662,386	1,046,886	855,053	363,246	105,344	80,300	54,681	136,570	504,639	3,554,242
Union Dawn Storage Path	914,203	1,358,589	1,620,833	1,508,541	1,150,283	855,053	363,246	105,344	80,300	54,681	136,570	504,639	7,407,503
Subtotal Storage	993,515	1,440,544	1,702,788	1,582,565	1,232,238	934,364	445,201	184,655	162,255	136,636	215,881	586,594	7,886,015
Peaking Supplies													
Lewiston LNG	1,800	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	40,260
PNGTS Delivered (Dec - Feb)	0	0	0	0	0	0	0	0	0	0	0	0	0
Peaking Contract 1	0	27,549	228,987	80,518	8,001	0	0	0	0	0	0	0	345,054
Peaking Contract 2	0	12,000	45,070	2,904	0	0	0	0	0	0	0	0	59,974
Incremental Delivered Supplies	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal Peaking	1,800	41,409	305,317	85,101	9,861	1,800	1,860	1,800	1,860	1,860	1,800	1,860	445,288
Total Delivered (Dth)	1,670,146	2,431,199	2,957,351	2,525,049	2,191,345	1,230,969	751,693	481,260	468,747	443,128	512,486	893,086	13,006,060

Northern Utilities, Inc.
Normal Year Weather - Sales Service Load
Capacity Utilization by Supply Source
November 2022 through October 2023

Description	Winter Projected Volume (Dth)	Winter Maximum Volume (Dth)	Winter Capacity Utilization	Summer Projected Volume (Dth)	Summer Maximum Volume (Dth)	Summer Capacity Utilization	Annual Projected Volume (Dth)	Annual Maximum Volume (Dth)	Annual Capacity Utilization
Pipeline Supplies									
Tennessee Long-Haul Pipeline Path	1,400,577	1,871,483	75%	0	1,902,502	0%	1,400,577	3,773,985	37%
Algonquin Receipts Pipeline Path	188,901	226,431	83%	0	230,184	0%	188,901	456,615	41%
Iroquois Receipts Pipeline Path	944,757	1,132,457	83%	0	1,151,227	0%	944,757	2,283,684	41%
Tennessee Niagara Pipeline Path	332,235	332,235	100%	337,742	337,742	100%	669,977	669,977	100%
Atlantic Bridge Ramapo Pipeline Path	1,070,796	1,070,796	100%	1,088,544	1,088,544	100%	2,159,340	2,159,340	100%
Subtotal Pipeline	3,937,266	4,633,402	85%	1,426,286	4,710,199	30%	5,363,552	9,343,601	57%
Underground Storage									
Tennessee Storage	207,347			0			207,347		
TGP Zone 4 300 Leg Supply	182,425			396,232			578,658		
Tennessee FS-MA Storage Path	389,772	389,772	100%	396,232	396,232	100%	786,004	786,004	100%
Union Dawn Storage	3,140,246			0			3,140,246		
Dawn Supply	2,134,481			900,712			3,035,193		
Union Dawn Storage Path	5,274,727	8,721,983	60%	900,712	8,866,546	10%	6,175,439	17,588,529	35%
Subtotal Storage	5,664,499	9,111,755	62%	1,296,944	9,262,778	14%	6,961,443	18,374,533	38%
Peaking Supplies									
Lewiston LNG	40,260	75,000	54%	11,040	11,040	100%	51,300	86,040	60%
PNGTS Delivered (Dec - Feb)	0	0		0	0		0	0	
Peaking Contract 1	168,181	597,900	28%	0	0		168,181	597,900	
Peaking Contract 2	59,995	59,995	100%	0	0		59,995	59,995	
Subtotal Peaking	268,437	732,895	37%	11,040	11,040	100%	279,477	743,935	38%
Portfolio Utilization	9,870,201	14,478,052	68%	2,734,270	13,984,017	20%	12,604,471	28,462,069	44%
Incremental Delivered Supplies	0	N/A		0	N/A		0	N/A	
Total Delivered	9,870,201	N/A		2,734,270	N/A		12,604,471	N/A	

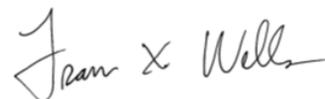
Northern Utilities, Inc. Design Year Weather - Planning Load Capacity Utilization by Supply Source November 2022 through October 2023									
Description	Winter Projected Volume (Dth)	Winter Maximum Volume (Dth)	Winter Capacity Utilization	Summer Projected Volume (Dth)	Summer Maximum Volume (Dth)	Summer Capacity Utilization	Annual Projected Volume (Dth)	Annual Maximum Volume (Dth)	Annual Capacity Utilization
Pipeline Supplies									
Tennessee Long-Haul Pipeline Path	1,735,659	2,372,721	73%	0	2,412,048	0%	1,735,659	4,784,769	36%
Algonquin Receipts Pipeline Path	188,901	226,431	83%	0	230,184	0%	188,901	456,615	41%
Iroquois Receipts Pipeline Path	971,541	1,164,562	83%	0	1,183,864	0%	971,541	2,348,427	41%
Tennessee Niagara Pipeline Path	421,156	421,156	100%	428,136	428,136	100%	849,292	849,292	100%
Atlantic Bridge Ramapo Pipeline Path	1,357,500	1,357,500	100%	1,380,000	1,380,000	100%	2,737,500	2,737,500	100%
Subtotal Pipeline	4,674,757	5,542,370	84%	1,808,136	5,634,233	32%	6,482,893	11,176,603	58%
Underground Storage									
Tennessee Storage	254,579			0			254,579		
TGP Zone 4 300 Leg Supply	223,934			486,443			710,377		
Tennessee FS-MA Storage Path	478,512	478,512	100%	486,443	486,443	100%	964,956	964,956	100%
Union Dawn Storage	3,853,261			0			3,853,261		
Dawn Supply	3,554,242			1,244,780			4,799,022		
Union Dawn Storage Path	7,407,503	10,822,531	68%	1,244,780	11,001,910	11%	8,652,283	21,824,441	40%
Subtotal Storage	7,886,015	11,301,043	70%	1,731,224	11,488,354	15%	9,617,239	22,789,397	42%
Peaking Supplies									
Lewiston LNG	40,260	63,960	63%	11,040	11,040	100%	51,300	75,000	68%
PNGTS Delivered (Dec - Feb)	0	0		0	0		0	0	
Peaking Contract 1	345,054	597,900	58%	0	0		345,054	597,900	
Peaking Contract 2	59,974	59,974	100%	0	0		59,974	59,974	
Subtotal Peaking	445,288	721,834	62%	11,040	11,040	100%	456,328	732,874	62%
Portfolio Utilization	13,006,060	17,565,248	74%	3,550,400	17,133,626	21%	16,556,460	34,698,874	48%
Incremental Delivered Supplies	0	N/A		0	N/A		0	N/A	
Total Delivered	13,006,060	N/A		3,550,400	N/A		16,556,460	N/A	

Northern Utilities Inc.
Forecast of Upcoming Winter Period Design Day Report
2022 / 2023 Winter Period
(Therms)

Demand	
NH Firm Sales	495,480
NH Non-Capacity Exempt Transportation	149,990
NH Capacity Exempt Transportation	94,560
NH Interruptible Sales	0
NH Interruptible Transportation	0
NH Design Day Demand	740,030
ME Firm Sales	721,170
ME Non-Capacity Exempt Transportation	143,760
ME Capacity Exempt Transportation	126,040
ME Interruptible Sales	0
ME Interruptible Transportation	0
ME Design Day Demand	990,970
Total Firm Sales	1,216,650
Total Non-Capacity Exempt Transportation	293,750
Total Capacity Exempt Transportation	220,600
Total Interruptible Sales	0
Total Interruptible Transportation	0
Total Design Day Demand	1,731,000
Supplies	
Capacity Exempt Transportation	220,600
Additional Supplies Required for Non-Capacity Exempt Transport	110,770
Pipeline	505,510
Storage	425,070
On-System LNG	65,000
Off-System Peaking Contracts & Delivered Baseload	428,495
Additional Granite Capacity	4,365
Total	1,759,810
Effective Degree Day	
New Hampshire	80.1
Maine	78.9
Probability	1 in 30

Report Prepared By
Title
Signature

Francis X. Wells
Manager, Energy Planning



**Northern Utilities Inc.
New Hampshire 7 Day Cold Snap Analysis
Winter 2022-2023**

Coldest 7 Consecutive Days

Based on historic Portsmouth weather data

<u>Date</u>	<u>EDD</u>
February 11, 1979	68
February 12, 1979	60
February 13, 1979	73
February 14, 1979	73
February 15, 1979	64
February 16, 1979	69
February 17, 1979	72
Total	479

Maximum Projected Design Week Demand (Dth)

Daily Baseload	7,099
Weekly Baseload	49,695
Heating Increment*	676
Effective Degree Days	479
Total Heat Load	323,867

Projected Cold Snap Demand 373,562

New Hampshire Allocation **40.86%**

Based on the latest demand cost allocator in the Winter COG filing.

Maximum Supply Capability (Dth)

Amount to be Supplied by Natural Gas Pipelines	
Tennessee Zone 0 and Zone L Pools	13,109
Tennessee Niagara	2,327
Iroquois Receipts	6,434
Leidy Hub Supply (Texas Eastern, Algonquin)	965
Transco Zone 6, non-NY Supply (Algonquin)	286
PXP Dawn Hub	9,965
WXP Dawn Hub	9,965
Atlantic Bridge Ramapo	7,500
Tennessee Firm Storage	2,644
Union Dawn Storage	39,863
Peaking Contract 1	39,860
Peaking Contract 2	2,990

Total Daily Pipeline	135,908
Pipeline for 7 days	951,353

New Hampshire Allocation 388,723

Available LNG Storage

Facility	Gallons	Dth
Lewiston LNG	145,134	12,140
Total	145,134	12,140
<u>New Hampshire Allocation - 7 Days</u>		<u>4,960</u>

LNG Delivery Contract

Northern Utilities plans to secure a contract for LNG Delivery for up to three loads of LNG per day.

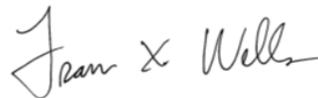
The storage credit for LNG is calculated as follows:

Number of Days	7
Number of Loads	3
Delivery Reliability	70%
Assumed Number of LNG Deliveries	15
Dth Per Load	900
Total Storage Credit	13,230
<u>NH Storage Credit - 7 Days</u>	<u>5,406</u>

Summary	
Maximum projected design week demand	373,562
Amount to be furnished by natural gas pipeline	388,723
Remaining Balance	-15,161
Storage available	4,960
Credit from LNG delivery supply contract	5,406
Total available storage and LNG deliveries	10,366
Net Surplus/(Deficiency)	25,527

Report Prepared By
Title
Signature

Francis X. Wells
Manager, Energy Planning



Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-FXW-19
Page 1 of 1

Northern Utilities, Inc.
New Hampshire Division
Migration to Transportation Only Service by Rate Class
November 2022 through October 2023

C&I Rate Class	Annual Sales Service Deliveries (Dth)	Percentage of Sales Service Total by Rate Class	Sales Service Percentage by Rate Class
G40	969,161	41%	86%
G50	152,021	6%	84%
G41	710,107	30%	47%
G51	273,597	12%	50%
G42	178,052	8%	34%
G52	84,809	4%	5%
Special Contracts	-	0%	0%
Total C&I	2,367,747	100%	34%

C&I Rate Class	Annual Transport-Only Deliveries (Dth)	Percentage of Transport Only Total by Rate Class	Transportation Service Percentage by Rate Class
G40	153,340	3%	14%
G50	28,960	1%	16%
G41	799,580	18%	53%
G51	271,229	6%	50%
G42	349,227	8%	66%
G52	1,772,490	39%	95%
Special Contracts	1,136,743	25%	100%
Total C&I	4,511,568	100%	66%

C&I Rate Class	Annual Total Deliveries (Dth)	Percentage of Total by Rate Class
G40	1,122,501	16%
G50	180,980	3%
G41	1,509,687	22%
G51	544,826	8%
G42	527,279	8%
G52	1,857,299	27%
Special Contracts	1,136,743	17%
Total C&I	6,879,316	100%

**NORTHERN UTILITIES, INC.- NEW HAMPSHIRE DIVISION
 Gas Assistance Program (GAP)**

	Customer Charge	All Therms	Cost of Gas	Total
1 Peak Period				
2 R-10 Base Rates	\$22.20	\$0.9266	\$1.1330	
3 R-10 Rate Discounted 45%	\$12.21	\$0.5096	\$0.6232	
4 Program Subsidy	\$9.99	\$0.4170	\$0.5099	
5 Average Winter Therms		582	582	
6				
7 Peak Period Subsidy	\$59.94	\$242.68	\$296.73	\$599.35
8				
9				
10 Number of Estimated 2022/2023 Participants (1)				647
11				
12 Annual Subsidy times Number of Participants (Ln 7 * Ln 10)				\$387,779
13 Prior Year Ending Balance 10/31/2022 - GAP Page 2				(\$100,872)
14 Estimated Annual Administrative Costs				\$0
15 Total Program Costs				\$286,907
16				
17 Estimated weather normalized firm therms billed for				
18 the twelve months ended 10/31/23 sales and transportation				77,881,226
19 (Attachment NUI-FXW-2, Page 2 of 4, "Total Division"				
20 minus "Special Contracts").				
21 Total Gas Assistance Program Rate				\$0.0037

(1) Based on actual prior winter period participation.

NORTHERN UTILITIES, INC., NEW HAMPSHIRE DIVISION
 NOVEMBER 2020 THROUGH OCTOBER 2021
 GAS ASSISTANCE PROGRAM AND REGULATORY ASSESSMENT (GAPRA) RECONCILIATION

	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Estimate	Estimate	Estimate	Total
1 FOR THE MONTH OF:	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Total
2 DAYS IN MONTH	30	31	31	28	31	30	31	30	31	31	30	31	365
3													Average
4 GAPRA Participant Count	331	846	629	640	696	742	749	614	590	599	640	639	643
5													Total
6 Beginning Balance	\$20,554	\$3,742	(\$16,570)	(\$9,813)	\$1,075	\$27,280	\$52,371	\$56,671	\$47,019	\$38,827	(\$77,578)	(\$87,442)	\$20,554
7													
8 Add: Actual Costs	\$6,085	\$49,453	\$59,907	\$65,169	\$69,903	\$49,438	\$23,931	\$0	\$0	\$0	\$0	\$0	\$323,886
9													
10 Add: Regulatory Assessments (1)	\$6,893	(\$17,524)	\$15,279	\$15,279	\$15,279	\$15,279	\$0	\$0	\$0	(\$106,953)	\$0	\$0	(\$56,468)
11													
12 Less: Collected Revenue	\$29,823	\$52,223	\$68,394	\$69,548	\$59,016	\$39,734	\$19,779	\$9,792	\$8,335	\$9,387	\$9,590	\$13,117	(\$388,736)
13													
14 Add: Administrative and Start Up Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15													
16 Ending Balance Pre-Interest	\$3,709	(\$16,552)	(\$9,778)	\$1,087	\$27,242	\$52,263	\$56,523	\$46,879	\$38,684	(\$77,514)	(\$87,168)	(\$100,559)	
17													
18 Month's Average Balance	\$12,131	(\$6,405)	(\$13,174)	(\$4,363)	\$14,159	\$39,772	\$54,447	\$51,775	\$42,852	(\$19,343)	(\$82,373)	(\$94,001)	
19													
20 Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.00%	4.00%	4.00%	4.00%	
21													
22 Interest Applied	\$33	(\$17)	(\$36)	(\$12)	\$38	\$108	\$147	\$140	\$143	(\$64)	(\$275)	(\$313)	
23													
24 Ending Balance	\$3,742	(\$16,570)	(\$9,813)	\$1,075	\$27,280	\$52,371	\$56,671	\$47,019	\$38,827	(\$77,578)	(\$87,442)	(\$100,872)	

(1) Over Collection

(1) Regulatory Assessments removed from GAP to RAAM effective May 1, 2022. October 2021 - April 2022 amount reversed per DG 2021-104, distribution portion of Regulatory Assessment is \$552,312. See Attachment NUI-SED-1-RAAM, Page 4.

CALCULATION OF ENVIRONMENTAL RESPONSE COST RATE

November 1, 2022 through October 31, 2023

Total ERC Costs for the Period	\$423,485 (See 2022 ERC Invoice Filing, Schedule 1)
Less Current (Over)/Under Collection (Estimated)	\$27,275 (See page 2 of 2)
	<hr/>
Total ERC Cost to be Recovered	<u>\$450,760</u>
Forecasted Firm Sales & Firm Transportation Volumes (Attachment NUI-FXW-2, Page 2 of 4, "Total Division" subtract "Special Contracts").	<u>77,881,226</u>
ERC Recovery Rate	<u><u>\$0.0058</u></u>

Northern Utilities, Inc.
New Hampshire Division
Annual 2022/2023 COG/LDAC Filing
Attachment NUI-SED-1 ERC
Page 2 of 2

**Northern Utilities, Inc. - New Hampshire Division
Environmental Response Cost 12 Month Reconciliation**

Month	Actual or Forecast	Beginning Balance (Over)/Under	Revenue	Prior Period ERC Costs To be recovered	Ending Balance (Over)/Under
November-'21	Actual	\$7,069	\$31,069	\$432,594	\$408,593
December	Actual	\$408,593	\$48,743		\$359,850
January- '22	Actual	\$359,850	\$63,820		\$296,030
February	Actual	\$296,030	\$64,913		\$231,117
March	Actual	\$231,117	\$55,086		\$176,031
April	Actual	\$176,031	\$37,236		\$138,795
May	Actual	\$138,795	\$26,265		\$112,530
June	Actual	\$112,530	\$16,612		\$95,918
July	Actual	\$95,918	\$14,181		\$81,737
August	Est.	\$81,737	\$15,930		\$65,807
September	Est.	\$65,807	\$16,273		\$49,533
October	Est.	\$49,533	\$22,259		\$27,275

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	\$338,696	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>\$0.0043</u></u>	

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

Calculation of Recoupment

	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Total
	Oct-2021(1)	Summer	Winter											
1 Revenue Drivers:														
2 Customer Units														
3 R6 - Non Heat	723	771	535	1,256	1,252	1,251	1,254	1,256	675	614	1,304	1,324	716	995
4 R5 - Heat	15,671	14,767	12,152	26,513	26,917	26,944	27,324	26,875	12,927	13,947	26,968	27,001	13,457	20,882
5 R10 - Low Income Heat	345	191	139	854	653	683	820	802	445	409	605	589	296	525
6 G/T 40	3,011	2,835	2,343	5,293	5,317	5,319	4,861	5,310	2,509	2,740	5,125	5,057	2,574	4,023
7 G/T 50	517	463	384	835	834	852	833	838	406	441	850	860	447	659
8 G/T 41	416	361	318	681	685	687	687	686	314	370	684	674	338	531
9 G/T 51	155	152	116	271	271	272	273	271	134	138	271	270	141	210
10 G/T 42	26	6	24	30	30	30	30	30	5	25	29	30	24	25
11 G/T 52	33	1	33	34	34	34	34	34	1	33	34	34	32	29
12 Total	20,897	19,546	16,045	35,767	35,993	36,071	36,116	36,102	17,417	18,716	35,881	35,839	18,025	27,878
13														
14														
15 Therms - Total Delivery														
16 R6	5,609	9,058	7,290	26,265	34,511	36,498	30,291	21,388	9,186	8,302	12,720	11,778	5,543	218,439
17 R5	220,001	574,781	562,517	2,347,625	3,263,987	3,490,959	2,829,203	1,688,252	537,385	491,814	465,277	341,995	145,976	16,959,772
18 R10	4,530	6,826	6,142	59,609	71,247	77,445	78,980	51,715	24,469	14,055	9,422	6,625	3,223	414,287
19 G/T 40	100,617	267,122	321,639	1,397,303	2,062,286	2,249,905	1,743,080	999,954	270,917	265,847	185,874	122,107	50,914	10,037,565
20 G/T 50	66,057	67,644	60,862	157,058	182,207	190,295	176,747	148,661	66,126	70,715	143,438	132,298	67,858	1,529,966
21 G/T 41	240,807	430,013	574,560	1,915,083	2,633,049	2,730,162	2,209,371	1,392,115	434,846	448,225	371,266	255,184	100,062	13,734,744
22 G/T 51	179,768	202,653	180,904	515,477	583,845	597,751	545,108	451,755	193,281	210,340	343,951	327,838	149,488	4,482,160
23 G/T 42	266,959	45,680	472,273	677,578	874,732	737,210	629,929	426,190	40,537	232,019	165,611	139,790	20,321	4,727,650
24 G/T 52	1,430,461	17,609	1,595,557	1,807,878	1,890,403	1,480,721	1,593,526	1,469,082	15,226	1,356,949	1,267,173	1,192,822	10,242	14,727,650
25 Total	2,514,808	1,621,385	3,781,742	8,703,877	11,396,266	11,590,947	9,836,235	6,649,114	1,591,973	3,098,267	2,964,731	2,530,437	553,627	66,533,410
26														
27														
28														
29 Permanent Rates Effective August 1, 2022														
30 Dist Cust Charge														
31 R6	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20	\$ 22.20
32 R5	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20
33 R10	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20	22.20
34 G/T 40	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
35 G/T 50	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
36 G/T 41	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00
37 G/T 51	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00	225.00
38 G/T 42	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00
39 G/T 52	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00
40														
41 Dist Rate - All therms														
42 R6	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081	1.3081
43 R5	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841
44 R10	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841	0.8841
45 G/T 40	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320	0.2320
46 G/T 50	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085	0.2085
47 G/T 41	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744	0.2744
48 G/T 51	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656	0.1656
49 G/T 42	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083	0.2083
50 G/T 52	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050	0.1050
51														

**PROPERTY TAX ADJUSTMENT MECHANISM ("PTAM")
NOVEMBER 1, 2022 THROUGH OCTOBER 31, 2023**

Line #	Description	Amount	Reference
1	Property Tax Expense for the Period	\$0	Page 2, Line 3 Col. E
2	Prior Period Ending Balance	\$406,801	Page 2 Line 16 Col. M
3	Excess ADIT (2018-2020) Flow Back (1)	<u>(\$406,801)</u>	See Note 1
4	Total Expense to be Recovered	<u>\$0</u>	
5			
6	Forecasted Firm Sales & Firm Transportation Volumes (therms) (2)	77,881,226	
7			
8	PTAM Rate (\$/therm)	<u>\$0.0000</u>	

Notes:

(1) Per Docket DG 21-104 Settlement Agreement, Section 9.7: Excess Accumulated Deferred Income Tax from 2018-2020 in the amount of \$515,202, shall be applied to offset the Company's property tax deferral balance to be recovered through the PTAM. Remaining balance will offset future PTAM recoveries.

2018-2020 Excess ADIT Balance	\$515,202
Offset used in Nov 22/Oct 23 2023 Annual Period	<u>(\$406,801)</u>
Remaining 2018-2020 Excess ADIT Balance	\$108,401

(2) Company forecast - Special Contracts (November 2022 to October 2023)

NORTHERN UTILITIES, INC., NEW HAMPSHIRE DIVISION
 PROPERTY TAX ADJUSTMENT MECHANISM ("PTAM")
 NOVEMBER 2021 THROUGH OCTOBER 2022 RECONCILIATION

Line #	Description	Recast Nov-21	Recast Dec-21	Recast Jan-22	Recast Feb-22	Recast Mar-22	Recast Apr-22	Recast May-22	Recast Jun-22	Recast Jul-22	Forecast Aug-22	Forecast Sep-22	Forecast Oct-22	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
1	Beginning Balance (Over)/Under Collection ⁽¹⁾	\$0	\$0	\$0	\$521,314 (1)	\$835,725	\$752,830	\$665,107	\$603,496	\$565,071	\$532,766	\$496,107	\$458,444	
2														
3	Add: NH Property Tax Expense ⁽²⁾	\$0	\$0	\$0	\$314,411 (2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$314,411
4														
5	Less: PTAM Revenue	\$0	\$0	\$0	\$0	\$85,085	\$89,614	\$63,359	\$39,984	\$34,167	\$38,403	\$39,230	\$53,659	\$443,502
6														
7	Ending Balance Pre-Interest	\$0	\$0	\$0	\$835,725	\$750,641	\$663,216	\$601,748	\$563,512	\$530,904	\$494,363	\$456,877	\$404,785	
8														
9	Month's Average Balance	\$0	\$0	\$0	\$678,520	\$793,183	\$708,023	\$633,427	\$583,504	\$547,988	\$513,564	\$476,492	\$431,614	
10														
11	Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.00%	4.00%	4.00%	5.50%	
12	Days in Month	30	31	31	28	31	30	31	30	31	31	30	31	365
13														
14	Interest Applied	\$0	\$0	\$0	\$0	\$2,189.40	\$1,891.29	\$1,748.43	\$1,558.68	\$1,862	\$1,745	\$1,567	\$2,016	\$14,577
15														
16	Ending Balance (Over)/Under Collection	\$0	\$0	\$0	\$835,725	\$752,830	\$665,107.05	\$603,496	\$565,071.13	\$532,766	\$496,107	\$458,444	\$406,801	

Notes:

(1) Actual 2020 Property Tax Deferral

(2) Actual 2021 Property Tax Deferral

NORTHERN UTILITIES, INC.
REGULATORY ASSESSMENT ADJUSTMENT MECHANISM ("RAAM")
NOVEMBER 1, 2022 THROUGH OCTOBER 31, 2023

Line #	Description	Amount	Reference
1	Non-Distribution Regulatory Assessment	\$0	Page 3, Line 3, Page 4
2	2020 Covid-19 Expense	\$68,061	Page 3, Line 5
3	Prior Period Ending Balance	(\$49,848)	Page 2 Line 16 Col. M
4	Total Expense to be Recovered	<u>\$18,213</u>	
5			
6	Forecasted Firm Sales & Firm Transportation Volumes (therms) (1)	77,881,226	
7			
8	RAAM Rate (\$/therm)	<u>\$0.0002</u>	

(1) Company forecast - Special Contracts (November 2022 to October 2023)

**NORTHERN UTILITIES, INC., NEW HAMPSHIRE DIVISION
REGULATORY ASSESSMENT ADJUSTMENT MECHANISM ("RAAM")
NOVEMBER 2021 THROUGH OCTOBER 2022 RECONCILIATION**

Line #	Description	Actual Nov-21	Actual Dec-21	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Actual Jul-22	Forecast Aug-22	Forecast Sep-22	Forecast Oct-22	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
1	Beginning Balance (Over)/Under Collection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,762	\$14,080	\$22,583	(\$30,949)	(\$38,910)	
2														
3	Add: Regulatory Assessments ¹	\$0	\$0	\$0	\$0	\$0	\$0	\$15,279	\$15,279	\$15,279	(\$45,837)	\$0	\$0	\$0
4														
5	Less: RAAM Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$8,526	\$7,989	\$6,838	\$7,681	\$7,846	\$10,732	\$49,612
6														
7	Ending Balance Pre-Interest	\$0	\$0	\$0	\$0	\$0	\$0	\$6,753	\$14,052	\$22,521	(\$30,935)	(\$38,795)	(\$49,641)	
8														
9	Month's Average Balance	\$0	\$0	\$0	\$0	\$0	\$0	\$3,376	\$10,407.12	\$18,300	(\$4,176)	(\$34,872)	(\$44,276)	
10														
11	Interest Rate	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.00%	4.00%	4.00%	5.50%	
12	Days in Month	30	31	31	28	31	30	31	30	31	31	30	31	365
13														
14	Interest Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$9.32	\$27.80	\$62.17	(\$14.19)	(\$114.65)	(\$206.82)	(\$236)
15														
16	Ending Balance (Over)/Under Collection	\$0	\$0	\$0	\$0	\$0	\$0	\$6,762	\$14,080	\$22,583	(\$30,949)	(\$38,910)	(\$49,848)	

(1) Non-Distribution Regulatory Assessment formerly recovered via the GAPRA.
Estimated Non-Distribution Regulatory Assessment (Based on NHPUC invoice dated April 14, 2022)

**NORTHERN UTILITIES, INC., NEW HAMPSHIRE DIVISION
REGULATORY ASSESSMENT ADJUSTMENT MECHANISM ("RAAM")
NOVEMBER 2022 THROUGH OCTOBER 2023 FORECAST**

Line #	Description	Forecast Nov-22	Forecast Dec-22	Forecast Jan-23	Forecast Feb-23	Forecast Mar-23	Forecast Apr-23	Forecast May-23	Forecast Jun-23	Forecast Jul-23	Forecast Aug-23	Forecast Sep-23	Forecast Oct-23	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
1	Beginning Balance (Over)/Under Collection	(\$49,848)	\$16,906	\$15,076	\$12,822	\$10,502	\$8,470	\$7,032	\$6,072	\$5,432	\$4,866	\$4,314	\$3,748	
2														
3	Add: Regulatory Assessments (1)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4														
5	Add: Covid-19 Expense (2)	\$68,061	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68,061
6														
7	Less: RAAM Revenue	\$1,231	\$1,903	\$2,318	\$2,374	\$2,075	\$1,473	\$990	\$666	\$590	\$573	\$585	\$797	\$15,576
8														
9	Ending Balance Pre-Interest	\$16,981	\$15,003	\$12,758	\$10,448	\$8,427	\$6,997	\$6,042	\$5,406	\$4,842	\$4,293	\$3,729	\$2,950	
10														
11	Month's Average Balance	(\$16,433)	\$15,954	\$13,917	\$11,635	\$9,464	\$7,733	\$6,537	\$5,739	\$5,137	\$4,579	\$4,022	\$3,349	
12														
13	Interest Rate	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	
14	Days in Month	30	31	31	28	31	30	31	30	31	31	30	31	365
15														
16	Interest Applied	(\$75)	\$73	\$64	\$53	\$43	\$35	\$31	\$26	\$24	\$21	\$18	\$16	\$329
17														
18	Ending Balance (Over)/Under Collection	\$16,906	\$15,076	\$12,822	\$10,502	\$8,470	\$7,032	\$6,072	\$5,432	\$4,866	\$4,314	\$3,748	\$2,966	

(1) Non-Distribution Regulatory Assessment formerly recovered via the GAP.
Estimated Non-Distribution Regulatory Assessment (Based on NHPUC invoice dated April 14, 2022).
(2) Includes \$68,061 2020 Covid-19 expenses per DG 21-104 Order No. 26-650 dated July 20, 2022.

Northern Utilities, Inc.
 New Hampshire Division
 Annual 2022/2023 COG/LDAC Filing
 Attachment SED-1 RAAM
 Page 4 of 4

NORTHERN UTILITIES, INC., NEW HAMPSHIRE DIVISION
Calculation of Distribution and Non-Distribution Revenues of the NHPUC Annual Regulatory Assessment
 NHPUC Assessment Invoice dated April 14, 2022

	July 2022	August 2022	September 2022	October 2022	November 2022	December 2022	January 2023	February 2023	March 2023	April 2023	May 2023	June 2023	Total Fiscal Year
Distribution	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$46,026.00	\$552,312.00
Non-Distribution	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$138,078.00			\$138,078.00			\$138,078.00			\$138,078.00			\$552,312.00

(1) Established in Docket DG 21-104, Order No. 26,650 dated July 20, 2022.
 (2) Total Invoice amount minus Distribution amount.

NORTHERN UTILITIES, INC.- NEW HAMPSHIRE DIVISION
REMEDIATION ADJUSTMENT CLAUSE COMPLIANCE FILING
2021-2022 ENVIRONMENTAL RESPONSE COSTS
SITE SPECIFIC EXPENSES

Line	Description	Total	11/11 - 10/12	11/12 - 10/13	11/13 - 10/14	11/14-10/15	11/15-10/16	11/16-10/17	11/17-10/18	11/18-10/19	11/19-10/20	11/20-10/21	11/21-10/22	11/22-10/23	11/23-10/24	11/24-10/25	11/25-10/26	11/26-10/27	11/27-10/28	11/28-10/29
ENVIRONMENTAL RESPONSE COST (ERC)																				
1	July 10 - June 11 Expenses Amortization (1/7)	\$ 121,209	\$ 17,316	\$ 17,316	\$ 17,316	\$ 17,316	\$ 17,316	\$ 17,316	\$ 17,316											
2	July 11 - June 12 Expenses Amortization (1/7)	\$ 159,020		\$ 22,717	\$ 22,717	\$ 22,717	\$ 22,717	\$ 22,717	\$ 22,717	\$ 22,717										
3	July 12 - June 13 Expenses Amortization (1/7)	\$ 175,406			\$ 25,058	\$ 25,058	\$ 25,058	\$ 25,058	\$ 25,058	\$ 25,058	\$ 25,058									
4	July 13 - June 14 Expenses Amortization (1/7)	\$ 40,881				\$ 5,840	\$ 5,840	\$ 5,840	\$ 5,840	\$ 5,840	\$ 5,840	\$ 5,840								
5	July 14 - June 15 Expenses Amortization (1/7)	\$ 112,198					\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028	\$ 16,028							
6	July 15 - June 16 Expenses Amortization (1/7)	\$ 2,179,885						\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412	\$ 311,412						
7	July 16 - June 17 Expenses Amortization (1/7)	\$ 54,154							\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736	\$ 7,736					
8	July 17 - June 18 Expenses Amortization (1/7)	\$ 283,143								\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449	\$ 40,449				
9	July 18 - June 19 Expenses Amortization (1/7)	\$ 203,357									\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051	\$ 29,051			
10	July 19 - June 20 Expenses Amortization (1/7)	\$ 77,165										\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024	\$ 11,024		
11	July 20 - June 21 Expenses Amortization (1/7)	\$ 118,256											\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894	\$ 16,894
12	July 21 - June 22 Expenses Amortization (1/7)	\$ 48,434												\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919	\$ 6,919
13	Subtotal (Line 1 through Line 11)	\$ 3,573,108	\$ 17,316	\$ 40,033	\$ 65,091	\$ 70,931	\$ 86,959	\$ 398,371	\$ 406,108	\$ 429,241	\$ 435,575	\$ 421,540	\$ 432,594	\$ 423,485	\$ 112,073	\$ 104,336	\$ 63,887	\$ 34,836	\$ 23,813	\$ 6,919
14	Add: Excess amortization from prior years (from schedule 5, Line 9)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Less: Excess amortization to be deferred (from schedule 5, Line 8)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Total Environmental Response cost to be recovered (ERC)	\$ 3,573,108	\$ 17,316	\$ 40,033	\$ 65,091	\$ 70,931	\$ 86,959	\$ 398,371	\$ 406,108	\$ 429,241	\$ 435,575	\$ 421,540	\$ 432,594	\$ 423,485	\$ 112,073	\$ 104,336	\$ 63,887	\$ 34,836	\$ 23,813	\$ 6,919
17	July 2010 - June 2011 Unamortized beginning balance	\$ 121,209	\$ 103,893	\$ 86,578	\$ 69,262	\$ 51,947	\$ 34,631	\$ 17,316												
18	July 2011 - June 2012 Unamortized beginning balance	\$ 159,020	\$ 136,303	\$ 113,586	\$ 90,869	\$ 68,151	\$ 45,434	\$ 22,717												
19	July 2012 - June 2013 Unamortized beginning balance		\$ 175,406	\$ 150,348	\$ 125,290	\$ 100,232	\$ 75,174	\$ 50,116	\$ 25,058											
20	July 2013 - June 2014 Unamortized beginning balance			\$ 40,881	\$ 35,041	\$ 29,201	\$ 23,361	\$ 17,521	\$ 11,680	\$ 5,840										
21	July 2014 - June 2015 Unamortized beginning balance				\$ 112,198	\$ 96,170	\$ 80,141	\$ 64,113	\$ 48,085	\$ 32,057	\$ 16,028									
22	July 2015 - June 2016 Unamortized beginning balance					\$ 2,179,885	\$ 1,868,473	\$ 1,557,061	\$ 1,245,649	\$ 934,236	\$ 622,824	\$ 311,412								
23	July 2016 - June 2017 Unamortized beginning balance						\$ 54,154	\$ 46,418	\$ 38,681	\$ 30,945	\$ 23,209	\$ 15,473	\$ 7,736							
24	July 2017 - June 2018 Unamortized beginning balance							\$ 283,143	\$ 242,694	\$ 202,245	\$ 161,796	\$ 121,347	\$ 80,898	\$ 40,449						
25	July 2018 - June 2019 Unamortized beginning balance								\$ 203,357	\$ 174,306	\$ 145,255	\$ 116,204	\$ 87,153	\$ 58,102	\$ 29,051					
26	July 2019 - June 2020 Unamortized beginning balance									\$ 77,165	\$ 66,141	\$ 55,118	\$ 44,094	\$ 33,071	\$ 22,047	\$ 11,024				
27	July 2020 - June 2021 Unamortized beginning balance										\$ 118,256	\$ 101,362	\$ 84,468	\$ 67,575	\$ 50,681	\$ 33,787	\$ 16,894			
28	July 2021 - June 2022 Unamortized beginning balance											\$ 48,434	\$ 41,515	\$ 34,596	\$ 27,677	\$ 20,757	\$ 13,838	\$ 6,919		
29	Total Unamortized beginning balance	\$ 121,209	\$ 262,913	\$ 398,287	\$ 374,077	\$ 415,344	\$ 2,508,270	\$ 2,164,053	\$ 2,041,089	\$ 1,815,204	\$ 1,456,794	\$ 1,153,509	\$ 769,349	\$ 345,865	\$ 233,792	\$ 129,456	\$ 65,568	\$ 30,732	\$ 6,919	
30	INSURANCE/3RD PARTY EXPENSES (IE) Expenses (from schedule 2)																			
31	INSURANCE/3RD PARTY RECOVERIES (IR)																			
32	UNDER/OVER Recovery from previous year																			
33	Total of Lines 27 through 30	\$ 121,209	\$ 262,913	\$ 398,287	\$ 374,077	\$ 415,344	\$ 2,508,270	\$ 2,164,053	\$ 2,041,089	\$ 1,815,204	\$ 1,456,794	\$ 1,153,509	\$ 769,349	\$ 345,865	\$ 233,792	\$ 129,456	\$ 65,568	\$ 30,732	\$ 6,919	

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	Winter 2022 - 2023															
3	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	\$ 706.28
4	All units @	\$0.9266	\$46.83	\$89.37	\$116.17	\$112.49	\$110.21	\$64.56	\$39.60	\$17.16	\$12.52	\$11.72	\$11.58	\$22.02	\$45.33	\$29.60
5	COG 1	\$1.1357	\$57.40					\$57.40	\$29.60						\$12.83	\$9.36
6	COG 2	\$1.1357	\$109.54					\$109.54		\$12.83					\$8.77	\$8.67
7	COG 3	\$1.1357		\$142.38				\$142.38			\$9.36				\$16.48	\$16.48
8	COG 4	\$1.1357			\$137.88			\$137.88				\$8.77				
9	COG 5	\$1.1357				\$135.08		\$135.08					\$8.67			
10	COG 6	\$1.1357					\$79.13	\$79.13								
11	LDAC	\$0.1845	\$9.32	\$17.80	\$23.13	\$22.40	\$21.94	\$12.86	\$7.88	\$3.42	\$2.49	\$2.34	\$2.31	\$4.39	\$22.83	\$1798.03
12	Summer 2023															
13	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	\$ 706.28
14	All units @	\$0.9266	\$46.83	\$89.37	\$116.17	\$112.49	\$110.21	\$64.56	\$39.60	\$17.16	\$12.52	\$11.72	\$11.58	\$22.02	\$45.33	\$29.60
15	All eff. Aug 1, 2023 units @	\$0.9259							\$29.60						\$12.83	\$9.36
16	COG 1	\$0.6927						\$0.6927		\$12.83					\$8.77	\$8.67
17	COG 2	\$0.6927						\$0.6927			\$9.36				\$16.48	\$16.48
18	COG 3	\$0.6927						\$0.6927				\$8.77				
19	COG 4	\$0.6927						\$0.6927					\$8.67			
20	COG 5	\$0.6927						\$0.6927								
21	COG 6	\$0.6927						\$0.6927								
22	LDAC	\$0.1845	\$9.32	\$17.80	\$23.13	\$22.40	\$21.94	\$12.86	\$7.88	\$3.42	\$2.49	\$2.34	\$2.31	\$4.39	\$22.83	\$1798.03
23	Summer Period Weighted Avg. COG	\$0.6927														
24	LDAC	\$0.1845														
25	TOTAL	\$135.75	\$238.91	\$303.88	\$294.97	\$289.43	\$178.75	\$1,441.68	\$99.29	\$55.61	\$46.58	\$45.03	\$44.76	\$65.08	\$356.34	\$1,798.03
	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	\$9.93	\$18.95	\$29.86	\$23.01	\$9.63	\$5.64	\$97.03							
		% Change	8.92%	9.86%	12.53%	9.69%	3.89%	3.66%	8.21%							
	LDAC Change Winter	\$ Change	\$6.14	\$11.71	\$14.88	\$14.41	\$12.24	\$7.17	\$66.54							
		% Change	5.51%	6.09%	6.25%	6.07%	4.94%	4.65%	5.63%							
26	Typical Usage: therms	51	96	125	121	119	70	582	43	19	14	13	13	24	124	706
27	Winter 2021 - 2022															
28	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	\$ 706.28
29	First 50 units @	\$0.7603	\$38.02	\$38.02	\$38.02	\$38.02	\$38.02	\$38.02	\$28.09						\$0.00	\$0.00
30	Over 50 units @	\$0.7603	\$0.41	\$35.32	\$57.30	\$54.29	\$52.41	\$14.96	\$214.69						\$11.19	\$33.63
31	COG 1	\$0.9392	\$47.47					\$47.47	\$27.18						\$27.18	\$27.18
32	COG 2	\$0.9392		\$90.59				\$90.59		\$16.90					\$16.90	\$16.90
33	COG 3	\$0.8975			\$112.52			\$112.52			\$12.33				\$12.33	\$12.33
34	COG 4	\$0.9462				\$114.87		\$114.87				\$11.55			\$11.55	\$11.55
35	COG 5	\$1.0547					\$125.44	\$125.44					\$14.02		\$14.02	\$14.02
36	COG 6	\$1.0547						\$73.49							\$26.65	\$26.65
37	LDAC	\$0.0631	\$3.19	\$6.09				\$9.28	\$3.49	\$1.51	\$1.10	\$1.03	\$1.02	\$1.94	\$10.10	\$10.10
38	LDAC 2, January 1	\$0.0658		\$8.25	\$7.99			\$16.24								
39	LDAC 3, March 1	\$0.0816				\$9.71	\$5.69	\$15.39								
40	Summer 2022															
41	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	\$ 706.28
42	First 50 units @	\$0.6782	\$28.47	\$46.70	\$65.59	\$57.61	\$41.65	\$24.40	\$17.43	\$2.43	\$1.78	(\$0.95)	(\$4.07)	(\$7.74)	\$8.87	\$269.30
43	Over 50 units @	\$0.6782	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$11.19	\$11.59	\$22.04	\$0.00	\$0.00
44	Eff. Aug 1, 2022 All @	\$0.8841													\$11.19	\$11.19
45	Eff. Sept 1, 2022 All @	\$0.9266													\$33.63	\$33.63
46	COG 1	\$0.6361						\$0.6361	\$27.18	\$16.90					\$27.18	\$27.18
47	COG 2	\$0.9126						\$0.9126		\$16.90					\$16.90	\$16.90
48	COG 3	\$0.9126						\$0.9126			\$12.33				\$12.33	\$12.33
49	COG 4	\$0.9126						\$0.9126				\$11.55			\$11.55	\$11.55
50	COG 5	\$1.1204						\$1.1204					\$14.02		\$14.02	\$14.02
51	COG 6	\$1.1204						\$1.1204						\$26.65	\$26.65	\$26.65
52	LDAC	\$0.0816	\$3.49	\$1.51	\$1.10	\$1.03	\$1.02	\$10.10	\$3.49	\$1.51	\$1.10	\$1.03	\$1.02	\$1.94	\$10.10	\$10.10
53	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
54	Change	\$24.47	\$46.70	\$65.59	\$57.61	\$41.65	\$24.40	\$260.42	\$17.43	\$2.43	\$1.78	(\$0.95)	(\$4.07)	(\$7.74)	\$8.87	\$269.30
55	% Chg	21.99%	24.30%	27.53%	24.27%	16.81%	15.81%	22.0%	21.30%	4.58%	3.96%	-2.07%	-8.34%	-10.63%	2.55%	17.62%

*-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

		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
	Typical Usage: therms (*)	138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099
Winter 2022 - 2023																
4	Customer Charge units @	\$ 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	\$1.1496	\$158.90						\$158.90							
7	COG 2	\$1.1496		\$333.23					\$333.23							
8	COG 3	\$1.1496			\$460.72				\$460.72							
9	COG 4	\$1.1496				\$456.46			\$456.46							
10	COG 5	\$1.1496					\$428.78		\$428.78							
11	COG 6	\$1.1496						\$244.48	\$244.48							
12	LDAC	\$0.0488	\$6.75	\$14.15	\$19.56	\$19.38	\$18.20	\$10.38	\$88.40							
Summer 2023																
14	Customer Charge units @	\$ 80.00	\$ 80.00	\$ 80.00	\$ 80.00	\$ 80.00	\$ 80.00	\$ 480.00	\$ 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	\$28.38	\$10.21	\$6.62				\$45.20	
16	All eff. Aug 1, 2023 units @	\$0.2554						\$28.21			\$6.62	\$6.56	\$15.04		\$28.21	
17	COG 1	\$0.7394	\$82.09					\$82.09	\$82.09						\$82.09	
18	COG 2	\$0.7394		\$29.52				\$29.52		\$29.52					\$29.52	
19	COG 3	\$0.7394			\$19.14			\$19.14			\$19.14				\$19.14	
20	COG 4	\$0.7394				\$19.16		\$19.16				\$19.16			\$19.16	
21	COG 5	\$0.7394					\$18.98	\$18.98					\$18.98		\$18.98	
22	COG 6	\$0.7394						\$43.53					\$43.53		\$43.53	
23	Summer Period Weighted Avg. COG	\$0.7394														
24	LDAC	\$ 0.0488	\$5.42	\$1.95	\$1.26	\$1.26	\$1.25	\$2.87	\$5.42	\$1.95	\$1.26	\$1.26	\$1.25	\$2.87	\$14.02	
25	TOTAL		\$280.97	\$501.46	\$662.71	\$657.32	\$622.31	\$389.21	\$3,114.00	\$195.89	\$121.68	\$107.02	\$107.05	\$106.79	\$141.44	\$779.87
	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	\$26.88	\$56.38	\$94.66	\$74.45	\$29.47	\$16.80	\$298.64							
		% Change	11%	13%	17%	13%	5%	5%	11%							
	LDAC Change Winter	\$ Change	\$1.77	\$3.71	\$1.60	\$1.59	-\$0.60	-\$0.34	\$7.73							
		% Change	0.7%	0.9%	0.3%	0.3%	-0.1%	-0.1%	0.3%							
Winter 2021 - 2022																
26	Typical Usage: therms	138	290	401	397	373	213	1,812	111	40	26	26	26	59	287	2,099
Winter 2021 - 2022																
29	Customer Charge units @	\$ 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	\$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								
Summer 2022																
43	Customer Charge** units @	\$ 75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$75.09	\$465.27	\$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	\$15.68	\$8.35	\$5.41				\$29.43	
45	Over 75 units @	\$0.2090	\$7.53	\$0.00	\$0.00			\$7.53	\$7.53	\$0.00	\$0.00				\$7.53	
46	Eff. Aug. 1, 2022 All @	\$0.2320						\$6.01			\$6.01				\$6.01	
47	Eff. Sept. 1, 2022 All @	\$0.2556						\$6.56			\$6.56	\$15.05			\$21.61	
48	COG 1	\$0.6630	\$73.61					\$73.61	\$73.61						\$73.61	
49	COG 2	\$0.9395		\$37.51				\$37.51		\$37.51					\$37.51	
50	COG 3	\$0.9395						\$24.32			\$24.32				\$24.32	
51	COG 4	\$0.9395						\$24.35			\$24.35				\$24.35	
52	COG 5	\$1.1473						\$29.45			\$29.45				\$29.45	
53	COG 6	\$1.1473						\$67.55			\$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	\$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		\$40.00	\$78.51	\$119.85	\$99.45	\$51.16	\$31.28	\$420.25	\$18.39	(\$1.28)	\$0.89	(\$4.62)	(\$10.52)	(\$24.12)	(\$21.26)
58	% Chg		16.60%	18.56%	22.08%	17.83%	8.96%	8.74%	15.60%	10.36%	-1.04%	0.84%	-4.14%	-8.97%	-14.57%	-2.65%

*-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	\$642.62								
6	COG 1	\$1.1496	\$1,965.56					\$1,965.56								
7	COG 2	\$1.1496		\$3,494.83				\$3,494.83		\$48.69						
8	COG 3	\$1.1496			\$4,545.67			\$4,545.67		0.87%						
9	COG 4	\$1.1496				\$4,320.60		\$4,320.60								
10	COG 5	\$1.1496					\$4,145.91	\$4,145.91								
11	COG 6	\$1.1496						\$2,562.46								
12	LDAC	\$0.0488	\$83.44	\$148.35	\$192.96	\$183.41	\$175.99	\$108.78								
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	\$0.7394							\$948.99						\$948.99	
18	COG 2	\$0.7394								\$389.07					\$389.07	
19	COG 3	\$0.7394									\$288.98				\$288.98	
20	COG 4	\$0.7394										\$282.46			\$282.46	
21	COG 5	\$0.7394											\$287.91		\$287.91	
22	COG 6	\$0.7394												\$610.22	\$610.22	
23	Summer Period Weighted Avg. COG	\$0.7394														
24	LDAC	\$ 0.0488							\$62.63	\$25.68	\$19.07	\$18.64	\$19.00	\$40.27	\$185.30	
25	TOTAL		\$2,766.93	\$4,744.63	\$6,103.60	\$5,812.54	\$5,586.62	\$3,538.86	\$28,553.18	\$1,606.65	\$840.15	\$645.72	\$636.15	\$644.09	\$1,113.25	\$5,437.33
	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	\$332.55	\$591.29	\$933.96	\$704.69	\$284.90	\$176.09	\$3,023.49							
		% Change	14.03%	14.63%	18.46%	14.09%	5.46%	5.32%	12.09%							
	LDAC Change Winter	\$ Change	\$21.89	\$38.91	\$15.82	\$15.03	-\$5.77	-\$3.57	\$82.31							
		% Change	0.923%	0.963%	0.313%	0.300%	-0.111%	-0.108%	0.33%							
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
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	\$959.69	\$590.69								
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	\$0.9821				\$3,615.91		\$3,615.91								
35	COG 5	\$1.0706					\$3,861.00	\$3,861.00								
36	COG 6	\$1.0706						\$2,386.37								
37	Winter Period Weighted Avg. COG	\$0.9844														
38	LDAC	\$ 0.0360	\$61.55	\$109.44				\$170.99								
39	LDAC 2, January 1	\$ 0.0448			\$177.14	\$168.37		\$345.52								
40	LDAC 3, March 1	\$ 0.0504					\$181.76	\$112.34								
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
55	Change		\$396.64	\$703.39	\$1,044.27	\$809.65	\$365.52	\$226.82	\$3,546.30	\$196.29	(\$14.93)	(\$46.65)	(\$71.82)	(\$159.53)	(\$338.12)	(\$483.45)
56	% Chg		16.73%	17.41%	20.64%	16.18%	7.00%	6.85%	14.18%	13.92%	-1.75%	-6.74%	-10.14%	-19.85%	-23.30%	-8.17%

*-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

		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	\$205.24								
6	COG 1	\$1.0604	\$1,573.73						\$1,573.73								
7	COG 2	\$1.0604		\$2,085.42					\$2,085.42								
8	COG 3	\$1.0604		\$2,311.32					\$2,311.32								
9	COG 4	\$1.0604			\$2,267.86				\$2,267.86								
10	COG 5	\$1.0604				\$2,244.70			\$2,244.70								
11	COG 6	\$1.0604					\$1,823.81		\$1,823.81								
12	LDAC	\$0.0488	\$72.42	\$95.97	\$106.37	\$104.37	\$103.30	\$83.93	\$566.37								
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	\$215.09	\$205.27	\$230.98	\$651.34	\$678.96	
16	All eff. Aug 1, 2023 units @	\$0.1763													\$929.17	\$929.17	
17	COG 1	\$0.6342							\$929.17						\$784.40	\$784.40	
18	COG 2	\$0.6342								\$784.40					\$719.18	\$719.18	
19	COG 3	\$0.6342									\$719.18				\$773.74	\$773.74	
20	COG 4	\$0.6342										\$773.74			\$738.41	\$738.41	
21	COG 5	\$0.6342											\$738.41		\$830.91	\$830.91	
22	COG 6	\$0.6342												\$830.91			
23	Summer Period Weighted Avg. COG	\$0.6342															
24	LDAC	\$ 0.0488							\$71.50	\$60.36	\$55.34	\$59.54	\$56.82	\$63.94	\$367.49		
25	TOTAL		\$2,133.84	\$2,754.49	\$3,028.49	\$2,975.78	\$2,947.69	\$2,437.17	\$16,277.45	\$1,484.99	\$1,288.67	\$1,200.23	\$1,273.37	\$1,225.50	\$1,350.83	\$7,823.60	\$24,101.05
	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	\$319.23	\$423.02	\$559.74	\$445.06	\$210.84	\$171.30	\$2,129.19								
		% Change	17.61%	18.27%	22.69%	17.60%	7.67%	7.51%	15.04%								
	LDAC Change Winter	\$ Change	\$19.00	\$25.17	\$8.72	\$8.55	-\$3.39	-\$2.75	\$55.30								
		% Change	1.05%	1.09%	0.35%	0.34%	-0.12%	-0.12%	0.39%								
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		\$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		\$321.56	\$438.58	\$561.95	\$446.51	\$200.03	\$155.33	\$2,123.96	\$103.21	(\$258.38)	(\$238.78)	(\$275.36)	(\$518.00)	(\$582.89)	(\$1,770.20)	\$353.76
58	% Chg		17.74%	18.94%	22.78%	17.65%	7.28%	6.81%	15.01%	7.47%	-16.70%	-16.59%	-17.78%	-29.71%	-30.14%	-18.45%	1.49%

*-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

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	\$0.1845
CGA	\$0.9691	\$1.1357

Usage (Therms)	Winter 2021-2022 Bill Amount	Winter 2022-2023 Bill Amount	Total Bill		Base Rate		CGA		LDAC		
5	\$31.20	\$33.43	\$2.24	7.2%	\$0.83	2.7%	\$0.83	2.7%	\$0.57	1.8%	
10	\$40.20	\$44.67	\$4.47	11.1%	\$1.66	4.1%	\$1.67	4.2%	\$1.14	2.8%	
20	\$58.19	\$67.14	\$8.94	15.4%	\$3.33	5.7%	\$3.33	5.7%	\$2.29	3.9%	
25	\$67.19	\$78.37	\$11.18	16.6%	\$4.16	6.2%	\$4.17	6.2%	\$2.86	4.3%	
30	\$76.19	\$89.60	\$13.42	17.6%	\$4.99	6.5%	\$5.00	6.6%	\$3.43	4.5%	
45	\$103.18	\$123.31	\$20.12	19.5%	\$7.48	7.2%	\$7.50	7.3%	\$5.14	5.0%	
50	\$112.18	\$134.54	\$22.36	19.9%	\$8.32	7.4%	\$8.33	7.4%	\$5.71	5.1%	
75	\$157.17	\$190.71	\$33.54	21.3%	\$12.48	7.9%	\$12.50	8.0%	\$8.57	5.5%	
Monthly*	125	\$247.15	\$303.05	\$55.90	22.6%	\$20.79	8.4%	\$20.83	8.4%	\$14.28	5.8%
	150	\$292.14	\$359.22	\$67.08	23.0%	\$24.95	8.5%	\$24.99	8.6%	\$17.14	5.9%
	200	\$382.13	\$471.56	\$89.43	23.4%	\$33.27	8.7%	\$33.32	8.7%	\$22.85	6.0%

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

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION

Typical Residential Heating Bill - 124 therms/Summer Comparison of Summer 2023 vs. Summer 2022

			May	June	July	August	Sept	October	Summer
1	Typical Usage: therms(*)		43	19	14	13	13	24	124
2									
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 \$0.6927	\$29.60						\$29.60
8		COG 2 \$0.6927		\$12.83					\$12.83
9		COG 3 \$0.6927			\$9.36				\$9.36
10		COG 4 \$0.6927				\$8.77			\$8.77
11		COG 5 \$0.6927					\$8.67		\$8.67
12		COG 6 \$0.6927						\$16.48	\$16.48
13	Summer Period 2021 Avg. COG \$0.6927*								
14	LDAC \$0.1845		\$7.88	\$3.42	\$2.49	\$2.34	\$2.31	\$4.39	\$22.83
15	TOTAL		\$99.29	\$55.61	\$46.58	\$45.03	\$44.76	\$65.08	\$356.34
Base Rate 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			\$2.42	-\$4.07	-\$2.97	-\$2.78	-\$5.35	-\$10.17	-\$22.93
% Change			2.96%	-7.66%	-6.63%	-6.05%	-10.96%	-13.97%	-6.60%
LDAC Change			\$4.40	\$1.91	\$1.39	\$1.30	\$1.29	\$2.45	\$12.73
% Change			5.37%	3.58%	3.10%	2.83%	2.64%	3.36%	3.66%
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16	Typical Usage: therms		43	19	14	13	13	24	124
17									
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		\$17.43	\$2.43	\$1.78	-\$0.95	-\$4.07	-\$7.74	\$8.87
34	% Chg		21.30%	4.58%	3.96%	-2.07%	-8.34%	-10.63%	2.55%

*-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	Typical Usage: therms(*)		111	40	26	26	26	59	287
2									
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 \$0.7394	\$82.09						\$82.09
8		COG 2 \$0.7394		\$29.52					\$29.52
9		COG 3 \$0.7394			\$19.14				\$19.14
10		COG 4 \$0.7394				\$19.16			\$19.16
11		COG 5 \$0.7394					\$18.98		\$18.98
12		COG 6 \$0.7394						\$43.53	\$43.53
13	Summer Period 2021 Avg. COG \$0.7394*								
14	LDAC \$0.0488		\$5.42	\$1.95	\$1.26	\$1.26	\$1.25	\$2.87	\$14.02
15	TOTAL		\$195.89	\$121.68	\$107.02	\$107.05	\$106.79	\$141.44	\$779.87
	Base Rate Change	\$ Change	\$10.08	\$6.77	\$6.12	\$11.53	\$11.47	\$19.95	\$65.91
		% Change	5.68%	5.51%	5.76%	10.80%	10.20%	12.42%	8.38%
	COG Change	\$ Change	\$8.48	-\$7.99	-\$5.18	-\$5.19	-\$10.47	-\$24.02	-\$44.36
		% Change	4.78%	-6.50%	-4.88%	-4.86%	-9.32%	-14.95%	-5.64%
	LDAC Change	\$ Change	-\$0.18	-\$0.06	-\$0.04	-\$0.04	-\$0.04	-\$0.09	-\$0.46
		% Change	-0.10%	-0.05%	-0.04%	-0.04%	-0.04%	-0.06%	-0.06%
16	Typical Usage: therms		111	40	26	26	26	59	287
17									
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		\$18.39	-\$1.28	\$0.89	\$0.29	-\$5.61	-\$19.21	-\$6.53
34	% Chg		10.36%	-1.04%	0.84%	0.27%	-4.99%	-11.96%	-0.83%

*-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	Summer
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	\$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 \$0.7394	\$948.99						\$948.99
8		COG 2 \$0.7394		\$389.07					\$389.07
9		COG 3 \$0.7394			\$288.98				\$288.98
10		COG 4 \$0.7394				\$282.46			\$282.46
11		COG 5 \$0.7394					\$287.91		\$287.91
12		COG 6 \$0.7394						\$610.22	\$610.22
13		Summer Period 2021 Avg. COG \$0.7394*							
14		LDAC \$0.0488	\$62.63	\$25.68	\$19.07	\$18.64	\$19.00	\$40.27	\$185.30
15		TOTAL	\$1,477.48	\$737.11	\$604.75	\$633.79	\$641.73	\$1,110.89	\$5,205.76
Base Rate Change			\$ Change	-\$28.88	-\$11.84	-\$8.79	\$0.00	\$0.00	\$0.00
			% Change	-2.05%	-1.38%	-1.27%	0.00%	0.00%	0.00%
COG Change			\$ Change	\$98.06	-\$105.29	-\$78.20	-\$76.44	-\$158.83	-\$336.63
			% Change	6.95%	-12.31%	-11.30%	-10.83%	-19.82%	-23.23%
LDAC Change			\$ Change	-\$2.05	-\$0.84	-\$0.63	-\$0.61	-\$0.62	-\$1.32
			% Change	-0.15%	-0.10%	-0.09%	-0.09%	-0.08%	-0.09%
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			May	June	July	August	Sept	October	Summer
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	\$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	\$67.13	-\$117.97	-\$87.62	-\$71.82	-\$159.53	-\$338.12	-\$707.94
33		% Chg	4.76%	-13.80%	-12.66%	-10.18%	-19.91%	-23.33%	-11.97%

*-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									
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 @ \$0.1770	\$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 \$0.6342	\$929.17						\$929.17
8		COG 2 \$0.6342		\$784.40					\$784.40
9		COG 3 \$0.6342			\$719.18				\$719.18
10		COG 4 \$0.6342				\$773.74			\$773.74
11		COG 5 \$0.6342					\$738.41		\$738.41
12		COG 6 \$0.6342						\$830.91	\$830.91
13	Summer Period 2021 Avg. COG \$0.6342*								
14		LDAC \$0.0488	\$71.50	\$60.36	\$55.34	\$59.54	\$56.82	\$63.94	\$367.49
15	TOTAL		\$1,484.99	\$1,288.67	\$1,200.23	\$1,273.37	\$1,225.50	\$1,350.83	\$7,823.60
Base Rate Change			\$44.46	\$34.01	\$29.30	\$2.36	\$2.36	\$2.36	\$114.85
% Change			3.22%	2.20%	2.60%	0.20%	0.14%	0.12%	1.29%
COG Change			\$61.10	-\$290.41	\$47.29	\$50.88	-\$515.33	-\$579.88	-\$1,226.36
% Change			4.42%	-18.77%	4.20%	4.21%	-29.60%	-30.02%	-13.72%
LDAC Change			-\$2.34	-\$1.98	-\$1.81	-\$1.95	-\$1.86	-\$2.10	-\$12.05
% Change			-0.17%	-0.13%	-0.16%	-0.16%	-0.11%	-0.11%	-0.13%
16	Typical Usage: therms		1,465	1,237	1,134	1,220	1,164	1,310	7,530
17									
18	Summer 2022								
19	Customer Charge	units @ \$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$222.64	\$1,335.84
20	First	1,000 units @ \$0.1562	\$156.20	\$156.20	\$156.20				\$468.60
21	Over	1,000 units @ \$0.1312	\$61.02	\$31.07	\$17.58				\$109.67
22	Eff. Aug. 1, 2022	All @ \$0.1656				\$202.04			\$202.04
23	Eff. Sept. 1, 2022	All @ \$0.1770					\$206.08	\$231.90	\$437.98
24		COG 1 \$0.5925	\$868.08						\$868.08
25		COG 2 \$0.8690		\$1,074.80					\$1,074.80
26		COG 3 \$0.5925			\$671.89				\$671.89
27		COG 4 \$0.5925				\$722.87			\$722.87
28		COG 5 \$1.0768					\$1,253.74		\$1,253.74
29		COG 6 \$1.0768						\$1,410.79	\$1,410.79
30	Summer Period 2020 Avg. COG \$0.7971*								
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	\$1,125.46	\$1,209.03	\$1,741.14	\$1,931.36	\$8,935.83
33	Change		\$103.21	-\$258.38	\$74.77	\$64.34	-\$515.64	-\$580.53	-\$1,112.24
34	% Chg		7.47%	-16.70%	6.64%	5.32%	-29.62%	-30.06%	-12.45%

*-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	\$0.1845
CGA	\$0.8781	\$0.6927

	Usage (Therms)	Summer 2022 Bill Amount	Summer 2023 Bill Amount	Total Bill		Base Rate		COG		LDAC	
	5	\$30.81	\$31.22	\$0.41	1.3%	\$0.82	2.7%	(\$0.93)	-3.0%	\$0.51	1.7%
	10	\$39.43	\$40.24	\$0.81	2.1%	\$1.64	4.2%	(\$1.85)	-4.7%	\$1.03	2.6%
	20	\$56.65	\$58.27	\$1.62	2.9%	\$3.27	5.8%	(\$3.71)	-6.5%	\$2.06	3.6%
Monthly*	25	\$65.26	\$67.29	\$2.03	3.1%	\$4.09	6.3%	(\$4.63)	-7.1%	\$2.57	3.9%
	30	\$73.88	\$76.31	\$2.43	3.3%	\$4.91	6.6%	(\$5.56)	-7.5%	\$3.09	4.2%
	45	\$99.71	\$103.36	\$3.65	3.7%	\$7.36	7.4%	(\$8.34)	-8.4%	\$4.63	4.6%
	50	\$108.33	\$112.38	\$4.05	3.7%	\$8.18	7.6%	(\$9.27)	-8.6%	\$5.15	4.8%
	75	\$151.39	\$157.47	\$6.08	4.0%	\$12.27	8.1%	(\$13.90)	-9.2%	\$7.72	5.1%
	125	\$237.52	\$247.65	\$10.13	4.3%	\$20.44	8.6%	(\$23.17)	-9.8%	\$12.86	5.4%
	150	\$280.58	\$292.74	\$12.16	4.3%	\$24.53	8.7%	(\$27.80)	-9.9%	\$15.44	5.5%
	200	\$366.71	\$382.92	\$16.21	4.4%	\$32.71	8.9%	(\$37.07)	-10.1%	\$20.58	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
New Hampshire Property Tax Expense Analysis

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-1
Page 1 of 3

(1)	(2)	(3)	(4)	(5)
Line No.	Total Amount	State	Local	Source
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

Notes:
(1) Includes 9 months at Docket DG 17-070 recovery level and 3 months at Docket DG 21-104 recovery level allocated by DG 21-104 test year revenue

Northern Utilities, Inc. - New Hampshire Division
New Hampshire Property Tax Expense Analysis
2021 Property Tax Bill Detail

Northern Utilities, Inc.
New Hampshire Division
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Page 2 of 3

	(1)	(2)	(3)	(4)	(5)
Line No.	Description	1st 2021 Bill Installment	2nd 2021 Bill Installment	Total 2021 Calendar Year Exp.	Attachment NUI-DTN-2 Page Ref
1	Atkinson	\$ 12,700.00	\$ 9,173.00	\$ 21,873.00	1 & 2
2	Brentwood	15,914.00	13,201.00	29,115.00	3 thru 6
3	Dover	425,759.62	403,158.21	828,917.83	7 thru 10
4	Durham	99,645.00	85,892.00	185,537.00	11 & 12
5	East Kingston	7,654.00	6,748.00	14,402.00	13 & 14
6	Epping	12,764.42	84,759.72	97,524.14	15 & 16
7	Exeter	155,292.76	132,761.87	288,054.63	17 thru 22
8	Greenland	5,347.00	7,967.00	13,314.00	23 & 24
9	Hampton--Class 4000	131,532.00	130,965.00	262,497.00	25 & 26
10	Hampton--Class 5000	67,110.00	69,528.00	136,638.00	27 & 28
11	Hampton Falls	352.00	1,396.00	1,748.00	29 & 30
12	Kensington	13,429.00	10,259.00	23,688.00	31 & 32
13	Kingston ⁽¹⁾	-	10,260.27	10,260.27	33
14	Madbury	4,063.00	3,866.00	7,929.00	34 & 35
15	Newington	11,424.09	11,626.11	23,050.20	36 & 37
16	North Hampton	13,489.00	13,124.00	26,613.00	38 & 39
17	Plaistow	96,526.00	75,025.00	171,551.00	40 & 41
18	Portsmouth	304,398.00	332,796.00	637,194.00	42 thru 47
19	Rochester ⁽²⁾	295,997.00	304,220.00	600,217.00	48 thru 53
20	Rollinsford	2,442.00	3,911.00	6,353.00	54 thru 57
21	Salem	95,593.00	92,334.00	187,927.00	58 thru 61
22	Seabrook	84,389.00	74,248.00	158,637.00	62 thru 65
23	Somersworth	126,697.00	103,590.00	230,287.00	66 thru 71
24	Stratham	4,261.00	4,758.00	9,019.00	72 & 73
25	Total			\$ 3,972,346.07	

Notes:

(1) Town did not bill Company until second half of year

(2) Rochester Column 2 reflects 2020 final bill (2nd installment) and Column 3 reflects 2021 1st installment.

This is due to 2021 2nd installment being sent to Company too late in year to close in 2021

**Northern Utilities, Inc. - New Hampshire Division
New Hampshire Property Tax Expense Analysis
2021 Property Tax Expense Reconciliation**

**Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-1
Page 3 of 3**

(1)

(2)

Line No.	Description	Amount
1	Attachment NUI-DTN-1, P1, Line 10	\$ 5,342,824
2	Property Tax per NHPUC Annual Report, Page 25b, Line 10	4,879,837
3	Difference	<u>\$ 462,987</u>
4	Reconciliation of Difference	
5	Abatements	\$ (19,036)
6	Reclass of Deferred Property Taxes	(443,983)
7	Rochester Invoice Discrepancy	31
8	Dover State Education Correction	2
9	Brentwood Bill Correction	<u>(1)</u>
10	Reconciliation (s/b zero)	<u>\$ 0</u>

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 1 of 80

Remit To	2021 ATKINSON, NH PROPERTY TAX -- BILL 1 OF 2		
TOWN OF ATKINSON, NH TAX COLLECTOR PO BOX 1206 ATKINSON, NH 03811	NORTHERN UTILITIES INC		
	Map	Lot	Sub
	000001	000021	000000
	Net Value		
			\$ 1,564,100
	Property Location		Acres
	UTILITIES - GAS		0.000
8% APR Charged After 07/01/2021	Invoice	Summary of Taxes	
PLEASE include phone # and map & lot # on check Make ck payable to ATKINSON TAX COLLECTOR	2021P01032206	First Bill: \$ 12,700.00	
Billed To	Billing Date		
NORTHERN UTILITIES INC 6 LIBERTY LANE WEST HAMPTON, NH 03842-5039	05/11/2021	- Abated/Paid: \$ 0.00	
	Payment Due Date	- Vet. Credits: \$ 0.00	
	07/01/2021		
	Amount Due:	\$ 12,700.00	
	Amount Enclosed:	12,700	

Please return top copy with your payment.

Northern Utilities, Inc.

New Hampshire Division
Attachment NUI-DTN-2
Page 2 of 80

Remit To		2021 ATKINSON, NH PROPERTY TAX			
TOWN OF ATKINSON, NH TAX COLLECTOR PO BOX 1206 ATKINSON, NH 03811		NORTHERN UTILITIES INC			
		Map	Lot	Sub	Net Value
		000001	000021	000000	\$ 1,999,400
		Property Location			Acres
		UTILITIES - GAS			0.000
8% APR Charged After 12/30/2021		Invoice		Summary of Taxes	
cks payable to ATKINSON TAX COLLECTOR ck for other amounts due put phone # plus map-lot-sublot on ck		2021P02032404		Total Tax:	\$ 21,873.00
Billed To		Billing Date		- 1st Bill:	
NORTHERN UTILITIES INC 6 LIBERTY LANE WEST HAMPTON, NH 03842-5039		11/18/2021		- Abated/Paid:	
		Payment Due Date		- Vet. Credits:	
		12/30/2021		\$ 0.00	
		Amount Due:		\$ 9,173.00	
		Amount Enclosed:			

Please return top copy with your payment.

Tax Collector Office Hours		2021 ATKINSON, NH PROPERTY TAX -- BILL 2 OF 2			
TOWN OF ATKINSON, NH Jan-May 31 M-T-TH 5P-8P W 9A-1P&5P-8P F 9A-3P June1-Dec31 M 5P-8P T-W-TH 9A-3P F CLOSED (603) 362-5357 Tax Collector: DEBRA L DESIMONE cks payable to ATKINSON TAX COLLECTOR ck for other amounts due put phone # plus map-lot-sublot on ck		NORTHERN UTILITIES INC			
		Map	Lot	Sub	Pg-Line
		000001	000021	000000	0324-04
		Property Location			Acres
		UTILITIES - GAS			0.000
Tax Rates		Assessments		Invoice	
County:	\$ 0.66	Taxable Land:	0	2021P02032404	
School:	\$ 8.11	Buildings:	1,999,400	Billing Date	
Town:	\$ 2.17	Total:	1,999,400	11/18/2021	
				Payment Due Date	
				12/30/2021	
				Interest Rate	
				8% APR After 12/30/2021	
				Amount Due:	\$ 9,173.00

Total Tax Rate:	\$ 10.94	Net Value:	1,999,400
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Keep this copy for your records.

Northern Utilities, Inc.
New Hampshire Division

**TOWN OF BRENTWOOD
TAX COLLECTOR
1 DALTON ROAD
BRENTWOOD, NH 03833
REAL ESTATE TAX BILL**

TAX COLLECTOR OFFICE HOURS
MONDAY, WED & FRIDAY 8:30 AM - 4:30 PM
TUESDAY 8:30 AM - 7:00 PM
FRIDAY 8:30 AM - 4:00 PM
(603) 642-6400 EXT. 114

First Bill

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	007634-002138	05/19/2021	8% if paid after	07/01/2021

MAP / PARCEL	LOCATION OF PROPERTY	AREA
201.043.001	B/O DALTON RD	

OWNER OF RECORD		TAX CALCULATION	
NORTHERN UTILITIES 6 LIBERTY LANE WEST 6 LIBERTY LN W HAMPTON, NH 03842-1704		1/2 Tax At 2020 Tax Rate	
		School Tax Amount	7.18
		State Tax Amount	0.79
		County Tax Amount	0.36
		Precinct Tax Amount	1.67
		Total Tax	10.00
		Estimated Tax Amt	5.00
		<Amount To Pay>	5.00

TAX RATE	ASSESSED VALUATION
2020 Tax Rate	Buildings 400
School 16.650	
State 1.830	
County 0.830	
Prct 001 3.880	
TOTAL 23.190	NET VALUE 400

INFORMATION TO TAXPAYERS

RSA 76:11-A INFORMATION REQUIRED. THE TAX BILL WHICH IS SENT TO EVERY PERSON TAXED, AS PROVIDED IN RSA 76:11, SHALL SHOW THE RATE FOR MUNICIPAL, SCHOOL AND COUNTY TAXES SEPARATELY. THE ASSESSED VALUATION OF ALL LANDS AND BUILDINGS FOR WHICH SAID PERSON IS BEING TAXED.

THE TAXPAYER MAY BY MARCH 1ST, FOLLOWING THE DATE OF NOTICE OF TAX AND NOT AFTERWARDS, APPLY IN WRITING TO THE SELECTMAN OR ASSESSOR(S) FOR A TAX ABATEMENT OR DEFERRAL.

IF YOU ARE ELDERLY, DISABLED, BLIND, A VETERAN OR VETERANS SPOUSE, OR UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE, YOU MAY BE ELIGIBLE FOR A TAX EXEMPTION, CREDIT, ABATEMENT OR DEFERRAL. APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.

TAXPAYERS DESIRING ANY INFORMATION IN REGARD TO TAXATION, ASSESSMENTS, EXEMPTIONS, OR CHANGE OF ADDRESS MUST REFER ALL INQUIRIES TO THE BOARD OF SELECTMEN NOT TO TAX COLLECTOR.

ALL TAXES ARE ASSESSED ON APRIL 1ST OF EACH YEAR. TAX BILLS ARE MAILED TO THE LAST KNOWN ADDRESS.

PAYMENT POLICIES:

- PAYMENT OF THIS BILL DOES NOT PREVENT THE COLLECTION OF PREVIOUS UNPAID TAXES NOR DOES AN ERROR IN THE NAME OF THE PERSON(S) TAXES PREVENT COLLECTION
- IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE PROPER OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG TAX BILL
- IF THIS BILL IS PAID BY CHECK OR MONEY ORDER, IT IS NOT CONSIDERED PAID UNTIL THE CHECK OR MONEY ORDER IS CLEARED BY THE BANK
- PLEASE MAKE CHECK PAYABLE TO: TOWN OF BRENTWOOD
- PAYMENTS MAY BE MADE AT THE TAX COLLECTORS OFFICE AT 1 DALTON ROAD.

IF YOU WOULD LIKE A RECEIPT, PLEASE RETURN THE ENTIRE BILL AND A SELF-ADDRESSED STAMPED ENVELOPE.

Northern Utilities, Inc.
New Hampshire Division

6/29

PT 20210608 3168

TOWN OF BRENTWOOD
TAX COLLECTOR
1 DALTON ROAD
BRENTWOOD, NH 03833

TAX COLLECTOR OFFICE HOURS
MONDAY, WED & FRIDAY 8:30 AM - 4:30 PM
TUESDAY 8:30 AM - 7:00 PM
FRIDAY 8:30 AM - 4:00 PM
(603) 642-6400 EXT. 114

First Bill

REAL ESTATE TAX BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	007634-002046	05/19/2021	8% if paid after	07/01/2021

MAP / PARCEL	LOCATION OF PROPERTY	AREA
201.043.000	B/O DALTON RD	

OWNER OF RECORD	TAX CALCULATION
NORTHERN UTILITIES 6 LIBERTY LN W HAMPTON, NH 03842-1704	1/2 Tax At 2020 Tax Rate
	Municipal Tax Amount 5,779.67
	School Tax Amount 24,801.95
	County Tax Amount 1,236.38
	Total Tax 31,818.00

TAX RATE	ASSESSED VALUATION	ESTIMATED TAX AMT PAID TO DATE
2020 Tax Rate	Buildings 1,489,600	Estimated Tax Amt 15,909.00
Municipal 3.880		Paid to Date -0.71
School 16.650		
County 0.830		
TOTAL 21.360	NET VALUE 1,489,600	<Amount To Pay> 15,908.29

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**TOWN OF BRENTWOOD
TAX COLLECTOR
1 DALTON ROAD
BRENTWOOD, NH 03833**

TAX COLLECTOR OFFICE HOURS
Northern Utilities, Inc.
New Hampshire Division
Attachment NO1/DTN-2
Page 5 of 80
TUESDAY 8:30 AM - 4:00 PM
FRIDAY 8:30 AM - 4:00 PM
(603) 642-6400 EXT. 114

Second Bill

REAL ESTATE TAX BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	007634-002138	10/28/2021	8% if paid after	12/01/2021
MAP / PARCEL	LOCATION OF PROPERTY		AREA	
201.043.001	B/O DALTON RD			
OWNER OF RECORD			TAX CALCULATION	
NORTHERN UTILITIES 6 LIBERTY LANE WEST 6 LIBERTY LN W HAMPTON, NH 03842-1704			School Tax Amount	6.42
			State Tax Amount	0.72
			County Tax Amount	0.34
			Precinct Tax Amount	1.52
			Total Tax	9.00
TAX RATE	ASSESSED VALUATION		Actual Tax Amount	9.00
School 15.860	Buildings	400	Paid to Date	-5.00
State 1.780				
County 0.830				
Prct 001 3.770				
TOTAL 22.240	NET VALUE	400	<Amount To Pay>	4.00

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BMS-LZ-TB

↑ DETACH HERE ↑ TO INSURE PROPER CREDIT, RETURN ENTIRE BOTTOM PORTION OF BILL ↑ DETACH HERE ↑

**TOWN OF BRENTWOOD, N.H.
REAL ESTATE TAX BILL**

1 DALTON ROAD
BRENTWOOD, NH 03833

MAP/PARCEL NO.	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
201.043.001	B/O DALTON RD	2021	007634-002138	12/01/2021

8.00% APR Interest Charged After
07/01/2021 On 1st Bill 5.00
12/01/2021 On 2nd Bill 4.00

<Amount To Pay> 4.00

NORTHERN UTILITIES
6 LIBERTY LANE WEST
6 LIBERTY LN W
HAMPTON, NH 03842-1704

**TOWN OF BRENTWOOD
TAX COLLECTOR
1 DALTON ROAD
BRENTWOOD, NH 03833**

Second Bill REAL ESTATE TAX BILL

TAX COLLECTOR OFFICE HOURS
Northern Utilities, Inc.
New Hampshire Division
Attachment NU-DTN-2
8:30 AM - 4:30 PM
Page 6 of 80
TUESDAY 8:30 AM - 7:00 PM
FRIDAY 8:30 AM - 4:00 PM
(603) 642-6400 EXT. 114

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	007634-002046	10/28/2021	8% if paid after	12/01/2021
MAP / PARCEL	LOCATION OF PROPERTY		AREA	
201.043.000	B/O DALTON RD			
OWNER OF RECORD			TAX CALCULATION	
NORTHERN UTILITIES 6 LIBERTY LN W HAMPTON, NH 03842-1704			Municipal Tax Amount	5,363.13
			School Tax Amount	22,562.13
			County Tax Amount	1,180.74
			Total Tax	29,106.00
TAX RATE	ASSESSED VALUATION		Actual Tax Amount	29,106.00
Municipal 3.770	buildings	1,422,600	Paid to Date	-15,909.00
School 15.860				
County 0.830				
TOTAL	20.460	NET VALUE	<Amount To Pay>	13,197.00

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IF YOU WOULD LIKE A RECEIPT, PLEASE RETURN THE ENTIRE BILL AND A SELF-ADDRESSED STAMPED ENVELOPE.

BMS-LZ-TB

↑ DETACH HERE ↑ TO INSURE PROPER CREDIT, RETURN ENTIRE BOTTOM PORTION OF BILL ↑ DETACH HERE ↑

**TOWN OF BRENTWOOD, N.H.
REAL ESTATE TAX BILL**

1 DALTON ROAD
BRENTWOOD, NH 03833

MAP/PARCEL NO.	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
201.043.000	B/O DALTON RD	2021	007634-002046	12/01/2021

8.00% APR Interest Charged After
07/01/2021 On 1st Bill 15909.00
12/01/2021 On 2nd Bill 13197.00

<Amount To Pay> 13,197.00

NORTHERN UTILITIES
6 LIBERTY LN W
HAMPTON, NH 03842-1704



City of Dover, NH

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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P.O. Box 818
Dover, NH 03821-0818

PROPERTY TAX

REMINDER FOR TAX YEAR 2020

Reference No. 7628
Prop ID U0003 000000
Location:
DOVER CITYWIDE
Mailing Date: 05/01/2021

NORTHERN UTILITIES INC
ATTN: UTILITY ASSET ACCOUNTING
6 LIBERTY LANE
HAMPTON NH 03842

RECEIVED

MAY 20 2021

Tax Rate Information		
Tax Rate per \$1,000 OF NET ASSESSED VALUE		
City	9.19	\$341,414.01
County	2.51	\$93,248.01
Local School	11.22	\$416,829.73
	22.92	

ACCOUNTS PAYABLE

Property Tax and Credits
Net Property Tax \$851,491.75

Assessed Real Estate Values and Exemptions

Land	\$1,077,500
Building	\$36,073,100
Net Assessed Value	\$37,150,600

Interest of 8% per annum accrues on
unpaid balances after due date.

	Due Dates:	
	First Installment	Second Installment
	Jan 11, 2021	Jun 01, 2021
Tax	\$425,745.88	\$425,745.87
Payments	(\$425,745.88)	\$0.00

Total Due \$0.00 **\$425,745.87**

City Hall Hours of Operation:
Monday through Thursday 8:30am to 5:30pm
Friday 8:30am to 4:00pm
City Clerk & Tax Collector's office is located
on the Lower Level of City Hall

For COVID-19 pandemic related economic support and financial relief see
Dover CARES program information: <http://www.dover.nh.gov/dovercares>

Mail payment with lower portion in enclosed self-addressed envelope. Retain upper portion for your records.

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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City of Dover, NH

P.O. Box 818
Dover, NH 03821-0818

PROPERTY TAX

REMINDER FOR TAX YEAR 2020

Reference No. 7627
Prop ID K0018 Y00000
Location:
KENT AV
Mailing Date: 05/01/2021

NORTHERN UTILITIES INC
ATTN: UTILITIES ASSET ACCOUNTING
6 LIBERTY LANE WEST
HAMPTON NH 03842

Tax Rate Information		
Tax Rate per \$1,000 OF NET ASSESSED VALUE		
City	9.19	\$11.03
County	2.51	\$3.01
Local School	11.22	\$13.46
State School	1.93	\$2.32
	24.85	

Property Tax and Credits
Net Property Tax \$29.82

Assessed Real Estate Values and Exemptions

Land \$1,200
Net Assessed Value \$1,200

Interest of 8% per annum accrues on
unpaid balances after due date.

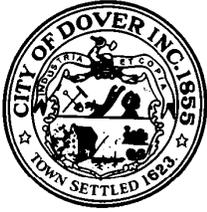
	Due Dates:	
	First Installment Jan 11, 2021	Second Installment Jun 01, 2021
Tax	\$14.91	\$14.91
Payments	(\$14.91)	\$0.00

Total Due \$0.00 \$14.91

City Hall Hours of Operation:
Monday through Thursday 8:30am to 5:30pm
Friday 8:30am to 4:00pm
City Clerk & Tax Collector's office is located
on the Lower Level of City Hall

For COVID-19 pandemic related economic support and financial relief see
Dover CARES program information: <http://www.dover.nh.gov/dovercares>

Mail payment with lower portion in enclosed self-addressed envelope. Retain upper portion for your records.



City of Dover, NH

Northern Utilities, Inc.
New Hampshire Division
Attachment NH-DTN-3
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Dec 24
12/24
ck

P.O. Box 818
Dover, NH 03821-0818

PROPERTY TAX

BILL FOR TAX YEAR 2021

Reference No. 7488
Prop ID K0018 Y00000
Location:
KENT AV
Mailing Date: 12/10/2021

NORTHERN UTILITIES INC
ATTN: UTILITIES ASSET ACCOUNTING
6 LIBERTY LANE WEST
HAMPTON NH 03842

Tax Rate Information		
Tax Rate per \$1,000 OF NET ASSESSED VALUE		
City	8.02	\$10.43
County	2.13	\$2.77
Local School	9.93	\$12.91
State School	1.62	\$2.10
	21.70	
	20.08	

Property Tax and Credits 26.10
Net Property Tax ~~\$20.21~~

Assessed Real Estate Values and Exemptions

Land \$1,300
Net Assessed Value \$1,300

Interest of 8% per annum accrues on unpaid balances after due date.

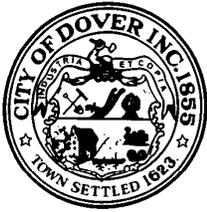
	Due Dates:	
	First Installment	Second Installment
	Jan 10, 2022	Jun 01, 2022
Tax	\$14.11	\$14.10

Total Due \$14.11 \$14.10

City Hall Hours of Operation:
Monday through Thursday 8:30am to 5:30pm
Friday 8:30am to 4:00pm
City Clerk & Tax Collector's office is located on the Lower Level of City Hall

For COVID-19 pandemic related economic support and financial relief see Dover CARES program information: <http://www.dover.nh.gov/dovercares>

Mail payment with lower portion in enclosed self-addressed envelope. Retain upper portion for your records.



City of Dover, NH

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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P.O. Box 818
Dover, NH 03821-0818

PROPERTY TAX

BILL FOR TAX YEAR 2021

Reference No. 7489
Prop ID U0003 000000
Location:
DOVER CITYWIDE
Mailing Date: 12/10/2021

NORTHERN UTILITIES INC
ATTN: UTILITY ASSET ACCOUNTING
6 LIBERTY LANE
HAMPTON NH 03842

Tax Rate Information		
Tax Rate per \$1,000 OF NET ASSESSED VALUE		
City	8.02	\$322,034.28
County	2.13	\$85,527.81
Local School	9.93	\$398,728.22
	20.08	

Property Tax and Credits
Net Property Tax \$806,290.31

Assessed Real Estate Values and Exemptions

Land	\$1,164,600
Building	\$38,989,300
Net Assessed Value	\$40,153,900

Interest of 8% per annum accrues on
unpaid balances after due date.

	Due Dates:	
	First Installment	Second Installment
	Jan 10, 2022	Jun 01, 2022
Tax	\$403,145.16	\$403,145.15

Total Due \$403,145.16 \$403,145.15

City Hall Hours of Operation:
Monday through Thursday 8:30am to 5:30pm
Friday 8:30am to 4:00pm
City Clerk & Tax Collector's office is located
on the Lower Level of City Hall

For COVID-19 pandemic related economic support and financial relief see
Dover CARES program information: <http://www.dover.nh.gov/dovercares>

Mail payment with lower portion in enclosed self-addressed envelope. Retain upper portion for your records.

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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TOWN OF DURHAM, NH
8 NEWMARKET ROAD
DURHAM, NH 03824
REAL ESTATE TAX BILL

HOURS
MONDAY - FRIDAY
8:00 AM TO 4:30 PM
(603) 868-5577

FIRST BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	94372	5/25/2021	8 %	7/1/2021
MAP/PARCEL	LOCATION OF PROPERTY			AREA
99-320	UTILITIES			0.00
OWNER OF RECORD		TAX CALCULATION		
NORTHERN UTILITIES INC ATTN: PLANT ACCOUNTING 6 LIBERTY LN W HAMPTON NH 03842-1704 2021		Municipal Tax Amount 30,157.00 Local School Tax Amount 59,500.00 State School Tax Amount 0.00 County Tax Amount 9,988.00 Total tax 99,645.00 Tax Credits 0.00 First Bill 99,645.00 Payments 0.00		
TAX RATE	ASSESSED VALUATION			
Municipal 3.895 Local School 7.685 State School 0.000 County 1.290 TOTAL 12.870	Building Value 7,742,400 Land Value 0 Exemptions 0 Current Use 0 NET VALUE 7,742,400	PAY THIS AMOUNT \$ 99,645.00		

INFORMATION TO TAXPAYERS

IF YOU ARE ELDERLY, DISABLED, BLIND, A VETERAN OR VETERAN'S SURVIVING SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE, YOU MAY BE ELIGIBLE FOR A TAX EXEMPTION, CREDIT, ABATEMENT OR DEFERRAL. FOR DETAILS AND APPLICATION, CONTACT THE ASSESSOR'S OFFICE (603) 868-8064 BEFORE APRIL 15TH OF EACH YEAR.

THE TAXPAYER MAY, BY MARCH 1ST FOLLOWING THE DATE OF NOTICE OF THE TAX AND NOT AFTERWARDS, APPLY IN WRITING TO THE BOARD OF ASSESSORS FOR AN ABATEMENT.

REAL ESTATE TAX PAYMENTS WILL BE APPLIED FIRST TO THE OLDEST DELINQUENT REAL ESTATE TAXES (IF ANY) FOR THE INDICATED PROPERTY UNLESS DIRECTED OTHERWISE.

TAXPAYERS DESIRING ANY INFORMATION IN REGARD TO TAXATION, OR CORRECTION OF ERRORS MUST REFER ALL INQUIRIES TO THE ASSESSOR'S OFFICE (603) 868-8065, NOT THE TAX COLLECTOR. THE TAX YEAR IS APRIL 1 - MARCH 31.

TAX BILLS ARE MAILED TO THE LAST KNOWN ADDRESS AS OF APRIL 1ST.

PAYMENT POLICIES

- POST-DATED CHECKS CANNOT BE ACCEPTED, AND WILL BE RETURNED TO TAXPAYER.
- A \$25.00 FEE PLUS ALL ADDITIONAL DELINQUENCY PENALTIES AND COLLECTION COSTS WILL BE CHARGED FOR ANY CHECK RETURNED BY THE BANK FOR ANY REASON.
- PAYMENT OF THIS BILL DOES NOT PREVENT THE COLLECTION OF PREVIOUS UNPAID TAXES, NOR DOES AN ERROR IN THE NAME OF THE PERSON(S) TAXED PREVENT COLLECTION.
- IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE PROPER OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG TAX BILL.
- IF THIS BILL IS PAID BY CHECK OR MONEY ORDER, IT IS NOT CONSIDERED PAID UNTIL THE CHECK OR MONEY ORDER IS CLEARED BY THE BANK.
- PLEASE MAKE CHECK PAYABLE TO "TOWN OF DURHAM"
- WHEN PAYING IN PERSON, PLEASE BRING ENTIRE BILL.

TOWN OF DURHAM, NH
8 NEWMARKET ROAD
DURHAM, NH 03824
REAL ESTATE TAX BILL

Northern Utilities, Inc. HOURS
New Hampshire Division MONDAY - FRIDAY
Attachment NUI-911-AM TO 4:30 PM
Page 12 of 80 (603) 868-5577

WE ACCEPT ONLINE PAYMENTS AT
www.ci.durham.nh.us

SECOND BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	99176	11/9/2021	8 %	12/9/2021
MAP/PARCEL	LOCATION OF PROPERTY			AREA
99-320	UTILITIES			0.00
OWNER OF RECORD		TAX CALCULATION		
NORTHERN UTILITIES INC ATTN: PLANT ACCOUNTING 6 LIBERTY LN W HAMPTON NH 03842-1704 2040		Municipal Tax Amount 56,241.00 Local School Tax Amount 109,333.00 State School Tax Amount 0.00 County Tax Amount 19,963.00 Tax Credits 0 Previous Amount Billed 99,645.00 Payments 99,645.00 Previous Bill Balance 0.00 Second Bill 85,892.00 PrePayments 0.00		
TAX RATE	ASSESSED VALUATION			
Municipal 7.860 Local School 15.280 State School 0.000 County 2.790	Building Value 7,155,300 Land Value 0 Exemptions 0 Current Use 0			
TOTAL 25.930	NET VALUE 7,155,300	PAY THIS AMOUNT \$		85,892.00

INFORMATION TO TAXPAYERS

IF YOU ARE ELDERLY, DISABLED, BLIND, A VETERAN OR VETERAN'S SURVIVING SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE, YOU MAY BE ELIGIBLE FOR A TAX EXEMPTION, CREDIT, ABATEMENT OR DEFERRAL. FOR DETAILS AND APPLICATION, CONTACT THE ASSESSOR'S OFFICE (603) 868-8064 BEFORE APRIL 15TH OF EACH YEAR.

THE TAXPAYER MAY, BY MARCH 1ST FOLLOWING THE DATE OF NOTICE OF THE TAX AND NOT AFTERWARDS, APPLY IN WRITING TO THE BOARD OF ASSESSORS FOR AN ABATEMENT.

REAL ESTATE TAX PAYMENTS WILL BE APPLIED FIRST TO THE OLDEST DELINQUENT REAL ESTATE TAXES (IF ANY) FOR THE INDICATED PROPERTY UNLESS DIRECTED OTHERWISE.

TAXPAYERS DESIRING ANY INFORMATION IN REGARD TO TAXATION, OR CORRECTION OF ERRORS MUST REFER ALL INQUIRIES TO THE ASSESSOR'S OFFICE (603) 868-8065, NOT THE TAX COLLECTOR. THE TAX YEAR IS APRIL 1 - MARCH 31.

TAX BILLS ARE MAILED TO THE LAST KNOWN ADDRESS AS OF APRIL 1ST.

PAYMENT POLICIES

- POST-DATED CHECKS CANNOT BE ACCEPTED, AND WILL BE RETURNED TO TAXPAYER.
- A \$25.00 FEE PLUS ALL ADDITIONAL DELINQUENCY PENALTIES AND COLLECTION COSTS WILL BE CHARGED FOR ANY CHECK RETURNED BY THE BANK FOR ANY REASON.
- PAYMENT OF THIS BILL DOES NOT PREVENT THE COLLECTION OF PREVIOUS UNPAID TAXES, NOR DOES AN ERROR IN THE NAME OF THE PERSON(S) TAXED PREVENT COLLECTION.
- IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE PROPER OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG TAX BILL.
- IF THIS BILL IS PAID BY CHECK OR MONEY ORDER, IT IS NOT CONSIDERED PAID UNTIL THE CHECK OR MONEY ORDER IS CLEARED BY THE BANK.
- PLEASE MAKE CHECK PAYABLE TO "TOWN OF DURHAM"
- WHEN PAYING IN PERSON, PLEASE BRING ENTIRE BILL.

↑ DETACH HERE ↑ TO ENSURE PROPER CREDIT, PLEASE RETURN ENTIRE BOTTOM PORTION OF BILL ↑ DETACH HERE ↑

WE ACCEPT ONLINE PAYMENTS AT
www.ci.durham.nh.us

TOWN OF DURHAM, NH
REAL ESTATE TAX BILL



MAP/PARCEL	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
99-320	UTILITIES	2021	99176	12/9/2021

8% APR Interest Charged After 7/1/2021 on First Bill.
8% APR Interest Charged After 12/9/2021 on Second Bill.



PAY THIS AMOUNT \$ **85,892.00**

NORTHERN UTILITIES INC
ATTN: PLANT ACCOUNTING
6 LIBERTY LN W
HAMPTON NH 03842-1704

Northern Utilities, Inc.
 New Hampshire Division
 Attachment NUI-DTN-2
 Page 13 of 80

Remit To		2021 EAST KINGSTON PROPERTY TAX -- BILL 1 OF 2	
TOWN OF EAST KINGSTON Tax Collector's Office PO BOX 249 East Kingston, NH 03827 Temp - Return Service Requested		NORTHERN UTILITIES	
	Map	Lot	Sub
	000018	000001	00NUGC
	Property Location		Net Value
	EAST KINGSTON		\$ 746,700
			Acres
			0.000
3% APR Charged After 07/01/2021		Invoice	Summary of Taxes
MAKE CHECK PAYABLE TO: TOWN OF EAST KINGSTON		2021P01010805	First Bill: \$ 7,654.00
PAY ONLINE: ekn.org (under Town Clerk/Tax)		Billing Date	
Billed To		05/20/2021	- Abated/Paid: \$ 0.00
NORTHERN UTILITIES		Payment Due Date	- Vet. Credits: \$ 0.00
6 LIBERTY LANE WEST		07/01/2021	
HAMPTON, NH 03842		Amount Due:	\$ 7,654.00
		Amount Enclosed:	7,654.00

Please return top copy with your payment.

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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Remit To		2021 EAST KINGSTON PROPERTY TAX -- BILL 2 OF 2			
TOWN OF EAST KINGSTON Tax Collector's Office PO BOX 249 East Kingston, NH 03827 Temp - Return Service Requested		NORTHERN UTILITIES			
		Map	Lot	Sub	Net Value
		000018	000001	00NUGC	\$ 714,400
		Property Location			Acres
		EAST KINGSTON			0.000
8% APR Charged After 12/17/2021		Invoice			
MAKE CHECK PAYABLE TO: TOWN OF EAST KINGSTON		2021P02010801		Summary of Taxes	
PAY ONLINE: eknh.org (under Town Clerk/Tax)		Billing Date		Total Tax: \$ 14,402.00	
Billed To		11/12/2021		- 1st Bill: \$ 7,654.00	
NORTHERN UTILITIES		Payment Due Date		- Abated/Paid: \$ 0.00	
6 LIBERTY LANE WEST		12/17/2021		- Vet. Credits: \$ 0.00	
HAMPTON, NH 03842		Amount Due:		\$ 6,748.00	
		Amount Enclosed:			

Please return top copy with your payment.

Tax Collector Office Hours
TOWN OF EAST KINGSTON
Mon 8-5pm, Tues/Thurs/Fri 8-2:30pm
Wed (evening) 6-8pm
(603) 642-8794
Tax Collector: Barbara A. Clark
MAKE CHECK PAYABLE TO: TOWN OF EAST KINGSTON
PAY ONLINE: eknh.org (under Town Clerk/Tax)

2021 EAST KINGSTON PROPERTY TAX -- BILL 2 OF 2	
NORTHERN UTILITIES	
Map	Lot
000018	000001
Property Location	
EAST KINGSTON	
Acres	
0.000	
Invoice	
2021P02010801	
Billing Date	
11/12/2021	
Payment Due Date	
12/17/2021	
Interest Rate	
8% APR After 12/17/2021	
Amount Due:	\$ 6,748.00

Tax Rates		Assessments	
County:	\$ 0.84	Taxable Land:	0
School:	\$ 13.23	Buildings:	714,400
Town:	\$ 6.09	Total:	714,400

Total Tax Rate:	\$ 20.16	Net Value:	714,400
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Keep this copy for your records.

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 15 of 80

TOWN OF EPPING
TAX COLLECTOR
157 MAIN STREET
EPPING NH 03042
REAL ESTATE TAX BILL

HOURS
Monday thru Thursday 8:30 am to 3:30 pm
Friday 8:30 am to 2:30 pm.

603-679-8288 ext. 3

First Bill

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	013505-038609	5/18/2021	8% if paid after	7/1/2021
MAP/PARCEL	LOCATION OF PROPERTY			AREA
040-500-004	VARIOUS UTILITIES			
OWNER OF RECORD		TAX CALCULATION		
UNITIL CORPORATION NORTHERN UTILITIES 6 LIBERTY LN W HAMPTON NH 03842-1704		1/2 Tax At 2020 Tax Rate		
		Municipal Tax Amount	5,831.46	
		School Tax Amount	16,673.66	
		Education Tax Amount	2,084.21	
		County Tax Amount	939.51	
		Total Tax	25,528.84	
TAX CALCULATION	ASSESSED VALUATION			
2020 Tax Rate	Buildings	1,079,900	Estimated Tax Amt	12,764.42
Municipal 5.40				
School 15.44				
Education 1.93				
County 0.87				
TOTAL 23.64	NET VALUE	1,079,900	AMOUNT TO PAY	12,764.42

INFORMATION TO TAXPAYERS	PAYMENT POLICIES
<p>1. Billing - All property owners shall be billed semi-annually. Payments are due by due date on bill. If you are not the present owner of this property, please forward to the proper owner. Taxpayers desiring any information in regard to property assessments or correction of errors must address all inquiries to the Board of Selectmen and NOT the Tax Collector. If this bill is paid by check or money order it is not considered paid until the check or money order is cleared by the bank. There is a 25.00 fee for any returned check.</p> <p>2. Interest - Any bill not paid by the due date is considered delinquent. Interest is calculated at 8% APR on any delinquent bill.</p> <p>3. Exemptions - If you are elderly, blind, a veteran or a veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, abatement, or deferral. For details and application information contact the Board of Selectmen at 679-5441 x 20. Veterans Credits for exemptions are reflected on the first and second issue bill.</p> <p>4. Abatement - The Taxpayer has the right to apply in writing, by March 1 following the notice of the tax, to the selectmen or assessor(s) for an abatement of the assessed tax as provided under RSA 78:16. Abatement forms are found in the Selectmen's Office of the Town Hall.</p>	<p>If your bank or mortgage company pays your taxes, please confirm they have requested the bill electronically. Otherwise, please review and forward bill to them.</p> <p>Please make check payable to the Town of Epping, NH and mail check WITH STUB to: TOWN OF EPPING TAX COLLECTOR 157 MAIN STREET EPPING, NH 03042</p> <p>If you desire a receipt of payment please return entire bill and a self-addressed stamped envelope.</p> <p>INTEREST is charged on any and all late payments, even bills that have been lost in the mail and never received due to transfer of ownership or address changed.</p>

↑ DETACH HERE ↑ TO ENSURE PROPER CREDIT, PLEASE RETURN ENTIRE BILL ↑ DETACH HERE ↑

Northern Utilities, Inc.
New Hampshire Division
Attachment No. DTN-2
Page 16 of 30

Monday thru Thursday 8:30 am to 3:30 pm
Friday 8:30 am to 2:30 pm

TOWN OF EPPING
TAX COLLECTOR
157 MAIN STREET
EPPING NH 03042
REAL ESTATE TAX BILL

Second Bill

603-679-8288 ext. 3

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	013505-038609	11/17/2021	8% if paid after	12/27/2021
MAP/PARCEL	LOCATION OF PROPERTY			AREA
040-500-004	VARIOUS UTILITIES			
OWNER OF RECORD		TAX CALCULATION		
UNITIL CORPORATION NORTHERN UTILITIES 6 LIBERTY LN W HAMPTON NH 03842-1704		Municipal Tax Amount 25,342.04 School Tax Amount 68,148.25 Education Tax Amount 8,871.16 County Tax Amount 4,033.84 Total Tax 106,398.59 97,524.14 Actual Tax Amount 106,398.59 Paid to Date -12,764.42		
TAX CALCULATION	ASSESSED VALUATION			
Municipal 5.34 School 14.36 Education 1.87 County 0.85	Buildings	4,745,700		
TOTAL 20.55 22.42	NET VALUE	4,745,700	AMOUNT TO PAY 84,759.72 93,634.17	

INFORMATION TO TAXPAYERS	PAYMENT POLICIES
<p>1. Billing - All property owners shall be billed semi-annually. Payments are due by due date on bill. If you are not the present owner of this property, please forward to the proper owner. Taxpayers desiring any information in regard to property assessments or correction of errors must address all inquires to the Board of Selectmen and NOT the Tax Collector. If this bill is paid by check or money order, it is not considered paid until the check or money order is cleared by the bank. There is a 25.00 fee for any returned check.</p> <p>2. Interest - Any bill not paid by the due date is considered delinquent. Interest is calculated at 8% APR on any delinquent bill.</p> <p>3. Exemptions - If you are elderly, blind, a veteran or a veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, abatement, or deferral. For details and application information contact the Board of Selectmen at 679-5441 x 20. Veterans Credits for exemptions are reflected on the first and second issue bill.</p> <p>4. Abatement - The Taxpayer has the right to apply in writing, by March 1 following the notice of the tax to the selectmen or assessor(s) for an abatement of the assessed tax as provided under RSA 76:16. Abatement forms are found in the Selectmen's Office of the Town Hall.</p>	<p>If your bank or mortgage company pays your taxes, please confirm they have requested the bill electronically. Otherwise, please review and forward bill to them.</p> <p>Please make check payable to the Town of Epping, NH and mail check WITH STUB to: TOWN OF EPPING TAX COLLECTOR 157 MAIN STREET EPPING, NH 03042</p> <p>If you desire a receipt of payment please return entire bill and a self-addressed stamped envelope.</p> <p>INTEREST is charged on any and all late payments, even bills that have been lost in the mail and never received due to transfer of ownership or address changed.</p>

↑ DETACH HERE ↑ TO ENSURE PROPER CREDIT, PLEASE RETURN ENTIRE BILL ↑ DETACH HERE ↑

For payments received by mail: Receipts will be provided to taxpayers returning BOTH portions of the bill WITH a self-addressed, stamped envelope.

TOWN OF EPPING, NH
REAL ESTATE TAX BILL



MAP/PARCEL	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
040-500-004	VARIOUS UTILITIES	2021	013505-038609	12/27/2021

8% if paid after
07/01/2021 On 1st Bill 12764.42
12/27/2021 On 2nd Bill 93634.17

**ANY QUESTIONS UNDERSTANDING THE NEW BILL
FORMAT PLEASE CALL ERIKA 603-679-8288 X 31.**

UNITIL CORPORATION 2575

UNITIL CORPORATION
NORTHERN UTILITIES
6 LIBERTY LN W
HAMPTON NH 03842-1704

PAY THIS AMOUNT
\$ 84,759.72 ~~93,634.17~~

AT 20210... Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 17 of 80



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 1 of 2

PROPERTY TAX BILL
Customer Copy
Keep this portion for your records

Owner(s)				Property Location		
UNITIL NORTHERN UTILITIES INC				274 WATER ST		
Parcel	Tax Year	Bill Date	Bill Number	Bill Due Date	Unpaid Taxes Are Subject to	
					Interest at	Interest After
64-1	2021	5/18/2021	6283	7/1/2021	8%	7/1/2021
State School Tax		Local School Tax		Town Tax	County Tax	Total Tax Rate
		7.835		2.955	0.460	11.250
Valuations						
Land		85,700		Total Gross Tax		\$964.13
Buildings		0		Less Veteran(s) Credit(s)		\$0.00
				Less Payments		\$0.00
Exemptions						
Total Exemptions		0				
Taxable Valuation				Total Due This Bill		
Net		85,700		\$964.13		
Previous unpaid taxes due. Interest shown as of current bill due date. Please call for payoff amount.				Total previous unpaid taxes due as of current bill due date.		
Year	Tax Balance		Interest			
					\$0.00	

IMPORTANT TAXPAYER INFORMATION IS LOCATED ON BACK OF BILL. PAYMENT MAY BE MADE IN PERSON, LEFT IN BLACK DROPBOX AT TOWN OFFICE (CHECKS ONLY), BY MAIL, OR ONLINE AT <https://selfservice.exeternh.gov/MSS>. WE ACCEPT MASTERCARD, VISA, DISCOVER, AND DEBIT CARDS ONLINE - FEES APPLY. CALL 773-6108 FOR PAYMENT QUESTIONS.

Detach and return the below portion with your payment



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 1 of 2

PROPERTY TAX BILL
Customer Copy
Keep this portion for your records

Owner(s)				Property Location				
UNITIL NORTHERN UTILITIES INC				280 WATER ST				
Parcel	Tax Year	Bill Date	Bill Number	Bill Due Date	Unpaid Taxes Are Subject to			
					Interest at	Interest After		
64-2	2021	5/18/2021	6282	7/1/2021	8%	7/1/2021		
State School Tax		Local School Tax		Town Tax	County Tax	Total Tax Rate		
		7.835		2.955	0.460	11.250		
Valuations				Total Gross Tax \$153,147.38 Less Veteran(s) Credit(s) \$0.00 Less Payments \$0.00				
Land	161,800							
Buildings	13,451,300							
Exemptions								
Total Exemptions 0								
Taxable Valuation				Total Due This Bill				
Net 13,613,100				\$153,147.38				
Previous unpaid taxes due. Interest shown as of current bill due date. Please call for payoff amount.				Total previous unpaid taxes due as of current bill due date.				
Year	Tax Balance		Interest	\$0.00				

IMPORTANT TAXPAYER INFORMATION IS LOCATED ON BACK OF BILL. PAYMENT MAY BE MADE IN PERSON, LEFT IN BLACK DROPBOX AT TOWN OFFICE (CHECKS ONLY), BY MAIL, OR ONLINE AT <https://selfservice.exeternh.gov/MSS>. WE ACCEPT MASTERCARD, VISA, DISCOVER, AND DEBIT CARDS ONLINE - FEES APPLY. CALL 773-6108 FOR PAYMENT QUESTIONS.

Detach and return the below portion with your payment



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 1 of 2

PROPERTY TAX BILL
Customer Copy
Keep this portion for your records

Owner(s)				Property Location		
UNITIL NORTHERN UTILITIES INC				12 NEWFIELDS RD		
Parcel	Tax Year	Bill Date	Bill Number	Bill Due Date	Unpaid Taxes Are Subject to	
					Interest at	Interest After
49-3	2021	5/18/2021	6281	7/1/2021	8%	7/1/2021
State School Tax		Local School Tax		Town Tax	County Tax	Total Tax Rate
		7.835		2.955	0.460	11.250
Valuations				Total Gross Tax \$1,181.25 Less Veteran(s) Credit(s) \$0.00 Less Payments \$0.00		
Land		105,000				
Buildings		0				
Exemptions						
Total Exemptions		0				
Taxable Valuation				Total Due This Bill		
Net		105,000		\$1,181.25		
Previous unpaid taxes due. Interest shown as of current bill due date. Please call for payoff amount.				Total previous unpaid taxes due as of current bill due date.		
Year	Tax Balance		Interest			
				\$0.00		

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Detach and return the below portion with your payment



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 2 of 2

Northern Utilities, Inc.
New Hampshire Division
Address: 1000 N. Dix St
Page 20 of 80
PROPERTY TAX BILL
Customer Copy
Keep this portion for your records

Owner(s)				Property Location		
UNITIL NORTHERN UTILITIES INC				274 WATER ST		
Parcel	Tax Year	Bill Date	Bill Number	Bill Due Date	Unpaid Taxes Are Subject to	
					Interest at	Interest After
64-1	2021	11/5/2021	6283	12/8/2021	8%	12/8/2021
State School Tax		Local School Tax		Town Tax	County Tax	Total Tax Rate
		15.290		5.790	0.940	22.020
Valuations				Total Gross Tax \$1,887.11 Less Veteran(s) Credit(s) \$0.00 Less Payments -\$964.13 Plus Interest \$0.00		
Land	85,700					
Buildings	0					
Exemptions						
Total Exemptions		0				
Taxable Valuation				Total Due This Bill		
Net		85,700		\$922.98		
Previous unpaid taxes due. Interest shown as of current bill due date. Please call for payoff amount.				Total previous unpaid taxes due as of current bill due date.		
Year	Tax Balance		Interest	\$0.00		

IMPORTANT TAXPAYER INFORMATION IS LOCATED ON BACK OF BILL. PAYMENT MAY BE MADE IN PERSON, LEFT IN BLACK DROPBOX AT TOWN OFFICE (CHECKS ONLY), BY MAIL, OR ONLINE AT <https://selfservice.exeternh.gov/MSS>. WE ACCEPT eCHECKS, MASTERCARD, VISA, DISCOVER, AND DEBIT CARDS ONLINE - FEES APPLY. CALL 773-6108 FOR PAYMENT QUESTIONS.

Detach and return the below portion with your payment



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 2 of 2

PROPERTY TAX BILL
Remit Copy

Please write parcel number on your check and enclose this portion of the bill with your payment. Make checks payable to: Town of Exeter



Bill Number	Bill Date	Parcel	Property Location	Due Date	Due This Bill
6283	11/5/2021	64-1	274 WATER ST	12/8/2021	\$922.98
					Amount Enclosed
					\$

Please See Change of Address on Back

UNITIL NORTHERN UTILITIES INC
6 LIBERTY LANE WEST
HAMPTON NH 03842

5858
139

Remit To:
TOWN OF EXETER
10 FRONT ST
EXETER NH 03833



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 2 of 2

Northern Utilities, Inc.
New Hampshire Division
Attachment NU-DT-2
Page 2 of 80
PROPERTY TAX BILL
Customer Copy
Keep this portion for your records

Owner(s)				Property Location		
UNITIL NORTHERN UTILITIES INC				280 WATER ST		
Parcel	Tax Year	Bill Date	Bill Number	Bill Due Date	Unpaid Taxes Are Subject to	
64-2	2021	11/5/2021	6282	12/8/2021	Interest at	Interest After
					8%	12/8/2021
State School Tax		Local School Tax		Town Tax	County Tax	Total Tax Rate
		15.290		5.790	0.940	22.020
Valuations				Total Gross Tax \$283,855.42 Less Veteran(s) Credit(s) \$0.00 Less Payments -\$153,147.38 Plus Interest \$0.00		
Land	161,800					
Buildings	12,729,000					
Exemptions						
Total Exemptions 0						
Taxable Valuation				Total Due This Bill		
Net 12,890,800				\$130,708.04		
Previous unpaid taxes due. Interest shown as of current bill due date. Please call for payoff amount.				Total previous unpaid taxes due as of current bill due date. \$0.00		
Year	Tax Balance	Interest				

IMPORTANT TAXPAYER INFORMATION IS LOCATED ON BACK OF BILL. PAYMENT MAY BE MADE IN PERSON, LEFT IN BLACK DROPBOX AT TOWN OFFICE (CHECKS ONLY), BY MAIL, OR ONLINE AT <https://selfservice.exeternh.gov/MSS>. WE ACCEPT eCHECKS, MASTERCARD, VISA, DISCOVER, AND DEBIT CARDS ONLINE - FEES APPLY. CALL 773-6108 FOR PAYMENT QUESTIONS.

Detach and return the below portion with your payment



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 2 of 2

PROPERTY TAX BILL
Remit Copy

Please write parcel number on your check and enclose this portion of the bill with your payment. Make checks payable to: Town of Exeter



Bill Number	Bill Date	Parcel	Property Location	Due Date	Due This Bill
6282	11/5/2021	64-2	280 WATER ST	12/8/2021	\$130,708.04
					Amount Enclosed
					\$

Please See Change of Address on Back

UNITIL NORTHERN UTILITIES INC
6 LIBERTY LANE WEST
HAMPTON NH 03842

5858
139

Remit To:
TOWN OF EXETER
10 FRONT ST
EXETER NH 03833



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 2 of 2

Northern Utilities, Inc.
New Hampshire Division
PROPERTY TAX BILL
Customer Copy
Keep this portion for your records

Owner(s)				Property Location		
UNITIL NORTHERN UTILITIES INC				12 NEWFIELDS RD		
Parcel	Tax Year	Bill Date	Bill Number	Bill Due Date	Unpaid Taxes Are Subject to	
					Interest at	Interest After
49-3	2021	11/5/2021	6281	12/8/2021	8%	12/8/2021
State School Tax		Local School Tax		Town Tax	County Tax	Total Tax Rate
		15.290		5.790	0.940	22.020
Valuations				Total Gross Tax \$2,312.10 Less Veteran(s) Credit(s) \$0.00 Less Payments -\$1,181.25 Plus Interest \$0.00		
Land	105,000					
Buildings	0					
Exemptions						
Total Exemptions 0						
Taxable Valuation				Total Due This Bill		
Net 105,000				\$1,130.85		
Previous unpaid taxes due. Interest shown as of current bill due date. Please call for payoff amount.				Total previous unpaid taxes due as of current bill due date.		
Year	Tax Balance		Interest	\$0.00		

IMPORTANT TAXPAYER INFORMATION IS LOCATED ON BACK OF BILL. PAYMENT MAY BE MADE IN PERSON, LEFT IN BLACK DROPBOX AT TOWN OFFICE (CHECKS ONLY), BY MAIL, OR ONLINE AT <https://selfservice.exeternh.gov/MSS>. WE ACCEPT eCHECKS, MASTERCARD, VISA, DISCOVER, AND DEBIT CARDS ONLINE - FEES APPLY. CALL 773-6108 FOR PAYMENT QUESTIONS.

Detach and return the below portion with your payment



Town of Exeter
Tax Collector
10 Front Street
Exeter NH 03833

2021
Installment 2 of 2

PROPERTY TAX BILL
Remit Copy

Please write parcel number on your check and enclose this portion of the bill with your payment. Make checks payable to: Town of Exeter



Bill Number	Bill Date	Parcel	Property Location	Due Date	Due This Bill
6281	11/5/2021	49-3	12 NEWFIELDS RD	12/8/2021	\$1,130.85
					Amount Enclosed
					\$

Please See Change of Address on Back

UNITIL NORTHERN UTILITIES INC
6 LIBERTY LANE WEST
HAMPTON NH 03842

5858
139

Remit To:
TOWN OF EXETER
10 FRONT ST
EXETER NH 03833

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 23 of 80

BILL DATE 5/28/2021
INVOICE # 2021-1-161630

Map-Lot: 0P-2
00 - N/A

ASSESSED VALUE AND EXEMPTIONS

Land	0.00	Gross Value	\$733,400.00
Building	733,400.00	Exemptions:	0.00
		Net Value:	<u>\$733,400.00</u>

Tax Rate Information		
School	9.64	\$7,069.98
Town	4.03	\$2,955.60
State	0.00	\$0.00
County	0.91	\$667.39
Total	\$14.58	\$10,693.00

PROPERTY TAX AND CREDITS

Tax for Year	\$10,693.00
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REAL ESTATE TAX BILL

TOWN OF GREENLAND

TAX COLLECTOR

11 TOWN SQUARE PO BOX 100, GREENLAND,
NH 03840-0100 603-431-7111

UNITIL NORTHERN UTILITIES/UNIT
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON, NH 03842

Net Property Tax	<u>\$10,693.00</u>
1st Half Payment Previously Paid	<u>\$0.00</u>
Net Due By: 7/1/2021	<u>\$5,347.00</u>

Unpaid balances accrue interest at 8% per annum after due date.



Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 24 of 80

BILL DATE 11/19/2021
INVOICE # 2021-2-165314

Map-Lot: 0P-2
00 - N/A

Tax Rate Information		
School	10.97	\$8,729.93
Town	4.82	\$3,835.76
State	0.00	\$0.00
County	0.94	\$748.05
Total	\$16.73	\$13,314.00

ASSESSED VALUE AND EXEMPTIONS			
Land	0.00	Gross Value	\$795,800.00
Building	795,800.00	Exemptions:	0.00
			Net Value: \$795,800.00

REAL ESTATE TAX BILL
TOWN OF GREENLAND
TAX COLLECTOR
11 TOWN SQUARE PO BOX 100, GREENLAND,
NH 03840-0100 603-431-7111

PROPERTY TAX AND CREDITS	
Tax for Year	\$13,314.00

UNITIL NORTHERN UTILITIES/UNIT
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON, NH 03842



Net Property Tax	\$13,314.00
1st Half Payment Previously Paid	- \$5,347.00
Net Due By: 12/20/2021	\$7,967.00

Unpaid balances accrue interest at 8% per annum after due date.

BILL DATE 11/19/2021
INVOICE # 2021-2-165314

Map-Lot: 0P-2
00 - N/A

Tax Rate Information		
School	10.97	\$8,729.93
Town	4.82	\$3,835.76
State	0.00	\$0.00
County	0.94	\$748.05
Total	\$16.73	\$13,314.00

ASSESSED VALUE AND EXEMPTIONS			
Land	0.00	Gross Value	\$795,800.00
Building	795,800.00	Exemptions:	0.00
			Net Value: \$795,800.00

REAL ESTATE TAX BILL
TOWN OF GREENLAND
TAX COLLECTOR
11 TOWN SQUARE PO BOX 100, GREENLAND,
NH 03840-0100 603-431-7111

PROPERTY TAX AND CREDITS	
Tax for Year	\$13,314.00

UNITIL NORTHERN UTILITIES/UNIT
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON, NH 03842



Net Property Tax	\$13,314.00
1st Half Payment Previously Paid	- \$5,347.00
Net Due By: 12/20/2021	\$7,967.00

Unpaid balances accrue interest at 8% per annum after due date.

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 25 of 80

TOWN OF HAMPTON

Tax Collector's Office
Donna Bennett, Certified Tax Collector
100 Winnacunnet Road
Hampton, NH 03842-2119
(603) 926-6769
Hours: Mon-Thurs: 8 am - 5 pm; Fri: 8 am - 12 noon
www.hamptonnh.gov



1817 5 5 *****AUTO**SCH 5-DIGIT 03801
NORTHERN UTILITIES INC
ATTN: UTILITY ASSET ACCOUNTING
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

**2021 SEMI-ANNUAL PROPERTY TAX BILL
FIRST INSTALLMENT**

8.0% APR Interest Charged after 7/1/2021
Account: 89334
Due Date: 7/1/2021
Bill Date: 5/25/2021

Property	
Map Lot:	999-168
Location:	TOWN AREA
Class:	4000

Tax Rate Information	
Town	\$5.92
County	\$0.89
Local Ed	\$7.12
State Ed	\$0.00
Total	\$13.93

EXEMPTION, TAX CREDIT AND ABATEMENT INFORMATION

If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement, or deferral. For details, application information, qualifications, and deadlines for filing, contact the Assessor's office at (603) 929-5837. (See back of this bill for more information.)

ASSESSED VALUE AND EXEMPTIONS

Land	\$0.00
Building	\$18,884,700.00
Current Use	\$0.00
Gross Value	\$18,884,700.00

EXEMPTIONS

Net Assessed Value: \$18,884,700.00

PROPERTY TAX AND CREDITS

Gross Property Tax \$131,532.00
Credits

Net Property Tax \$131,532.00
First Installment \$131,532.00
Previously Paid \$0.00

Due By: 7/1/2021 **\$131,532.00**

***** PLEASE READ THE BACK OF THIS BILL FOR IMPORTANT INFORMATION INCLUDING EXTENDED OFFICE HOURS*****

TOWN OF HAMPTON

Tax Collector's Office

Donna Bennett, Certified Tax Collector

100 Winnacunnet Road

Hampton, NH 03842-2119

(603) 926-6769

Hours: Mon-Thurs: 8 am - 5 pm; Fri: 8 am - 12 noon

www.hamptonnh.gov

1802 5 5

NORTHERN UTILITIES INC

ATTN: UTILITY ASSET ACCOUNTING

6 LIBERTY LANE WEST

HAMPTON NH 03842-1704

EXEMPTION, TAX CREDIT AND ABATEMENT INFORMATION

If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement, or deferral. For details, application information, qualifications, and deadlines for filing, contact the Assessor's office at (603) 929-5837. (See back of this bill for more information.)

ASSESSED VALUE AND EXEMPTIONS

Land	\$0.00
Building	\$18,884,700.00
Current Use	\$0.00
Gross Value	\$18,884,700.00

EXEMPTIONS

Net Assessed Value: \$18,884,700.00

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 26 of 80

**2021 SEMI-ANNUAL PROPERTY TAX BILL
SECOND INSTALLMENT**

8.0% APR Interest Charged after 12/22/2021

Account: 89334

Due Date: 12/22/2021

Bill Date: 11/18/2021

Property	
Map Lot:	999-168
Location:	TOWN AREA
Class:	4000

Tax Rate Information	
Town	\$5.91
County	\$0.89
Local Ed	\$7.10
State Ed	\$0.00
Total	\$13.90

PROPERTY TAX AND CREDITS

Total Gross Property Tax	\$262,497.00
Credits	
Net Property Tax	\$262,497.00
First Installment	\$131,532.00
Second Installment	\$130,965.00
Previously Paid	\$131,532.00
Interest Due	\$0.00
Due By: 12/22/2021	\$130,965.00

***** PLEASE READ THE BACK OF THIS BILL FOR IMPORTANT INFORMATION INCLUDING EXTENDED OFFICE HOURS*****

Owner of Record:

NORTHERN UTILITIES INC

ATTN: UTILITY ASSET ACCOUNTING

6 LIBERTY LANE WEST

HAMPTON NH 03842-1704

MAKE CHECK PAYABLE AND MAIL TO:

TOWN OF HAMPTON

Tax Collector's Office

100 Winnacunnet Road

Hampton, NH 03842-2119

2021 SEMI-ANNUAL PROPERTY TAX BILL

8.0% APR Interest Charged after 12/22/2021

Map-Lot: 999-168

Account: 89334

Location: TOWN AREA

Class: 4000

Due By: 12/22/2021

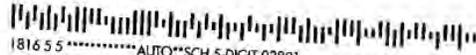
Net Property Tax:	\$262,497.00
First Installment:	\$131,532.00
Second Installment:	\$130,965.00
Previously Paid:	\$131,532.00
Interest:	\$0.00
PAY THIS AMOUNT	\$130,965.00

**FOR RECEIPT: Send Entire Bill and Stamped, Self-addressed Envelope
If you no longer own this property, please inform the tax office.**

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 27 of 80

TOWN OF HAMPTON

Tax Collector's Office
Donna Bennett, Certified Tax Collector
100 Winnacunnet Road
Hampton, NH 03842-2119
(603) 926-6769
Hours: Mon-Thurs: 8 am - 5 pm; Fri: 8 am - 12 noon
www.hamptonnh.gov



181655*****AUTO**SCH 5-DIGIT 03801
NORTHERN UTILITIES INC
ATTN: UTILITY ASSET ACCOUNTING
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

**2021 SEMI-ANNUAL PROPERTY TAX BILL
FIRST INSTALLMENT**

8.0% APR Interest Charged after 7/1/2021
Account: 89328
Due Date: 7/1/2021
Bill Date: 5/25/2021

Property	
Map Lot:	999-4
Location:	BEACH PRECINCT
Class:	5000

Tax Rate Information	
Town	\$6.42
County	\$0.89
Local Ed	\$7.12
State Ed	\$0.00
Total	\$14.43

EXEMPTION, TAX CREDIT AND ABATEMENT INFORMATION

If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement, or deferral. For details, application information, qualifications, and deadlines for filing, contact the Assessor's office at (603) 929-5837. (See back of this bill for more information.)

ASSESSED VALUE AND EXEMPTIONS

Land	\$0.00
Building	\$9,301,400.00
Current Use	\$0.00
Gross Value	\$9,301,400.00

EXEMPTIONS

Net Assessed Value: \$9,301,400.00

PROPERTY TAX AND CREDITS

Gross Property Tax	\$67,110.00
Credits	
Net Property Tax	\$67,110.00
First Installment	\$67,110.00
Previously Paid	\$0.00
Due By: 7/1/2021	<u>\$67,110.00</u>

*** PLEASE READ THE BACK OF THIS BILL FOR IMPORTANT INFORMATION INCLUDING EXTENDED OFFICE HOURS***

Northern Utilities, Inc.
New Hampshire Division
Attachment NU-DTN-8
Page 28 of 80

TOWN OF HAMPTON

Tax Collector's Office
Donna Bennett, Certified Tax Collector
100 Winnacunnet Road
Hampton, NH 03842-2119
(603) 926-6769
Hours: Mon-Thurs: 8 am - 5 pm; Fri: 8 am - 12 noon
www.hamptonnh.gov

1801 5 5
NORTHERN UTILITIES INC
ATTN: UTILITY ASSET ACCOUNTING
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

2021 SEMI-ANNUAL PROPERTY TAX BILL
SECOND INSTALLMENT

8.0% APR Interest Charged after 12/22/2021
Account: 89328
Due Date: 12/22/2021
Bill Date: 11/18/2021

Property	
Map Lot:	999-4
Location:	BEACH PRECINCT
Class:	5000

Tax Rate Information	
Town	\$6.70
County	\$0.89
Local Ed	\$7.10
State Ed	\$0.00
Total	\$14.69

EXEMPTION, TAX CREDIT AND ABATEMENT INFORMATION

If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement, or deferral. For details, application information, qualifications, and deadlines for filing, contact the Assessor's office at (603) 929-5837. (See back of this bill for more information.)

ASSESSED VALUE AND EXEMPTIONS

Land	\$0.00
Building	\$9,301,400.00
Current Use	\$0.00
Gross Value	\$9,301,400.00

EXEMPTIONS

Net Assessed Value: \$9,301,400.00

PROPERTY TAX AND CREDITS

Total Gross Property Tax \$136,638.00

Credits

Net Property Tax \$136,638.00
First Installment \$67,110.00
Second Installment \$69,528.00
Previously Paid \$67,110.00
Interest Due \$0.00
Due By: 12/22/2021 \$69,528.00

***** PLEASE READ THE BACK OF THIS BILL FOR IMPORTANT INFORMATION INCLUDING EXTENDED OFFICE HOURS*****

Owner of Record:

NORTHERN UTILITIES INC
ATTN: UTILITY ASSET ACCOUNTING
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

MAKE CHECK PAYABLE AND MAIL TO:

TOWN OF HAMPTON
Tax Collector's Office
100 Winnacunnet Road
Hampton, NH 03842-2119

2021 SEMI-ANNUAL PROPERTY TAX BILL

8.0% APR Interest Charged after 12/22/2021

Map-Lot: 999-4 **Account: 89328**
Location: BEACH PRECINCT
Class: 5000
Due By: 12/22/2021

Net Property Tax: \$136,638.00
First Installment: \$67,110.00
Second Installment: \$69,528.00
Previously Paid: \$67,110.00
Interest: \$0.00
PAY THIS AMOUNT \$69,528.00

FOR RECEIPT: Send Entire Bill and Stamped, Self-addressed Envelope
If you no longer own this property, please inform the tax office.

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 29 of 80

Town of Hampton Falls
1 Drinkwater Road
Hampton Falls, NH 03844
Temp - Return Service Requested

07/01/2021

NORTHERN UNITIL INC ALLIED GAS
6 LIBERTY LN WEST
HAMPTON, NH 03842

2021 HAMPTON FALLS PROPERTY TAX -- BILL 1 OF 2

Invoice: 2021P01012903
Billing Date: 05/21/2021
Payment Due Date: 07/01/2021
Amount Due: \$ 352.00

8% APR Charged After 07/01/2021

Please see the back of this tax bill for more information on RSA 76:11-a
Please do not post date your checks, as the Tax Office can not hold the check. This will result in the check being returned to you and could result in a late payment.

Property Owner		Assessments	
Owner: NORTHERN UNITIL INC ALLIED GAS		Taxable Land:	0
Tax Rates		Buildings:	36,400
County:	\$ 0.47	Total:	36,400
School:	\$ 7.47		
Town:	\$ 1.73		

Property Description	
Map Blk Lot Unt:	UT-3-0-0
Location:	UTILITY Acres: 0.000
Summary Of Taxes	
First Bill:	\$ 352.00
- Abated/Paid:	\$ 0.00
- Veteran Credits:	\$ 0.00

Amount Due By 07/01/2021: \$ 352.00

Total Tax Rate: \$ 9.67 * Net Value: 36,400

* First Bill Tax Rate Equals 1/2 Last Year's Final Tax Rate

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 30 of 80

Town of Hampton Falls
1 Drinkwater Road
Hampton Falls, NH 03844
Temp - Return Service Requested

NORTHERN UNITIL INC ALLIED GAS
6 LIBERTY LN WEST
HAMPTON, NH 03842

2021 HAMPTON FALLS PROPERTY TAX -- BILL 2 OF 2

Invoice: 2021P02013106
Billing Date: 11/18/2021
Payment Due Date: 12/21/2021
Amount Due: \$ 1,396.00

8% APR Charged After 12/21/2021

Please see the back of this tax bill for more information on RSA 76:11-a
Please do not post date your checks, as the Tax Office can not hold the check. This will result in the check being returned to you and could result in a late payment.

Property Owner		Property Description	
Owner: NORTHERN UNITIL INC ALLIED GAS		Map Blk Lot Unt: UT-3-0-0 Location: UTILITY Acres: 0.000	
Tax Rates		Assessments	
County:	\$ 0.90	Taxable Land:	0
School:	\$ 14.50	Buildings:	91,500
Town:	\$ 3.70	Total:	91,500
		Summary Of Taxes	
		Total Tax:	\$ 1,748.00
		- First Bill:	\$ 352.00
		- Abated/Paid:	\$ 0.00
		- Veteran Credits:	\$ 0.00

Amount Due By 12/21/2021: \$ 1,396.00

Total Tax Rate: \$ 19.10 Net Value: 91,500

2021 HAMPTON FALLS PROPERTY TAX -- BILL 2 OF 2

Mailed To:
NORTHERN UNITIL INC ALLIED GAS
6 LIBERTY LN WEST
HAMPTON, NH 03842

Town of Hampton Falls
Mon-Thurs 8:00 am - 3 pm

(603) 926-4618

Tax Collector: Stephanie Grant

Owner: NORTHERN UNITIL INC ALLIED GAS

Location: UTILITY
Map Blk Lot Unt: UT-3-0-0
Invoice: 2021P02013106

Amount Due By 12/21/2021: \$ 1,396.00

Remit To:
Town of Hampton Falls
1 Drinkwater Road
Hampton Falls, NH 03844
Temp - Return Service Requested

PAY ONLINE AT: hamptonfalls.nhtaxkiosk.com

RETURN THIS PORTION WITH PAYMENT

REMITTED AMOUNT: Page 363 of 413

TOWN OF KENSINGTON
 Mon, Wed & Thursday 9 am - 12:00 pm
 Wed evening 6:30 pm - 8:00 pm
 603-772-5423
 Tax Collector: Carlene Wiggin
 PLEASE CHECK TOWN WEBSITE FOR ALL UPDATES
 WWW.TOWN.KENSINGTON.NH.US

UNITIL CORPORATION
 New Hampshire Division
 Attachment NUI-DTN-2

000019 000001 000000 0139-06

KENSINGTON 0.000

County: \$ 0.44 Taxable Land: 0
 School: \$ 7.03 Buildings: 1,442,400
 Town: \$ 1.84 Total 1,442,400

RECEIVED

MAY 20 2021

ACCOUNTS PAYABLE

2021P01013906 First Bill: \$ 13,429.00
 05/12/2021 - Abated/Paid: \$ 0.00
 07/01/2021 - Vet. Credits: \$ 0.00
 8% APR After 07/01/2021 \$ 13,429.00

\$ 9.31⁺ 1,442,400

Keep this copy for your records. + 1st Bill Rate=1/2 Last Year's Final Rate

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 32 of 80

Remit To		2021 KENSINGTON PROPERTY TAX – BILL 2 OF 2			
TOWN OF KENSINGTON Carlene Wiggin, Tax Collector 95 Amesbury Road Kensington, NH 03833-5620 Temp - Return Service Requested		UNITIL CORPORATION			
		Map	Lot	Sub	Net Value
		000019	000001	000000	\$ 1,410,000
		Property Location			Acres
		KENSINGTON		0.000	
8% APR Charged After 12/08/2021 PLEASE CHECK TOWN WEBSITE FOR ALL UPDATES WWW.TOWN.KENSINGTON.NH.US		Invoice	Summary of Taxes		
		2021P02014005	Total Tax: \$ 23,688.00 - 1st Bill: \$ 13,429.00 - Abated/Paid: \$ 0.00 - Vet. Credits: \$ 0.00		
Billed To UNITIL CORPORATION DBA NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON, NH 03842		Billing Date			
		11/03/2021			
		Payment Due Date			
		12/08/2021			
		Amount Due:	\$ 10,259.00		
		Amount Enclosed:			

Please return top copy with your payment.

Tax Collector Office Hours			2021 KENSINGTON PROPERTY TAX – BILL 2 OF 2			
TOWN OF KENSINGTON Mon, Wed & Thursday 9 am - 12:00 pm Wed evening 6:30 pm - 8:00 pm 603-772-5423 Tax Collector: Carlene Wiggin PLEASE CHECK TOWN WEBSITE FOR ALL UPDATES WWW.TOWN.KENSINGTON.NH.US			UNITIL CORPORATION			
			Map	Lot	Sub	Pg-Line
			000019	000001	000000	0140-05
			Property Location		Acres	
			KENSINGTON		0.000	
Tax Rates		Assessments	Invoice	Summary Of Taxes		
County:	\$ 0.89	Taxable Land: 0	2021P02014005	Total Tax: \$ 23,688.00		
School:	\$ 12.19	Buildings: 1,410,000	Billing Date	- 1st Bill: \$ 13,429.00		
Town:	\$ 3.72	Total: 1,410,000	11/03/2021	- Abated/Paid: \$ 0.00		
			Payment Due Date	- Vet. Credits: \$ 0.00		
			12/08/2021			
			Interest Rate	Amount Due:	\$ 10,259.00	
			8% APR After 12/08/2021			

Total Tax Rate:	\$ 16.80	Net Value:	1,410,000
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Keep this copy for your records

Tax Collector Office Hours **2021 KINGSTON PROPERTY TAX - BILL 2 OF 2**

Town of Kingston
tc-tc@kingstonnh.org
M 8 AM-7 PM, T-W-TH 8 AM-4 PM FRI 8 AM-12 PM
603-642-3112 #2

Tax Collector: Tammy L. Bakie
PLEASE TAKE YOUR DISCOUNT!!!

WE WILL BE CLOSED NOVEMBER 25 & 26 HAPPY THANKSGIVING

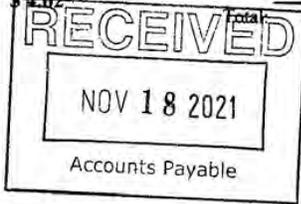
Map	Lot	Sub	Page Line
0000UT	000012	000000	0289-02

Property Location	Acres
VARIOUS	0.000

Tax Rates	Assessments	Invoice	Summary Of Taxes
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County:	\$ 0.92	Taxable Land:	0
School:	\$ 13.80	Buildings:	538,600
Town:	\$ 4.62	Total	538,600

2021P02028902	Total Tax:	\$ 10,416.52
Billing Date	- 1st Bill:	\$ 0.00
11/09/2021	- Abated/Paid:	\$ 0.00
Payment Due Date	- Vet. Credits:	\$ 0.00
12/14/2021		



Interest Rate	Amount Due:	\$ 10,416.52*
8% APR After 12/14/2021		

Total Tax Rate:	\$ 19.34	Net Value:	538,600
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Keep this copy for your records.

PT20211118 3204

*Discounted Amount Due If Paid By 12/14/2021: \$ 10,260.27

PT 2021 06/21/21
June
Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 34 of 80
J
6/21

2021 MADBURY PROPERTY TAX – BILL 1 OF 2

Mailed To:
UNITIL
NORTHERN UTILITIES
6 LIBERTY LN WEST
HAMPTON, NH 03842

Town of Madbury
Mon. Wed. and Thu. 8:00 AM - 1:00 PM
Mon. 5:00 PM - 7:00 PM
(603) 742-5131
Tax Collector: Lisa Amarosa

Owner: UNITIL
NORTHERN UTILITIES
Location: ROUTE 108/UNDERGROU
Map: 000009 **Lot:** 000099 **Sub:** 000000
Invoice: 2021P01013604

Amount Due By 07/01/2021: \$ 4,063.00

Remit To:
Town of Madbury
13 Town Hall Road
Madbury, NH 03823
Temp - Return Service Requested

Tax information can be viewed online by accessing the tax kiosk link
found on the town website homepage at www.townofmadbury.com.

REMITTED AMOUNT: 4063.00

RETURN THIS PORTION WITH PAYMENT

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 35 of 80

Town of Madbury
13 Town Hall Road
Madbury, NH 03823
Temp - Return Service Requested

2021 MADBURY PROPERTY TAX -- BILL 2 OF 2

UNITIL
NORTHERN UTILITIES
6 LIBERTY LN WEST
HAMPTON, NH 03842

Invoice: 2021P02013607
Billing Date: 10/27/2021
Payment Due Date: 12/01/2021
Amount Due: \$ 3,866.00

8% APR Charged After 12/01/2021

Please see back of this bill for important tax information.

YOU CAN NOW PAY YOUR TAXES ONLINE AT NHTAXKIOSK.COM

Property Owner		Property Description	
Owner: UNITIL NORTHERN UTILITIES		Map: 000009	Lot: 000099 Sub: 000000
Tax Rates		Location: ROUTE 108/UNDERGROU Acres: 0.000	
Assessments		Summary Of Taxes	
County: \$ 2.29	Taxable Land: 0	Total Tax:	\$ 7,929.00
School: \$ 17.03	Buildings: 336,100	- First Bill:	\$ 4,063.00
Town: \$ 4.27	Total: 336,100	- Abated/Paid:	\$ 0.00
		- Veteran Credits:	\$ 0.00

Amount Due By 12/01/2021: \$ 3,866.00

Total Tax Rate: \$ 23.59 Net Value: 336,100

2021 MADBURY PROPERTY TAX -- BILL 2 OF 2

Mailed To:
UNITIL
NORTHERN UTILITIES
6 LIBERTY LN WEST
HAMPTON, NH 03842

Town of Madbury
Mon. Wed. and Thu. 8:00 AM - 1:00 PM
Mon. 5:00 PM - 7:00 PM
(603) 742-5131
Tax Collector: Lisa Amarosa

Owner: UNITIL
NORTHERN UTILITIES
Location: ROUTE 108/UNDERGROU
Map: 000009 Lot: 000099 Sub: 000000
Invoice: 2021P02013607

Amount Due By 12/01/2021: \$ 3,866.00

Remit To:
Town of Madbury
13 Town Hall Road
Madbury, NH 03823
Temp - Return Service Requested

Tax information can be viewed online by accessing the tax kiosk link found on the town website homepage at www.townofmadbury.com.

RETURN THIS PORTION WITH PAYMENT

REMITTED AMOUNT Page 368 of 413

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 36 of 80

Town of Newington, N.H.
OFFICE OF THE TAX COLLECTOR
205 NIMBLE HILL ROAD
NEWINGTON, NEW HAMPSHIRE 03801

First Bill

REAL ESTATE TAX BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	002970-000007	05/21/2021	8% if paid after	07/01/2021
MAP/PARCEL	LOCATION OF PROPERTY		AREA	
00-04	UTILITY			
OWNER OF RECORD			TAX CALCULATION	
UNTIL NORTHERN UTILITIES ACCOUNTS PAYABLE 6 LIBERTY LANE WEST HAMPTON, NH 03842			1/2 Tax At 2020 Tax Rate	
			Municipal Tax Amount	17,976.56
			School Tax Amount	2,364.59
			County Tax Amount	2,507.03
			Total Tax	22,848.18
TAX RATE	ASSESSED VALUATION			
2020 Tax Rate	Buildings	2,848,900	Estimated Tax Amt	11,424.09
Municipal 6.310				
School 0.830				
County 0.880				
TOTAL 8.020	NET VALUE	2,848,900	<Amount To Pay>	11,424.09

INFORMATION TO TAXPAYERS

THE TAXPAYER MAY, BY MARCH 1ST FOLLOWING THE DAY OF NOTICE OF THE TAX AND NOT AFTERWARDS, APPLY IN WRITING TO THE BOARD OF SELECTMEN FOR A TAX EXEMPTION, CREDIT, ABATEMENT, OR DEFERRAL.

IF YOU ARE ELDERLY, DISABLED, BLIND, A VETERAN OR VETERAN'S SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE, YOU MAY BE ELIGIBLE FOR A TAX EXEMPTION, CREDIT, ABATEMENT, OR DEFERRAL. FOR DETAILS AND APPLICATION INFORMATION, CONTACT THE BOARD OF SELECTMEN.

REAL ESTATE TAX PAYMENTS WILL BE APPLIED FIRST TO THE OLDEST DELINQUENT REAL ESTATE TAXES (IF ANY) FOR THE INDICATED PROPERTY.

TAXPAYERS DESIRING ANY INFORMATION IN REGARD TO TAXATION, ASSESSMENTS, EXEMPTIONS, OR CHANGE OF ADDRESS MUST REFER ALL INQUIRIES TO THE BOARD OF SELECTMEN (406-7640) NOT TO TAX COLLECTOR.

ALL TAXES ARE ASSESSED ON APRIL 1ST OF EACH YEAR. TAX BILLS ARE MAILED TO THE LAST KNOWN ADDRESS.

PAYMENT POLICIES:

- POST-DATED CHECKS CANNOT BE ACCEPTED, AND WILL BE RETURNED TO THE TAXPAYER.
- A \$25.00 FEE PLUS ALL ADDITIONAL DELINQUENCY PENALTIES AND COLLECTION COSTS WILL BE CHARGED FOR ANY CHECK RETURNED BY THE BANK FOR ANY REASON.
- PAYMENT OF THIS BILL DOES NOT PREVENT THE COLLECTION OF PREVIOUS UNPAID TAXES, NOR DOES AN ERROR IN THE NAME OF THE PERSON(S) TAXED PREVENT COLLECTION.
- IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE PROPER OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG TAX BILL.
- IF THIS BILL IS PAID BY CHECK OR MONEY ORDER, IT IS NOT CONSIDERED PAID UNTIL THE CHECK OR MONEY ORDER IS CLEARED BY THE BANK.
- PLEASE MAKE CHECK PAYABLE TO: TOWN OF NEWINGTON - TAX COLLECTOR.

PLEASE KEEP THIS ENTIRE UPPER PORTION OF BILL FOR YOUR RECORDS.

Town of Newington, N.H.
OFFICE OF THE TAX COLLECTOR
205 NIMBLE HILL ROAD
NEWINGTON, NEW HAMPSHIRE 03801
REAL ESTATE TAX BILL

Second Bill

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	002970-000007	11/12/2021	8% if paid after	12/14/2021
MAP/PARCEL	LOCATION OF PROPERTY		AREA	
00-04	UTILITY			
OWNER OF RECORD			TAX CALCULATION	
UNITIL NORTHERN UTILITIES ACCOUNTS PAYABLE 6 LIBERTY LANE WEST HAMPTON, NH 03842			Municipal Tax Amount	17,737.41
			School Tax Amount	2,811.00
			County Tax Amount	2,501.79
			Total Tax	23,050.20
TAX RATE	ASSESSED VALUATION		Actual Tax Amount	23,050.20
Municipal 6.310	Buildings	2,811,000	Paid to Date	-11,424.09
School 1.000				
County 0.890				
TOTAL	8.200	NET VALUE	<Amount To Pay>	11,626.11
		2,811,000		

INFORMATION TO TAXPAYERS

THE TAXPAYER MAY, BY MARCH 1ST FOLLOWING THE DAY OF NOTICE OF THE TAX AND NOT AFTERWARDS, APPLY IN WRITING TO THE BOARD OF SELECTMEN FOR A TAX EXEMPTION, CREDIT, ABATEMENT, OR DEFERRAL.

IF YOU ARE ELDERLY, DISABLED, BLIND, A VETERAN OR VETERAN'S SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE, YOU MAY BE ELIGIBLE FOR A TAX EXEMPTION, CREDIT, ABATEMENT, OR DEFERRAL. FOR DETAILS AND APPLICATION INFORMATION, CONTACT THE BOARD OF SELECTMEN.

REAL ESTATE TAX PAYMENTS WILL BE APPLIED FIRST TO THE OLDEST DELINQUENT REAL ESTATE TAXES (IF ANY) FOR THE INDICATED PROPERTY.

TAXPAYERS DESIRING ANY INFORMATION IN REGARD TO TAXATION, ASSESSMENTS, EXEMPTIONS, OR CHANGE OF ADDRESS MUST REFER ALL INQUIRIES TO THE BOARD OF SELECTMEN (436-7640) NOT TO TAX COLLECTOR.

ALL TAXES ARE ASSESSED ON APRIL 1ST OF EACH YEAR. TAX BILLS ARE MAILED TO THE LAST KNOWN ADDRESS.

PAYMENT POLICIES:

- POST-DATED CHECKS CANNOT BE ACCEPTED, AND WILL BE RETURNED TO THE TAXPAYER.
- A \$25.00 FEE PLUS ALL ADDITIONAL DELINQUENCY PENALTIES AND COLLECTION COSTS WILL BE CHARGED FOR ANY CHECK RETURNED BY THE BANK FOR ANY REASON.
- PAYMENT OF THIS BILL DOES NOT PREVENT THE COLLECTION OF PREVIOUS UNPAID TAXES, NOR DOES AN ERROR IN THE NAME OF THE PERSON(S) TAXED PREVENT COLLECTION.
- IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE PROPER OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG TAX BILL.
- IF THIS BILL IS PAID BY CHECK OR MONEY ORDER, IT IS NOT CONSIDERED PAID UNTIL THE CHECK OR MONEY ORDER IS CLEARED BY THE BANK.
- PLEASE MAKE CHECK PAYABLE TO: TOWN OF NEWINGTON - TAX COLLECTOR.

PLEASE KEEP THIS ENTIRE UPPER PORTION OF BILL FOR YOUR RECORDS.

↑ DETACH HERE ↑ TO INSURE PROPER CREDIT, RETURN ENTIRE BOTTOM PORTION OF BILL ↑ DETACH HERE ↑

TOWN OF NEWINGTON, N.H.
REAL ESTATE TAX BILL

MAP/PARCEL	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
00-04	UTILITY	2021	002970-000007	12/14/2021

8.00% APR Interest Charged After
07/01/2021 on 1st Bill 11424.09
12/14/2021 on 2nd Bill 11626.11

<Amount To Pay> 11,626.11

UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON, NH 03842

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 38 of 80

Remit To	2021 NORTH HAMPTON PROPERTY TAX -- BILL 1 OF 2			
Town of North Hampton Town Clerk Tax Collector 237 Atlantic Avenue North Hampton, NH 03862 Temp - Return Service Requested	NORTHERN UTILITIES INC			
	Map	Lot	Sub	Net Value
	000999	000003	000000	\$ 1,822,800
	Property Location			Acres
	UTILITY-GAS			0.000
8% APR Charged After 07/01/2021	Invoice		Summary of Taxes	
	2021P01024606		First Bill: \$ 13,489.00	
Billed To	Billing Date			
NORTHERN UTILITIES INC ACCOUNTS PAYABLE 6 LIBERTY LANE WEST HAMPTON, NH 03842	05/20/2021		- Abated/Paid: \$ 0.00	
	Payment Due Date		- Vet. Credits: \$ 0.00	
	07/01/2021			
	Amount Due:		\$ 13,489.00	
Amount Enclosed:		<i>13,489.00</i>		

Please return top copy of your payment.

Tax Collector Office Hours **2021 NORTH HAMPTON PROPERTY TAX BILL # OF 2**

Town of North Hampton
Mon 8:30am - 6:00pm, Tues, Wed & Thurs 8:30-3:00
Fri 8:30-12:00
(603) 964-6029

Tax Collector: Susan M. Buchanan

Questions on the assessment please contact the Assessor at 603-964-8087.

NORTHERN UTILITIES INC
New Hampshire Division
Attachment NUI-DTN-2

Map	Lot	Sub	Page 39 of 80	Line
000999	000003	000000		0246-05

Property Location	Acres
UTILITY-GAS	0.000

Tax Rates	Assessments	Invoice	Summary Of Taxes
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County:	\$ 0.91	Taxable Land:	0	2021P02024605	Total Tax:	\$ 26,613.00
School:	\$ 9.47	Utilities:	1,822,800	Bill Due	- 1st Bill:	\$ 13,124.00
Town:	\$ 5.27	Total:	1,822,800	12/02/2021	- Abated/Paid:	\$ 0.00

Payment Due Date	- Vet. Credits:
01/07/2022	\$ 0.00

Interest Rate	Amount Due:
8% APR After 01/07/2022	\$ 13,124.00

Total Tax Rate:	\$ 14.60	Net Value:	1,822,800
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Keep this copy for your records.

du
PT20212213213 Dec 12/24

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2

TAXCOLLECTOR@PLAISTOW.COM

PHONE 603-382-8611
M/T/W 9am-4pm

First Bill



Page 373 of 413

PLEASE UTILIZE OUR DROP
BOX IN FRONT LOBBY FOR
PAYMENT OR U.S. MAIL.
POSTMARK IS ACCEPTED

**TOWN OF PLAISTOW, NH
TAX COLLECTOR
145 MAIN ST
PLAISTOW, NH 03865
REAL ESTATE TAX BILL**

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	002547-001881	6/1/2021	8% if paid after	7/1/2021
MAP/PARCEL	LOCATION OF PROPERTY			AREA
60-70	84 FORREST ST			2.09
OWNER OF RECORD		TAX CALCULATION		
NORTHERN UTILITIES ACCOUNTS PAYABLE 6 LIBERTY LN W HAMPTON NH 03842-1704		1/2 Tax At 2020 Tax Rate		
		Municipal Tax Amount	53,286.29	
		School Tax Amount	131,295.06	
		County Tax Amount	8,470.65	
		Total Tax	193,052.00	
TAX CALCULATION	ASSESSED VALUATION		Estimated Tax Amt	
2020 Tax Rate	Buildings	9,562,700	96,526.00	
Municipal 5.41	Land Value	286,880		
School 13.33				
County 0.86				
TOTAL 19.60	NET VALUE	9,849,580	PAY THIS AMOUNT	96,526.00

INFORMATION TO TAXPAYERS

All property owners shall be billed semi-annually. The Property Tax Assessment year is April 1-March 31.

The Taxpayer may, by March 1st following the date of notice of tax and not afterwards. Apply in writing to the Board of Assessors for a Tax Abatement or Deferral.

If you are ELDERLY, DISABLED, BLIND, A VETERAN OR VETERAN'S SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE you may be eligible for a tax exemption, credit, abatement or deferral. For details, application information and deadlines contact the Assessing Department at (603)382-5200 x240.

APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.

Real estate tax payments received by mail will be applied to the oldest tax bill first, for the indicated property, unless noted otherwise or accompanied by the remittance stub.

PAYMENT POLICIES

POST-DATED CHECKS CANNOT BE ACCEPTED AND WILL BE RETURNED.

A \$25 FEE, PLUS ALL ADD'TL DELINQUENCY PENALTIES AND COLLECTION COSTS WILL BE ASSESSED FOR ANY RETURNED CHECK.

TAX BILL is not considered PAID until check or money is CLEARED BY THE BANK

IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE NEW OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG BILL.

PLEASE MAKE CHECK PAYABLE TO: TOWN OF PLAISTOW



PLEASE UTILIZE OUR DROP BOX IN FRONT LOBBY FOR PAYMENT OR U.S. MAIL. *POSTMARK IS ACCEPTED*

**TOWN OF PLAISTOW, NH
TAX COLLECTOR
145 MAIN ST
PLAISTOW, NH 03865
REAL ESTATE TAX BILL**

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Phone 603-882-8611
M/T/W 9am-4pm

Second Bill

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	002547-001881	11/27/2021	8.00% if Paid after	12/27/2021
MAP/PARCEL	LOCATION OF PROPERTY			AREA
60-070-000-000	84 FORREST ST			2.08
OWNER OF RECORD		TAX CALCULATION		
NORTHERN UTILITIES C/O UNITIL NORTHERN UTILITIES ACCOUNTS PAYABLE 6 LIBERTY LN W HAMPTON NH 03842-1704		Municipal	46,237.00	
		Local Edu	117,476.00	
		State Edu	0.00	
		County	7,838.00	
		Total Tax	171,551.00	
TAX CALCULATION	ASSESSED VALUATION		Actual Tax Amount	
Municipal 4.66	Land 159,600	171,551.00		
Local Edu 11.84	Building 9,762,400	Less Previous Bill		
County 0.79		-96,526.00		
TOTAL 17.29	NET VALUE 9,922,000	Net Due This Bill		
		75,025.00		

INFORMATION TO TAXPAYERS

All property owners shall be billed semi-annually. The Property Tax Assessment year is April 1-March 31.

The Taxpayer may, by March 1st following the date of notice of tax and not afterwards. Apply in writing to the Board of Assessors for a Tax Abatement or Deferral.

If you are ELDERLY, DISABLED, BLIND, A VETERAN OR VETERAN'S SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE you may be eligible for a tax exemption, credit, abatement or deferral. For details, application information and deadlines contact the Assessing Department at (603)382-5200 x240.

APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.

Real estate tax payments received by mail will be applied to the oldest tax bill first, for the indicated property, unless noted otherwise or accompanied by the remittance stub.

PAYMENT POLICIES

POST-DATED CHECKS CANNOT BE ACCEPTED AND WILL BE RETURNED.

A \$25 FEE, PLUS ALL ADD'L DELINQUENCY PENALTIES AND COLLECTION COSTS WILL BE ASSESSED FOR ANY RETURNED CHECK.

TAX BILL is not considered PAID until check or money is CLEARED BY THE BANK

IF YOU ARE NOT THE PRESENT OWNER OF THIS PROPERTY, PLEASE FORWARD TO THE NEW OWNER. THE TAX COLLECTOR IS NOT RESPONSIBLE FOR PAYMENT ON THE WRONG BILL

PLEASE MAKE CHECK PAYABLE TO: TOWN OF PLAISTOW

↑DETACH HERE↑ TO ENSURE PROPER CREDIT, PLEASE RETURN ENTIRE BOTTOM PORTION OF BILL ↑DETACH HERE↑

PLEASE UTILIZE OUR DROP BOX IN FRONT LOBBY FOR PAYMENT OR U.S. MAIL. *POSTMARK IS ACCEPTED*

**TOWN OF PLAISTOW, NH
REAL ESTATE TAX BILL**

Second Bill

MAP/PARCEL	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
60-070-000-000	84 FORREST ST	2021	002547-001881	12/27/2021

8.00% APR Interest Charged After 12/27/2021



NORTHERN UTILITIES
C/O UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LN W
HAMPTON NH 03842-1704

Net Due This Bill 75,025.00

City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801
Phone: (603) 610-7244

Email: taxdept@cityofportsmouth.com
Hours: M 8-6pm; T,W,Th 8-4:30pm; F 8-1pm

PT20210511-3158 5/21
may
Northern Utilities Inc.
New Hampshire Division
Attachment NH-DTN-2
Page 375 of 413

Location	0 PUBLIC ROW
Map - Lot	0199-0009-0000
Account #	51089

REMINDER *

2nd Half 2020 Property Tax DUE: 6/01/2021

NORTHERN UTILITIES INC ACCTS PAYABLE
6 LIBERTY LN WEST
HAMPTON, NH 03842

RECEIVED

MAY 20 2021

Tax Amounts and/or Tax Liens Due

Interest Calculated
Through 6/01/2021

Year / Description / Bill#	Due Date	Principal	Penalty	Interest Due	Per Diem	Due this Bill
2020 TX TAX2 307956-TX	6/01/2021	284,170.00	0.00	0.00	0.0000	284,170.00
Total Due:*****						284,170.00

*The original tax bill, including the first and second half payment stubs and return envelopes, were mailed to you in November. This is a courtesy reminder of the second half 2020 tax bill amount, due June 1, 2021, and any other amounts which are past due.

Interest accrues at 8% on Tax Bills after the due date. Interest accrues at 14% on Liens executed on 2019 tax bills and later, 18% on liens executed on 2018 bills and prior.

Payment Options:

- Mail --- Return the second-half payment stub in the return envelope (previously mailed to you in November).
- Otherwise, to ensure proper credit, please include your 5-digit Account Number and mail payment to:
City of Portsmouth - Tax Collector, 1 Junkins Avenue, Portsmouth, NH 03801
- Phone --- 1-844-850-9185. \$1.50 phone fee applies. In addition, a 2.95% fee applies to credit/debit card payments.
- Online --- Go to: www.cityofportsmouth.com, select 'Pay My Bill'. Payments post within 2-business days.
- By ACH or E-check from your checking or savings account - NO FEE
- By credit/debit card - 2.95% convenience fee (\$1.95 minimum) applies
- At City Hall --- Check, Cash or Credit Card at counter, or Check along with bill stub in secure parking lot Drop Box.
- By credit/debit card - 2.95% convenience fee (\$1.95 minimum) applies

City Hall is currently by appointment only.
Please check the Tax Office website for updates before
coming to City Hall to pay your Tax Bill.

0 *

284,170.00 +
15,022.00 +
5,206.00 +
304,398.00 *

City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801
Phone: (603) 610-7244

EMail: taxdept@cityofportsmouth.com
Hours: M 8-6pm; T,W,Th 8-4:30pm; F 8-1pm

Northern Utilities, Inc.
New Hampshire Division

Attachment NUI-DTN-2 Page 376 of 413
325 WEST RD
Map - 101
0267-0015-0000
Account #
35823

NORTHERN UTILITIES INC
6 LIBERTY LANE WEST
HAMPTON, NH 03842

REMINDER *
2nd Half 2020 Property Tax DUE: 6/01/2021

Interest Calculated
Through 6/01/2021

Tax Amounts and/or Tax Liens Due

Year / Description / Bill#	Due Date	Principal	Costs/Penalty	Interest Due	Per Diem	Due this Bill
2020 TX TAX2 312009-TX	6/01/2021	15,022.00	0.00	0.00	0.0000	15,022.00
Total Due:****						15,022.00

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City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801
 Phone: (603) 610-7244
Email: taxdept@cityofportsmouth.com
 Hours: M 8-6pm; T,W,Th 8-4:30pm; F 8-1pm

Northern Utilities, Inc.
New Hampshire Division

Attachment NUI-DTN-2 Page 377 of 413
Location 139 BARBERRY LN
Map - Lot 0234-0001-0000
Account # 35504

NORTHERN UTILITIES INC
 ACCOUNTS PAYABLE
 6 LIBERTY LN WEST
 HAMPTON, NH 03842

REMINDER *
2nd Half 2020 Property Tax DUE: 6/01/2021

Interest Calculated
Through 6/01/2021

Tax Amounts and/or Tax Liens Due

Year / Description / Bill#	Due Date	Principal	Costs/Penalty	Interest Due	Per Diem	Due this Bill
2020 TX TAX2 311757-TX	6/01/2021	5,206.00	0.00	0.00	0.0000	5,206.00
Total Due:****						5,206.00

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 - Otherwise, to ensure proper credit, please include your 5-digit Account Number and mail payment to:
 City of Portsmouth - Tax Collector, 1 Junkins Avenue, Portsmouth, NH 03801
- Phone --- 1-844-850-9185. \$1.50 phone fee applies. In addition, a 2.95% fee applies to credit/debit card payments.
- Online --- Go to: www.cityofportsmouth.com, select 'Pay My Bill'. Payments post within 2-business days.
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City of Portsmouth, 2021 Property Tax Bill

1 Junkins Avenue, Portsmouth, NH 03801 (603) 610-7244

To: NORTHERN UTILITIES INC
ACCOUNTS PAYABLE

6 LIBERTY LN WEST
HAMPTON, NH 03842

Owner(s)

of Record: NORTHERN UTILITIES INC ACCOUNTS PAYABLE

Account: 35504		Map-Lot: 0234-0001-0000		Location: 139 BARBERRY LN	
TAX RATE INFORMATION		ASSESSED VALUES		First Half Tax Bill: (Due on 12/20/2021) 5,323.00	
MUNICIPAL	7.02	Property Valuation:	813,400.00	Pre-payments First Half:	0.00
LOCAL EDUCATION	5.18			Due First Half Bill:	5,323.00
COUNTY	0.89	Net Valuation	813,400.00	Second Half Tax Bill: (Due on 6/01/2022)	5,324.00
STATE EDUCATION	0.00			Prepayments Second Half:	0.00
Total Tax Rate:	13.09	2021 ANNUAL TAX	10,647.00	Due Second Half Bill:	5,324.00
		2021 Net Annual Tax	10,647.00		
TAX RATE PER \$1000 OF NET ASSESSED VALUE					

PLEASE KEEP THIS ENTIRE UPPER PORTION OF BILL FOR YOUR RECORDS

Detach at perforation above and mail this remittance coupon with your payment due. 6/01/2022				SECOND INSTALLMENT	
MAP/LOT NUMBER	LOCATION	TAX YEAR	Invoice #	DUE DATE	
0234-0001-0000	139 BARBERRY LN	2021	329703	6/01/2022	

City of Portsmouth, 1 Junkins Avenue, Portsmouth, NH 03801

HOURS OF OPERATION: MON 8:00am - 6:00pm
TUES-THU 8:00am - 4:30pm FRI 8:00am - 1:00pm

Please make any address changes here



To Pay Online, scan QR Code

8% APR Interest Charged After 6/01/2022

Second Installment

Make checks payable to: City of Portsmouth

Amount To Pay 5,324.00

If receipt desired, please include self-addressed, stamped envelope.

Account: 35504

NORTHERN UTILITIES INC
ACCOUNTS PAYABLE
6 LIBERTY LN WEST
HAMPTON, NH 03842

20 0000329703 0000532400 6

Detach at perforation above and mail this remittance coupon with your payment due. 12/20/2021				FIRST INSTALLMENT	
MAP/LOT NUMBER	LOCATION	TAX YEAR	Invoice #	DUE DATE	
0234-0001-0000	139 BARBERRY LN	2021	320875	12/20/2021	

City of Portsmouth, 1 Junkins Avenue, Portsmouth, NH 03801

HOURS OF OPERATION: MON 8:00am - 6:00pm
TUES-THU 8:00am - 4:30pm FRI 8:00am - 1:00pm

Please make any address changes here



To Pay Online, scan QR Code

8% APR Interest Charged After 12/20/2021

First Installment

Make checks payable to: City of Portsmouth

Amount To Pay 5,323.00

If receipt desired, please include self-addressed, stamped envelope.

Account: 35504

NORTHERN UTILITIES INC
ACCOUNTS PAYABLE
6 LIBERTY LN WEST
HAMPTON, NH 03842

20 0000320875 0000532300 4



City of Portsmouth, 2021 Property Tax Bill

1 Junkins Avenue, Portsmouth, NH 03801 (603) 610-7244

To: NORTHERN UTILITIES INC

6 LIBERTY LANE WEST
HAMPTON, NH 03842

Owner(s)

of Record: NORTHERN UTILITIES INC

Account: 35823		Map-Lot: 0267-0015-0000	Location: 325 WEST RD	
TAX RATE INFORMATION		ASSESSED VALUES		First Half Tax Bill: (Due on 12/20/2021) 15,362.00
MUNICIPAL	7.02	Property Valuation:	2,347,100.00	Pre-payments First Half: 0.00
LOCAL EDUCATION	5.18			Due First Half Bill: 15,362.00
COUNTY	0.89	Net Valuation	2,347,100.00	Second Half Tax Bill: (Due on 6/01/2022) 15,362.00
STATE EDUCATION	0.00			Prepayments Second Half: 0.00
Total Tax Rate:	13.09	2021 ANNUAL TAX	30,724.00	Due Second Half Bill: 15,362.00
TAX RATE PER \$1000 OF NET ASSESSED VALUE		2021 Net Annual Tax	30,724.00	

PLEASE KEEP THIS ENTIRE UPPER PORTION OF BILL FOR YOUR RECORDS

Detach at perforation above and mail this remittance coupon with your payment due. 6/01/2022				SECOND INSTALLMENT
MAP/LOT NUMBER	LOCATION	TAX YEAR	Invoice #	DUE DATE
0267-0015-0000	325 WEST RD	2021	329954	6/01/2022

City of Portsmouth, 1 Junkins Avenue, Portsmouth, NH 03801

HOURS OF OPERATION: MON 8:00am - 6:00pm
TUES-THU 8:00am - 4:30pm FRI 8:00am - 1:00pm

Please make any address changes here



To Pay Online, scan QR Code

8% APR Interest Charged After 6/01/2022

Second Installment

Make checks payable to: City of Portsmouth

Amount To Pay 15,362.00

If receipt desired, please include self-addressed, stamped envelope.

Account: 35823

NORTHERN UTILITIES INC
6 LIBERTY LANE WEST
HAMPTON, NH 03842

20 0000329954 0001536200 5

Detach at perforation above and mail this remittance coupon with your payment due. 12/20/2021				FIRST INSTALLMENT
MAP/LOT NUMBER	LOCATION	TAX YEAR	Invoice #	DUE DATE
0267-0015-0000	325 WEST RD	2021	321126	12/20/2021

City of Portsmouth, 1 Junkins Avenue, Portsmouth, NH 03801

HOURS OF OPERATION: MON 8:00am - 6:00pm
TUES-THU 8:00am - 4:30pm FRI 8:00am - 1:00pm

Please make any address changes here



To Pay Online, scan QR Code

8% APR Interest Charged After 12/20/2021

First Installment

Make checks payable to: City of Portsmouth

Amount To Pay 15,362.00

If receipt desired, please include self-addressed, stamped envelope.

Account: 35823

NORTHERN UTILITIES INC
6 LIBERTY LANE WEST
HAMPTON, NH 03842

20 0000321126 0001536200 0



City of Portsmouth, 2021 Property Tax Bill
1 Junkins Avenue, Portsmouth, NH 03801 (603) 610-7244

To: NORTHERN UTILITIES INC ACCTS PAYABLE

6 LIBERTY LN WEST
HAMPTON, NH 03842

Owner(s)

of Record: NORTHERN UTILITIES INC ACCTS PAYABLE

Account: 51089		Map-Lot: 0199-0009-0000	Location: 0 PUBLIC ROW	
TAX RATE INFORMATION		ASSESSED VALUES		First Half Tax Bill: (Due on 12/20/2021) 312,111.00
MUNICIPAL	7.02	Property Valuation:	47,686,908.00	Pre-payments First Half: 0.00
LOCAL EDUCATION	5.18	Net Valuation	47,686,908.00	Due First Half Bill: 312,111.00
COUNTY	0.89	2021 ANNUAL TAX	624,222.00	Second Half Tax Bill: (Due on 6/01/2022) 312,111.00
STATE EDUCATION	0.00			Prepayments Second Half: 0.00
Total Tax Rate:	13.09			Due Second Half Bill: 312,111.00
		2021 Net Annual Tax	624,222.00	

TAX RATE PER \$1000 OF NET ASSESSED VALUE

PLEASE KEEP THIS ENTIRE UPPER PORTION OF BILL FOR YOUR RECORDS

Detach at perforation above and mail this remittance coupon with your payment due. 6/01/2022				SECOND INSTALLMENT
MAP/LOT NUMBER	LOCATION	TAX YEAR	Invoice #	DUE DATE
0199-0009-0000	PUBLIC ROW	2021	325913	6/01/2022

City of Portsmouth, 1 Junkins Avenue, Portsmouth, NH 03801

HOURS OF OPERATION: MON 8:00am - 6:00pm
TUES-THU 8:00am - 4:30pm FRI 8:00am - 1:00pm

Please make any address changes here



To Pay Online, scan QR Code

8% APR Interest Charged After 6/01/2022

Second Installment

Make checks payable to: City of Portsmouth

Amount To Pay 312,111.00

If receipt desired, please include self-addressed, stamped envelope.

Account: 51089

NORTHERN UTILITIES INC ACCTS PAYABLE
6 LIBERTY LN WEST
HAMPTON, NH 03842

20 0000325913 0031211100 0

Detach at perforation above and mail this remittance coupon with your payment due. 12/20/2021				FIRST INSTALLMENT
MAP/LOT NUMBER	LOCATION	TAX YEAR	Invoice #	DUE DATE
0199-0009-0000	PUBLIC ROW	2021	317085	12/20/2021

City of Portsmouth, 1 Junkins Avenue, Portsmouth, NH 03801

HOURS OF OPERATION: MON 8:00am - 6:00pm
TUES-THU 8:00am - 4:30pm FRI 8:00am - 1:00pm

Please make any address changes here



To Pay Online, scan QR Code

8% APR Interest Charged After 12/20/2021

First Installment

Make checks payable to: City of Portsmouth

Amount To Pay 312,111.00

If receipt desired, please include self-addressed, stamped envelope.

Account: 51089

NORTHERN UTILITIES INC ACCTS PAYABLE
6 LIBERTY LN WEST
HAMPTON, NH 03842

20 0000317085 0031211100 9



City of Rochester

Tax Collector
Rochester, New Hampshire

OFFICE HOURS - Monday thru Friday 8 a.m. to 5 p.m.

2020

PROPERTY TAX BILL

Northern Utilities
New Hampshire Division
Attachment
Page 381 of 413
Keep this portion for your records

PT202101073134
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Customer		Location				
NORTHERN UTILITIES INC		0 ROCHESTER CITY OF				
Bill Date	Bill Number	Parcel	Year	Interest Begins		
12/18/2020	9430	0100-0001-0000	2020	01/20/2021		
Unpaid Taxes are Subject to		State School Tax	Local School Tax	County Tax	City Tax	Tax Rate *
Interest at	After					
8 %	01/19/2021	1.940	12.060	2.430	8.180	24.610
Valuations		Tax Rate Per 1000				
LAND	805,200	TOTAL GROSS TAX		597,788.00		
CURRENT USE	0	LESS VETERANS CREDIT		0.00		
BUILDINGS	25,563,900	LESS PREPAYMENTS		-307,055.00		
Exemptions		INTEREST DUE ON JULY BILL		0.00		
ELDERLY	0					
BLIND	0					
DISABLED	0					
Taxable Valuation		Total Due This Bill				
NET	26,369,100	\$290,733.00				
Previous Unpaid Taxes Due - Includes Interest Thru 01/19/2021		Interest		Total Previous Unpaid Taxes Due		
Year	Date	Balance				
			RECEIVED JAN - 4 2020		\$0.00	
ACCOUNTS PAYABLE						

IMPORTANT TAXPAYER INFORMATION LOCATED ON BACK OF BILL

PAYMENTS MUST BE POSTMARKED BY JANUARY 19, 2021
 MASTER CARD, VISA, DISCOVER, AMEX. CREDIT CARD FEES
 2.45%, DEBIT 1%, E-CHECK \$1.50, MINIMUM FEE \$1.95.
 PAY ONLINE WWW.ROCHESTERNH.NET, PAY BILLS TAB.
 IF IN BANKRUPTCY PLEASE SEE REVERSE SIDE





City of Rochester

Tax Collector
Rochester, New Hampshire

2020

PROPERTY TAX BILL

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Customer Copy
Page 382 of 413
Keep this portion for your records

OFFICE HOURS - Monday thru Friday 8 a.m. to 5 p.m.

Customer		Location				
NORTHERN UTILITIES INC		770 COLUMBUS AVE				
Bill Date	Bill Number	Parcel		Year	Interest Begins	
12/18/2020	9429	0137-0003-0000		2020	01/20/2021	
Unpaid Taxes are Subject to						
Interest at	After	State School Tax	Local School Tax	County Tax	City Tax	Tax Rate *
8 %	01/19/2021	1.940	12.060	2.430	8.180	24.610
Valuations		Tax Rate Per 1000				
LAND	340,200	TOTAL GROSS TAX		7,751.00		
CURRENT USE	0	LESS VETERANS CREDIT		0.00		
BUILDINGS	1,700	LESS PREPAYMENTS		-3,927.00		
Exemptions		INTEREST DUE ON JULY BILL		0.00		
ELDERLY	0					
BLIND	0					
DISABLED	0					
Taxable Valuation		Total Due This Bill				
NET	341,900	\$3,824.00				
Previous Unpaid Taxes Due - includes Interest Thru 01/19/2021				Total Previous Unpaid Taxes Due		
Year	Date	Balance	Interest			
				\$0.00		

IMPORTANT TAXPAYER INFORMATION LOCATED ON BACK OF BILL

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 MASTER CARD, VISA, DISCOVER, AMEX. CREDIT CARD FEES
 2.45%, DEBIT 1%, E-CHECK \$1.50, MINIMUM FEE \$1.95.
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City of Rochester

Tax Collector
Rochester, New Hampshire

OFFICE HOURS - Monday thru Friday 8 a.m. to 5 p.m.

2020

PROPERTY TAX BILL

Northern Utilities Inc.
New Hampshire Division
Attachment NO. D 11-2
Page 383 of 413
Keep this portion for your records

Customer Copy

Customer		Location				
NORTHERN UTILITIES INC		760 COLUMBUS AVE				
Bill Date	Bill Number	Parcel		Year	Interest Begins	
12/18/2020	9428	0137-0002-0000		2020	01/20/2021	
Unpaid Taxes are Subject to						
Interest at	After	State School Tax	Local School Tax	County Tax	City Tax	Tax Rate *
8 %	01/19/2021	1.940	12.060	2.430	8.180	24.610
Valuations		Tax Rate Per 1000				
LAND	126,200	TOTAL GROSS TAX		2,918.00		
CURRENT USE	0	LESS VETERANS CREDIT		0.00		
BUILDINGS	2,500	LESS PREPAYMENTS		-1,478.00		
Exemptions		INTEREST DUE ON JULY BILL		0.00		
ELDERLY	0					
BLIND	0					
DISABLED	0					
Taxable Valuation		Total Due This Bill				
NET	128,700	\$1,440.00				
Previous Unpaid Taxes Due - Includes Interest Thru 01/19/2021				Total Previous Unpaid Taxes Due		
Year	Date	Balance	Interest			
				\$0.00		

IMPORTANT TAXPAYER INFORMATION LOCATED ON BACK OF BILL

PAYMENTS MUST BE POSTMARKED BY JANUARY 19, 2021
 MASTER CARD, VISA, DISCOVER, AMEX. CREDIT CARD FEES
 2.45%, DEBIT 1%, E-CHECK \$1.50, MINIMUM FEE \$1.95.
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✂ DETACH AND RETURN THE PORTION ABOVE WITH YOUR PAYMENT ✂



City of Rochester

Tax Collector
 Rochester, New Hampshire
 OFFICE HOURS - Monday thru Friday 8 a.m. to 5 p.m.

2021

PROPERTY TAX BILL

Northern Utilities Inc.
 New Hampshire Division
 Attached to
 Customer Copy
 Page 384 of 413
 Keep this portion for your records

Customer		Location				
NORTHERN UTILITIES INC		770 COLUMBUS				
Bill Date	Bill Number	Parcel		Year	Interest Begins	
06/15/2021	9487	0137-0003-0000		2021	07/16/2021	
Unpaid Taxes are Subject to		State School Tax	Local School Tax	County Tax	City Tax	Tax Rate *
Interest at	After					
8 %	07/15/2021	0.970	6.030	1.215	4.090	12.3050
Valuations		Tax Rate Per 1000				
LAND	340,200	* BASED ON 1/2 OF PRIOR YEAR TAX RATE				
CURRENT USE	0					
BUILDINGS	1,600	JULY BILL		3,874.00		
Exemptions		LESS VETERANS CREDIT		0.00		
ELDERLY	0	LESS PREPAYMENTS		0.00		
BLIND	0					
DISABLED	0					
Taxable Valuation		Total Due This Bill				
NET	341,800	\$3,874.00				
Previous Unpaid Taxes Due - Includes Interest Thru 07/15/2021					Total Previous Unpaid Taxes Due	
Year	Date	Balance	Interest			
				\$0.00		

IMPORTANT TAXPAYER INFORMATION LOCATED ON BACK OF BILL

PAYMENTS MUST BE POSTMARKED BY JULY 15, 2021
 MASTER CARD, VISA, DISCOVER, AMEX. CREDIT CARD FEES
 2.45%, DEBIT 1%, E-CHECK \$1.50, MINIMUM FEE \$1.95.
 PAY ONLINE WWW.ROCHESTERNH.NET, PAY BILLS TAB.
 IF IN BANKRUPTCY PLEASE SEE REVERSE SIDE





City of Rochester

Tax Collector
Rochester, New Hampshire
OFFICE HOURS - Monday thru Friday 8 a.m. to 5 p.m.

2021

PROPERTY TAX BILL

Northern Utilities Inc.
New Hampshire Division
Attachment
Page 385 of 413
Keep this portion for your records

Customer Copy

Customer		Location				
NORTHERN UTILITIES INC		760 COLUMBUS				
Bill Date	Bill Number	Parcel		Year	Interest Begins	
06/15/2021	9486	0137-0002-0000		2021	07/16/2021	
Unpaid Taxes are Subject to		State School Tax	Local School Tax	County Tax	City Tax	Tax Rate *
Interest at	After					
8 %	07/15/2021	0.970	6.030	1.215	4.090	12.3050
Valuations		Tax Rate Per 1000				
LAND	126,200	* BASED ON 1/2 OF PRIOR YEAR TAX RATE				
CURRENT USE	0					
BUILDINGS	1,900					
Exemptions						
ELDERLY	0	JULY BILL				1,452.00
BLIND	0	LESS VETERANS CREDIT				0.00
DISABLED	0	LESS PREPAYMENTS				0.00
Taxable Valuation		Total Due This Bill				
NET	128,100	\$1,452.00				
Previous Unpaid Taxes Due - Includes Interest Thru 07/15/2021					Total Previous Unpaid Taxes Due	
Year	Date	Balance	Interest			
				\$0.00		

IMPORTANT TAXPAYER INFORMATION LOCATED ON BACK OF BILL

PAYMENTS MUST BE POSTMARKED BY JULY 15, 2021
 MASTER CARD, VISA, DISCOVER, AMEX. CREDIT CARD FEES
 2.45%, DEBIT 1%, E-CHECK \$1.50, MINIMUM FEE \$1.95.
 PAY ONLINE WWW.ROCHESTERNH.NET, PAY BILLS TAB.
 IF IN BANKRUPTCY PLEASE SEE REVERSE SIDE





City of Rochester

Tax Collector
Rochester, New Hampshire
OFFICE HOURS - Monday thru Friday 8 a.m. to 5 p.m.

2021

PROPERTY TAX BILL

Northern Utilities Inc
New Hampshire Division
Attached
Page 386 of 413
Keep this portion for your records

Customer Copy

Customer		ACCOUNTS PAYABLE					Location
NORTHERN UTILITIES INC							0 ROCHESTER CITY OF
Bill Date	Bill Number	Parcel		Year	Interest Begins		
06/15/2021	9488	0100-0001-0000		2021	07/16/2021		
Unpaid Taxes are Subject to			State School Tax	Local School Tax	County Tax	City Tax	Tax Rate *
Interest at	After						
8 %	07/15/2021	0.970	6.030	1.215	4.090	12.3050	
Valuations		Tax Rate Per 1000					
LAND	805,200	* BASED ON 1/2 OF PRIOR YEAR TAX RATE					
CURRENT USE	0						
BUILDINGS	25,563,900						
Exemptions							
ELDERLY	0	JULY BILL	298,894.00				
BLIND	0	LESS VETERANS CREDIT	0.00				
DISABLED	0	LESS PREPAYMENTS	0.00				
Taxable Valuation		Total Due This Bill					
NET	26,369,100	\$298,894.00					
Previous Unpaid Taxes Due - Includes Interest Thru 07/15/2021						Total Previous Unpaid Taxes Due	
Year	Date	Balance	Interest				
				\$0.00			

IMPORTANT TAXPAYER INFORMATION LOCATED ON BACK OF BILL

PAYMENTS MUST BE POSTMARKED BY JULY 15, 2021
 MASTER CARD, VISA, DISCOVER, AMEX. CREDIT CARD FEES
 2.45%, DEBIT 1%, E-CHECK \$1.50, MINIMUM FEE \$1.95.
 PAY ONLINE WWW.ROCHESTERNH.NET, PAY BILLS TAB.
 IF IN BANKRUPTCY PLEASE SEE REVERSE SIDE



TOWN OF ROLLINSFORD
OFFICE OF TAX COLLECTOR
667 MAIN STREET, PO BOX 309
ROLLINSFORD, NH 03869
Email: andrea.cass@rollinsford.nh.us

Northern Utilities, Inc.
New Hampshire Division
Attachment - 2 Hours:
Page 387 of 413
Tues & Thur 3:00 pm to 7:00 pm
Wed & Fri Closed

TAX YEAR	INVOICE 1 OF 2	BILL DATE	INTEREST RATE	DUE DATE
2021	2021P01015901	05/28/21	8.00%	07/01/21
MAP/PARCEL	LOCATION OF PROPERTY		AREA	
1-0-0	ROLLINSFORD		0.000	
MAILED TO		OWNER		

*****AUTO**ALL FOR AADC 030
UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON NH 03842



TAX RATE	ASSESSED VALUATION		SUMMARY OF TAXES	
Municipal 2.45	Buildings	194,600.00	First Bill	2,195.00
County 1.38				
School 7.45				
*First Bill Tax Rate Equals 1/2 Last Year's Final Tax Rate		Interest at 8% per annum after due date		
TOTAL 11.28		NET VALUE 194,600.00	AMOUNT DUE BY 07/01/21	2,195.00
			Other Due Amounts	0.00
			Total	2,195.00

INFORMATION FOR TAXPAYERS

24/7 Availability: Property tax payments can be made any time via the secure drop box located in the front door of Town Hall. Please include the following: (a) personal or bank check (no cash payments accepted); (b) bottom portion of this bill including your phone number; (c) self-addressed stamped envelope if you wish to receive a paid receipt. In addition, property tax and assessing information, as well as confirmation your payment has been received is accessible via the tax kiosk at www.nhtaxkiosk.com.

Please do not hesitate to email me with any questions: andrea.cass@rollinsford.nh.us

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Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Tax Collector's Office:
Mon 9:00 am to 1:00 pm
Tues & Thur 3:00 pm to 7:00 pm
Wed & Fri Closed

TAX YEAR	INVOICE 1 OF 2	BILL DATE	INTEREST RATE	DUE DATE
2021	2021P01015902	05/28/21	8.00%	07/01/21

MAP/PARCEL	LOCATION OF PROPERTY	AREA
1-76-0	REAR LAND	4.000

MAILED TO	OWNER
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*****AUTO**ALL FOR AADC 030
UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON NH 03842



TAX RATE	ASSESSED VALUATION	SUMMARY OF TAXES
Municipal 2.45 County 1.38 School 7.45 State 1.06	Land 20,000.00	First Bill 247.00
*First Bill Tax Rate Equals 1/2 Last Year's Final Tax Rate		Interest at 8% per annum after due date
TOTAL 12.34	NET VALUE 20,000.00	AMOUNT DUE BY 07/01/21 247.00 Other Due Amounts 0.00 Total 247.00

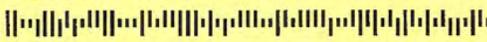
INFORMATION FOR TAXPAYERS

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OFFICE OF TAX COLLECTOR
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ROLLINSFORD, NH 03869
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Northern Utilities, Inc.
Tax Collector's Office Hours:
New Hampshire Division
Attachment NUI-DTN-2
Tues & Thurs 8:00 am to 1:00 pm
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TAX YEAR	INVOICE	BILL DATE	INTEREST RATE	DUE DATE
2021	2021P02015903	11/29/21	8.00%	12/30/21
MAP/PARCEL	LOCATION OF PROPERTY			AREA
1-0-0	ROLLINSFORD			0.000
MAILED TO		OWNER		
*****AUTO**ALL FOR AADC 030 UNITIL NORTHERN UTILITIES ACCOUNTS PAYABLE 6 LIBERTY LANE WEST HAMPTON NH 03842-1704 		UNITIL NORTHERN UTILITIES ACCOUNTS PAYABLE 6 LIBERTY LANE WEST HAMPTON NH 03842		
TAX RATE	ASSESSED VALUATION		SUMMARY OF TAXES	
Municipal 5.05 County 2.67 School 14.61	Buildings	264,500.00	Total 2021 Tax Bill First Bill	5,906.00 -2,195.00
TOTAL 22.33	NET VALUE	264,500.00	Interest at 8% per annum after due date AMOUNT DUE BY 12/30/21	3,711.00
			Other Due Amounts	0.00
			Total	3,711.00

INFORMATION FOR TAX PAYERS

Secure Drop Box: Located in the front door of Town Hall, the secure drop box provides 24/7 access for making property tax payments. Please include: (a) bottom portion of this bill including your phone number; (b) personal or bank check (no cash or credit card payments accepted); (c) self-addressed stamped envelope, if you would like a paid receipt mailed to you.

Payment Info: Property tax billing and payment information is available online: www.nhtaxkiosk.com

PLEASE KEEP THE UPPER PORTION OF BILL FOR YOUR RECORDS

DETACH HERE

TO ENSURE PROPER CREDIT, RETURN BOTTOM PORTION OF BILL

DETACH HERE

MAKE CHECKS PAYABLE TO: TOWN OF ROLLINSFORD

MAP/PARCEL	LOCATION OF PROPERTY	TAX YEAR	INVOICE	DUE DATE
1-0-0	ROLLINSFORD	2021	2021P02015903	12/30/21

Interest at 8% per annum after due date

AMOUNT DUE BY 12/30/21 3,711.00

Mailed To:

Other Due Amounts 0.00

UNITIL NORTHERN UTILITIES
ACCOUNTS PAYABLE
6 LIBERTY LANE WEST
HAMPTON NH 03842-1704

Total 3,711.00

PHONE NUMBER: (_____) _____

PLEASE FILL IN YOUR PHONE NUMBER ABOVE AND RETURN THIS PORTION WITH YOUR PAYMENT

YOUR CANCELED CHECK IS YOUR RECEIPT

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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TOWN HALL HOURS
MONDAY-FRIDAY
8:30 AM - 5:00 PM
(603) 890-2109

TOWN OF SALEM, NH
TAX COLLECTOR
33 GEREMONTY DRIVE
SALEM, NH 03079

Please keep top portion for your records.

PROPERTY TAX BILL

FIRST BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	481166	5/19/2021	8 %	7/2/2021
MAP/PARCEL	UNIT	LOCATION OF PROPERTY		AREA
157/11141/1		S BROADWAY		0.00
OWNER OF RECORD			1/2 TAX CALCULATION	
NORTHERN UTILITIES INC ACCOUNTS PAYABLE 6 LIBERTY LN W HAMPTON NH, 03842-1704 10437			First Bill Property Tax 93,935.00 Credits 36,994.81 First Bill Tax Due 56,940.19 Payments 0.00 JUN 29 2021	
TAX RATES / \$1,000		ASSESSED VALUATION		
Municipal	7.16	Building Value	9,478,700	
Local Ed	11.63	Land Value	0	
State Ed	2.20	Exemptions	0	
County	1.03	Current Use	0	
TOTAL	22.02	NET VALUE	9,478,700	PAY THIS AMOUNT \$ 56,940.19
INFORMATION TO TAXPAYERS			PAYMENT POLICIES	
All property owners shall be billed semi-annually. The Property Assessment year is April 1-March 31. Any bill not paid by the due date is considered delinquent. Interest is calculated at the designated APR on any delinquent bill. The Taxpayer may, by March 1st following the date of the notice of tax and not afterwards, apply in writing to the Selectmen or Assessor(s) for a Tax abatement or deferral. If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement or deferral. For details, application information and deadlines contact the Assessing Department at (603)-890-2115. APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.			Please use the enclosed envelope only if you are mailing payment on or before the due date and are enclosing the remittance stub. Please make check payable to the Town of Salem. For payment without the remittance stub please mail to Salem Town Hall at 33 Geremonty Drive. For PAID receipts, please include the entire bill with payment. If this bill is paid by check or money order it is not considered paid until the check or money order has cleared. A \$25.00 fee plus all additional delinquency penalties and collection costs will be charged for any check returned by the bank for any reason. If your bank or mortgage company pays your taxes, please review and forward your bill to them. Payment of this bill does not prevent the collection of previous unpaid taxes, nor does an error in the name of the person(s) taxed prevent collection.	
			Save a stamp- it's free to pay online with e-check. View or pay this bill online @ www.townofsaalemnh.org	

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 392 of 413

Page 392 of 413
TOWN HALL HOURS
MONDAY-FRIDAY
8:30 AM - 5:00 PM
(603) 890-2109

TOWN OF SALEM, NH
TAX COLLECTOR
33 GEREMONTY DRIVE
SALEM, NH 03079

Please keep top portion for your records.

PROPERTY TAX BILL

FIRST BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	481165	5/19/2021	8 %	7/2/2021
MAP/PARCEL	UNIT	LOCATION OF PROPERTY		AREA
157/11141		S BROADWAY		0.00
OWNER OF RECORD			1/2 TAX CALCULATION	
NORTHERN UTILITIES INC ACCOUNTS PAYABLE 6 LIBERTY LN W HAMPTON NH, 03842-1704 10437			First Bill Property Tax	1,658.00
			Credits	0.00
TAX RATES / \$1,000	ASSESSED VALUATION			
Municipal 7.16 Local Ed 11.63 State Ed 2.20 County 1.03 TOTAL 22.02	Building Value 167,300 Land Value 0 Exemptions 0 Current Use 0 NET VALUE 167,300	First Bill Tax Due	1,658.00	
		Payments	0.00	
		PAY THIS AMOUNT	\$ 1,658.00	
INFORMATION TO TAXPAYERS			PAYMENT POLICIES	
All property owners shall be billed semi-annually. The Property Assessment year is April 1-March 31. Any bill not paid by the due date is considered delinquent. Interest is calculated at the designated APR on any delinquent bill. The Taxpayer may, by March 1st following the date of the notice of tax and not afterwards, apply in writing to the Selectmen or Assessor(s) for a Tax abatement or deferral. If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement or deferral. For details, application information and deadlines contact the Assessing Department at (603)-890-2115. APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.			Please use the enclosed envelope only if you are mailing payment on or before the due date and are enclosing the remittance stub. Please make check payable to the Town of Salem. For payment without the remittance stub please mail to Salem Town Hall at 33 Geremonty Drive. For PAID receipts, please include the entire bill with payment. If this bill is paid by check or money order it is not considered paid until the check or money order has cleared. A \$25.00 fee plus all additional delinquency penalties and collection costs will be charged for any check returned by the bank for any reason. If your bank or mortgage company pays your taxes, please review and forward your bill to them. Payment of this bill does not prevent the collection of previous unpaid taxes, nor does an error in the name of the person(s) taxed prevent collection.	
			Save a stamp- it's free to pay online with e-check. View or pay this bill online @ www.townofsaalemnh.org	

TOWN HALL HOURS
MONDAY-FRIDAY
8:30 AM - 5:00 PM
(603) 890-2109

TOWN OF SALEM, NH
TAX COLLECTOR
33 GEREMONTY DRIVE
SALEM, NH 03079

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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Please keep top portion for your records.

PROPERTY TAX BILL

SECOND BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	493796	11/9/2021	8 %	12/20/2021
MAP/PARCEL	UNIT	LOCATION OF PROPERTY		AREA
157/11141/1		S BROADWAY		0.00

OWNER OF RECORD		TAX CALCULATION	
NORTHERN UTILITIES INC ACCOUNTS PAYABLE 6 LIBERTY LN W HAMPTON NH, 03842-1704 10379		Total Property Tax 184,747.00 Credits 73,990.00 First Bill Amount 56,940.19 Payments 56,940.19 2nd Bill Amount 53,816.81 Prepayments 0.00	
TAX RATES / \$1,000	ASSESSED VALUATION		
Municipal 5.23 Local Ed 8.38 State Ed 1.83 County 0.74 14.35 TOTAL 15.98	Building Value 12,874,400 Land Value 0 Exemptions 0 Current Use 0	NET VALUE 12,874,400 PAY THIS AMOUNT \$ 53,816.81	

INFORMATION TO TAXPAYERS	PAYMENT POLICIES
All property owners shall be billed semi-annually. The Property Assessment year is April 1-March 31. Any bill not paid by the due date is considered delinquent. Interest is calculated at the designated APR on any delinquent bill. The Taxpayer may, by March 1st following the date of the notice of tax and not afterwards, apply in writing to the Selectmen or Assessor(s) for a Tax abatement or deferral. If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement or deferral. For details, application information and deadlines contact the Assessing Department at (603)-890-2115. APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.	Please use the enclosed envelope only if you are mailing payment on or before the due date and are enclosing the remittance stub. Please make check payable to the Town of Salem. For payment without the remittance stub please mail to Salem Town Hall at 33 Geremonty Drive. When paying in person please bring the entire bill. If this bill is paid by check or money order it is not considered paid until the check or money order has cleared. A \$25.00 fee plus all additional delinquency penalties and collection costs will be charged for any check returned by the bank for any reason. If your bank or mortgage company pays your taxes, please review and forward your bill to them. Payment of this bill does not prevent the collection of previous unpaid taxes, nor does an error in the name of the person(s) taxed prevent collection.
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↑DETACH HERE↑ TO ENSURE PROPER CREDIT, PLEASE RETURN ENTIRE BOTTOM PORTION OF BILL ↑DETACH HERE↑

TOWN OF SALEM, NH - TAX COLLECTOR
P.O. BOX 9650
MANCHESTER, NH 03108-9650

TOWN OF SALEM, NH
PROPERTY TAX BILL

Do not mail payment to the P.O. Box after the due date.
The box closes on the due date.

MAP/PARCEL	UNIT	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
157/11141/1		S BROADWAY	2021	493796	12/20/2021

8% APR Interest Charged After 07/1/2021 on First Bill.
8% APR Interest Charged After 12/20/2021 on Second Bill.

PAY THIS AMOUNT \$ **53,816.81**

10379
259

NORTHERN UTILITIES INC
ACCOUNTS PAYABLE
6 LIBERTY LN W
HAMPTON NH, 03842-1704



TOWN HALL HOURS
MONDAY - FRIDAY
8:30 AM - 5:00 PM
(603) 890-2109

TOWN OF SALEM, NH
TAX COLLECTOR
33 GEREMONTY DRIVE
SALEM, NH 03079

Northern Utilities, Inc.
New Hampshire Division
Attachment NUH-DTN-2
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Please keep top portion for your records.

PROPERTY TAX BILL

SECOND BILL

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	493795	11/9/2021	8 %	12/20/2021
MAP/PARCEL	UNIT	LOCATION OF PROPERTY		AREA
157/11141		S BROADWAY		0.00
OWNER OF RECORD			TAX CALCULATION	
NORTHERN UTILITIES INC ACCOUNTS PAYABLE 6 LIBERTY LN W HAMPTON NH, 03842-1704 10379			Total Property Tax 3,180.00 Credits 0.00 First Bill Amount 1,658.00 Payments 1,658.00 2nd Bill Amount 1,522.00 Prepayments 0.00	
TAX RATES / \$1,000		ASSESSED VALUATION		
Municipal	5.23	Building Value	221,600	
Local Ed	8.38	Land Value	0	
State Ed	1.63	Exemptions	0	
County	0.74	Current Use	0	
	14.35			
TOTAL	15.98	NET VALUE	221,600	
			PAY THIS AMOUNT	\$ 1,522.00
INFORMATION TO TAXPAYERS			PAYMENT POLICIES	
All property owners shall be billed semi-annually. The Property Assessment year is April 1-March 31. Any bill not paid by the due date is considered delinquent. Interest is calculated at the designated APR on any delinquent bill. The Taxpayer may, by March 1st following the date of the notice of tax and not afterwards, apply in writing to the Selectmen or Assessor(s) for a Tax abatement or deferral. If you are elderly, disabled, blind, a veteran or veteran's spouse, or are unable to pay taxes due to poverty or other good cause, you may be eligible for a tax exemption, credit, abatement or deferral. For details, application information and deadlines contact the Assessing Department at (603)-890-2115. APPLICATIONS FOR EXEMPTIONS AND/OR CREDITS MUST BE FILED ON OR BEFORE APRIL 15TH EACH YEAR.			Please use the enclosed envelope only if you are mailing payment on or before the due date and are enclosing the remittance stub. Please make check payable to the Town of Salem. For payment without the remittance stub please mail to Salem Town Hall at 33 Geremonty Drive. When paying in person please bring the entire bill. If this bill is paid by check or money order it is not considered paid until the check or money order has cleared. A \$25.00 fee plus all additional delinquency penalties and collection costs will be charged for any check returned by the bank for any reason. If your bank or mortgage company pays your taxes, please review and forward your bill to them. Payment of this bill does not prevent the collection of previous unpaid taxes, nor does an error in the name of the person(s) taxed prevent collection.	
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P.O. BOX 9650
MANCHESTER, NH 03108-9650

TOWN OF SALEM, NH
PROPERTY TAX BILL

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after the due date.
The box closes on the due date.

MAP/PARCEL	UNIT	LOCATION OF PROPERTY	TAX YEAR	BILL NUMBER	DUE DATE
157/11141		S BROADWAY	2021	493795	12/20/2021

8% APR Interest Charged After 07/1/2021 on First Bill.
8% APR Interest Charged After 12/20/2021 on Second Bill.

PAY THIS AMOUNT \$ **1,522.00**

10379
259

NORTHERN UTILITIES INC
ACCOUNTS PAYABLE
6 LIBERTY LN W
HAMPTON NH, 03842-1704



Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
1st Tax Bill 2021

TOWN OF SEABROOK

Page 395 of 413

PO BOX 476, SEABROOK, NH 03874

Tax Year	Prop ID	Bill Date	Map/Parcel No.
2021	107608	5/11/2021	26-903-1
Town Rate			3.285
Local School Rate			3.205
State School Rate			0
County Rate			0.46
Beach Precinct Rate			0
TOTAL RATE			6.95

MAIL TO: SEABROOK TAX COLLECTOR
PO BOX 476
SEABROOK, NH 03874

Michele X. Knowles, Tax Collector (603) 474-9881

Assessed Valuation	
Land:	0
Building:	11,975,300
Curr Use:	0
Oth Val:	0
Tot Value:	11,975,300
Area:	0.00

Tax Calculations	
Gross Value	\$11,975,300.00
Exemptions	
Net Value	\$11,975,300.00

Taxpayer's Name and Address Bill #: 159383

**NORTHERN UTILITIES
C/O UNITIL UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842**

TAX	\$83,229.00
Veteran Credit	
1ST TAX BILL 2021	\$83,229.00
Pre Payments	
TAX DUE 7/1/2021	\$83,229.00

Property Location: UTILITY-GAS 72:8-d
SEE REVERSE SIDE FOR TAXPAYER RIGHTS & FURTHER INFORMATION

- Abatement (97,532.37)
Amt. Due 45,696.63
8.00 % APR Interest Charged After 7/01/2021

TOWN OF SEABROOK

PO BOX 476, SEABROOK, NH 03874

1st Tax Bill 2021

Tax Year	Prop ID	Bill Date	Map/Parcel No.
2021	107608	5/11/2021	26-903-1
Town Rate			3.285
Local School Rate			3.205
State School Rate			0
County Rate			0.46
Beach Precinct Rate			0
TOTAL RATE			6.95

MAIL TO: SEABROOK TAX COLLECTOR
PO BOX 476
SEABROOK, NH 03874

Michele X. Knowles, Tax Collector (603) 474-9881

Assessed Valuation	
Land:	0
Building:	11,975,300
Curr Use:	0
Oth Val:	0
Tot Value:	11,975,300
Area:	0.00

Tax Calculations	
Gross Value	\$11,975,300.00
Exemptions	
Net Value	\$11,975,300.00

Taxpayer's Name and Address Bill #: 159383

**NORTHERN UTILITIES
C/O UNITIL UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842**

TAX	\$83,229.00
Veteran Credit	
1ST TAX BILL 2021	\$83,229.00
Pre Payments	
TAX DUE 7/1/2021	\$83,229.00

Property Location: UTILITY-GAS 72:8-d
SEE REVERSE SIDE FOR TAXPAYER RIGHTS & FURTHER INFORMATION

- Abatement (97,532.37)
Amt. Due 45,696.63
8.00 % APR Interest Charged After 7/01/2021

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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PT 2021 002
June Jr *2/29*

TOWN OF SEABROOK

PO BOX 476, SEABROOK, NH 03874

1st Tax Bill 2021

Tax Year	Prop ID	Bill Date	Map/Parcel No.	MAIL TO:	
2021	3931	5/11/2021	26-903	SEABROOK TAX COLLECTOR PO BOX 476 SEABROOK, NH 03874	
Town Rate			3.285	Michele X. Knowles, Tax Collector (603) 474-9881	
Local School Rate			3.205		
State School Rate			0		
County Rate			0.46		
Beach Precinct Rate			0		
TOTAL RATE			6.95		
Taxpayer's Name and Address			Bill #: 159382		
NORTHERN UTILITIES C/O UNITIL UTILITIES 6 LIBERTY LANE WEST HAMPTON, NH 03842					
				Tax Calculations	
				Gross Value	\$166,800.00
				Exemptions	
				Net Value	\$166,800.00
				TAX	\$1,160.00
				Veteran Credit	
				1ST TAX BILL 2021	\$1,160.00
				Pre Payments	
				TAX DUE 7/1/2021	\$1,160.00

Property Location: UTILITY-GAS

SEE REVERSE SIDE FOR TAXPAYER RIGHTS & FURTHER INFORMATION

8.00 % APR Interest Charged After 7/01/2021

TOWN OF SEABROOK

PO BOX 476, SEABROOK, NH 03874

1st Tax Bill 2021

Tax Year	Prop ID	Bill Date	Map/Parcel No.	MAIL TO:	
2021	107608	5/11/2021	26-903-1	SEABROOK TAX COLLECTOR PO BOX 476 SEABROOK, NH 03874	
Town Rate			3.285	Michele X. Knowles, Tax Collector (603) 474-9881	
Local School Rate			3.205		
State School Rate			0		
County Rate			0.46		
Beach Precinct Rate			0		
TOTAL RATE			6.95		
Taxpayer's Name and Address			Bill #: 159383		
NORTHERN UTILITIES C/O UNITIL UTILITIES 6 LIBERTY LANE WEST HAMPTON, NH 03842					
				Tax Calculations	
				Gross Value	\$11,975,300.00
				Exemptions	
				Net Value	\$11,975,300.00
				TAX	\$83,229.00
				Veteran Credit	
				1ST TAX BILL 2021	\$83,229.00
				Pre Payments	
				TAX DUE 7/1/2021	\$83,229.00

Property Location: UTILITY-GAS 72:8-d

SEE REVERSE SIDE FOR TAXPAYER RIGHTS & FURTHER INFORMATION

8.00 % APR Interest Charged After 7/01/2021

Amt. Due 45,696.63

1,160.00
83,229.00
002

2021 FINAL TAX BILL
Northern Utilities, Inc.

TOWN OF SEABROOK

PO BOX 476, SEABROOK, NH 03874

Tax Year	Prop ID	Bill Date	Map/Parcel No.	Assessed Valuation
2021	107608	11/22/2021	26-903-1	
Town Rate				6.01
Local School Rate				5.33
State School Rate				0
County Rate				0.75
Beach Precinct Rate				0
TOTAL RATE				12.09

MAIL TO: SEABROOK TAX COLLECTOR
PO BOX 476
SEABROOK, NH 03874

New Hampshire Division
Attachment NUI-DTN-2
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Michele X. Knowles, Tax Collector (603) 474-9881

Taxpayer's Name and Address

**NORTHERN UTILITIES
C/O UNITIL UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842**

Tax Calculations	
Gross Value	\$12,938,800.00
Exemptions	
Net Value	\$12,938,800.00
Total Tax	\$156,430.00
Veteran Credit	
1st Bill 2021	\$83,229.00
Previous Payments	\$45,696.63
Prepayments	
TAX DUE 1/5/2022:	\$73,201.00

PT 2021 122113213

Abated by Town (- 37,532.37)
Total Due 35,668.63

Property Location: UTILITY-GAS 72:8-d

8.00 % APR Interest Charged After 1/05/2022

SEE REVERSE SIDE FOR TAXPAYER RIGHTS & FURTHER INFORMATION

TOWN OF SEABROOK

PO BOX 476, SEABROOK, NH 03874

2021 FINAL TAX BILL

New Hampshire Division
Northern Utilities, Inc.

Tax Year	Prop ID	Bill Date	Map/Parcel No.
2021	Page 398 of 413 39831 413	11/22/2021	26-903

MAIL TO: SEABROOK TAX COLLECTOR
PO BOX 476
SEABROOK, NH 03874

Michele X. Knowles, Tax Collector (603) 474-9881

	Assessed Valuation
Town Rate	6.01
Local School Rate	5.33
State School Rate	0
County Rate	0.75
Beach Precinct Rate	0
TOTAL RATE	12.09

Land:	0
Building:	182,500
Curr Use:	0
Oth Val:	0
Tot Value:	182,500
Area:	0.00

Tax Calculations	
Gross Value	\$182,500.00
Exemptions	
Net Value	\$182,500.00
Total Tax	\$2,207.00
Veteran Credit	
1st Bill 2021	\$1,160.00
Previous Payments	\$1,160.00
Prepayments	
TAX DUE 1/5/2022:	\$1,047.00

Taxpayer's Name and Address **Bill # 103723**

**NORTHERN UTILITIES
C/O UNITIL UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842**

Property Location
UTILITY-GAS

SEE REVERSE SIDE FOR TAXPAYER RIGHTS & FURTHER INFORMATION

8.00 % APR Interest Charged After 1/05/2022

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
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CITY OF SOMERSWORTH
Office of the Tax Collector
One Government Way
Somersworth NH 03878-3248

Hours
M-T-TH-F 8 to 4:30, W 8 to 6

ph. (603) 692-9555

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	00002848	05/24/2021	8%	07/01/2021
MAP / PARCEL		LOCATION OF PROPERTY		AREA
9-282A		0 MAIN ST		0.70
OWNER OF RECORD			TAX CALCULATION	
NORTHERN UTILITIES ~UNITIL NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON NH 03842-1704			NET TAXABLE	\$62,000.00
			TAX RATE	\$27.85
TAX RATE PER \$1000		ASSESSED VALUATION		
Municipal	\$8.68	Land	\$62,000	ESTIMATED TAX AT 1/2 RATE
School	\$14.79	Building	\$0	
State	\$1.94	----- Taxable Value	\$62,000	
County	\$2.44			
TOTAL	\$27.85			\$863.00
			Interest at 8% per annum after July 01, 2021.	
			PAY THIS AMOUNT	
			\$863.00	

INFORMATION TO TAXPAYERS

TAXPAYERS DESIRING ANY INFORMATION IN REGARD TO ASSESSMENT, EXEMPTIONS, OR TAXATION SHOULD CALL THE ASSESSOR AT (603) 692-9520.

PAYMENT OF THIS BILL DOES NOT PREVENT THE COLLECTION OF PREVIOUS UNPAID TAXES NOR DOES AN ERROR IN THE NAME OF THE PERSON TAXED PREVENT COLLECTION.

IF THIS BILL IS PAID BY CHECK OR MONEY ORDER IT IS NOT CONSIDERED PAID UNTIL CHECK OR MONEY ORDER IS CLEARED.

IF YOU ARE ELDERLY, DISABLED, BLIND, A VETERAN, OR VETERAN'S SPOUSE, OR ARE UNABLE TO PAY TAXES DUE TO POVERTY OR OTHER GOOD CAUSE YOU MAY BE ELIGIBLE FOR A TAX EXEMPTION CREDIT, ABATEMENT OR DEFERRAL. FOR DETAILS AND APPLICATION INFORMATION CONTACT THE ASSESSOR'S OFFICE AT (603) 692-9520.

THE TAXPAYER MAY BY MARCH 1 FOLLOWING THE DATE OF NOTICE OF TAX AND NOT AFTERWARDS, APPLY IN WRITING TO THE ASSESSOR(S) FOR AN ABATEMENT AS PROVIDED UNDER RSA 76:16.

IF PAYING BY MAIL AND A RECEIPT IS DESIRED, PLEASE SEND ENTIRE BILL AND A SELF-ADDRESSED STAMPED ENVELOPE WITH YOUR PAYMENT. IF PAYING IN PERSON, PLEASE BRING ENTIRE BILL WITH YOU AND WE WILL STAMP UPPER PORTION FOR YOUR RECORDS.

CREDIT CARDS ARE NOW ACCEPTED ON-LINE AT WWW.SOMERSWORTH.COM AND IN THE TAX COLLECTOR / CITY CLERK OFFICE. CONVENIENCE FEES OF 2.89% APPLY.

Northern Utilities, Inc.
New Hampshire Division
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ph. (603) 692-9555

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	00002847	05/24/2021	8%	07/01/2021
MAP / PARCEL		LOCATION OF PROPERTY		AREA
A-1		0 MAIN ST		0.00
OWNER OF RECORD			TAX CALCULATION	
NORTHERN UTILITIES ~UNITIL NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON NH 03842-1704			NET TAXABLE	\$9,643,400.00
			TAX RATE	\$25.91
TAX RATE PER \$1000	ASSESSED VALUATION			
Municipal \$8.68	Land	\$0	ESTIMATED TAX AT 1/2 RATE	\$124,930.00
School \$14.79	Building	\$9,643,400		
State \$0.00	Taxable Value	\$9,643,400		
County \$2.44				
TOTAL \$25.91				
			Interest at 8% per annum after July 01, 2021.	
			PAY THIS AMOUNT	\$124,930.00

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Northern Utilities, Inc.
New Hampshire Division
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CITY OF SOMERSWORTH
Office of the Tax Collector
One Government Way
Somersworth NH 03878-3248

Hours
M-T-TH-F 8 to 4:30. W 8 to 6

ph. (603) 692-9555

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	00002846	05/24/2021	8%	07/01/2021
MAP / PARCEL		LOCATION OF PROPERTY		AREA
22-51		77 BARTLETT AVE		0.19
OWNER OF RECORD			TAX CALCULATION	
NORTHERN UTILITIES ~UNITIL NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON NH 03842-1704			NET TAXABLE	\$69,800.00
			TAX RATE	\$25.91
TAX RATE PER \$1000		ASSESSED VALUATION		
Municipal	\$8.68	Land	\$69,400	ESTIMATED TAX AT 1/2 RATE
School	\$14.79	Building	\$400	
State	\$0.00	Taxable Value	\$69,800	
County	\$2.44			
TOTAL	\$25.91			
				Interest at 8% per annum after July 01, 2021.
PAY THIS AMOUNT				\$904.00

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CITY OF SOMERSWORTH
Office of the Tax Collector
One Government Way
Somersworth NH 03878-3248

Northern Utilities, Inc.
New Hampshire Division
Attachment No. 2021-2
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M-T-TH-F 8 to 4:30. W 8 to 6
Dec 24
ph. (603) 692-9555

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE	
2021	00002848	12/06/2021	8%	01/07/2022	
MAP / PARCEL		LOCATION OF PROPERTY		AREA	
9-282A		0 MAIN ST		0.70	
OWNER OF RECORD			TAX CALCULATION		
NORTHERN UTILITIES ~UNITIL NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON NH 03842-1704			NET TAXABLE VALUE	\$62,000.00	
			TAX RATE	\$27.53	
			TOTAL TAX	\$1,707.00 \$1,595.00	
2021 TAX RATE PER \$1000		ASSESSED VALUATION			
Municipal	\$8.62	Land	\$62,000	FIRST BILLING	\$863.00
School	\$14.58	Building	\$0	SECOND BILLING	\$844.00
State	\$1.61	Taxable Value	\$62,000		\$732.00
County	\$2.52				
TOTAL	\$27.53 25.72			Interest at 8% per annum after January 07, 2022.	\$732.00
				PAY THIS AMOUNT	\$844.00

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CITY OF SOMERSWORTH
Office of the Tax Collector
One Government Way
Somersworth NH 03878-3248

Northern Utilities, Inc.
New Hampshire Division
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Hours
M-T-TH-F 8 to 4:30. W 8 to 6

ph. (603) 692-9555

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	00002846	12/06/2021	8%	01/07/2022
MAP/PARCEL	LOCATION OF PROPERTY		AREA	
22-51	77 BARTLETT AVE		0.19	
OWNER OF RECORD		TAX CALCULATION		
NORTHERN UTILITIES ~UNITIL NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON NH 03842-1704		NET TAXABLE VALUE	\$69,800.00	
		TAX RATE	\$25.72	
		TOTAL TAX	\$1,795.00	
2021 TAX RATE PER \$1000	ASSESSED VALUATION			
Municipal \$8.62	Land \$69,400	FIRST BILLING	\$904.00	
School \$14.58	Building \$400	SECOND BILLING	\$891.00	
State \$0.00	Taxable Value \$69,800			
County \$2.52				
TOTAL \$25.72				
Interest at 8% per annum after January 07, 2022.				
PAY THIS AMOUNT				\$891.00

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Northern Utilities, Inc.
New Hampshire Division
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CITY OF SOMERSWORTH
Office of the Tax Collector
One Government Way
Somersworth NH 03878-3248

Hours
M-T-TH-F 8 to 4:30. W 8 to 6

ph. (603) 692-9555

TAX YEAR	BILL NUMBER	BILLING DATE	INTEREST RATE	DUE DATE
2021	00002847	12/06/2021	8%	01/07/2022
MAP / PARCEL	LOCATION OF PROPERTY			AREA
A-1	0 MAIN ST			0.00
OWNER OF RECORD		TAX CALCULATION		
NORTHERN UTILITIES ~UNITIL NORTHERN UTILITIES 6 LIBERTY LANE WEST HAMPTON NH 03842-1704		NET TAXABLE VALUE \$8,821,800.00		
		TAX RATE \$25.72		
		TOTAL TAX \$226,897.00		
2021 TAX RATE PER \$1000	ASSESSED VALUATION			
Municipal \$8.62	Land \$0	FIRST BILLING \$124,930.00		
School \$14.58	Building \$8,821,800	SECOND BILLING \$101,967.00		
State \$0.00	Taxable Value \$8,821,800			
County \$2.52				
TOTAL \$25.72		Interest at 8% per annum after January 07, 2022.		
			PAY THIS AMOUNT	\$101,967.00

INFORMATION TO TAXPAYERS

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Northern Utilities, Inc.
New Hampshire Division
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TOWN OF STRATHAM
10 BUNKER HILL AVE
STRATHAM, NH 03885
Temp - Return Service Requested

UNITIL NORTHERN UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842

2021 STRATHAM PROPERTY TAX – BILL 1 OF 2

Invoice: 2021P01045105
Billing Date: 05/17/2021
Payment Due Date: 07/01/2021
Amount Due: \$ 4,261.00

8% APR Charged After 07/01/2021

Property Owner	
Owner: UNITIL NORTHERN UTILITIES	
Tax Rates	Assessments
County: \$ 0.41	Taxable Land: 0
School: \$ 6.61	Buildings: 497,200
Town: \$ 1.55	Total: 497,200

Property Description		
Map: 000029	Lot: 000002	Sub: 000000
Location: STRATHAM Acres: 0.000		
Summary Of Taxes		
First Bill:		\$ 4,261.00
- Abated/Paid:		\$ 0.00
- Veteran Credits:		\$ 0.00

Amount Due By 07/01/2021: **\$ 4,261.00**

Total Tax Rate:	\$ 8.57 *	Net Value:	497,200
* First Bill Tax Rate Equals 1/2 Last Year's Final Tax Rate			

Northern Utilities, Inc.
New Hampshire Division
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TOWN OF STRATHAM
10 BUNKER HILL AVE
STRATHAM, NH 03885
Temp - Return Service Requested

UNITIL NORTHERN UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842

2021 STRATHAM PROPERTY TAX -- BILL 2 OF 2

Invoice: 2021P02045302
Billing Date: 11/23/2021
Payment Due Date: 12/28/2021
Amount Due: \$ 4,758.00

8% APR Charged After 12/28/2021

Property Owner			
Owner: UNITIL NORTHERN UTILITIES			
Tax Rates		Assessments	
County:	\$ 0.82	Taxable Land:	0
School:	\$ 12.76	Buildings:	539,100
Town:	\$ 3.15	Total:	539,100
Total Tax Rate: \$ 16.73		Net Value: 539,100	

Property Description		
Map: 000029	Lot: 000002	Sub: 000000
Location: STRATHAM Acres: 0.000		
Summary Of Taxes		
Total Tax:	\$ 9,019.00	
- First Bill:	\$ 4,261.00	
- Abated/Paid:	\$ 0.00	
- Veteran Credits:	\$ 0.00	

Amount Due By 12/28/2021: **\$ 4,758.00**

2021 STRATHAM PROPERTY TAX -- BILL 2 OF 2

TOWN OF STRATHAM
MON. 8:30-7:00, TUE,WED,THUR. 8:30-4:00,
FRI. 8:00-12:30
(603) 772-4741

Tax Collector: DEBORAH L BAKIE
Owner: UNITIL NORTHERN UTILITIES

Location: STRATHAM
Map: 000029 Lot: 000002 Sub: 000000
Invoice: 2021P02045302

Amount Due By 12/28/2021: **\$ 4,758.00**

Mailed To:
UNITIL NORTHERN UTILITIES
6 LIBERTY LANE WEST
HAMPTON, NH 03842

Remit To:
TOWN OF STRATHAM
10 BUNKER HILL AVE
STRATHAM, NH 03885
Temp - Return Service Requested

RETURN THIS PORTION WITH PAYMENT

REMITTED AMOUNT: Page 406 of 413



New Hampshire
Department of
Revenue Administration

2021
DP-255-ES

**ESTIMATED UTILITY
PROPERTY TAX**

Taxpayer's Worksheet - Keep for your records

1	2020 Utility Property Tax (see Notice of Value and Tax Bill, Line 3)	1	1,235,986
2	2020 Overpayment applied to 2021 taxes	2	∅
3	Balance of Estimated Utility Property Tax (Line 1 minus Line 2)	3	1,235,986 × .10 Inc

Est. 2021 Tax = 1,359,585

COMPUTATION AND RECORD OF PAYMENTS

Date Paid	Amount of each Installment (1/4 of Line 1 of worksheet)	2020 Overpayment Applied to Installment	Balance Due	Calendar Year Due Dates
4/15/2021	339,896			April 15, 2021
6/15/2021	339,896			June 15, 2021
9/15/2021	339,896			Sept. 15, 2021
12/15/2021				Dec. 15, 2021

IMPORTANT:

**THE PENALTY PROVISIONS OF RSA 21-J:32 WILL APPLY IF THE
ESTIMATED TAX PAYMENT REQUIREMENTS HAVE NOT BEEN MET**

Northern Utilities

Northern Utilities, Inc.
New Hampshire Division
Attachment NUI-DTN-2
Page 409 of 413
PT 2020 0520 3162
may 21 5/21



New Hampshire
Department of
Revenue Administration

2021
DP-255-ES

ESTIMATED UTILITY
PROPERTY TAX -- Payment Form 2

Due June 15, 2021

Name of Taxpayer

Northern Utilities, Inc.

Taxpayer Identification Number

042687009

Number & Street Address

6 Liberty Lane West
Address (continued)

City / Town

Hampton

State

NH

Zip Code + 4 (or Canadian Postal Code)

03842



Enclose, but do not staple or tape
your payment to this estimate.
Do not file a \$0 estimate.

Amount of Payment

339,896.00

Make Check Payable to: **STATE OF NEW HAMPSHIRE**

MAIL TO:

NH DRA

PO BOX 637

CONCORD NH 03302-0637

DP-255-ES 2021
Rev 1.1 06/2020

RECEIVED

MAY 20 2021



Page 410 of 413
New Hampshire
Department of
Revenue Administration

2021
DP-255-ES

**ESTIMATED UTILITY
PROPERTY TAX**

Taxpayer's Worksheet - Keep for your records

1	2020 Utility Property Tax (see Notice of Value and Tax Bill, Line 3)	1	1,235,986
2	2020 Overpayment applied to 2021 taxes	2	∅
3	Balance of Estimated Utility Property Tax (Line 1 minus Line 2)	3	1,235,986 × .10 Inc

Est. 2021 Tax = 1,359,585

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Date Paid	Amount of each Installment (1/4 of Line 1 of worksheet)	2020 Overpayment Applied to Installment	Balance Due	Calendar Year Due Dates
4/15/2021	339,896			April 15, 2021
6/15/2021	339,896			June 15, 2021
9/15/2021	339,896	ACCOUNTS PAYABLE		Sept. 15, 2021
12/15/2021				Dec. 15, 2021

IMPORTANT:

**THE PENALTY PROVISIONS OF RSA 21-J:32 WILL APPLY IF THE
ESTIMATED TAX PAYMENT REQUIREMENTS HAVE NOT BEEN MET**

RECEIVED

MAY 20 2021

ACCOUNTS PAYABLE

Northern Utilities



State of New Hampshire
Department of Revenue Administration



NOTICE OF VALUE AND TAX BILL
Utility Property Tax - RSA 83-F

Tax Year: 2020	Date Notice Issued: December 15, 2020
Tax Period: 4/1/2020 - 3/31/2021	Appeal Expiration Date: February 13, 2021
Tax Type: Utility Property Tax	Due Date for Filing Form DP-255: January 15, 2021

NORTHERN UTILITIES INC
6 LIBERTY LN W
HAMPTON NH 03842

SUMMARY OF ASSESSED VALUE AND TAX DUE	
1. Assessed value as of April 1, 2020:	\$187,270,600
2. Tax rate per \$1,000 of assessed value:	\$6.60
3. 2020 Utility Property Tax due pursuant to RSA 83-F:	\$1,235,986
4. Penalty for failure to file Form PA-20 or untimely filing of the form:	\$0
5. Total due:	\$1,235,986

IMPORTANT: All taxpayers receiving this Notice of Value and Tax Bill must file Form DP-255 "Utility Property Tax Payment Form" by January 15, 2021. The form can be obtained at the Department of Revenue Administration (DRA) website at: <http://www.revenue.nh.gov/forms/utility-property.htm>. You can also obtain a copy of the form by calling the Forms Line at (603) 230-5001.

Additional interest charges and penalties may apply for late payment of tax due, failure to make payments or underpayment of taxes including underpayment of estimated taxes. See instructions for Form DP-255.

Questions about your assessment can be directed to the Utility Appraiser at the DRA Municipal and Property Division at (603) 230-5090.

All written correspondence to the Department should include the taxpayer's name, taxpayer identification number, the name of a contact person and a daytime telephone number. Individuals with hearing or speech impairments may call TDD Access: Relay NH 1-800-735-2964.

Mail Form DP-255 to:

NH Department of Revenue PO Box 637 Concord, NH 03302-0637
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See Taxpayer's Bill of Rights on reverse side of this notice, which outlines your rights as well as the obligations of the Department.

PT 2021 0825 3186
any
8/27



New Hampshire
Department of
Revenue Administration

2021
DP-255-ES

ESTIMATED UTILITY
PROPERTY TAX -- Payment Form 3

Due Sept. 15, 2021

Name of Taxpayer

Northern Utilities, Inc.

Taxpayer Identification Number

042687009

Number & Street Address

6 Liberty Lane West
Address (continued)

City / Town

Hampton

State

NH

Zip Code + 4 (or Canadian Postal Code)

03842



0255ES2111862

Enclose, but do not staple or tape
your payment to this estimate.
Do not file a \$0 estimate.

Amount of Payment

337,876.00

Make Check Payable to: **STATE OF NEW HAMPSHIRE**

MAIL TO:

NH DRA

PO BOX 637

CONCORD NH 03302-0637

AUG 25 2021

ACCOUNTS PAYABLE

DP-255-ES 2021
Rev 1.1 06/2020

Cut along this line to submit Estimated Utility Property Tax. Keep the Estimated Tax Worksheet for your records



Lindsey M. Stepp
Commissioner

State of New Hampshire Department of Revenue Administration

109 Pleasant Street
PO Box 3718
Concord, NH 03302-3718
(603) 230-5000
www.revenue.nh.gov



Carolynn J. Lear
Assistant Commissioner



MARY JANE HILTON
NORTHERN UTILITIES INC
6 LIBERTY LN W
HAMPTON NH 03842-1704

Date: December 14, 2021
Letter ID: L0000353054
Account ID: 0057793-3
Account Type: Utility Property Tax

Notice of Valuation

The Department of Revenue Administration has completed the valuation appraisal on your Utility Property Tax account for the tax period April 1, 2021 - March 31, 2022. A summary of your valuation is provided on the back.

The amount shown is due by January 18, 2022. Payment may be mailed with the voucher below or submitted online at www.revenue.nh.gov/gtc.

Additional penalty and interest may apply for late payment of tax due including underpayment of estimated taxes.

If you do not agree with the information provided in this notice, you have the right to an appeal. **You must file your appeal with the Department's Hearings Bureau by February 13, 2022 as prescribed in RSA 21-J:28-b.** Your appeal must be in writing and include an original signature by you or your authorized representative. The appeal must contain the following information:

- Name and address of the taxpayer, and taxpayer's representative (if any)
- Taxpayer identification number and/or license number
- A copy of the notice or denial received

Enclosed is the Taxpayers' Bill of Rights which outlines the rights and remedies you have as a taxpayer in New Hampshire. If you have any questions regarding this correspondence, contact the Department between the hours of 8:00 AM and 4:30 PM, Monday through Friday.

Tax Summary

Tax Due (RSA 83-F):	\$1,370,478.12
Failure to File Penalty:	\$0.00
Previous Credits/Payments:	(\$1,019,688.00)
Total Due:	\$350,790.12

Please remove this portion and mail with your payment

PAYMENT DUE: January 18, 2022

Letter ID: L0000353054
Media Number: 01-007-267-3277
Account ID: 0057793-3



Amount Due: \$350,790.12

Amount Enclosed:

999999 010072 673277 030000 57793309 03312022