

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

COST OF GAS RATE FILING - DOCKET NO. DG 22-057

WINTER PERIOD 2022 – 2023

CONTENTS

1. TARIFF PAGE 88 - FIRM RATE SCHEDULE	
2. MARKED TARIFF PAGE 88 - FIRM RATE SCHEDULE	
3. TARIFF PAGE 97 - COST OF GAS RATE	
4. MARKED TARIFF PAGE 97 - COST OF GAS RATE	
5. CONVERSION OF GAS COSTS - GALLONS TO THERMS	SCHEDULE A
6. CALCULATION OF COST OF GAS RATE	SCHEDULE B
7. CALCULATION OF PURCHASED PROPANE COSTS	SCHEDULE C
8. PROPANE PURCHASE STABILIZATION PROGRAM	SCHEDULE D
9. PROPANE SPOT MARKET PURCHASE COST ANALYSIS	SCHEDULE E
10. INVENTORY & WACOG CALCULATION	SCHEDULE F
11. PRIOR PERIOD (OVER)/UNDER COLLECTION	SCHEDULE G
12. INTEREST CALCULATION	SCHEDULE H
13. WEATHER NORMALIZATION - SENDOUT	SCHEDULE I
14. WEATHER NORMALIZATION - SALES	SCHEDULE J
<u>BILL IMPACT ANALYSES:</u>	
15. RESIDENTIAL FPO and NON-FPO	SCHEDULE K-1 and K-2
16. COMMERCIAL FPO and NON-FPO	SCHEDULE L-1 and L-2
17. HISTORICAL COG COMPARISON - FPO vs. NON-FPO BILL	SCHEDULE M
<u>INCREMENTAL COST CALCULATION</u>	
18. PROJECTED INCREMENTAL COST CALCULATION WINTER 2021/2022	SCHEDULE N
19. 50 PERCENT OF INCREMENTAL CNG COSTS WINTER 2019/2020 AND 2020/2021	SCHEDULE O
20. ACTUAL INCREMENTAL COSTS INCLUDED IN SCHEDULE O	SCHEDULE P
<u>APPENDICES:</u>	
21. MONT BELVIEU PROPANE FUTURES PRICES	APPENDIX 1
22. ENTERPRISE TE PRODUCTS PIPELINE FERC TARIFF - EFF. 7/1/21	APPENDIX 2
23. TRUCKING FUEL SURCHARGE NOTIFICATION	APPENDIX 3A
24. TRUCKING FUEL SURCHARGE RATE PER GALLON	APPENDIX 3B

Rates Effective November 1, 2022 - April 30, 2023 Winter Period Period Rates Effective May 1, 2023 - October 31, 2023 Summer Period

	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 97</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 93</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-1</u>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
All therms	\$ 0.5129	\$ 2.1216	\$ 0.1110	\$2.7069	\$ 0.5129	\$ 2.0114	\$ 0.1110	\$ 2.6561
<u>Residential Heating - R-3</u>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
All therms over the first block per month at	\$ 0.6519	\$ 2.1216	\$ 0.1110	\$2.8459	\$ 0.6519	\$ 2.0114	\$ 0.1110	\$ 2.7951
<u>Residential Heating - R-4</u>								
Customer Charge per Month per Meter	\$ 8.47			\$ 8.47	\$ 15.39			\$ 8.47
All therms over the first block per month at	\$ 0.3585	\$ 1.1669	\$ 0.1110	\$2.5525	\$ 0.6519	\$ 2.0114	\$ 0.1110	\$ 2.7951
<u>Commercial/Industrial - G-41</u>								
Customer Charge per Month per Meter	\$ 63.30			\$ 63.30	\$ 63.30			\$ 63.30
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.5088	\$ 2.1216	\$ 0.0888	\$2.6247	\$ 0.5088	\$ 2.0114	\$ 0.0888	\$ 2.5739
All therms over the first block per month at	\$ 0.3550	\$ 2.1216	\$ 0.0888	\$2.4825	\$ 0.3550	\$ 2.0114	\$ 0.0888	\$ 2.4317
<u>Commercial/Industrial - G-42</u>								
Customer Charge per Month per Meter	\$ 189.84			\$189.84	\$ 189.84			\$ 189.84
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4634	\$ 2.1216	\$ 0.0888	\$2.6247	\$ 0.4634	\$ 2.0114	\$ 0.0888	\$ 2.5739
All therms over the first block per month at	\$ 0.3212	\$ 2.1216	\$ 0.0888	\$2.4825	\$ 0.3212	\$ 2.0114	\$ 0.0888	\$ 2.4317
<u>Commercial/Industrial - G-43</u>								
Customer Charge per Month per Meter	\$ 811.98			\$811.98	\$ 811.98			\$ 811.98
All therms over the first block per month at	\$ 0.2863	\$ 2.1216	\$ 0.0888	\$2.4476	\$ 0.1441	\$ 2.0114	\$ 0.0888	\$ 2.2546
<u>Commercial/Industrial - G-51</u>								
Customer Charge per Month per Meter	\$ 63.38			\$ 63.38	\$ 63.38			\$ 63.38
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.3070	\$ 2.1216	\$ 0.0888	\$2.4683	\$ 0.3070	\$ 2.0114	\$ 0.0888	\$ 2.4175
All therms over the first block per month at	\$ 0.2084	\$ 2.1216	\$ 0.0888	\$2.3697	\$ 0.2084	\$ 2.0114	\$ 0.0888	\$ 2.3189
<u>Commercial/Industrial - G-52</u>								
Customer Charge per Month per Meter	\$ 189.57			\$189.57	\$ 189.57			\$ 189.57
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2647	\$ 2.1216	\$ 0.0888	\$2.4260	\$ 0.1978	\$ 2.0114	\$ 0.0888	\$ 2.3083
All therms over the first block per month at	\$ 0.1836	\$ 2.1216	\$ 0.0888	\$2.3449	\$ 0.1219	\$ 2.0114	\$ 0.0888	\$ 2.2324
<u>Commercial/Industrial - G-53</u>								
Customer Charge per Month per Meter	\$ 838.52			\$838.52	\$ 838.52			\$ 838.52
All therms over the first block per month at	\$ 0.1851	\$ 2.1216	\$ 0.0888	\$2.3464	\$ 0.0968	\$ 2.0114	\$ 0.0888	\$ 2.2073
<u>Commercial/Industrial - G-54</u>								
Customer Charge per Month per Meter	\$ 839.19			\$839.19	\$ 839.19			\$ 839.19
All therms over the first block per month at	\$ 0.0705	\$ 2.1216	\$ 0.0888	\$2.2318	\$ 0.0409	\$ 2.0114	\$ 0.0888	\$ 2.1514

DATED:

EFFECTIVE: November 1, 2022

ISSUED BY: /s/ Neil Proudman
Neil Proudman
TITLE: President

Rates Effective November 1, 2022 - April 30, 2023
Winter Period

Rates Effective May 1, 2023 - October 31, 2023
Summer Period

	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 97</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 93</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>
Residential Non Heating - R-1								\$ 15.20
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
All therms	\$ 0.5129	\$ 2.1216	\$ 0.1110	\$ 2.7069	\$ 0.5129	\$ 2.0114	\$ 0.1110	\$ 2.6561
		\$ 2.4835	\$ 0.1444	\$ 2.5166		\$ 0.7908	\$ 0.0310	\$ 1.2004
Residential Heating - R-3				\$ 15.39				\$ 15.20
Customer Charge per Month per Meter	\$ 15.39	\$ -	\$ -	\$ 15.39	\$ 15.39			\$ 15.39
All therms over the first block per month at	\$ 0.6519	\$ 2.1216	\$ 0.1110	\$ 2.8459	\$ 0.6519	\$ 2.0114	\$ 0.1110	\$ 2.7293
		\$ 2.4835	\$ 0.1444	\$ 2.6944		\$ 0.7908	\$ 0.0310	\$ 1.3787
Residential Heating - R-4				\$ 8.47				\$ 6.08
Customer Charge per Month per Meter	\$ 8.47	\$ -	\$ -	\$ 8.47	\$ 15.39			\$ 8.47
All therms over the first block per month at	\$ 0.3585	\$ 1.1669	\$ 0.1110	\$ 2.5525	\$ 0.6519	\$ 2.0114	\$ 0.1110	\$ 2.7951
		\$ 2.4835	\$ 0.1444	\$ 2.4410		\$ 0.7908	\$ 0.0310	\$ 1.0446
Commercial/Industrial - G-41				\$ 57.06				\$ 56.36
Customer Charge per Month per Meter	\$ 63.38			\$ 63.38	\$ 63.38			\$ 63.30
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3070	\$ 2.1216	\$ 0.0888	\$ 2.4683	\$ 0.3070	\$ 2.0114	\$ 0.0888	\$ 2.5739
		\$ 2.4835	\$ 0.0878	\$ 2.5434		\$ 0.7908	\$ 0.0478	\$ 1.3007
All therms over the first block per month at	\$ 0.2084	\$ 2.1216	\$ 0.0888	\$ 2.3697	\$ 0.2084	\$ 2.0114	\$ 0.0888	\$ 2.4317
		\$ 2.4835	\$ 0.0878	\$ 2.3895		\$ 0.7908	\$ 0.0478	\$ 1.1490
Commercial/Industrial - G-42				\$ 171.19				\$ 169.09
Customer Charge per Month per Meter	\$ 189.57			\$ 189.57	\$ 189.57			\$ 189.84
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4634	\$ 2.1216	\$ 0.0888	\$ 2.6247	\$ 0.4634	\$ 2.0114	\$ 0.0888	\$ 2.5739
		\$ 2.4835	\$ 0.0878	\$ 2.5007		\$ 0.7908	\$ 0.0478	\$ 1.2588
All therms over the first block per month at	\$ 0.3212	\$ 2.1216	\$ 0.0888	\$ 2.4825	\$ 0.3212	\$ 2.0114	\$ 0.0888	\$ 2.4317
		\$ 2.4835	\$ 0.0878	\$ 2.3585		\$ 0.7908	\$ 0.0478	\$ 1.1186
Commercial/Industrial - G-43								
Customer Charge per Month per Meter	\$ 811.98			\$ 811.98	\$ 811.98			\$ 811.98
All therms over the first block per month at	\$ 0.2863	\$ 2.1216	\$ 0.0888	\$ 2.4476	\$ 0.1441	\$ 2.0114	\$ 0.0888	\$ 2.2546
		\$ 2.4835	\$ 0.0878	\$ 2.3366		\$ 0.7908	\$ 0.0478	\$ 0.9567
Commercial/Industrial - G-51								
Customer Charge per Month per Meter	\$ 63.38			\$ 63.38	\$ 63.38			\$ 63.38
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.3070	\$ 2.1216	\$ 0.0888	\$ 2.4683	\$ 0.3070	\$ 2.0114	\$ 0.0888	\$ 2.4175
		\$ 2.4835	\$ 0.0878	\$ 2.3565		\$ 0.7908	\$ 0.0478	\$ 1.1171
All therms over the first block per month at	\$ 0.2084	\$ 2.1216	\$ 0.0888	\$ 2.3697	\$ 0.2084	\$ 2.0114	\$ 0.0888	\$ 2.3189
		\$ 2.4835	\$ 0.0878	\$ 2.2579		\$ 0.7908	\$ 0.0478	\$ 1.0197
Commercial/Industrial - G-52								
Customer Charge per Month per Meter	\$ 189.57			\$ 189.57	\$ 189.57			\$ 189.57
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2647	\$ 2.1216	\$ 0.0888	\$ 2.4260	\$ 0.1978	\$ 2.0114	\$ 0.0888	\$ 2.3083
		\$ 2.4835	\$ 0.0878	\$ 2.3174		\$ 0.7908	\$ 0.0478	\$ 1.0119
All therms over the first block per month at	\$ 0.1836	\$ 2.1216	\$ 0.0888	\$ 2.3449	\$ 0.1219	\$ 2.0114	\$ 0.0888	\$ 2.2324
		\$ 2.4835	\$ 0.0878	\$ 2.2363		\$ 0.7908	\$ 0.0478	\$ 0.9371
Commercial/Industrial - G-53								
Customer Charge per Month per Meter	\$ 838.52			\$ 838.52	\$ 838.52			\$ 838.52
All therms over the first block per month at	\$ 0.1851	\$ 2.1216	\$ 0.0888	\$ 2.3464	\$ 0.0968	\$ 2.0114	\$ 0.0888	\$ 2.2073
		\$ 2.4835	\$ 0.0878	\$ 2.2443		\$ 0.7908	\$ 0.0478	\$ 0.9188
Commercial/Industrial - G-54								
Customer Charge per Month per Meter	\$ 839.19			\$ 839.19	\$ 839.19			\$ 839.19
All therms over the first block per month at	\$ 0.0705	\$ 2.1216	\$ 0.0888	\$ 2.2318	\$ 0.0409	\$ 2.0114	\$ 0.0888	\$ 2.1514
		\$ 2.4835	\$ 0.0878	\$ 2.1394		\$ 0.7908	\$ 0.0478	\$ 0.8732

DATED:

EFFECTIVE: November 1, 2022

ISSUED BY: /s/ Neil Proudman

Neil Proudman

TITLE: President

31. CALCULATION OF FIRM SALES AND FIXED WINTER PERIOD COST OF GAS RATE KEENE CUSTOMERS

Calculation of the Cost of Gas Rate

Period Covered: Winter Period November 1, 2022 through April 30, 2023

Projected Gas Sales - herms	1,125,173
Total Calculated Cost of Gas Sendout	\$1,965,931
Indirect Costs from DG 20-105	\$208,129
Return on Inventory	\$15,323
Interest	\$2,463
Total Anticipated Cost of Gas Sendout	\$2,191,846

Add:	Winter 2021-2022 Deficiency Uncollected Interest	\$192,310
		\$3,065

Deduct:	Prior Period Excess Collected Interest	\$ -
		\$ -

	Prior Period Adjustments and Interest	\$195,375
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Total Anticipated Cost	\$2,387,221
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<u>Cost of Gas Rate</u>	Excluding Gas Assistance Program	Gas Assistance Program
Non-Fixed Price Option Cost of Gas Rate - Beginning Period (per therm)	\$ 2.1216	\$ 1.1669
Fixed Price Option Cost of Gas Rate (per therm) November 2022-April 2023	\$ 2.2394	\$ 1.2427
Pursuant to tariff section 17(d), the Company may adjust the approved cost of gas rate upward on a monthly basis to the following rate:		
Maximum Cost of Gas Rate - Non-Fixed Price Option (per therm)	\$ 2.6520	\$ 1.4586

DATED: XX XX, 2022

ISSUED BY: /s/ Neil Proudman

EFFECTIVE: November 1, 2022

TITLE: Neil Proudman
President

Authorized by NHPUC Order No. ____, dated ____ in Docket No. 22-057

31. CALCULATION OF FIRM SALES AND FIXED WINTER PERIOD COST OF GAS RATE KEENE CUSTOMERS

Calculation of the Cost of Gas Rate

Period Covered: ~~Winter Period November 1, 2021 through April 30, 2022~~
 Period Covered: Winter Period November 1, 2022 through April 30, 2023

Projected Gas Sales - therms	\$ 1,092,113	\$ 1,125,173
Total Calculated Cost of Gas Sendout	\$ 1,881,051	\$ 1,965,931
Indirect Costs from DG 20-105	\$ 208,129	\$ 208,129
Return on Inventory	\$ 10,377	\$ 15,323
Interest	\$ -	\$ 2,463
Total Anticipated Cost of Gas Sendout	\$ 2,099,557	\$ 2,191,846
Add: Prior Period Deficiency Uncollected Interest		\$ 192,310 \$ 3,065
Deduct: Prior Period Excess Collected Interest		\$ - \$ -
Prior Period Adjustments and Interest	\$ 70,236	\$ 195,375
Total Anticipated Cost	\$ 2,169,793	\$ 2,387,221

<u>Cost of Gas Rate</u>	<u>Excluding Gas Assistance Program</u>	<u>Gas Assistance Program</u>	<u>Excluding Gas Assistance Program</u>	<u>Gas Assistance Program</u>
Non-Fixed Price Option Cost of Gas Rate - Beginning Period (per therm)	\$ 1.9868	\$ 1.0927	\$ 2.1216	\$ 1.1669
Fixed Price Option Cost of Gas Rate (per therm) November 2022 - April 2023	\$ 1.8941	\$ 1.0418	\$ 2.2394	\$ 1.2427
Pursuant to tariff section 17(d), the Company may adjust the approved cost of gas rate upward on a monthly basis to the following rate:				
Maximum Cost of Gas Rate - Non-Fixed Price Option (per therm)	\$ 2.4835	\$ 1.3659	\$ 2.6520	\$ 1.4586

DATED: XX XX, 2022
 EFFECTIVE: November 1, 2022

ISSUED BY: /s/ Neil Proudman
 Neil Proudman
 TITLE: President

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

CONVERSION OF COSTS - GALLONS TO THERMS
WINTER PERIOD 2022 – 2023

	(1)	(2)	(3)	(4)	(5)	(6)
			<u>VOLUMES</u>		<u>UNIT COST</u>	
	<u>UNIT</u>	<u>CONVERSION FACTOR</u>	<u>GALLONS</u>	<u>THERMS</u>	<u>PER GALLON</u>	<u>PER THERM</u>
1 GAS FROM PROPANE	GALLONS	0.91502	[REDACTED]	[REDACTED]	\$1.4763	\$1.6134
2 GAS FROM CNG	THERMS	N/A	N/A	[REDACTED]	N/A	[REDACTED]
3 TOTAL				<u>1,195,022</u>		

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

CALCULATION OF COST OF GAS RATE
SUPPLY / DEMAND BALANCE
WINTER PERIOD 2022 – 2023

	PRIOR	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	TOTAL	REFERENCE
PROPANE COSTS									
1 PROPANE FIRM SENDOUT (therms)									Sch. I Col. 138 - Ln 2
2 COMPANY USE (therms)									Sch I Col. M
3 TOTAL PROPANE SENDOUT (therms)									Ln 1 + Ln 2
4 COST PER THERM (WACOG)	\$1.6137	\$1.6123	\$1.6104	\$1.6042	\$1.6455	\$1.5857			Sch F, Col. 2
5 TOTAL CALCULATED COST OF PROPANE	\$201,045	\$293,237	\$377,530	\$310,291	\$269,790	\$149,288	\$1,601,181		Ln 3 * Ln 4
6 INDIRECT COSTS FROM DG 20-105	\$34,688	\$34,688	\$34,688	\$34,688	\$34,688	\$34,688	\$208,129		DG 20-105, Section 11.2 (\$206,248 + 1,881)
7 PROPANE ADJUSTMENTS	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
8 TOTAL COST OF PROPANE	\$235,733	\$327,925	\$412,218	\$344,979	\$304,478	\$183,976	\$1,809,310		Ln 5 + Ln 6 + Ln 7
CNG COSTS									
9 CNG SENDOUT (therms)									Sch C, Ln 20
10 COST PER THERM (WACOG)									Sch C, Ln 21
11 TOTAL CALCULATED COST OF CNG									Ln 9 * Ln 10
12 CNG DEMAND CHARGES									Sch C, Ln 26
13 INCREMENTAL COSTS WINTER 2021-2022									Sch. O Ln
14 PROJECTED INCREMENTAL COSTS Winter 2022-2023									Sch. N Ln 7, Ln. 25
15 NET INCREMENTAL COSTS									Ln 13 + Ln 14
16 TOTAL CNG COSTS									Ln 11 + Ln 12 + Ln 13 + Ln 14
17 ACCOUNTING ADJUSTMENT	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
18 FPO PREMIUM	\$344	\$516	\$661	\$546	\$459	\$264	\$2,790		Ln 30 * .02
19 TOTAL COSTS OF GAS									Ln 8 + Ln 16 + Ln 17 + Ln 18
20 RETURN ON INVENTORY	\$2,554	\$2,554	\$2,554	\$2,554	\$2,554	\$2,554	\$15,323		Company calculation
REVENUES									
21 BILLED FPO SALES (therms)	0	0	0	0	0	0	0		
22 COG FPO RATE	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
23 BILLED FPO REVENUE - CURRENT MONTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
24 BILLED NON-FPO SALES PRIOR MONTH (therms)	0	0	0	0	0	0	0		
25 COG NON-FPO RATE PRIOR MONTH	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
26 BILLED FPO REVENUE - PRIOR MONTH	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
27 BILLED NON-FPO SALES CURRENT MONTH (therms)	138,513	208,215	266,567	220,235	185,001	106,642	1,125,173		Sch. J
28 COG NON-FPO RATE CURRENT MONTH	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216		(Ln 39 + Ln 19 + Ln 20 + Ln 37) / Ln 33
29 BILLED NON-FPO REVENUE - CURRENT MONTH	\$293,876	\$441,759	\$565,561	\$467,261	\$392,507	\$226,257	\$2,387,221		Ln 27 * Ln 28
30 BILLED SALES OTHER PRIOR PERIODS	0	0	0	0	0	0	0		
31 COG OTHER PRIOR PERIODS BLENDED RATE	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
32 BILLED OTHER BLENDED REVENUE - PRIOR PERIODS	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
33 TOTAL SALES	138,513	208,215	266,567	220,235	185,001	106,642	1,125,173		Sch. J
34 TOTAL BILLED REVENUES	\$293,876	\$441,759	\$565,561	\$467,261	\$392,507	\$226,257	\$2,387,221		Ln 23 + Ln 26 + Ln 29 + Ln 32
35 UNBILLED REVENUES (NET)	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
36 TOTAL REVENUES	\$293,876	\$441,759	\$565,561	\$467,261	\$392,507	\$226,257	\$2,387,221		Ln 34 + Ln 35
37 (OVER)/UNDER COLLECTION	(\$6,439)	(\$45,778)	(\$68,267)	(\$48,789)	(\$27,577)	(\$989)	(\$2,463)		Ln 19 + Ln 20 - Ln 36
38 INTEREST AMOUNT	\$881	\$765	\$507	\$241	\$67	\$2	\$2,463		Sch. H
39 FINAL (OVER)/UNDER COLLECTION	\$195,375	\$189,817	\$144,804	\$77,044	\$28,497	\$987	(\$0)		Prior Mo Ln 39 + Ln 37 + Ln 38

L BERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

CALCULATION OF PURCHASED GAS COSTS
WINTER PERIOD 2022 – 2023

LINE NO.		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	TOTAL
1	TOTAL REQUIRED PURCHASES							
2	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES							
3	THERMS	84,182	128,103	150,978	123,528	96,077	57,646	640,514
4	<u>RATES</u> - from Schedule D							
5	Contract Price	\$1.6501	\$1.6501	\$1.6501	\$1.6501	\$1.6501	\$1.6501	
6	Broker Fee	incl.	incl.	incl.	incl.	incl.	incl.	
7	Pipeline Fee	incl.	incl.	incl.	incl.	incl.	incl.	
8	PERC Fee	incl.	incl.	incl.	incl.	incl.	incl.	
9	Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
10	COST PER THERM	\$1.6501	\$1.6501	\$1.6501	\$1.6501	\$1.6501	\$1.6501	\$1.6501
11	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$138,911	\$211,386	\$249,134	\$203,837	\$158,540	\$95,124	\$1,056,932
12	AMHERST STORAGE PROPANE DELIVERIES							
13	Therms	-	24,948	47,520	33,264	9,504	3,564	118,800
14	<u>RATES</u> - from Schedule F							
15	WACOG Price	\$0.0000	\$1.6000	\$1.6000	\$1.6000	\$1.6000	\$1.6000	
16	Trucking Fee	\$0.0000	\$0.0650	\$0.0650	\$0.0650	\$0.0650	\$0.0650	
17	COST PER THERM	\$0.0000	\$1.6650	\$1.6650	\$1.6650	\$1.6650	\$1.6650	\$1.6650
18	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$41,538	\$79,121	\$55,385	\$15,824	\$5,934	\$197,802
19	CNG DELIVERIES							
20	THERMS							
21	RATE							
22								
23	COST PER THERM							
24								
25	COST - CNG							
26								
27	TOTAL CNG							
28	SPOT PURCHASES							
29	THERMS							
30	From Schedule E							
31	COST PER THERM	\$1.4362	\$1.4362	\$1.4362	\$1.4348	\$1.4136	\$1.3918	\$1.4240
32	TOTAL COST - Spot Purchases							
33	OTHER ITEMS							
34	Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Refund of Deferred Revenue Surcharge over collection	\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	TOTAL OTHER ITEMS	\$0	\$0	\$0	\$0	\$0	\$0	\$0
37	TOTAL							
38	THERMS FROM PROPANE							
39	COST							
40	THERMS FROM CNG							
41	COST							
42	COST PER THERM	\$1.6317	\$1.6428	\$1.6322	\$1.6310	\$1.5940	\$1.6092	\$1.6254

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

PROPANE PURCHASING STABILIZATION PLAN
WINTER PERIOD 2022 – 2023

LINE
NO.

1	2 Delivery Month	Hedging Schedule & Volume (Gallons)						Total
		Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	
3	Nov-22	18,400	13,800	13,800	18,400	13,800	13,800	92,000
4	Dec-22	28,000	21,000	21,000	28,000	21,000	21,000	140,000
5	Jan-23	33,000	24,750	24,750	33,000	24,750	24,750	165,000
6	Feb-23	27,000	20,250	20,250	27,000	20,250	20,250	135,000
7	Mar-23	21,000	15,750	15,750	21,000	15,750	15,750	105,000
8	Apr-23	12,600	9,450	9,450	12,600	9,450	9,450	63,000
9	Total Volume	140,000	105,000	105,000	140,000	105,000	105,000	700,000
10	Monthly %	20.0%	15.0%	15.0%	20.0%	15.0%	15.0%	

11	Delivery Price per Gallon	\$1.5433	\$1.5417	\$1.5352	\$1.5163	\$1.4569	\$1.3985	
12	Total Cost	\$141,985	\$215,833	\$253,307	\$204,699	\$152,973	\$88,105	\$1,056,902
13	Weighted Average Winter Contract Price per gallon							\$1.5099
14	Weighted Average Winter Contract Price per therm							\$1.6501

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

PROPANE SPOT MARKET PURCHASE COST ANALYSIS
WINTER PERIOD 2022 – 2023

		(1) Mt. Belvieu		(2) Broker Fee		(3) Pipeline Rate		(4) PERC Fee		(5) Supplier Charge		(6) Cost @ Selkirk		(7) Trucking to Keene		(8) \$ per Gal.		(9) \$ per Therm
1	NOV	0.8788	+	0.0100	+	0.2579	+	0.0050	+	0.0500	=	1.2016	+	0.1125	=	1.3141	=	1.4362
2	DEC	0.8788	+	0.0100	+	0.2579	+	0.0050	+	0.0500	=	1.2016	+	0.1125	=	1.3141	=	1.4362
3	JAN	0.8788	+	0.0100	+	0.2579	+	0.0050	+	0.0500	=	1.2016	+	0.1125	=	1.3141	=	1.4362
4	FEB	0.8775	+	0.0100	+	0.2579	+	0.0050	+	0.0500	=	1.2004	+	0.1125	=	1.3129	=	1.4348
5	MAR	0.8581	+	0.0100	+	0.2579	+	0.0050	+	0.0500	=	1.1810	+	0.1125	=	1.2935	=	1.4136
6	APR	0.8381	+	0.0100	+	0.2579	+	0.0050	+	0.0500	=	1.1610	+	0.1125	=	1.2735	=	1.3918

1. Propane futures market quotations (cmegroup.com) on 10/4/22 close. See Appendix 1.
2. A generally accepted standard broker fee
3. Pipeline rate from Mt. Belvieu to Selkirk
4. Propane Education Research Council (propanecouncil.org)
5. A generally accepted standard supplier charge
6. Selkirk Cost - all fees plus propane cost
7. Northern Gas Transport trucking rate including diesel fuel surcharge. See Appendix 3A & 3B.
8. Delivered Price per Gallon
9. Delivered Price per therm as converted using per gallon price / .91502

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

INVENTORY & WEIGHTED AVERAGE COST OF GAS CALCULATION
WINTER PERIOD 2022 – 2023

LINE NO.		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
		<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Rate</u> <u>Gal.</u>	<u>CNG therms</u>	<u>Cost</u>	<u>Total Sendout</u>	<u>Total Cost</u>		<u>Therm Rate</u>
1	August 2022 (Actual)										
2	Beginning Balance	47,654	\$78,129	\$1.6395	\$1.5002						
3	Purchases Received	149,650	\$237,450	\$1.5867	\$1.4519						
4	Total Available	197,304	\$315,578	\$1.5995	\$1.4635						
5	Less Sendout	34,858	\$55,754	\$1.5995	\$1.4635						
6	Ending Balance	162,446	\$259,824	\$1.5995	\$1.4635						
7	September 2022 (Estimated)										
8	Beginning Balance	162,446	\$259,824	\$1.5995	\$1.4635						
9	Purchases Received	40,000	\$68,109	\$1.7027	\$1.5580						
10	Total Available	202,446	\$327,933	\$1.6199	\$1.4822						
11	Less Sendout	39,316	\$63,686	\$1.6198	\$1.4822						
12	Ending Balance	163,130	\$264,247	\$1.6199	\$1.4822						
13	October 2022 (Estimated)										
14	Beginning Balance	163,130	\$264,247	\$1.6199	\$1.4822						
15	Purchases Received	55,000	\$93,349	\$1.6973	\$1.5530						
16	Total Available	218,130	\$357,596	\$1.6394	\$1.5001						
17	Less Sendout	58,108	\$95,261	\$1.6394	\$1.5001						
18	Ending Balance	160,022	\$262,335	\$1.6394	\$1.5001						
19	November 2022 (Forecasted)										
20	Beginning Balance	160,022	\$262,335	\$1.6394	\$1.5001						
21	Purchases Received	124,586	\$196,937	\$1.5807	\$1.4464						
22	Total Available	284,608	\$459,273	\$1.6137	\$1.4766						
23	Less Sendout	124,586	\$201,045	\$1.6137	\$1.4766						
24	Ending Balance	160,022	\$258,228	\$1.6137	\$1.4766						\$1.659
25	December 2022 (Forecasted)										
26	Beginning Balance	160,022	\$258,228	\$1.6137	\$1.4766						
27	Purchases Received	156,930	\$252,786	\$1.6108	\$1.4739						
28	Total Available	316,952	\$511,014	\$1.6123	\$1.4753						
29	Less Sendout	181,878	\$293,237	\$1.6123	\$1.4753						
30	Ending Balance	135,074	\$217,777	\$1.6123	\$1.4753						\$1.638
31	January 2023 (Forecasted)										
32	Beginning Balance	135,074	\$217,777	\$1.6123	\$1.4753						
33	Purchases Received	186,917	\$300,747	\$1.6090	\$1.4723						
34	Total Available	321,991	\$518,524	\$1.6104	\$1.4735						
35	Less Sendout	234,437	\$377,530	\$1.6104	\$1.4735						
36	Ending Balance	87,554	\$140,994	\$1.6104	\$1.4735						\$1.624
37	February 2023 (Forecasted)										
38	Beginning Balance	87,554	\$140,994	\$1.6104	\$1.4735						
39	Purchases Received	160,156	\$256,391	\$1.6009	\$1.4648						
40	Total Available	247,710	\$397,385	\$1.6042	\$1.4679						
41	Less Sendout	193,420	\$310,291	\$1.6042	\$1.4679						
42	Ending Balance	54,290	\$87,094	\$1.6042	\$1.4679						\$1.625
43	March 2023 (Forecasted)										
44	Beginning Balance	54,290	\$87,094	\$1.6042	\$1.4679						
45	Purchases Received	154,453	\$256,391	\$1.6600	\$1.5189						
46	Total Available	208,743	\$343,485	\$1.6455	\$1.5057						
47	Less Sendout	163,957	\$269,790	\$1.6455	\$1.5057						
48	Ending Balance	44,786	\$73,695	\$1.6455	\$1.5057						\$1.660
49	April 2023 (Forecasted)										
50	Beginning Balance	44,786	\$73,695	\$1.6455	\$1.5057						
51	Purchases Received	90,580	\$140,960	\$1.5562	\$1.4239						
52	Total Available	135,366	\$214,655	\$1.5857	\$1.4510						
53	Less Sendout	94,144	\$149,288	\$1.5857	\$1.4510						
54	Ending Balance	41,222	\$65,367	\$1.5857	\$1.4510						\$1.630
55	AVERAGE WINTER RATE - SENDOUT										
56							FPO Premium (Sch. B, Line 15)		\$2,790		
57											

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

RECONCILIATION OF COST OF GAS
SUPPLY / DEMAND BALANCE
WINTER PERIOD 2021 - 2022

LINE NO.	PRIOR	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	TOTAL
		Actual	Actual	Actual	Actual	Actual	Actual	
PROPANE COSTS								
1	PROPANE FIRM SENDOUT (therms)							
2	COMPANY USE (therms)							
3	TOTAL PROPANE SENDOUT (therms)							
4	COST PER THERM (WACOG)	\$1,5560	\$1,5088	\$1,5183	\$1,5806	\$1,6173	\$1,4992	
5	TOTAL CALCULATED COST OF PROPANE	\$172,752	\$210,440	\$320,267	\$248,069	\$212,884	\$120,072	\$1,284,483
6	PROPANE ADJUSTMENTS	\$30,635	\$50,196	\$69,787	\$56,018	\$46,000	\$25,474	\$278,111
7	INDIRECT COSTS FROM DG 20-105	\$34,688	\$34,688	\$34,688	\$34,688	\$34,688	\$34,688	\$208,129
8	TOTAL COST OF PROPANE	\$238,075	\$295,324	\$424,742	\$338,775	\$293,572	\$180,234	\$1,770,723
CNG COSTS								
9	CNG SENDOUT (therms)							
10	COMPANY USE (therms)							
11	TOTAL CNG SENDOUT (therms)							
12	COST PER THERM (WACOG)							
13	TOTAL CALCULATED COST OF CNG							
14	CNG ADJUSTMENT	\$2,199	(\$2,835)	\$467	(\$970)	(\$38,006)	\$25	(\$39,120)
15	CNG DEMAND CHARGES							
16	TOTAL COST OF CNG INCLUDING DEMAND CHARGES	\$43,378	\$47,860	\$64,189	\$60,373	\$6,875	\$29,541	\$252,216
17	COST PER THERM INCLUDING DEMAND CHARGES	\$1.6338	\$1.3489	\$1.2229	\$1.4764	\$0.2071	\$1.3935	\$1.2021
18	INCREMENTAL COSTS WINTER 2019-2020 PER Order # 26,505 in DG 20-105							
19	INCREMENTAL COSTS WINTER 2020-2021 PER Order # 26,505 in DG 20-105							
20	ACTUAL INCREMENTAL CNG COST SAVINGS Winter 2021-2022							
21	NET INCREMENTAL COSTS							
22	GAS ASSISTANCE PLAN (GAP)	(1,667.82)	(4,694.35)	(5,920.72)	(6,381.51)	(7,765.36)	(4,724.75)	(\$31,155)
23	TOTAL COSTS OF GAS							
24	RETURN ON INVENTORY	\$1,603	\$1,603	\$1,603	\$1,603	\$1,603	\$1,603	\$ 9,616
REVENUES								
25	BILLED FPO SALES (therms) - CURRENT MONTH	9,650	21,640	26,786	26,243	23,678	14,940	122,937
26	COG FPO RATE	\$2,0068	\$2,0068	\$2,0068	\$2,0068	\$2,0068	\$2,0068	
27	BILLED FPO REVENUE - CURRENT MONTH	\$19,366	\$43,427	\$53,754	\$52,664	\$47,517	\$29,982	\$246,710
28	BILLED FPO GAP SALES (therms) - CURRENT MONTH	127	345	927	1,436	730	491	4,056
29	COG FPO GAP RATE R-4	\$1,1037	\$1,1037	\$1,1037	\$1,1037	\$1,1037	\$1,1037	
30	BILLED FPO GAP RATE R-4 REVENUE - CURRENT MONTH	\$140.17	\$380.78	\$1,023.13	\$1,584.91	\$805.70	\$541.92	\$4,476.61
31	BILLED NON-FPO NON-GAP SALES (therms) - CURRENT MONTH	64,267	109,322	155,698	126,532	116,905	118,291	691,015
32	COG NON-FPO NON GAP RATE CURRENT MONTH	\$1,9868	\$1,8972	\$1,5090	\$1,6493	\$2,4835	\$2,4835	
33	BILLED NON-FPO NON-GAP REVENUE - CURRENT MONTH	\$127,686	\$207,406	\$234,948	\$208,689	\$290,334	\$293,776	\$1,362,838
34	BILLED NON-FPO NON GAP SALES (therms) - PRIOR MONTH	0	58,212	61,777	86,685	63,054	0	269,728
35	COG NON-FPO NON GAP RATE PRIOR MONTH	\$0.0000	\$1,9868	\$1,8972	\$1,5090	\$1,6493	\$2,4835	
36	BILLED NON-FPO NON-GAP REVENUE - PRIOR MONTH	\$0	\$115,656	\$117,203	\$130,808	\$103,995	\$0	\$467,662
37	BILLED NON-FPO GAP SALES (therms) - CURRENT MONTH	1,737	3,251	4,922	4,088	4,032	3,831	21,861
38	COG NON-FPO GAP RATE R-4 - CURRENT MONTH	\$1,0927	\$1,0434	\$0,8299	\$0,9071	\$1,3659	\$1,3659	
39	BILLED NON-FPO GAP RATE R-4 REVENUE - CURRENT MONTH	\$1,898	\$3,392	\$4,085	\$3,708	\$5,507	\$5,233	\$23,823
40	BILLED NON-FPO GAP SALES (therms) - PRIOR MONTH	0	1,798	1,996	2,912	2,460	0	9,166
41	COG NON-FPO GAP RATE R-4 - PRIOR MONTH	\$0.0000	\$1,0927	\$1,0434	\$0,8299	\$0,9071	\$1,3659	
42	BILLED NON-FPO GAP RATE R-4 REVENUE - PRIOR MONTH	\$0	\$1,965	\$2,083	\$2,417	\$2,232	\$0	\$8,695
43	BILLED SALES OTHER - PRIOR PERIODS	1	0	0	0	0	0	
44	COG OTHER PRIOR PERIODS BLENDED RATE	\$0.4100	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
45	BILLED OTHER BLENDED REVENUE - PRIOR PERIODS	\$0	\$0	\$0	\$0	\$0	\$0	\$0
46	TOTAL SALES	75,782	194,568	252,106	247,896	210,859	137,553	1,118,764
47	TOTAL BILLED REVENUES	\$149,090	\$372,226	\$413,096	\$399,871	\$450,390	\$329,532	\$2,114,206
48	UNBILLED REVENUES (NET)	157,177.29	(11,484.82)	52,205.97	(88,748.47)	(6,578.42)	(61,089.93)	\$41,482
49	TOTAL REVENUES	\$306,267	\$360,741	\$465,302	\$311,123	\$443,812	\$268,442	\$2,155,687
50	(OVER)/UNDER COLLECTION	(\$62,589)	(\$14,067)	\$25,892	\$89,829	(\$142,946)	(\$55,208)	\$64,666
51	INTEREST AMOUNT (Attachments CAM-1-6)	\$505	\$400	\$399	\$486	\$445	\$157	\$2,391
52	FINAL (OVER)/UNDER COLLECTION	\$ 223,755	\$ 161,671	\$ 148,004	\$ 174,294	\$ 264,609	\$ 67,057	\$ 67,057

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION

INTEREST CALCULATION
 WINTER PERIOD 2022 – 2023

LINE NO.	MONTH	(1) BEG. OF MONTH BALANCE	(2) (OVER) UNDER COLLECT	(3) ADJUSTMENTS	(4) REFUNDS	(5) END OF MONTH BALANCE (COL.1+2+3)	(6) AVERAGE BALANCE COL. (COL. [1+4]/2)	(7) ANNUAL INTEREST RATE	(8) INTEREST AMOUNT	(9) MONTH END BAL. WITH INTEREST (COL. 4+7)
1	MAY 2022	\$ 223,755	-	(72,222)	\$0	\$151,533	\$187,644	3.50%	192	\$151,725
2	JUN	151,725	0	34,131	0	\$185,856	168,791	4.00%	136	185,992
3	JUL	185,992	0	6,646	0	\$192,639	189,315	4.75%	75	192,714
4	AUG	192,714	0	0	0	\$192,714	192,714	5.50%	883	193,597
5	SEP	193,597	0	0	0	\$193,597	193,597	5.50%	887	194,484
6	OCT	194,484	0	0	0	\$194,484	194,484	5.50%	891	195,375
7	NOV	195,375	(6,439)	0	0	\$188,936	192,155	5.50%	881	189,817
8	DEC	189,817	(45,778)	0	0	\$144,039	166,928	5.50%	765	144,804
9	JAN 2023	144,804	(68,267)	0	0	\$76,537	110,671	5.50%	507	77,044
10	FEB	77,044	(48,789)	0	0	\$28,256	52,650	5.50%	241	28,497
11	MAR	28,497	(27,577)	0	0	\$920	14,708	5.50%	67	987
12	APR	987	(989)	0	0	(\$2)	492	5.50%	2	(0)
13										
14									<u>\$5,528</u>	

	BEGINNING BALANCE MAY 2022	ADJUSTMENTS MAY-OCT 2022	INTEREST MAY-OCT 2022	ENDING BALANCE w/ INTEREST OCTOBER 2022
15	= COL. 1, LINE 1	+ COL. 3 LINES 1 TO 6	+ COL. 8, LINES 1 TO 6	COL 9, LINE 6
16	= 223,755	+ (31,445)	+ 3,065	= <u>195,375</u> (TRANSFER TO SCHEDULE B, LINE 35)

L BERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A L BERTY - KEENE DIVISION
 Weather Normalization - Firm Sendout (Therms)

Period	Actual Firm Sendout	Base Use	Heat Use	Actual Calendar Month Degree Days	Normal Calendar Month Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normalized Firm Sendout	Actual Company Use	Unaccounted For 2.11%	Total Firm Sendout
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
			(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)		(10 - 11) * 2.11%	(10) - (11) + (12)
1 Nov-22	157,405	43,883	113,522	917	833	84	123.80	(10,399)	103,123	147,006	6,863	2,955	143,098
2 Dec-22	207,846	43,883	163,963	1,079	1,117	(38)	151.96	5,774	169,737	213,620	2,214	4,457	215,864
3 Jan-23	309,651	43,883	265,768	1,461	1,279	182	181.91	(33,107)	232,661	276,544	6,527	5,693	275,710
4 Feb-23	233,055	43,883	189,172	1,108	1,084	24	170.73	(4,098)	185,074	228,957	5,451	4,712	228,219
5 Mar-23	192,421	43,883	148,538	981	982	(1)	151.41	151	148,689	192,572	4,751	3,960	191,781
6 Apr-23	118,246	43,883	74,363	659	606	53	112.84	(5,981)	68,382	112,265	4,207	2,278	110,337
7													
8 Total	1,218,624	263,298	955,326	6,205	5,901	304		(47,659)	907,667	1,170,965	30,013	24,055	1,165,009

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION											
Weather Normalization - Sales (Therms) - Rate Residential											
Period	Customers	Sales	Base Load	Heating Load	Monthly Actual Degree Days	Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Billing Cycle Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
Nov-22	901	35,572	6,520	29,052	917	833	84	31.68	(2,661)	26,391	32,910
Dec-22	931	48,436	6,520	41,916	1,079	1,117	(38)	38.85	1,476	43,392	49,912
Jan-23	931	72,942	6,520	66,422	1,461	1,279	182	45.46	(8,274)	58,148	64,667
Feb-23	841	56,016	6,520	49,496	1,108	1,084	24	44.67	(1,072)	48,424	54,943
Mar-23	929	45,136	6,520	38,617	981	982	(1)	39.36	39	38,656	45,176
Apr-23	893	25,230	6,520	18,710	659	606	53	28.39	(1,505)	17,205	23,725
Total		283,331	39,118	244,212	6,205	5,901	304	39.46	(11,997)	232,215	271,333

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION											
Weather Normalization - Sales (Therms) - Rate Commercial											
Period	Customers	Sales	Base Load	Heating Load	Monthly Actual Degree Days	Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Billing Cycle Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (3)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
Nov-22	326	112,712	35,103	77,609	917	833	84	84.63	(7,109)	70,500	105,603
Dec-22	333	154,112	35,103	119,009	1,079	1,117	(38)	110.30	4,191	123,200	158,303
Jan-23	330	225,635	35,103	190,532	1,461	1,279	182	130.41	(23,735)	166,797	201,900
Feb-23	299	168,174	35,103	133,072	1,108	1,084	24	120.10	(2,882)	130,189	165,292
Mar-23	329	139,719	35,103	104,616	981	982	(1)	106.64	107	104,722	139,825
Apr-23	313	87,099	35,103	51,996	659	606	53	78.90	(4,182)	47,814	82,917
Total		887,451	210,618	676,834	6,205	5,901	304	110.56	(33,611)	643,223	853,840

Summary - Total Winter Season Sales

	Actual 2021-2022	Normalized
November	148,284	138,513
December	202,548	208,215
January	298,577	266,567
February	224,190	220,235
March	184,855	185,001
April	112,328	106,642
Total	1,170,782	1,125,173

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
Typical Residential Heating Bill - Fixed Price Option Program
Forecasted 2022-2023 Winter Period vs. Actual 2021-2022 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)		
	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Winter Nov-Apr		
1	Typical Usage - therms (1)							447	
2	39	69	81	103	89	66			
3	Residential Heating R-3								
4	Customer Charge	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34	
5	Delivery Charge: All therms @	\$0.3834	\$14.95	\$26.45	\$31.06	\$39.49	\$34.12	\$25.30	\$171.38
6	Base Delivery Revenue Total	\$30.34	\$41.84	\$46.45	\$54.88	\$49.51	\$40.69	\$263.72	
7	COG Rates	\$1.8941	\$1.8941	\$1.8941	\$1.8941	\$1.8941	\$1.8941	\$1.8941	
8	Cost of Gas Total	\$73.87	\$130.69	\$153.42	\$195.09	\$168.57	\$125.01	\$846.65	
9	LDAC Rates	\$0.1397	\$0.1012	\$0.1154	\$0.1154	\$0.1318	\$0.1318	\$0.1210	
10	LDAC Total	\$5.45	\$6.98	\$9.35	\$11.89	\$11.73	\$8.70	\$54.10	
11	Total Bill	\$110	\$180	\$209	\$262	\$230	\$174	\$1,164	
12									
13		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter Nov-Apr	
14	Typical Usage - therms (1)							447	
15	39	69	81	103	89	66			
16	Residential Heating R-3								
17	Customer Charge	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34	
18	Delivery Charge: All therms @	\$0.6519	\$25.42	\$44.98	\$52.80	\$67.15	\$58.02	\$43.03	\$291.40
19	Base Delivery Revenue Total	\$40.81	\$60.37	\$68.19	\$82.54	\$73.41	\$58.42	\$383.74	
20	Seasonal Base Delivery Difference from previous year							\$120.02	
21	Seasonal Percent Change from previous year							45.5%	
22	COG Rates	\$2.2394	\$2.2394	\$2.2394	\$2.2394	\$2.2394	\$2.2394	\$2.2394	
23	Cost of Gas Total	\$87.34	\$154.52	\$181.39	\$230.66	\$199.31	\$147.80	\$1,001.02	
24	Seasonal COG Difference from previous year							\$154.37	
25	Seasonal Percent Change from previous year							18.2%	
26	LDAC Rates	\$0.1110	\$0.1110	\$0.1110	\$0.1110	\$0.1110	\$0.1110	\$0.1110	
27	LDAC Total	\$4.33	\$7.66	\$8.99	\$11.43	\$9.88	\$7.33	\$49.62	
28	Seasonal LDAC Difference from previous year							-\$4.48	
29	Seasonal Percent Change from previous year							-8.3%	
30	Total Bill	\$132	\$223	\$259	\$325	\$283	\$214	\$1,434.38	
31	Seasonal Total Bill Difference from previous year							\$269.91	
32	Seasonal Percent Change from previous year							23.2%	
33	Seasonal Percent Change resulting from COG							13.3%	
34	Seasonal Percent Change resulting from LDAC							-0.4%	

35 (1) Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
Typical Residential Heating Bill - Non-Fixed Price Option Program
Forecasted 2022-2023 Winter Period vs. Actual 2021-2022 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1								
2		Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Winter Nov-Apr
3	Typical Usage - therms (1)	39	69	81	103	89	66	447
4	Residential Heating R-3							
5	Customer Charge \$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34
6	Delivery Charge: All therms @ \$0.3834	\$14.95	\$26.45	\$31.06	\$39.49	\$34.12	\$25.30	\$171.38
7	Base Delivery Revenue Total	\$30.34	\$41.84	\$46.45	\$54.88	\$49.51	\$40.69	\$263.72
8	COG Rates	\$1.8968	\$1.8972	\$1.5090	\$1.6493	\$2.4835	\$2.4835	\$1.9730
9	Cost of Gas Total	\$73.98	\$130.91	\$122.23	\$169.88	\$221.03	\$163.91	\$881.94
10	LDAC Rates	\$0.1397	\$0.1012	\$0.1154	\$0.1154	\$0.1318	\$0.1318	\$0.1210
11	LDAC Total	\$5.45	\$6.98	\$9.35	\$11.89	\$11.73	\$8.70	\$54.10
12	Total Bill	\$110	\$180	\$178	\$237	\$282	\$213	\$1,200
13								
14		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter Nov-Apr
15	Typical Usage - therms (1)	39	69	81	103	89	66	447
16	Residential Heating R-3							
17	Customer Charge \$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34
18	Delivery Charge: All therms @ \$0.6519	\$25.42	\$44.98	\$52.80	\$67.15	\$58.02	\$43.03	\$291.40
19	Base Delivery Revenue Total	\$40.81	\$60.37	\$68.19	\$82.54	\$73.41	\$58.42	\$383.74
20	Seasonal Base Delivery Difference from previous year							\$120.02
21	Seasonal Percent Change from previous year							45.5%
22	COG Rates	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216
23	Cost of Gas Total	\$82.74	\$146.39	\$171.85	\$218.52	\$188.82	\$140.03	\$948.35
24	Seasonal COG Difference from previous year							\$66.41
25	Seasonal Percent Change from previous year							7.5%
26	LDAC Rates	\$0.1110	\$0.1110	\$0.1110	\$0.1110	\$0.1110	\$0.1110	\$0.1110
27	LDAC Total	\$4.33	\$7.66	\$8.99	\$11.43	\$9.88	\$7.33	\$49.62
28	Seasonal LDAC Difference from previous year							-\$4.48
29	Seasonal Percent Change from previous year							71.9%
30	Total Bill	\$128	\$214	\$249	\$312	\$272	\$206	\$1,381.71
31	Seasonal Total Bill Difference from previous year							\$181.95
32	Seasonal Percent Change from previous year							15.2%
33	Seasonal Percent Change resulting from COG							5.5%
34	Seasonal Percent Change resulting from LDAC							-0.4%

35 (1) Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
Typical Commercial Bill - Fixed Price Option Program
Forecasted 2022-2023 Winter Period vs. Actual 2021-2022 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1							Winter	
2		Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Nov-Apr
3	Typical Usage - therms	133	249	307	403	367	262	1,721
4	Commercial G-41							
5	Customer Charge	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36
6	Delivery Charge: First 100 therms @	\$0.4688	\$0.4688	\$0.4688	\$0.4688	\$0.4688	\$0.4688	\$281.28
7	Over 100 therms @	\$0.3149	\$0.3149	\$0.3149	\$0.3149	\$0.3149	\$0.3149	\$352.99
8	Base Delivery Revenue Total	\$114.33	\$150.86	\$169.12	\$199.35	\$188.02	\$154.95	\$976.63
9	COG Rates	\$1.8941	\$1.8941	\$1.8941	\$1.8941	\$1.8941	\$1.8941	\$1.8941
10	Cost of Gas Total	\$251.92	\$471.63	\$581.49	\$763.32	\$695.13	\$496.25	\$3,259.74
11	LDAC Rates	\$0.0831	\$0.0749	\$0.0891	\$0.0891	\$0.0991	\$0.0991	\$0.0902
12	LDAC Total	\$11.05	\$18.65	\$27.35	\$35.91	\$36.37	\$25.96	\$155.30
13	Total Bill	\$377	\$641	\$778	\$999	\$920	\$677	\$4,392
14								Winter
15		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Nov-Apr
16	Typical Usage - therms	133	249	307	403	367	262	1,721
17	Commercial G-41							
18	Customer Charge	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$379.80
19	Delivery Charge: First 100 therms @	\$0.5088	\$0.5088	\$0.5088	\$0.5088	\$0.5088	\$0.5088	\$305.28
20	Over 100 therms @	\$0.3550	\$0.3550	\$0.3550	\$0.3550	\$0.3550	\$0.3550	\$352.99
21	Base Delivery Revenue Total	\$124.57	\$161.10	\$179.36	\$209.59	\$198.26	\$165.19	\$1,038.07
22	Seasonal Base Delivery Difference from previous year							\$61.44
23	Seasonal Percent Change from previous year							6.3%
24	COG Rates	\$2.2394	\$2.2394	\$2.2394	\$2.2394	\$2.2394	\$2.2394	\$2.2394
25	Cost of Gas Total	\$297.84	\$557.61	\$687.50	\$902.48	\$821.86	\$586.72	\$3,854.01
26	Seasonal COG Difference from previous year							\$594.27
27	Seasonal Percent Change from previous year							18.2%
28	LDAC Rates	\$0.0888	\$0.0888	\$0.0888	\$0.0888	\$0.0888	\$0.0888	\$0.0888
29	LDAC Total	\$11.81	\$22.11	\$27.26	\$35.79	\$32.59	\$23.27	\$152.83
30	Seasonal LDAC Difference from previous year							-\$2.47
31	Seasonal Percent Change from previous year							-1.6%
32	Total Bill	\$434	\$741	\$894	\$1,148	\$1,053	\$775	\$5,045
33	Seasonal Total Bill Difference from previous year							\$653.24
34	Seasonal Percent Change from previous year							14.9%
35	Seasonal Percent Change resulting from COG							13.5%
36	Seasonal Percent Change resulting from LDAC							-0.1%

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
Typical Commercial Bill - Non Fixed Price Option Program
Forecasted 2022-2023 Winter Period vs. Actual 2021-2022 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1							Winter	
2		Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Nov-Apr
3	Typical Usage - therms	133	249	307	403	367	262	1,721
4	Commercial G-41							
5	Customer Charge \$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36
6	Delivery Charge: First 100 therms @ \$0.4688	\$46.88	\$46.88	\$46.88	\$46.88	\$46.88	\$46.88	\$281.28
7	Over 100 therms @ \$0.3149	\$10.39	\$46.92	\$65.18	\$95.41	\$84.08	\$51.01	\$352.99
8	Base Delivery Revenue Total	\$114.33	\$150.86	\$169.12	\$199.35	\$188.02	\$154.95	\$976.63
9	COG Rates	\$1.8741	\$1.8741	\$1.8741	\$1.8741	\$1.8741	\$1.8741	\$1.8741
10	Cost of Gas Total	\$249.26	\$466.65	\$575.35	\$755.26	\$687.79	\$491.01	\$3,225.32
11	LDAC Rates	\$0.0831	\$0.0749	\$0.0891	\$0.0891	\$0.0991	\$0.0991	\$0.0902
12	LDAC Total	\$11.05	\$18.65	\$27.35	\$35.91	\$36.37	\$25.96	\$155.30
13	Total Bill	\$375	\$636	\$772	\$991	\$912	\$672	\$4,357
14								Winter
15		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Nov-Apr
16	Typical Usage - therms	133	249	307	403	367	262	1,721
17	Commercial G-41							
18	Customer Charge \$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$379.80
19	Delivery Charge: First 100 therms @ \$0.5088	\$50.88	\$50.88	\$50.88	\$50.88	\$50.88	\$50.88	\$305.28
20	Over 100 therms @ \$0.3550	\$10.39	\$46.92	\$65.18	\$95.41	\$84.08	\$51.01	\$352.99
21	Base Delivery Revenue Total	\$124.57	\$161.10	\$179.36	\$209.59	\$198.26	\$165.19	\$1,038.07
22	Seasonal Base Delivery Difference from previous year							\$61.44
23	Seasonal Percent Change from previous year							6.3%
24	COG Rates	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216	\$2.1216
25	Cost of Gas Total	\$282.17	\$528.28	\$651.33	\$855.00	\$778.63	\$555.86	\$3,651.27
26	Seasonal COG Difference from previous year							\$425.95
27	Seasonal Percent Change from previous year							13.2%
28	LDAC Rates	\$0.0888	\$0.0888	\$0.0888	\$0.0888	\$0.0888	\$0.0888	\$0.0888
29	LDAC Total	\$11.81	\$22.11	\$27.26	\$35.79	\$32.59	\$23.27	\$152.83
30	Seasonal LDAC Difference from previous year							-\$2.47
31	Seasonal Percent Change from previous year							-1.6%
32	Total Bill	\$419	\$711	\$858	\$1,100	\$1,009	\$744	\$4,842
33	Seasonal Total Bill Difference from previous year							\$484.92
34	Seasonal Percent Change from previous year							11.1%
35	Seasonal Percent Change resulting from COG							9.8%
36	Seasonal Percent Change resulting from LDAC							-0.1%

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION									
Historical COG Comparison - FPO vs. Non-FPO Bill									
Winter Period	FPO Rate	Amount of Premium	Percent Participation (therms)	Actual FPO Volumes	Premium Revenue	Typical Residential FPO bill	Average Non-FPO Rate	Typical Residential Non-FPO bill	Cost/(Savings) to FPO Customers
1 2021-2022	\$1.8941	\$0.02	11.35%	126,993	\$2,540	\$847	\$1.9452	\$869	(\$23)
2 2020-2021	\$2.0068	\$0.02	10.99%	122,937	\$2,459	\$897	\$1.9053	\$852	\$45
3 2019-2020	\$0.9692	\$0.02	7.08%	74,930	\$1,499	\$433	\$0.9085	\$406	\$27
4 2018-2019	\$1.3743	(\$0.01)	15.64%	181,485	-\$1,071	\$614	\$1.4301	\$639	(\$25)
5 2017-2018	\$1.2408	\$0.02	20.14%	221,383	\$4,428	\$527	\$1.4053	\$597	(\$70)
6 2016-2017	\$1.5352	\$0.02	19.32%	201,959	\$4,039	\$863	\$1.5247	\$900	(\$37)
7 2015-2016	\$0.8988	\$0.02	24.54%	224,981	\$4,500	\$480	\$0.6620	\$354	\$126
8 2014-2015	\$1.7269	\$0.02	32.16%	384,297	\$7,686	\$929	\$1.4213	\$765	\$164
9 2013-2014	\$1.6985	\$0.02	17.94%	206,379	\$4,128	\$914	\$2.0092	\$1,081	(\$167)
10 2012-2013	\$1.5217	\$0.02	20.81%	207,298	\$4,146	\$819	\$1.5002	\$807	\$12
11 2011-2012	\$2.2357	\$0.02	18.21%	152,560	\$3,051	\$1,203	\$2.1253	\$1,143	\$59
12 2010-2011	----- FPO not offered due to Selkirk terminal embargo -----								
13 2009-2010	\$1.3402	\$0.02	17.12%	163,486	\$3,270	\$721	\$1.4900	\$802	(\$81)
14 2008-2009	\$2.2408	\$0.02	21.08%	205,970	\$4,119	\$1,206	\$1.7347	\$933	\$272
15 2007-2008	\$1.5212	\$0.02	28.01%	266,419	\$5,328	\$818	\$1.7646	\$949	(\$131)
16 2006-2007	\$1.4741	\$0.02	21.86%	206,686	\$4,134	\$793	\$1.5397	\$828	(\$35)
17 2005-2006	\$1.5260	\$0.02	42.91%	348,849	\$6,977	\$821	\$1.3742	\$739	\$82
18 2004-2005	\$1.2323	n/a	39.44%	340,315	n/a	\$663	\$1.2647	\$680	(\$17)
19 2003-2004	\$0.8877	n/a	38.78%	316,300	n/a	\$478	\$1.0325	\$555	(\$78)
20 Average						\$790		\$785	\$5

**LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
PROJECTED INCREMENTAL COSTS CNG VS. SPOT PROPANE Winter 2022-2023**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Projected	Projected	Projected	Projected	Projected	Projected	
	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	
1 CNG PURCHASES							
2 CNG Volumes (Schedule C Filing)							
3							
4 CNG Costs (Schedule C Filing)							
5 Total Cost per Actual CNG Costs (Schedule C Filing)							
6							
7 CNG Cost Per Therm Actual							
8							
9 SPOT PROPANE PURCHASES							
10 Spot Propane Volumes (Schedule C Reconciliation)							
11							
12 Total Costs Spot Propane							
13 Total Cost Spot Propane							
14							
15 Spot Propane Cost Per Therm Actual	\$ 1.4362	\$ 1.4362	\$ 1.4362	\$ 1.4348	\$ 1.4136	\$ 1.3918	
16							
17							
18							
19 CNG Volumes							
20 Price difference CNG vs Spot Propane							
21 Adj. for rounding							\$0.0000
22 Incremental Costs Propane							(\$66,401)
23							
24							
25						50%	
						Allowed Recoverable Costs	\$ 2 (33,201)

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
CNG Incremental Cost/Saving Risk Sharing - 50% Shareholder/Customers
Incremental CNG Supply Costs - Winter 2021 – Winter 2022

	COG Period	Year	Actual / Estimate	Amount	50% Recovery	Deferred	(Refund)/Charge
1	Winter	2019-20	Actuals	\$132,469	\$66,235	\$132,533	\$66,299
2	Winter	2020-21	Actuals	\$44,016	\$22,008	\$0	(\$22,008)
3	Winter	2021-22	Actuals	\$39,489	\$0	\$0	\$39,489
4	Total Costs						\$39,489
5	Included in Winter 2022-2023 filing						\$39,489

LIBERTY UTILITIES (ENERGYNORTH NATURAL GAS) CORP. D/B/A LIBERTY - KEENE DIVISION
 INCREMENTAL COSTS CNG VS. SPOT PROPANE WINTER 2021-2022
 ACTUALS

	Actual Nov-21	Actual Dec-21	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Total
1 CNG PURCHASES							
2 CNG Volumes (Schedule C Reconciliation)							
3							
4 CNG Costs (Schedule C Reconciliation)							
5 Total Cost per Actual CNG Costs (Schedule C Reconciliation)							
6							
7 CNG Cost Per Therm Actual							
8							
9 SPOT PROPANE PURCHASES							
10 Spot Propane Volumes (Schedule C Reconciliation)							
11							
12 Total Costs Spot Propane							
13 Total Cost Spot Propane							
14							
15 Spot Propane Cost Per Therm Actual	\$1.6307	\$1.5583	\$1.7863	\$1.9256	\$1.9350	\$1.7709	\$1.8004
16							
17							
18							
19 CNG Volumes							
20							
21 Price difference CNG vs Spot Propane							
22 Adj. for rounding							
23 Incremental Costs Propane							
24							
25							
26							
						Allowed Recoverable Costs \$	39,489

MONT BELVIEU PROPANE FUTURES - 8/25/22 CLOSE

MONT BELVIEU LDH PROPANE (OPIS) FUTURES - SETTLEMENTS

TRADE DATE THURSDAY 25 AUG 2022 ▾

FINAL DATA ●

Last Updated 26 Aug 2022 11:45:00 AM CT

ESTIMATED VOLUME TOTALS	14,080	PRIOR DAY OPEN INTEREST TOTALS	12
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MONTH	OPEN	HIGH	LOW	LAST	CHANGE	SETTLE	EST. VOLUME
AUG 22	-	-	-	-	-.00331	1.09215	0
SEP 22	-	-	-	-	-.01687	1.10938	2,232
OCT 22	-	-	1.11500A	1.11500A	-.01687	1.10438	2,217
NOV 22	-	-	-	-	-.01625	1.10438	1,014
DEC 22	-	-	-	-	-.01562	1.10313	1,904
JAN 23	-	-	-	-	-.01500	1.09563	1,393
FEB 23	-	-	-	-	-.01250	1.08313	1,268
MAR 23	-	-	-	-	-.01063	1.03625	1,253

ENTERPRISE TE PRODUCTS PIPELINE FERC TARIFF 54.68.0 - EFFECTIVE 7/1/22

RATES (In Cents-per-bbl.)

[1] All rates are increased.

ITEM NO. 135

Non-Incentive Rates for Propane

Destination	Origin		
	Floreffe Junction (Allegheny Co., PA)	Mont Belvieu (Chambers Co., TX)	Tappan Lake (Harrison Co., OH), Todhunter (Butler Co., OH) & Follansbee (Brooke Co., West Virginia)
Coshocton (Coshocton Co., OH)	--	796.08	--
Dexter (Stoddard Co., MO)	--	378.26	--
Du Bois (Clearfield Co., PA)	427.60 (1)(2)	883.77 (1)	427.60 (1)
Fontaine (Green Co., AR)	--	355.36	--
Greensburg (Westmoreland Co., PA)	427.60 (1)(2)	834.05 (1)	427.60 (1)
Harford Mills (Cortland Co., NY)	600.82 (1)	942.62 (1)	625.52 (1)
Lebanon (Boone Co., IN)	--	446.09 (4)	--
Oneonta (Otsego Co., NY)	650.39	1018.54 (1)	671.38 (1)
Princeton (Gibson Co., IN)	--	485.59	--
Schaefferstown (Lebanon Co., PA)	630.46 (2)	952.75	622.11
Selkirk (Albany Co., NY)	705.66	1083.00 (1)	707.50 (1)
Seymour (Jackson Co., IN)	--	423.90	--
Sinking Spring (Berks Co., PA)	630.46 (2)	952.75	622.11
Todhunter Truck Terminal (Butler Co., OH)	--	713.33	--
Watkins Glen (Schuyler Co., NY)	578.31 (1)	894.42 (1)	604.58 (1)
West Memphis (Crittenden Co., AR)	--	378.26 (4)	--

Northern Gas Transport, Inc.
Box 106
Lyndonville, VT 05851-0106
1-800-648-1075
FAX: 802-626-5039

August 16, 2022

To: All Customers

Re: Fuel Surcharge Notice

As of Monday August 15, 2022, the Department of Energy New England average price per gallon of diesel fuel was \$5.175. All deliveries invoiced from Sunday, August 21, 2022 through Saturday, August 27, 2022 will be line item assessed at 30% fuel surcharge. Thank you and should you have any questions, please contact Renee Young at 1-800-648-1075 extension 221.

Best Regards,

Northern Gas Transport Inc. - Selkirk to Keene

Gallons	Base Rate	Base Charge	Fuel Surcharge Rate	Fuel Surcharge	Total Charge	Total Rate Per Gallon
9,200	\$0.0865	\$795.80	1.00%	\$7.96	\$803.76	\$0.0874
9,200	\$0.0865	\$795.80	2.00%	\$15.92	\$811.72	\$0.0882
9,200	\$0.0865	\$795.80	2.50%	\$19.90	\$815.70	\$0.0887
9,200	\$0.0865	\$795.80	3.00%	\$23.87	\$819.67	\$0.0891
9,200	\$0.0865	\$795.80	3.50%	\$27.85	\$823.65	\$0.0895
9,200	\$0.0865	\$795.80	4.00%	\$31.83	\$827.63	\$0.0900
9,200	\$0.0865	\$795.80	4.50%	\$35.81	\$831.61	\$0.0904
9,200	\$0.0865	\$795.80	5.00%	\$39.79	\$835.59	\$0.0908
9,200	\$0.0865	\$795.80	5.50%	\$43.77	\$839.57	\$0.0913
9,200	\$0.0865	\$795.80	6.00%	\$47.75	\$843.55	\$0.0917
9,200	\$0.0865	\$795.80	6.50%	\$51.73	\$847.53	\$0.0921
9,200	\$0.0865	\$795.80	7.00%	\$55.71	\$851.51	\$0.0926
9,200	\$0.0865	\$795.80	7.50%	\$59.69	\$855.49	\$0.0930
9,200	\$0.0865	\$795.80	8.00%	\$63.66	\$859.46	\$0.0934
9,200	\$0.0865	\$795.80	8.50%	\$67.64	\$863.44	\$0.0939
9,200	\$0.0865	\$795.80	9.00%	\$71.62	\$867.42	\$0.0943
9,200	\$0.0865	\$795.80	9.50%	\$75.60	\$871.40	\$0.0947
9,200	\$0.0865	\$795.80	10.00%	\$79.58	\$875.38	\$0.0952
9,200	\$0.0865	\$795.80	10.50%	\$83.56	\$879.36	\$0.0956
9,200	\$0.0865	\$795.80	11.00%	\$87.54	\$883.34	\$0.0960
9,200	\$0.0865	\$795.80	11.50%	\$91.52	\$887.32	\$0.0964
9,200	\$0.0865	\$795.80	12.00%	\$95.50	\$891.30	\$0.0969
9,200	\$0.0865	\$795.80	12.50%	\$99.48	\$895.28	\$0.0973
9,200	\$0.0865	\$795.80	13.00%	\$103.45	\$899.25	\$0.0977
9,200	\$0.0865	\$795.80	13.50%	\$107.43	\$903.23	\$0.0982
9,200	\$0.0865	\$795.80	14.00%	\$111.41	\$907.21	\$0.0986
9,200	\$0.0865	\$795.80	14.50%	\$115.39	\$911.19	\$0.0990
9,200	\$0.0865	\$795.80	15.00%	\$119.37	\$915.17	\$0.0995
9,200	\$0.0865	\$795.80	15.50%	\$123.35	\$919.15	\$0.0999
9,200	\$0.0865	\$795.80	16.00%	\$127.33	\$923.13	\$0.1003
9,200	\$0.0865	\$795.80	16.50%	\$131.31	\$927.11	\$0.1008
9,200	\$0.0865	\$795.80	17.00%	\$135.29	\$931.09	\$0.1012
9,200	\$0.0865	\$795.80	17.50%	\$139.27	\$935.07	\$0.1016
9,200	\$0.0865	\$795.80	18.00%	\$143.24	\$939.04	\$0.1021
9,200	\$0.0865	\$795.80	18.50%	\$147.22	\$943.02	\$0.1025
9,200	\$0.0865	\$795.80	19.00%	\$151.20	\$947.00	\$0.1029
9,200	\$0.0865	\$795.80	19.50%	\$155.18	\$950.98	\$0.1034
9,200	\$0.0865	\$795.80	20.00%	\$159.16	\$954.96	\$0.1038
9,200	\$0.0865	\$795.80	20.50%	\$163.14	\$958.94	\$0.1042
9,200	\$0.0865	\$795.80	21.00%	\$167.12	\$962.92	\$0.1047
9,200	\$0.0865	\$795.80	21.50%	\$171.10	\$966.90	\$0.1051
9,200	\$0.0865	\$795.80	22.00%	\$175.08	\$970.88	\$0.1055
9,200	\$0.0865	\$795.80	22.50%	\$179.06	\$974.86	\$0.1060
9,200	\$0.0865	\$795.80	23.00%	\$183.03	\$978.83	\$0.1064
9,200	\$0.0865	\$795.80	23.50%	\$187.01	\$982.81	\$0.1068
9,200	\$0.0865	\$795.80	24.00%	\$190.99	\$986.79	\$0.1073
9,200	\$0.0865	\$795.80	24.50%	\$194.97	\$990.77	\$0.1077
9,200	\$0.0865	\$795.80	25.00%	\$198.95	\$994.75	\$0.1081
9,200	\$0.0865	\$795.80	25.50%	\$202.93	\$998.73	\$0.1086
9,200	\$0.0865	\$795.80	26.00%	\$206.91	\$1,002.71	\$0.1090
9,200	\$0.0865	\$795.80	26.50%	\$210.89	\$1,006.69	\$0.1094
9,200	\$0.0865	\$795.80	27.00%	\$214.87	\$1,010.67	\$0.1099
9,200	\$0.0865	\$795.80	27.50%	\$218.85	\$1,014.65	\$0.1103
9,200	\$0.0865	\$795.80	28.00%	\$222.82	\$1,018.62	\$0.1107
9,200	\$0.0865	\$795.80	28.50%	\$226.80	\$1,022.60	\$0.1112
9,200	\$0.0865	\$795.80	29.00%	\$230.78	\$1,026.58	\$0.1116
9,200	\$0.0865	\$795.80	29.50%	\$234.76	\$1,030.56	\$0.1120
9,200	\$0.0865	\$795.80	30.00%	\$238.74	\$1,034.54	\$0.1125
9,200	\$0.0865	\$795.80	30.50%	\$242.72	\$1,038.52	\$0.1129
9,200	\$0.0865	\$795.80	31.00%	\$246.70	\$1,042.50	\$0.1133
9,200	\$0.0865	\$795.80	31.50%	\$250.68	\$1,046.48	\$0.1137
9,200	\$0.0865	\$795.80	32.00%	\$254.66	\$1,050.46	\$0.1142
9,200	\$0.0865	\$795.80	32.50%	\$258.64	\$1,054.44	\$0.1146
9,200	\$0.0865	\$795.80	33.00%	\$262.61	\$1,058.41	\$0.1150
9,200	\$0.0865	\$795.80	33.50%	\$266.59	\$1,062.39	\$0.1155
9,200	\$0.0865	\$795.80	34.00%	\$270.57	\$1,066.37	\$0.1159
9,200	\$0.0865	\$795.80	34.50%	\$274.55	\$1,070.35	\$0.1163
9,200	\$0.0865	\$795.80	35.00%	\$278.53	\$1,074.33	\$0.1168
9,200	\$0.0865	\$795.80	35.50%	\$282.51	\$1,078.31	\$0.1172
9,200	\$0.0865	\$795.80	36.00%	\$286.49	\$1,082.29	\$0.1176
9,200	\$0.0865	\$795.80	36.50%	\$290.47	\$1,086.27	\$0.1181
9,200	\$0.0865	\$795.80	37.00%	\$294.45	\$1,090.25	\$0.1185
9,200	\$0.0865	\$795.80	37.50%	\$298.43	\$1,094.23	\$0.1189
9,200	\$0.0865	\$795.80	38.00%	\$302.40	\$1,098.20	\$0.1194
9,200	\$0.0865	\$795.80	38.50%	\$306.38	\$1,102.18	\$0.1198
9,200	\$0.0865	\$795.80	39.00%	\$310.36	\$1,106.16	\$0.1202
9,200	\$0.0865	\$795.80	39.50%	\$314.34	\$1,110.14	\$0.1207
9,200	\$0.0865	\$795.80	40.00%	\$318.32	\$1,114.12	\$0.1211