

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

CONVERSION OF COSTS - GALLONS TO THERMS
WINTER PERIOD 2023 - 2024

	(1)	(2)	(3) (4)		(5)	(6)	
			VOLUMES			UNIT COST	
	<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]	\$1.1628		\$1.2707
2 GAS FROM CNG	THERMS	N/A	N/A	[REDACTED]	N/A	[REDACTED]	
3 TOTAL				1,116,237			

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

CALCULATION OF COST OF GAS RATE
SUPPLY / DEMAND BALANCE
WINTER PERIOD 2023 - 2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	REFERENCE
	PRIOR	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	TOTAL	
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)		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$1.2252	\$1.2490	\$1.2806	\$1.2932	\$1.2988	\$1.2725		Sch F. Col. 2
5 TOTAL CALCULATED COST OF PROpane		\$0	\$0	\$0	\$0	\$0	\$0	\$172,149	\$194,982	\$260,727	\$218,526	\$177,923	\$116,723	\$1,141,030	Ln 3 * Ln 4
6 INDIRECT COSTS FROM DG 20-105		\$0	\$0	\$0	\$0	\$0	\$0	\$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	(\$41)	(\$26)	\$307	\$14,019	(\$14,299)	\$0	(\$39)	
8 TOTAL COST OF PROpane	3/	\$0	\$0	\$0	\$0	\$0	\$0	\$206,797	\$229,644	\$295,722	\$267,233	\$198,313	\$151,411	\$1,349,120	Ln 5 + Ln 6 + Ln 7
CNG COSTS															
9 CNG SENDOUT (therms)															Sch C, Ln 20
10 COMPANY USE (therms)															
11 TOTAL CNG SENDOUT (therms)															
12 COST PER THERM (WACOG)															Sch C, Ln 21
13 TOTAL CALCULATED COST OF CNG															Ln 9 * Ln 10
14 CNG DEMAND CHARGES															Sch C, Ln 26
15 INCREMENTAL COSTS Winter 2023-2024															Sch. N Ln. 25
16 TOTAL CNG COSTS															Ln 11 + Ln 12 + Ln 13 + Ln 14
17 ACCOUNTING ADJUSTMENT	4/	\$3,199	\$0	\$0	\$0	(\$6,665)	\$0	\$119	(\$71)	(\$28)	(\$15)	\$30,428	(\$30,647)	(\$3,680)	
18 GAS ASSISTANCE PLAN (GAP)		(\$6,680)	(\$26)	(\$27)	\$0	\$0	\$0	(\$1,195)	(\$2,055)	(\$3,419)	(\$4,240)	(\$3,731)	(\$3,653)	(\$25,026)	Ln 30 * .02
19 TOTAL COSTS OF GAS															Ln 8 + Ln 16 + Ln 17 + Ln 18
20 RETURN ON INVENTORY		\$0	\$0	\$0	\$0	\$0	\$0	\$2,946	\$2,946	\$2,946	\$2,946	\$2,946	\$2,946	\$17,677	Company calculation
REVENUES															
21 BILLED FPO SALES (therms)	2/	0	0	0	0	0	0	0	0	11,791	15,284	8,889	8,830	44,794	
22 COG FPO RATE		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$1.4207	\$1.4207	\$1.4207	\$1.4207	\$1.4207	\$1.4207	\$1.4207	
23 BILLED FPO REVENUE - CURRENT MONTH		\$0	\$0	\$0	\$0	\$0	\$0	\$16,751	\$16,751	\$16,751	\$16,751	\$16,751	\$16,751	\$63,639	
24 BILLED LOW INCOME FPO SALES (therms)	2/	0	0	0	0	0	0	0	0	188	186	126	122	622	
25 COG LOW INCOME FPO RATE		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.7814	\$0.7814	\$0.7814	\$0.7814	\$0.7814	\$0.7814	\$0.7814	
26 BILLED LOW INCOME FPO REVENUE - CURRENT MONTH		\$0	\$0	\$0	\$0	\$0	\$0	\$147	\$147	\$147	\$145	\$98	\$96	\$486	
27 BILLED NON-FPO SALES PRIOR MONTH (therms)		98,303	0	0	0	0	0	54,826	58,194	47,790	30,084	39,420	328,617		
28 COG NON-FPO RATE PRIOR MONTH		\$2,6520	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$1,4007	\$1,3455	\$1,3418	\$1,4811	\$1,5305	\$1,5305	\$584,810	
29 BILLED FPO REVENUE - PRIOR MONTH		\$260,701	\$0	\$0	\$0	\$0	\$0	\$76,794	\$78,300	\$64,125	\$44,558	\$60,333	\$584,810		
30 BILLED NON-FPO SALES CURRENT MONTH (therms)		0	0	0	0	0	98,096	120,155	161,462	139,481	75,489	62,773	657,456	Sch. J	
31 COG NON-FPO RATE CURRENT MONTH		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$1,4007	\$1,3455	\$1,3418	\$1,4811	\$1,5305	\$1,4965	\$1,4965	(Ln 39 + Ln 19 + Ln 20 + Ln 37) / Ln 33	
32 BILLED NON-FPO REVENUE - CURRENT MONTH		\$0	\$0	\$0	\$0	\$0	\$137,403	\$161,669	\$216,650	\$206,585	\$115,536	\$93,940	\$93,173	Ln 27 * Ln 28	
33 BILLED LOW INCOME SALES PRIOR MONTH (therms)		2,920	0	0	0	0	0	1,052	1,482	1,698	1,281	1,613	10,046		
34 COG LOW INCOME RATE PRIOR MONTH		\$1,4586	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0,7704	\$0,7400	\$0,7380	\$0,8146	\$0,8418	\$0,8418		
35 BILLED LOW INCOME REVENUE - PRIOR MONTH		\$4,260	\$0	\$0	\$0	\$0	\$0	\$810	\$1,097	\$1,253	\$1,043	\$1,358	\$9,821		
36 BILLED LOW INCOME SALES CURRENT MONTH (therms)		0	0	0	0	0	1,896	2,342	3,781	3,790	2,564	2,266	16,640		
37 COG LOW INCOME RATE CURRENT MONTH		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0,7704	\$0,7400	\$0,7380	\$0,8146	\$0,8418	\$0,8231	\$0,8231		
38 BILLED LOW INCOME REVENUE - CURRENT MONTH		\$0	\$0	\$0	\$0	\$0	\$1,461	\$1,733	\$2,791	\$3,087	\$2,158	\$1,865	\$13,095		
39 BILLED SALES OTHER PRIOR PERIODS		43,301	35	565	1,681	0	77	22	0	449	1,418	4,220	1,117	52,885	
40 COG OTHER PRIOR PERIODS BLENDED RATE		\$1,9669	\$1,6728	\$2,3397	\$2,0762	\$0.0000	\$2,0457	\$2,1419	\$0.0000	\$1,1693	\$1,0584	\$1,1443	\$0,6322		
41 BILLED OTHER BLENDED REVENUE - PRIOR PERIODS		\$85,169	\$58	\$1,321	\$3,491	\$0	\$158	\$48	\$0	\$525	\$1,501	\$4,829	\$706	\$97,806	
42 TOTAL SALES		144,525	35	565	1,681	0	77	100,015	178,375	237,347	209,646	122,653	116,142	1,111,061	Sch. J
43 TOTAL BILLED REVENUES		\$350,129	\$58	\$1,321	\$3,491	\$0	\$158	\$138,912	\$241,007	\$316,260	\$298,409	\$180,852	\$170,843	\$1,701,440	Ln 23 + Ln 26 + Ln 29 + Ln 32
44 UNBILLED REVENUES (NET)		(\$263,950)	\$0	\$0	\$0	\$0	\$0	\$93,494	(\$9,289)	\$19,373	(\$27,673)	\$35,910	(\$61,518)	(\$213,654)	
45 TOTAL REVENUES		\$86,179	\$58	\$1,321	\$3,491	\$0	\$158	\$232,406	\$231,718	\$335,633	\$270,736	\$216,762	\$109,325	\$1,487,786	Ln 34 + Ln 35
46 (OVER)/UNDER COLLECTION		(\$82,784)	\$6,791	\$5,527	\$3,384	\$210	\$6,717	\$7,833	\$35,429	\$6,269	\$35,344	\$38,039	\$31,061	(\$30,277)	Ln 19 + Ln 20 - Ln 36
47 INTEREST AMOUNT		(\$1,060)	(\$1,323)	(\$1,333)	(\$1,351)	(\$1,304)	(\$1,332)	(\$1,232)	(\$1,321)	(\$919)	(\$696)	(\$453)	(\$120)	(\$12,448)	
48 FINAL (OVER)/UNDER COLLECTION	1/	(\$124,094)	(\$207,939)	(\$202,471)	(\$198,278)	(\$196,245)	(\$197,340)	(\$191,955)	(\$185,354)	(\$151,247)	(\$145,898)	(\$111,250)	(\$73,665)	(\$42,724)	5/ Prior Mo Ln 39 + Ln 37 + Ln 38

1/ The beginning balance in column 1 ties to the Adjusted Over-Collection per Audit in the DG 22-057 2022/2023 Winter Cost of Gas Reconciliation Final Audit Report issued on October 5, 2023.
2/ It was discovered in December that the FPO billing operands were not added to the FPO enrolled accounts. This was corrected and all customers were rebilled in January for the Nov-Dec time frame.
3/ The WACOG report that is used to calculate the propane usage deferral that is booked to the GL was wrong during February. This was corrected in March.
4/ The CNG Usage Deferral was over-accrued by \$30k during March. The accrual was backed out in the following month.
5/ The ending balance in column 14 will not tie to the 4/30/2024 balance on the GL. There were three adjusting entries that were made subsequent to 4/30/2024 that are reflected on this schedule for presentation purposes. The \$26,451 in incremental costs were not booked to the GL until July 2024, once they were calculated during the preparation of this reconciliation. An adjustment of \$9,423 was also booked during July 2024 to true up the GL balance to the 4/30/2023 beginning balance from the previous audit that is mentioned in 1/. It was also discovered during the preparation of this reconciliation that there was an entry made in April 2024 for \$14,348 that should not have been made. It was subsequently reversed in July 2024. Support for all of these journal entries is available upon request.

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

CALCULATION OF PURCHASED GAS COSTS
WINTER PERIOD 2023 – 2024

L NE NO.		actual Nov-23	actual Dec-23	actual Jan-24	actual Feb-24	actual Mar-24	actual Apr-24	TOTAL
1	TOTAL REQUIRED PURCHASES							
2	<u>PROPANE PURCHASE STABILIZATION PLAN DELIVERIES</u>							
3	THERMS	83,331	128,954	150,978	123,528	96,077	57,646	640,514
4	<u>RATES</u> - from Schedule D							
5	Contract Price	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586	
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	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586	\$ 1.2586
11	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$ 104,876	\$ 162,295	\$ 190,014	\$ 155,466	\$ 120,918	\$ 72,551	\$ 806,120
12	<u>AMHERST STORAGE PROPANE DELIVERIES</u>							
13	Therms	-	17,890	26,499	27,851	35,309	8,951	118,800
14	<u>RATES</u> - from Schedule F							
15	WACOG Price	\$ -	\$ 1.0020	\$ 1.0020	\$ 1.0020	\$ 1.0020	\$ 1.0020	
16	Trucking Fee	\$ -	\$ 0.0908	\$ 0.0901	\$ 0.0904	\$ 0.0901	\$ 0.0904	
17	COST PER THERM	\$ -	\$ 1.0928	\$ 1.0921	\$ 1.0924	\$ 1.0921	\$ 1.0924	\$ 1.0711
18	TOTAL COST - Amherst Storage Propane Deliveries	\$ -	\$ 19,550	\$ 28,938	\$ 30,425	\$ 38,559	\$ 9,778	\$ 127,251
19	<u>CNG DELIVERIES</u>							
20	THERMS							
21	RATE							
22								
23	COST PER THERM							
24								
25	COST - CNG							
26								
27	TOTAL CNG							
28	<u>SPOT PURCHASES</u>							
29	THERMS							
30	From Schedule E							
31	COST PER THERM	\$ 1.2951	\$ 1.3684	\$ 1.5289	\$ 1.4951	\$ 1.4781	\$ 1.1744	\$ 1.3547
32	TOTAL COST - Spot Purchases							
33	<u>OTHER ITEMS</u>							
34	Storage	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
35	Refund of Deferred Revenue Surcharge over collection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	TOTAL OTHER ITEMS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
37	<u>TOTAL</u>							
38	THERMS FROM PROPANE							
39	COST							
40	THERMS FROM CNG							
41	COST							
42	COST PER THERM	\$ 1.2886	\$ 1.2678	\$ 1.2661	\$ 1.2602	\$ 1.2205	\$ 1.2345	\$ 1.2590

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

INVENTORY & WEIGHTED AVERAGE COST OF GAS CALCULATION
WINTER PERIOD 2023 - 2024

LINE NO.		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
					Rate					
		Therms	Cost	Therm	Gal.	CNG therms	Cost	Total Sendout	Total Cost	Therm Rate
1	August 2023 (Actual)									
2	Beginning Balance	56,679	\$68,130	\$1 2020	\$1.0999					
3	Purchases Received	155,230	\$163,772	\$1 0550	\$0.9654					
4	Total Available	211,909	\$231,902	\$1 0943	\$1.0014					
5	Less Sendout	40,091	\$43,873	\$1 0943	\$1.0013					
6	Ending Balance	171,818	\$188,029	\$1 0944	\$1.0014					
7	September 2023 (Actual)									
8	Beginning Balance	171,818	\$188,029	\$1 0944	\$1.0014					
9	Purchases Received	53,018	\$68,126	\$1 2850	\$1.1758					
10	Total Available	224,836	\$256,155	\$1.1393	\$1.0425					
11	Less Sendout	42,925	\$48,904	\$1.1393	\$1.0425					
12	Ending Balance	181,911	\$207,251	\$1.1393	\$1.0425					
13	October 2023 (Actual)									
14	Beginning Balance	181,911	\$207,251	\$1.1393	\$1.0425					
15	Purchases Received	43,197	\$57,674	\$1 3351	\$1.2217					
16	Total Available	225,108	\$264,925	\$1.1769	\$1.0769					
17	Less Sendout	63,878	\$75,177	\$1.1769	\$1.0769					
18	Ending Balance	161,230	\$189,748	\$1.1769	\$1.0769					
19	November 2023 (Actual)									
20	Beginning Balance	161,230	\$189,748	\$1.1769	\$1.0769					
21	Purchases Received	154,919	\$197,592	\$1 2755	\$1.1671					
22	Total Available	316,149	\$387,341	\$1 2252	\$1.1211					
23	Less Sendout	140,509	\$172,149	\$1 2252	\$1.1211					\$1 249
24	Ending Balance	175,640	\$215,192	\$1 2252	\$1.1211					
25	December 2023 (Actual)									
26	Beginning Balance	175,640	\$215,192	\$1 2252	\$1.1211					
27	Purchases Received	140,046	\$179,098	\$1 2789	\$1.1702					
28	Total Available	315,686	\$394,290	\$1 2490	\$1.1429					
29	Less Sendout	156,111	\$194,982	\$1 2490	\$1.1429					\$1 269
30	Ending Balance	159,575	\$199,308	\$1 2490	\$1.1429					
31	January 2024 (Actual)									
32	Beginning Balance	159,575	\$199,308	\$1 2490	\$1.1429					
33	Purchases Received	175,070	\$229,236	\$1 3094	\$1.1981					
34	Total Available	334,645	\$428,544	\$1 2806	\$1.1718					
35	Less Sendout	203,599	\$260,727	\$1 2806	\$1.1718					\$1 276
36	Ending Balance	131,046	\$167,817	\$1 2806	\$1.1718					
37	February 2024 (Actual)									
38	Beginning Balance	131,046	\$167,817	\$1 2806	\$1.1718					
39	Purchases Received	140,428	\$183,251	\$1 3049	\$1.1941					
40	Total Available	271,474	\$351,068	\$1 2932	\$1.1833					
41	Less Sendout	168,982	\$218,526	\$1 2932	\$1.1833					\$1 291
42	Ending Balance	102,492	\$132,542	\$1 2932	\$1.1833					
43	March 2024 (Actual)									
44	Beginning Balance	102,492	\$132,542	\$1 2932	\$1.1833					
45	Purchases Received	103,079	\$134,447	\$1 3043	\$1.1935					
46	Total Available	205,571	\$266,989	\$1 2988	\$1.1884					
47	Less Sendout	136,994	\$177,923	\$1 2988	\$1.1884					\$1 279
48	Ending Balance	68,577	\$89,066	\$1 2988	\$1.1884					
49	April 2024 (Actual)									
50	Beginning Balance	68,577	\$89,066	\$1 2988	\$1.1884					
51	Purchases Received	76,072	\$95,000	\$1 2488	\$1.1427					
52	Total Available	144,649	\$184,066	\$1 2725	\$1.1644					
53	Less Sendout	91,728	\$116,723	\$1 2725	\$1.1644					\$1 273
54	Ending Balance	52,921	\$67,343	\$1 2725	\$1.1644					
55	AVERAGE WINTER RATE - SENDOUT									
56						FPO Premium (Sch. B, Line 15)			(\$25,026)	
57										

LIBERTY UT LIT ES (ENERGYNORTH NATURAL GAS) CORP. D/B/A L BERTY - KEENE DIVISION
 PROJECTED INCREMENTAL COSTS CNG VS. SPOT PROPANE Winter 2023-2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Actual	Actual	Actual	Actual	Actual	Actual	Total
	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	
1 <u>CNG PURCHASES</u>							
2 CNG Volumes							
3							
4 CNG Costs							
5 Total Cost per Actual CNG Costs							
6							
7 CNG Cost Per Therm Actual							
8							
9 <u>SPOT PROPANE PURCHASES</u>							
10 Spot Propane Volumes							
11							
12 Total Costs Spot Propane							
13 Total Cost Spot Propane							
14							
15 Spot Propane Cost Per Therm Actual	\$ 1.2951	\$ 1.3684	\$ 1.5289	\$ 1.4951	\$ 1.4781	\$ 1.1744	\$ 1.3547
16							
17							
18							
19 CNG Volumes							
20 Price difference CNG vs Spot Propane							
21 <u>Adj. for rounding</u>							\$0.0000
22 Incremental Costs Propane							\$ (26,451)
23							
24							
25							
					50% if CNG is higher		
					Allowed Recoverable Costs		\$ (26,451)