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)	
			VOLU	JMES	UNIT	COST	
	<u>UNIT</u>	CONVERSION FACTOR	<u>GALLONS</u>	<u>THERMS</u>	PER <u>GALLON</u>	PER <u>THERM</u>	
1 GAS FROM PROPANE	GALLONS	0.91502			\$1.4600	\$1.5956	
2 GAS FROM CNG	THERMS	N/A	N/A		N/A		
3 TOTAL				1,130,362			

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	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	TOTAL REFERENCE
	PROPANE COSTS													
1	PROPANE FIRM SENDOUT (therms)													Company actuals
2	COMPANY USE (therms)													Company actuals
3	TOTAL PROPANE SENDOUT (therms)							0						Ln 1 + Ln 2
4	COST PER THERM (WACOG)	\$1.5547	\$1.5637	\$1.6160	\$1.6346	\$1.5996	\$1.5924	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	Sch F Col. 2
5 6	TOTAL CALCULATED COST OF PROPANE INDIRECT COSTS FROM DG 20-105	\$188,430 \$34,688	\$300,324 \$34.688	\$299,955 \$34,688	\$292,935 \$34.688	\$243,266 \$34.688	\$135,651 \$34,688	\$0 \$0	\$1 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,460,561 Ln 3 * Ln 4 \$208,129 DG 20-105, Section 11.2 (\$
7	PROPANE ADJUSTMENTS	(\$1)	(\$0)	\$0	\$34,000	(\$0)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
8	TOTAL COST OF PROPANE	\$223,117.56	\$335,011.93	\$334,643.21	\$327,623.75	\$277,954.05	\$170,339.46	\$0	\$1	\$0	\$0	\$0	\$0	\$1,668,690 Ln 5 + Ln 6 + Ln 7
9 10	CNG COSTS CNG SENDOUT (therms) COMPANY USE (therms													Company actuals Company actuals
11	TOTAL CNG SENDOUT (therms)													Ln 9 + Ln 10
12 13	COST PER THERM (WACOG) TOTAL CALCULATED COST OF CNG													Sch C, Ln 21 Ln 9 * Ln 10
14	CNG DEMAND CHARGES													Sch C, Ln 26
15	PROJECTED INCREMENTAL COSTS Winter 2022-2023													Sch. N Ln 7 Ln. 25
16 17	NET INCREMENTAL COSTS CNG ADJUSTMENT													Ln 13 + Ln 14
18	TOTAL CNG COSTS													Ln 11 + Ln 12 + Ln 13 + Ln
19	GAS ASSISTANCE PLAN (GAP)	(145.33)	(42.71)	(10,909.25)	(763.89)	(13,427.90)	(89.64)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$25,379)
20	TOTAL COSTS OF GAS													n 8 + Ln 16 + Ln 17 + Ln 1
21	RETURN ON INVENTORY	\$2,554	\$2,554	\$2,554	\$2,554	\$2,554	\$2,554	\$0	\$0	\$0	\$0	\$0	\$0 \$	15,323 Company calculation
	REVENUES													
22	BILLED FPO SALES (therms)	428	844	12,913	848	10,405	0	0	0	0	0	0	0	Company actuals
23 24	COG FPO RATE BILLED FPO REVENUE - CURRENT MONTH	\$2.1416 \$916.60	\$2.1416 \$1,808	\$2.1416 \$27,654	\$2.1416 \$1,815	\$2.1416 \$22,283	\$2.1416 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	DG 22-057 Order 26,716 (C \$54,477 Ln 22 * Ln 23
									**					
25 26	BILLED NON-FPO SALES PRIOR MONTH (therms) COG NON-FPO RATE PRIOR MONTH	0 \$0.0000	6,427 \$2,1216	170,804 \$2,1118	0 \$1.8120	271,872 \$1.8120	320 \$2.0122	0 \$0.0000	0 \$0.0000	0 \$0.0000	0 \$0.0000	0 \$0.0000	0 \$0.0000	Company actuals DG 22-057 Order 26,716 (C
27	BILLED FPO REVENUE - PRIOR MONTH	\$0	\$13,636	\$360,704	\$0	\$492,632	\$644	\$0	\$0	\$0	\$0	\$0	\$0	\$867,615 Ln 22 * Ln 23
28	BILLED NON-FPO SALES CURRENT MONTH (therms)	14,450	16,881	131,123	26,386	135,775	317	0	0	0	0	0	0	324,933 Company actuals
29	COG NON-FPO RATE CURRENT MONTH	\$2.1216	\$2.1118	\$1.8120	\$1.8120	\$2.0122	\$2.6520	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	DG 22-057 Order 26,716 (C
30	BILLED NON-FPO REVENUE - CURRENT MONTH	\$30,657	\$35,649	\$237,596	\$47,811	\$273,207	\$841	\$0	\$0	\$0	\$0	\$0	\$0	\$625,761 Ln 22 * Ln 23
31	BILLED SALES OTHER PRIOR PERIODS	89	120	124,100	965	29,449	393	0	0	0	0	0	0	Company actuals
32 33	COG OTHER PRIOR PERIODS BLENDED RATE BILLED OTHER BLENDED REVENUE - PRIOR PERIODS	\$1.1706 \$104	\$1.1810 \$141	\$2.0121 \$249,699	\$1.1285 \$1,089	\$1.5744 \$46,364	(\$1.0891) (\$428)	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	\$0.0000 \$0	DG 22-057 Order 26 716 (C \$296.969 Ln 22 * Ln 23
							, ,							
34	TOTAL SALES	14,967	24,272	438,941	28,199	447,501	1,030	0	0	0	1	0	2	954,909 Ln 22 + Ln 25 + Ln 28 + Ln 31
35	TOTAL BILLED REVENUES	\$31,678	\$51,234	\$875,653	\$50,716	\$834,486	\$1,057	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,844,822 Ln 24 + Ln 27 + Ln 30 + Ln
36	UNBILLED REVENUES (NET)	267,317	172,062	(298,425)	207,180	(288,265)	204,081	-	-	-	-	-	-	\$263,950
37	TOTAL REVENUES	\$298,995	\$223,296	\$577,228	\$257,896	\$546,221	\$205,137	\$0						\$2,108,773 Ln 35 + Ln 36
38	(OVER)/UNDER COLLECTION	(\$37,215)	\$178,819	(\$194,335)	\$121,560	(\$235,681)	(\$8,763)	\$6,875	\$6,876	\$6,875	\$6,875	\$6,875	\$6,875	(\$83,629) Ln 20 + Ln 21 - Ln 37
39	INTEREST AMOUNT	145.95	570.24	592.49	366.77	33.68	(670.86)	-	-	-	-	-	-	\$1,038
40	FINAL (OVER)/UND \$50,737	\$13,668	\$193,057	(\$686)	\$121,241	(\$114,407)	(\$123,840)	(\$116,965)	(\$110,089)	(\$103,214)	(\$96,339)	(\$89,464)	(\$82,589)	(\$82,590) Prior Mo Ln 40 + Ln 38 + Lı

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

CALCULATION OF PURCHASED GAS COSTS WINTER PERIOD 2022 – 2023

LINE NO.		actual Nov-22	actual Dec-22	actual Jan-23	actual Feb-23	actual Mar-23	actual Apr-23	TOTAL
1	TOTAL REQUIRED PURCHASES							
2	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES THERMS	check 84,182	check 128,103	check 150,978	check 123,528	check 96,077	check 57,646	640,514
4 5	RATES - from Schedule D Contract Price	\$1.6535	\$1.6481	\$1.6481	\$1 6481	\$1.6481	\$1.6481	
6 7	Broker Fee Pipeline Fee	incl.	incl.	incl.	incl.		incl.	
9	PERC Fee Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
10 11	COST PER THERM TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$1.6535 \$139,196	\$1.6481 \$211,120	\$1.6481 \$248,820	\$1 6481 \$203,580	\$1.6481 \$158,340	\$1.6481 \$95,004	\$1 6488 \$1,056,060
11	TOTAL COST - Fropane Fulchase Stabilization Flan Deliveries	\$139,190	φ211,120	φ240,020	φ203,360	φ136,340	φ95,004	\$1,030,000
12 13	AMHERST STORAGE PROPANE DELIVERIES Therms	check -	check 24,814	check 33,385	check 35,597	check 17,133	check 8,396	118,800
14 15 16	RATES - from Schedule F WACOG Price Trucking Fee	\$0.0000 \$0.0000	\$1.6000 \$0.0926	\$1.6000 \$0.0918	\$1 6000 \$0.1116	\$1.6000 \$0.0911	\$1.6000 \$0.0876	
17	COST PER THERM	\$0.0000	\$1.6926	\$1.6918	\$1.7116	\$1.6911	\$1.6876	\$1.7050
18	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$42,000	\$56,480	\$60,928	\$28,974	\$14,169	\$202,551
19 20 21	CNG DELIVERIES THERMS RATE	check	check	check	check	check	check	
22 23 24	COST PER THERM							
25 26	COST - CNG							
27	TOTAL CNG							
28 29	SPOT PURCHASES THERMS	check	check	check	check	check	check	
30 31	From Schedule E COST PER THERM	\$1.3923	\$1.2834	\$1.6239	\$1.4625	\$1.3314	\$1.2813	\$1 3615
32	TOTAL COST - Spot Purchases							
33 34 35 36	OTHER ITEMS Storage Refund of Deferred Revenue Surcharge over collection TOTAL OTHER ITEMS	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
37 38 39	TOTAL THERMS FROM PROPANE COST							
40 41	THERMS FROM CNG COST							
42	COST PER THERM	\$1.5955	\$1.5935	\$1.6176	\$1 5802	\$1.5245	\$1.5388	\$1 5796

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

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

L NE NO		(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)
1	August 2022 (Actual)	Therms	Cost	Therm	<u>Rate</u> <u>Gal.</u>		CNG therms	Cost	Total Sendout	Total Cost		Therm Ra
2	Beginning Balance Purchases Received	47,654 154,719	\$78,129 \$251,655	\$1 6395 \$1 6265	\$1.5002 \$1.4883							
4	Total Available	202,373	\$329,784	\$1 6296	\$1.4903							
5	Less Sendout	37,727	\$61,479	\$1 6296	\$1.4911							
6	Ending Balance	164,646	\$268,305	\$1 6296	\$1.4911							
7	September 2022 (Actual)	<u>Therms</u>	Cost	Therm	Rate Gal.							
8	Beginning Balance	164,646	\$268,305	\$1 6296	\$1.4911							
9	Purchases Received	54,758	\$78,635	\$1.4361	\$1.3140							
10 11	Total Available Less Sendout	219,404 43,054	\$346,940 \$68,081	\$1 5813 \$1 5813	\$1.4469 \$1.4469							
12	Ending Balance	176,350	\$278,859	\$1 5813	\$1.4469							
13	October 2022 (Actual)	Therms	Cost	Therm	<u>Rate</u> <u>Gal.</u>							
14	Beginning Balance	176,350	\$278,859	\$1 5813	\$1.4469							
15	Purchases Received	81,584	\$117,761	\$1.4434	\$1.3208							
16	Total Available	257,934	\$396,621	\$1 5377	\$1.4070							
17	Less Sendout	77,885	\$119,762	\$1 5377	\$1.4070							
18	Ending Balance	180,049	\$276,859	\$1 5377	\$1.4070							
19	November 2022 (Actual)	Therms	Cost	Therm	Rate Gal.							
20	Beginning Balance	180,049	\$276,859	\$1 5377	\$1.4070							
21	Purchases Received	116,064	\$183,502	\$1 5810	\$1.4467							
22	Total Available	296,113	\$460,361	\$1 5547	\$1.4226							
23 24	Less Sendout Ending Balance	121,202 174,911	\$188,430 \$271,931	\$1 5547 \$1 5547	\$1.4226 \$1.4226							\$15
24	Eliuling Balarice	174,511	φ2/1,931	φ1 JJ4 <i>1</i>								
25	December 2022 (Actual)	Therms	Cost	<u>Therm</u>	Rate Gal.							
26	Beginning Balance	174,911	\$271,931	\$1 5547	\$1.4226							
27	Purchases Received	169,215	\$266,181	\$1 5730	\$1.4394							
28	Total Available	344,126	\$538,112	\$1 5637	\$1.4308							0.4
29 30	Less Sendout Ending Balance	192,059 152,067	\$300,324 \$237,788	\$1 5637 \$1 5637	\$1.4308 \$1.4308	_						\$1 5
31	January 2023 (Actual)	Therms	Cost	Therm	Rate Gal.							
31	January 2025 (Actuar)	<u>memis</u>	<u>0031</u>	memi	<u>Gai.</u>							
32	Beginning Balance	152,067	\$237,788	\$1 5637	\$1.4308							
33	Purchases Received	157,486	\$262,452	\$1 6665	\$1.5249							
34 35	Total Available Less Sendout	309,553 185,615	\$500,240 \$299,955	\$1 6160 \$1 6160	\$1.4787 \$1.4787							\$1.5
36	Ending Balance	123,938	\$200,285	\$1 6160	\$1.4787							ψ. σ
0.7	5 L 0000 (A L I)		0.1	-	Rate							
37	February 2023 (Actual)	Therms	Cost	Therm	Gal.							
38 39	Beginning Balance	123,938 142,818	\$200,285	\$1 6160 \$1 6509	\$1.4787 \$1.5105							
39 40	Purchases Received Total Available	266,756	\$235,762 \$436,047	\$1 6508 \$1 6346	\$1.5105 \$1.4957							
41	Less Sendout	179,206	\$292,935	\$1 6346	\$1.4957							\$1 5
42	Ending Balance	87,550	\$143,112	\$1 6346	\$1.4957	_						
43	March 2023 (Actual)	Therms	Cost	Therm	Rate Gal.							
44	Beginning Balance	87,550	\$143,112	\$1 6346	\$1.4957							
45	Purchases Received	132,923	\$209,546	\$1 5764	\$1.4425							
46	Total Available	220,473	\$352,658	\$1 5996	\$1.4636						-	
47 48	Less Sendout Ending Balance	152,084 68,389	\$243,266 \$109,392	\$1 5996 \$1 5995	\$1.4636 \$1.4636							\$1.5
40	Ending Balance	00,309	φ109,392	φ1 3993								
49	April 2023 (Actual))	Therms	Cost	Therm	Rate Gal.							
50	Beginning Balance	68,389	\$109,392	\$1 5995	\$1.4636							
51	Purchases Received	72,931	\$115,640	\$1 5856	\$1.4509							
52	Total Available	141,321	\$225,033	\$1 5924	\$1.4570							
53 54	Less Sendout Ending Balance	85,189 56,132	\$135,651 \$89,382	\$1 5924 \$1 5924	\$1.4570 \$1.4570							\$1 54
54	Littling Datatice	30,132	φυσ,302	φι 3924	φ1.40/0						_	
55		AVERAGE WIN	TER RATE -	SENDOUT								

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

