

Liberty Utilities (EnergyNorth Natural Gas) Corp.**d/b/a Liberty**

Calculation of the Projected Over or Under Collection of the

2022-2023 Winter Cost of Gas Filing

DG 22-045

December 01, 2022

Under/(Over) Collection as of 11/01/2022		\$	5,177,233
Forecasted firm Residential therm sales 12/01/2022 to 04/30/2023	43,007,330		
Residential Cost of Gas Rate per therm	\$ (1.4300)	\$	(61,500,482)
Forecasted firm Residential (GAP) therm sales 12/01/2022 to 04/30/2023	3,062,970		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.7865)	\$	(2,409,026)
Forecasted firm C&I High Winter Use therm sales 12/01/2022 to 04/30/2023	29,157,230		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (1.4301)	\$	(41,697,755)
Forecasted firm C&I Low Winter Use therm sales 12/01/2022 to 04/30/2023	5,715,278		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (1.4296)	\$	(8,170,561)
Forecasted firm Residential therm sales 11/2022	6,354,410		
Residential Cost of Gas Rate per therm	\$ (1.4300)	\$	(9,086,806)
Forecasted firm Residential (GAP) therm sales 11/2022	456,240		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.7865)	\$	(358,833)
Forecasted firm C&I High Winter Use therm sales 11/2022	4,019,330		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (1.4301)	\$	(5,748,044)
Forecasted firm C&I Low Winter Use therm sales 11/2022	1,008,196		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (1.4296)	\$	(1,441,317)
Forecast recovered costs at current rate 11/2022		\$	(130,412,824)
Estimated FPO Premium 11/01/2022 to 04/30/2023		\$	(17,213)
Projected gas costs 11/01/2022 to 04/30/2023		\$	111,209,848
Estimated interest charged (credited) to customers 11/01/2022 to 04/30/2023		\$	(117,654)
Projected under / (over) collection as of 04/30/2023 (A)		\$	(14,160,610)

Actual Gas Costs through 11/01/2022	\$	-
Revised projected gas costs 11/01/2022 to 04/30/2023	\$	111,092,193
Estimated total adjusted gas costs 11/01/2022 to 04/30/2023 (B)	\$	111,092,193

Under/ (over) collection as percent of total gas costs (A/B)	-12.75%
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Projected under / (over) collection as of 04/30/2023 (A)	\$	(14,160,610)
Forecasted firm therm sales 12/01/2022 to 04/30/2023		80,942,808
Change in rate used to reduce forecast under/(over) collection	\$	(0.1749)
Current Cost of Gas Rate 11/2022	\$	1.4300
Revised Cost of Gas Rate	\$	1.2551
Cap - Residential Cost of Gas Rate	\$	1.7875

Revised as follows:

The revised projected gas costs include the November 2022 - April 2023

NYMEX settled strip prices as of November 15, 2022.

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Projected Over or Under Collection

Without Rate Adjustment	Beginning Under/(Over)	Nov-22 (Estimate)	Dec-22 (Estimate)	Jan-23 (Estimate)	Feb-23 (Estimate)	Mar-23 (Estimate)	Apr-23 (Estimate)	Total Peak
Total Gas Costs	\$ 5,378,797	\$ 6,999,008	\$ 16,657,029	\$ 27,849,299	\$ 29,362,350	\$ 19,715,190	\$ 5,019,428	\$ 105,602,304
Adjustments and Indirect Costs								
Refunds & Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt		-	-	-	-	-	-	-
Return on Inventory per DG 20-105		85,935	85,935	85,935	85,935	85,935	85,935	515,609
Transportation Revenue		-	-	-	-	-	-	-
Broker Revenue		-	-	-	-	-	-	-
Off System and Capacity Release		-	-	-	-	-	-	-
Fixed Price Option Admin.		-	-	-	-	-	-	-
Bad Debt Costs	(170,565.5)	164,228	164,228	164,228	164,228	164,228	164,228	985,369
Working Capital	(30,998)	70,185	70,185	70,185	70,185	70,185	70,185	421,108
Misc Overhead		-	-	-	-	-	-	-
Production & Storage		614,243	614,243	614,243	614,243	614,243	614,243	3,685,458
Total Indirect Costs	\$ (201,564)	\$ 934,591	\$ 934,591	\$ 934,591	\$ 934,591	\$ 934,591	\$ 934,591	\$ 5,607,543
Interest		(17,013)	(41,873)	(42,191)	(15,370)	5,607	(6,815)	\$ (117,654)
Total Gas Costs plus Indirect Costs	\$ 5,177,233	7,916,585	17,549,747	28,741,698	30,281,571	20,655,388	5,947,203	\$ 116,269,426
Total Forecasted Sales Volumes		11,838,176	17,917,229	21,029,207	17,732,977	15,124,179	9,139,216	92,780,984
Total Forecasted Collections		\$ 16,636,125	\$ 25,190,629	\$ 29,568,663	\$ 24,931,653	\$ 21,266,360	\$ 12,836,607	\$ 130,430,036
With Rate Adjustment	Beginning Under/(Over)	Nov-22 (Estimate)	Dec-22 (Estimate)	Jan-23 (Estimate)	Feb-23 (Estimate)	Mar-23 (Estimate)	Apr-23 (Estimate)	Total Peak
Total Gas Costs		\$ 6,999,008	\$ 16,657,029	\$ 27,849,299	\$ 29,362,350	\$ 19,715,190	\$ 5,019,428	\$ 105,602,304
Adjustments and Indirect Costs								
Refunds & Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt		-	-	-	-	-	-	-
Inventory Financing		85,935	85,935	85,935	85,935	85,935	85,935	515,609
Transportation Revenue		-	-	-	-	-	-	-
Broker Revenue		-	-	-	-	-	-	-
Off System and Capacity Release		-	-	-	-	-	-	-
Fixed Price Option Admin.		-	-	-	-	-	-	-
Bad Debt Costs		164,228	164,228	164,228	164,228	164,228	164,228	985,369
Working Capital		70,185	70,185	70,185	70,185	70,185	70,185	421,108
Misc Overhead		-	-	-	-	-	-	-
Production & Storage		614,243	614,243	614,243	614,243	614,243	614,243	3,685,458
Total Indirect Costs		\$ 934,591	\$ 934,591	\$ 934,591	\$ 934,591	\$ 934,591	\$ 934,591	\$ 5,607,543
Interest		(17,013)	(41,873)	(42,191)	(15,370)	5,607	(6,815)	\$ (117,654)
Total Gas Costs plus Indirect Costs	\$ 5,177,233	7,916,585	17,549,747	28,741,698	30,281,571	20,655,388	5,947,203	\$ 116,269,426
Total Forecasted Sales Volumes		11,838,176	17,917,229	21,029,207	17,732,977	15,124,179	9,139,216	92,780,984
Total Forecasted Collections		\$ 16,636,125	\$ 22,109,922	\$ 25,952,690	\$ 21,882,834	\$ 18,665,717	\$ 11,266,907	\$ 116,514,195

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EFFECTIVE: December 1, 2022

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

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

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ISSUED BY: /s/Neil Proudman

Neil Proudman
TITLE: President

22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS

II RATE SCHEDULES

	Rates Effective December 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 95</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 92</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	\$ 1.2551	\$ 0.1086	\$ 1.8766	\$ 0.5129	\$ 1.0269	\$ 0.1086	\$ 1.6484
<u>Residential Heating - R-3</u>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
Therms in the first block per month at	\$ 0.6519	\$ 1.2551	\$ 0.1086	\$ 2.0156	\$ 0.6519	\$ 1.0269	\$ 0.1086	\$ 1.7874
<u>Residential Heating - R-4</u>								
Customer Charge per Month per Meter	\$ 8.47			\$ 8.47	\$ 15.39			\$ 15.39
Therms in the first block per month at	\$ 0.3585	\$ 0.6903	\$ 0.1086	\$ 1.1574	\$ 0.6519	\$ 1.0269	\$ 0.1086	\$ 1.7874
<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	\$ 1.2552	\$ 0.0872	\$ 1.8512	\$ 0.5088	\$ 1.0271	\$ 0.0872	\$ 1.6231
All therms over the first block per month at	\$ 0.3550	\$ 1.2552	\$ 0.0872	\$ 1.6974	\$ 0.3550	\$ 1.0271	\$ 0.0872	\$ 1.4693
<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	\$ 1.2552	\$ 0.0872	\$ 1.8058	\$ 0.4634	\$ 1.0271	\$ 0.0872	\$ 1.5777
All therms over the first block per month at	\$ 0.3212	\$ 1.2552	\$ 0.0872	\$ 1.6636	\$ 0.3212	\$ 1.0271	\$ 0.0872	\$ 1.4355
<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	\$ 1.2552	\$ 0.0872	\$ 1.6287	\$ 0.1441	\$ 1.0271	\$ 0.0872	\$ 1.2584
<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	\$ 1.2547	\$ 0.0872	\$ 1.6489	\$ 0.3070	\$ 1.0266	\$ 0.0872	\$ 1.4208
All therms over the first block per month at	\$ 0.2084	\$ 1.2547	\$ 0.0872	\$ 1.5503	\$ 0.2084	\$ 1.0266	\$ 0.0872	\$ 1.3222
<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	\$ 1.2547	\$ 0.0872	\$ 1.6066	\$ 0.1978	\$ 1.0266	\$ 0.0872	\$ 1.3116
All therms over the first block per month at	\$ 0.1836	\$ 1.2547	\$ 0.0872	\$ 1.5255	\$ 0.1219	\$ 1.0266	\$ 0.0872	\$ 1.2357
<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	\$ 1.2547	\$ 0.0872	\$ 1.5270	\$ 0.0968	\$ 1.0266	\$ 0.0872	\$ 1.2106
<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	\$ 1.2547	\$ 0.0872	\$ 1.4124	\$ 0.0409	\$ 1.0266	\$ 0.0872	\$ 1.1547

DATED: November 23, 2022

ISSUED BY: /s/Neil Proudman

EFFECTIVE: December 1, 2022

Neil Proudman
President

**24 FIRM RATE SCHEDULES – MANAGED EXPANSION PROGRAM - EXCLUDING
KEENE CUSTOMERS**

II RATE SCHEDULES

	Rates Effective December 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 95</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 92</u>	<u>LDAC Page 101</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-5</u>								
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
All therms	\$ 0.6668	\$ 1.2551	\$ 0.1086	\$ 2.0305	\$ 0.6668	\$ 1.0269	\$ 0.1086	\$ 1.8023
<u>Residential Heating - R-6</u>								
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
Therms in the first block per month at	\$ 0.8475	\$ 1.2551	\$ 0.1086	\$ 2.2112	\$ 0.8475	\$ 1.0269	\$ 0.1086	\$ 1.9830
<u>Residential Heating - R-7</u>								
Customer Charge per Month per Meter	\$ 11.01			\$ 11.01	\$ 20.01			\$ 20.01
Therms in the first block per month at	\$ 0.4661	\$ 0.6903	\$ 0.1086	\$ 1.2650	\$ 0.8475	\$ 1.0269	\$ 0.1086	\$ 1.9830
<u>Commercial/Industrial - G-44</u>								
Customer Charge per Month per Meter	\$ 82.29			\$ 82.29	\$ 82.29			\$ 82.29
Size of the first block	100 Therms				20 Therms			
Therms in the first block per month at	\$ 0.6614	\$ 1.2552	\$ 0.0872	\$ 2.0038	\$ 0.6614	\$ 1.0271	\$ 0.0872	\$ 1.7757
All therms over the first block per month at	\$ 0.4614	\$ 1.2552	\$ 0.0872	\$ 1.8038	\$ 0.4614	\$ 1.0271	\$ 0.0872	\$ 1.5757
<u>Commercial/Industrial - G-45</u>								
Customer Charge per Month per Meter	\$ 246.78			\$ 246.78	\$ 246.78			\$ 246.78
Size of the first block	1000 Therms				400 Therms			
Therms in the first block per month at	\$ 0.6023	\$ 1.2552	\$ 0.0872	\$ 1.9447	\$ 0.6023	\$ 1.0271	\$ 0.0872	\$ 1.7166
All therms over the first block per month at	\$ 0.4175	\$ 1.2552	\$ 0.0872	\$ 1.7599	\$ 0.4175	\$ 1.0271	\$ 0.0872	\$ 1.5318
<u>Commercial/Industrial - G-46</u>								
Customer Charge per Month per Meter	\$ 1,055.58			\$ 1,055.58	\$1,055.58			\$1,055.58
All therms over the first block per month at	\$ 0.3722	\$ 1.2552	\$ 0.0872	\$ 1.7146	\$ 0.1873	\$ 1.0271	\$ 0.0872	\$ 1.3016
<u>Commercial/Industrial - G-55</u>								
Customer Charge per Month per Meter	\$ 82.39			\$ 82.39	\$ 82.39			\$ 82.39
Size of the first block	100 Therms				100 Therms			
Therms in the first block per month at	\$ 0.3992	\$ 1.2547	\$ 0.0872	\$ 1.7411	\$ 0.3992	\$ 1.0266	\$ 0.0872	\$ 1.5130
All therms over the first block per month at	\$ 0.2710	\$ 1.2547	\$ 0.0872	\$ 1.6129	\$ 0.2710	\$ 1.0266	\$ 0.0872	\$ 1.3848
<u>Commercial/Industrial - G-56</u>								
Customer Charge per Month per Meter	\$ 246.43			\$ 246.43	\$ 246.43			\$ 246.43
Size of the first block	1000 Therms				1000 Therms			
Therms in the first block per month at	\$ 0.3442	\$ 1.2547	\$ 0.0872	\$ 1.6861	\$ 0.2572	\$ 1.0266	\$ 0.0872	\$ 1.3710
All therms over the first block per month at	\$ 0.2387	\$ 1.2547	\$ 0.0872	\$ 1.5806	\$ 0.1585	\$ 1.0266	\$ 0.0872	\$ 1.2723
<u>Commercial/Industrial - G-57</u>								
Customer Charge per Month per Meter	\$ 1,090.08			\$ 1,090.08	\$1,090.08			\$1,090.08
All therms over the first block per month at	\$ 0.2407	\$ 1.2547	\$ 0.0872	\$ 1.5826	\$ 0.1259	\$ 1.0266	\$ 0.0872	\$ 1.2397
<u>Commercial/Industrial - G-58</u>								
Customer Charge per Month per Meter	\$ 1,090.95			\$ 1,090.95	\$1,090.95			\$1,090.95
All therms over the first block per month at	\$ 0.0916	\$ 1.2547	\$ 0.0872	\$ 1.4335	\$ 0.0531	\$ 1.0266	\$ 0.0872	\$ 1.1669

DATED: November 23, 2022

ISSUED BY: /s/Neil Proudman

EFFECTIVE: December 1, 2022

Neil Proudman
President

30 CALCULATION OF FIRM SALES WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2022 THROUGH APRIL 30, 2023
(Refer to Text in Section 17 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 127,589,939	
Projected Prorated Sales (11/01/2022 - 04/30/2023)	92,780,984	
Direct Cost of Gas Rate		\$ 1.3752 per therm
Demand Cost of Gas Rate	\$ 12,510,219	\$ 0.1348 per therm
Commodity Cost of Gas Rate	117,533,374	\$ 1.2668 per therm
Adjustment Cost of Gas Rate	3,568,556	\$ 0.0385 per therm
Hedge Contract (Savings)	(6,022,210)	\$ (0.0649) per therm
Total Direct Cost of Gas Rate	\$ 127,589,939	\$ 1.3752 per therm
Total Anticipated Indirect Cost of Gas	\$ 5,082,758	
Projected Prorated Sales (11/01/2022 - 04/30/2023)	92,780,984	
Indirect Cost of Gas		\$ 0.0548 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/22		\$ 1.4300 per therm
RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 11/01/22	COGwr	\$ 1.4300 /therm
Change in rate due to revised under/over recovery projection		\$ (0.1749)
RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 12/01/22	COGwr	\$ 1.2551 /therm
	Maximum (COG + 25%)	\$ 1.7875
GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 11/01/22	COGwr	\$ 0.7865 /therm
Change in rate due to revised under/over recovery projection		\$ (0.0962)
GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 12/01/22	COGwr	\$ 0.6903 /therm
	Maximum (COG + 25%)	\$ 0.9831
C&I HIGH WINTER USE COST OF GAS RATE - 11/01/22	COGwh	\$ 1.4301 /therm
Change in rate due to revised under/over recovery projection		\$ (0.1749)
C&I HIGH WINTER USE COST OF GAS RATE - 12/01/22	COGwh	\$ 1.2552 /therm
Average Demand Cost of Gas Rate Effective 11/01/22	\$ 0.1348	Maximum (COG + 25%) \$ 1.7876
Times: High Winter Use Ratio (Winter)	1.0005	
Times: Correction Factor	1.0001	
Adjusted Demand Cost of Gas Rate	\$ 0.1349	
Commodity Cost of Gas Rate	\$ 1.2668	
Adjustment Cost of Gas Rate	\$ 0.0385	
Indirect Cost of Gas Rate	\$ 0.0548	
Hedge Contract (Savings)	\$ (0.0649)	
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 1.4301	
C&I LOW WINTER USE COST OF GAS RATE - 11/01/22	COGwl	\$ 1.4296 /therm
Change in rate due to revised under/over recovery projection		\$ (0.1749)
C&I LOW WINTER USE COST OF GAS RATE - 12/01/22	COGwl	\$ 1.2547 /therm
Average Demand Cost of Gas Rate Effective 11/01/22	\$ 0.1348	Maximum (COG + 25%) \$ 1.7870
Times: Low Winter Use Ratio (Winter)	0.9971	
Times: Correction Factor	1.0001	
Adjusted Demand Cost of Gas Rate	\$ 0.1344	
Commodity Cost of Gas Rate	\$ 1.2668	
Adjustment Cost of Gas Rate	\$ 0.0385	
Indirect Cost of Gas Rate	\$ 0.0548	
Hedge Contract (Savings)	\$ (0.0649)	
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 1.4296	

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Neil Proudman
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