

**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

January 01, 2023

Under/(Over) Collection as of 12/01/2022		\$	(6,011,577)
Forecasted firm Residential therm sales 01/01/2023 to 04/30/2023	33,457,700		
Residential Cost of Gas Rate per therm	\$ (1.2551)	\$	(41,992,759)
Forecasted firm Residential (GAP) therm sales 01/01/2023 to 04/30/2023	2,389,320		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.6903)	\$	(1,649,348)
Forecasted firm C&I High Winter Use therm sales 01/01/2023 to 04/30/2023	22,733,750		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (1.2552)	\$	(28,535,403)
Forecasted firm C&I Low Winter Use therm sales 01/01/2023 to 04/30/2023	4,444,809		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (1.2547)	\$	(5,576,902)
Forecasted firm Residential therm sales 12/2022	9,549,630		
Residential Cost of Gas Rate per therm	\$ (1.2551)	\$	(11,985,741)
Forecasted firm Residential (GAP) therm sales 12/2022	673,650		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.6903)	\$	(465,021)
Forecasted firm C&I High Winter Use therm sales 12/2022	6,423,480		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (1.2552)	\$	(8,062,752)
Forecasted firm C&I Low Winter Use therm sales 12/2022	1,270,469		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (1.2547)	\$	(1,594,057)
Forecast recovered costs at current rate 12/2022		\$	(99,861,982)
Estimated FPO Premium 12/01/2022 to 04/30/2023		\$	(16,088)
Projected gas costs 12/01/2022 to 04/30/2023		\$	110,655,837
Estimated interest charged (credited) to customers 12/01/2022 to 04/30/2023		\$	(94,974)
Projected under / (over) collection as of 04/30/2023 (A)		\$	<b>4,671,216</b>

Actual Gas Costs through 12/01/2022	\$	15,942,169
Revised projected gas costs 12/01/2022 to 04/30/2023	\$	110,560,863
Estimated total adjusted gas costs 12/01/2022 to 04/30/2023 (B)	\$	<b>126,503,031</b>

Under/ (over) collection as percent of total gas costs (A/B)	3.69%
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Projected under / (over) collection as of 04/30/2023 (A)	\$	4,671,216
Forecasted firm therm sales 01/01/2023 to 04/30/2023		63,025,579
Change in rate used to reduce forecast under/(over) collection	\$	0.0741
Current Cost of Gas Rate 12/2022	\$	1.2551
Revised Cost of Gas Rate	\$	1.3292
Cap - Residential Cost of Gas Rate	\$	1.7875

Revised as follows:

The revised projected gas costs include the December 2022 - April 2023  
NYMEX settled strip prices as of December 16, 2022.

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

Without Rate Adjustment	Apr-22 Ending Balance Under/(Over)	May to Oct-22 (Actual)	Nov-22 (Actual)	Dec-22 (Estimate)	Jan-23 (Estimate)	Feb-23 (Estimate)	Mar-23 (Estimate)	Apr-23 (Estimate)	Total Peak Includes prior Under/(Over)	Last Filing 11/23/2022 Including Beginning Balances	Change 12/22/2022
Total Gas Costs	\$ 5,378,797	\$ 3,852,900	\$ 6,227,945	\$ 19,298,295	\$ 29,320,744	\$ 30,662,055	\$ 21,182,870	\$ 5,442,718	\$ 121,366,324	\$ 110,981,101	\$ 10,385,223
Adjustments and Indirect Costs											
Refunds & Adjustments											
COG Bad Debt											
Return on Inventory per DG 20-105			\$ 83,406	\$ 85,935	\$ 85,935	\$ 85,935	\$ 85,935	\$ 85,935	\$ 513,080	\$ 515,609	\$ (2,528)
Transportation Revenue											
Broker Revenue											
Off System and Capacity Release											
Fixed Price Option Admin.		40,685							40,685		40,685
Bad Debt Costs	(170,565.5)	(51,867)	53,768	174,751	174,751	174,751	174,751	174,751	705,091	814,804	(109,713)
Working Capital	(30,998)	(16,939)	24,149	74,902	74,902	74,902	74,902	74,902	350,723	390,109	(39,386)
Misc Overhead											
Production & Storage			614,243	614,243	614,243	614,243	614,243	614,243	3,685,458	3,685,458	
Total Indirect Costs	\$ (201,564)	\$ (28,121)	\$ 775,567	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 5,295,037	\$ 5,405,980	\$ (110,943)
Interest		\$ (8,683)	\$ (54,672)	\$ (43,005)	\$ (40,376)	\$ (14,126)	\$ 7,562	\$ (5,029)	\$ (158,329)	\$ (117,654)	\$ (40,675)
Total Gas Costs plus Indirect Costs	\$ 5,177,233	\$ 3,816,096	\$ 6,948,840	\$ 20,205,121	\$ 30,230,199	\$ 31,597,760	\$ 22,140,263	\$ 6,387,520	\$ 126,503,031	\$ 116,269,426	\$ 10,233,605
Total Actual/Forecasted Sales Volumes (including unbilled)			16,383,192	17,917,229	21,029,207	17,732,977	15,124,179	9,139,216	97,326,000	92,780,984	4,545,016
Total Actual/Forecasted Collections (including unbilled)	\$ 1,356,641	\$ 1,356,641	\$ 20,597,104	\$ 22,109,922	\$ 25,952,690	\$ 21,882,834	\$ 18,665,717	\$ 11,266,907	\$ 121,831,816	\$ 130,430,036	\$ (8,598,221)
Ending Balance	\$ 5,177,233	\$ 7,636,688	\$ (6,011,577)	\$ (7,916,377)	\$ (3,638,869)	\$ 6,076,057	\$ 9,550,603	\$ 4,671,216	\$ 4,671,216	\$ (14,160,610)	\$ 18,831,826
With Rate Adjustment	Apr-22 Under/(Over)	May to Oct-22 (Actual)	Nov-22 (Actual)	Dec-22 (Estimate)	Jan-23 (Estimate)	Feb-23 (Estimate)	Mar-23 (Estimate)	Apr-23 (Estimate)	Total Peak		
Total Gas Costs	\$ 5,378,797	\$ 3,852,900	\$ 6,227,945	\$ 19,298,295	\$ 29,320,744	\$ 30,662,055	\$ 21,182,870	\$ 5,442,718	\$ 121,366,324	\$ 110,981,101	\$ 10,385,223
Adjustments and Indirect Costs											
Refunds & Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt	-	-	-	-	-	-	-	-	-	-	-
Inventory Financing	-	-	83,406	85,935	85,935	85,935	85,935	85,935	513,080	515,609	(2,528)
Transportation Revenue	-	-	-	-	-	-	-	-	-	-	-
Broker Revenue	-	-	-	-	-	-	-	-	-	-	-
Off System and Capacity Release	-	-	-	-	-	-	-	-	-	-	-
Fixed Price Option Admin.	-	40,685	-	-	-	-	-	-	40,685	-	40,685
Bad Debt Costs	(170,566)	(51,867)	53,768	174,751	174,751	174,751	174,751	174,751	705,091	814,804	(109,713)
Working Capital	(30,998)	(16,939)	24,149	74,902	74,902	74,902	74,902	74,902	350,723	390,109	(39,386)
Misc Overhead	-	-	-	-	-	-	-	-	-	-	-
Production & Storage	-	-	614,243	614,243	614,243	614,243	614,243	614,243	3,685,458	3,685,458	
Total Indirect Costs	\$ (201,564)	\$ (28,121)	\$ 775,567	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 5,295,037	\$ 5,405,980	\$ (110,943)
Interest	-	(8,683)	(54,672)	(43,005)	(40,376)	(14,126)	7,562	(5,029)	(158,329)	(117,654)	(40,675)
Total Gas Costs plus Indirect Costs	\$ 5,177,233	\$ 3,816,096	\$ 6,948,840	\$ 20,205,121	\$ 30,230,199	\$ 31,597,760	\$ 22,140,263	\$ 6,387,520	\$ 126,503,031	\$ 116,269,426	\$ 10,233,605
Total Actual/Forecasted Sales Volumes (including unbilled)			16,383,192	17,917,229	21,029,207	17,732,977	15,124,179	9,139,216	97,326,000	92,780,984	4,545,016
Total Actual/Forecasted Collections (including unbilled)	\$ 1,356,641	\$ 1,356,641	\$ 20,597,104	\$ 22,109,922	\$ 27,484,706	\$ 23,174,558	\$ 19,767,557	\$ 11,931,959	\$ 126,422,447	\$ 116,514,195	\$ 9,908,252
Ending Balance	\$ 5,177,233	\$ 7,636,688	\$ (6,011,577)	\$ (7,916,378)	\$ (5,170,885)	\$ 3,252,317	\$ 5,625,023	\$ 80,584	\$ 80,584	\$ (244,769)	\$ 325,353

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DATED: December 22, 2022

ISSUED BY: /s/Neil Proudman

EFFECTIVE: January 1, 2023

Neil Proudman  
TITLE: President

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DATED: December 22, 2022

ISSUED BY: /s/Neil Proudman  
Neil Proudman

EFFECTIVE: January 1, 2023

TITLE: President

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DATED: December 22, 2022

ISSUED BY: /s/Neil Proudman  
Neil Proudman

EFFECTIVE: January 1, 2023

TITLE: President

**22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS**

**II RATE SCHEDULES**

	Rates Effective January 1, 2023 - April 30, 2023				Rates Effective May 1, 2023 - October 31, 2023			
	Winter Period				Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
<b><u>Residential Non Heating - R-1</u></b>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
All therms	\$ 0.5129	\$ 1.3292	\$ 0.1113	\$ 1.9534	\$ 0.5129	\$ 1.0269	\$ 0.1113	\$ 1.6511
<b><u>Residential Heating - R-3</u></b>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
Therms in the first block per month at	\$ 0.6519	\$ 1.3292	\$ 0.1113	\$ 2.0924	\$ 0.6519	\$ 1.0269	\$ 0.1113	\$ 1.7901
<b><u>Residential Heating - R-4</u></b>								
Customer Charge per Month per Meter	\$ 8.47			\$ 8.47	\$ 15.39			\$ 15.39
Therms in the first block per month at	\$ 0.3585	\$ 0.7311	\$ 0.1113	\$ 1.2009	\$ 0.6519	\$ 1.0269	\$ 0.1113	\$ 1.7901
<b><u>Commercial/Industrial - G-41</u></b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.9271	\$ 0.5088	\$ 1.0271	\$ 0.0890	\$ 1.6249
All therms over the first block per month at	\$ 0.3550	\$ 1.3293	\$ 0.0890	\$ 1.7733	\$ 0.3550	\$ 1.0271	\$ 0.0890	\$ 1.4711
<b><u>Commercial/Industrial - G-42</u></b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.8817	\$ 0.4634	\$ 1.0271	\$ 0.0890	\$ 1.5795
All therms over the first block per month at	\$ 0.3212	\$ 1.3293	\$ 0.0890	\$ 1.7395	\$ 0.3212	\$ 1.0271	\$ 0.0890	\$ 1.4373
<b><u>Commercial/Industrial - G-43</u></b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.7046	\$ 0.1441	\$ 1.0271	\$ 0.0890	\$ 1.2602
<b><u>Commercial/Industrial - G-51</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.7248	\$ 0.3070	\$ 1.0266	\$ 0.0890	\$ 1.4226
All therms over the first block per month at	\$ 0.2084	\$ 1.3288	\$ 0.0890	\$ 1.6262	\$ 0.2084	\$ 1.0266	\$ 0.0890	\$ 1.3240
<b><u>Commercial/Industrial - G-52</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.6825	\$ 0.1978	\$ 1.0266	\$ 0.0890	\$ 1.3134
All therms over the first block per month at	\$ 0.1836	\$ 1.3288	\$ 0.0890	\$ 1.6014	\$ 0.1219	\$ 1.0266	\$ 0.0890	\$ 1.2375
<b><u>Commercial/Industrial - G-53</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.6029	\$ 0.0968	\$ 1.0266	\$ 0.0890	\$ 1.2124
<b><u>Commercial/Industrial - G-54</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.4883	\$ 0.0409	\$ 1.0266	\$ 0.0890	\$ 1.1565

DATED: December 22, 2022

EFFECTIVE: January 1, 2023

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

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

**II RATE SCHEDULES**

	Rates Effective January 1, 2023 - April 30, 2023				Rates Effective May 1, 2023 - October 31, 2023			
	Winter Period				Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
<b><u>Residential Non Heating - R-5</u></b>								
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
All therms	\$ 0.6668	\$ 1.3292	\$ 0.1113	\$ 2.1073	\$ 0.6668	\$ 1.0269	\$ 0.1113	\$ 1.8050
<b><u>Residential Heating - R-6</u></b>								
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
Therms in the first block per month at	\$ 0.8475	\$ 1.3292	\$ 0.1113	\$ 2.2880	\$ 0.8475	\$ 1.0269	\$ 0.1113	\$ 1.9857
<b><u>Residential Heating - R-7</u></b>								
Customer Charge per Month per Meter	\$ 11.01			\$ 11.01	\$ 20.01			\$ 20.01
Therms in the first block per month at	\$ 0.4661	\$ 0.7311	\$ 0.1113	\$ 1.3085	\$ 0.8475	\$ 1.0269	\$ 0.1113	\$ 1.9857
<b><u>Commercial/Industrial - G-44</u></b>								
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	\$ 1.3293	\$ 0.0890	\$ 2.0797	\$ 0.6614	\$ 1.0271	\$ 0.0890	\$ 1.7775
All therms over the first block per month at	\$ 0.4614	\$ 1.3293	\$ 0.0890	\$ 1.8797	\$ 0.4614	\$ 1.0271	\$ 0.0890	\$ 1.5775
<b><u>Commercial/Industrial - G-45</u></b>								
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	\$ 1.3293	\$ 0.0890	\$ 2.0206	\$ 0.6023	\$ 1.0271	\$ 0.0890	\$ 1.7184
All therms over the first block per month at	\$ 0.4175	\$ 1.3293	\$ 0.0890	\$ 1.8358	\$ 0.4175	\$ 1.0271	\$ 0.0890	\$ 1.5336
<b><u>Commercial/Industrial - G-46</u></b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.7905	\$ 0.1873	\$ 1.0271	\$ 0.0890	\$ 1.3034
<b><u>Commercial/Industrial - G-55</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.8170	\$ 0.3992	\$ 1.0266	\$ 0.0890	\$ 1.5148
All therms over the first block per month at	\$ 0.2710	\$ 1.3288	\$ 0.0890	\$ 1.6888	\$ 0.2710	\$ 1.0266	\$ 0.0890	\$ 1.3866
<b><u>Commercial/Industrial - G-56</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.7620	\$ 0.2572	\$ 1.0266	\$ 0.0890	\$ 1.3728
All therms over the first block per month at	\$ 0.2387	\$ 1.3288	\$ 0.0890	\$ 1.6565	\$ 0.1585	\$ 1.0266	\$ 0.0890	\$ 1.2741
<b><u>Commercial/Industrial - G-57</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.6585	\$ 0.1259	\$ 1.0266	\$ 0.0890	\$ 1.2415
<b><u>Commercial/Industrial - G-58</u></b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.5094	\$ 0.0531	\$ 1.0266	\$ 0.0890	\$ 1.1687

DATED: December 22, 2022

ISSUED BY: /s/Neil Proudman

EFFECTIVE: January 1, 2023

Neil Proudman  
TITLE: 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	
<b>Direct Cost of Gas Rate</b>		<b>\$ 1.3752 per therm</b>
<b>Demand Cost of Gas Rate</b>	<b>\$ 12,510,219</b>	<b>\$ 0.1348 per therm</b>
<b>Commodity Cost of Gas Rate</b>	<b>117,533,374</b>	<b>\$ 1.2668 per therm</b>
<b>Adjustment Cost of Gas Rate</b>	<b>3,568,556</b>	<b>\$ 0.0385 per therm</b>
<b>Hedge Contract (Savings)</b>	<b>(6,022,210)</b>	<b>\$ (0.0649) per therm</b>
<b>Total Direct Cost of Gas Rate</b>	<b>\$ 127,589,939</b>	<b>\$ 1.3752 per therm</b>
Total Anticipated Indirect Cost of Gas	\$ 5,082,758	
Projected Prorated Sales (11/01/2022 - 04/30/2023)	92,780,984	
<b>Indirect Cost of Gas</b>		<b>\$ 0.0548 per therm</b>
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/22</b>		<b>\$ 1.4300 per therm</b>
<b>RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 11/01/22</b>	<b>COGwr</b>	<b>\$ 1.4300 /therm</b>
Change in rate due to revised under/over recovery projection		\$ (0.1749)
<b>RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 12/01/22</b>	<b>COGwr</b>	<b>\$ 1.2551 /therm</b>
Change in rate due to revised under/over recovery projection		\$ 0.0741
<b>RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 01/01/23</b>	<b>COGwr</b>	<b>\$ 1.3292 /therm</b>
	Maximum (COG + 25%)	\$ 1.7875
<b>GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 11/01/22</b>	<b>COGwr</b>	<b>\$ 0.7865 /therm</b>
Change in rate due to revised under/over recovery projection		\$ (0.0962)
<b>GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 12/01/22</b>	<b>COGwr</b>	<b>\$ 0.6903 /therm</b>
Change in rate due to revised under/over recovery projection		\$ 0.0408
<b>GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 01/01/23</b>	<b>COGwr</b>	<b>\$ 0.7311 /therm</b>
	Maximum (COG + 25%)	\$ 0.9831
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 11/01/22</b>	<b>COGwh</b>	<b>\$ 1.4301 /therm</b>
Change in rate due to revised under/over recovery projection		\$ (0.1749)
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 12/01/22</b>	<b>COGwh</b>	<b>\$ 1.2552 /therm</b>
Change in rate due to revised under/over recovery projection		\$ 0.0741
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 01/01/23</b>	<b>COGwh</b>	<b>\$ 1.3293 /therm</b>
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	
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 11/01/22</b>	<b>COGwl</b>	<b>\$ 1.4296 /therm</b>
Change in rate due to revised under/over recovery projection		\$ (0.1749)
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 12/01/22</b>	<b>COGwl</b>	<b>\$ 1.2547 /therm</b>
Change in rate due to revised under/over recovery projection		\$ 0.0741
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 01/01/23</b>	<b>COGwl</b>	<b>\$ 1.3288 /therm</b>
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	

DATED: December 22, 2022

ISSUED BY: /s/Neil Proudman

EFFECTIVE: January 1, 2023

Neil Proudman  
TITLE: President



**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

January 01, 2023

Under/(Over) Collection as of 12/01/2022		\$	(6,011,577)
Forecasted firm Residential therm sales 01/01/2023 to 04/30/2023	33,457,700		
Residential Cost of Gas Rate per therm	\$ (1.2551)	\$	(41,992,759)
Forecasted firm Residential (GAP) therm sales 01/01/2023 to 04/30/2023	2,389,320		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.6903)	\$	(1,649,348)
Forecasted firm C&I High Winter Use therm sales 01/01/2023 to 04/30/2023	22,733,750		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (1.2552)	\$	(28,535,403)
Forecasted firm C&I Low Winter Use therm sales 01/01/2023 to 04/30/2023	4,444,809		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (1.2547)	\$	(5,576,902)
Forecasted firm Residential therm sales 12/2022	9,549,630		
Residential Cost of Gas Rate per therm	\$ (1.2551)	\$	(11,985,741)
Forecasted firm Residential (GAP) therm sales 12/2022	673,650		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.6903)	\$	(465,021)
Forecasted firm C&I High Winter Use therm sales 12/2022	6,423,480		
C&I- High Winter Use Cost of Gas Rate per therm	\$ (1.2552)	\$	(8,062,752)
Forecasted firm C&I Low Winter Use therm sales 12/2022	1,270,469		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (1.2547)	\$	(1,594,057)
Forecast recovered costs at current rate 12/2022		\$	(99,861,982)
Estimated FPO Premium 12/01/2022 to 04/30/2023		\$	(16,088)
Projected gas costs 12/01/2022 to 04/30/2023		\$	110,655,837
Estimated interest charged (credited) to customers 12/01/2022 to 04/30/2023		\$	(94,974)
Projected under / (over) collection as of 04/30/2023 (A)		\$	<b>4,671,216</b>

Actual Gas Costs through 12/01/2022	\$	15,942,169
Revised projected gas costs 12/01/2022 to 04/30/2023	\$	110,560,863
Estimated total adjusted gas costs 12/01/2022 to 04/30/2023 (B)	\$	<b>126,503,031</b>

Under/ (over) collection as percent of total gas costs (A/B)	3.69%
--	-------

Projected under / (over) collection as of 04/30/2023 (A)	\$	4,671,216
Forecasted firm therm sales 01/01/2023 to 04/30/2023		63,025,579
Change in rate used to reduce forecast under/(over) collection	\$	0.0741
Current Cost of Gas Rate 12/2022	\$	1.2551
Revised Cost of Gas Rate	\$	1.3292
Cap - Residential Cost of Gas Rate	\$	1.7875

Revised as follows:

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

NYMEX settled strip prices as of December 16, 2022.

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

Without Rate Adjustment	Apr-22 Ending Balance Under/(Over)	May to Oct-22 (Actual)	Nov-22 (Actual)	Dec-22 (Estimate)	Jan-23 (Estimate)	Feb-23 (Estimate)	Mar-23 (Estimate)	Apr-23 (Estimate)	Total Peak Includes prior Under/(Over)	Last Filing 11/23/2022 Including Beginning Balances	Change 12/22/2022
Total Gas Costs	\$ 5,378,797	\$ 3,852,900	\$ 6,227,945	\$ 19,298,295	\$ 29,320,744	\$ 30,662,055	\$ 21,182,870	\$ 5,442,718	\$ 121,366,324	\$ -140,984,104	\$ 10,385,223
Adjustments and Indirect Costs											
Refunds & Adjustments											
COG Bad Debt											
Return on Inventory per DG 20-105			\$ 83,406	\$ 85,935	\$ 85,935	\$ 85,935	\$ 85,935	\$ 85,935	\$ 513,080	\$ -545,609	\$ (2,528)
Transportation Revenue											
Broker Revenue											
Off System and Capacity Release											
Fixed Price Option Admin.		40,685							40,685		40,685
Bad Debt Costs	(170,565.5)	(51,867)	53,768	174,751	174,751	174,751	174,751	174,751	705,091	814,804	(109,713)
Working Capital	(30,998)	(16,939)	24,149	74,902	74,902	74,902	74,902	74,902	350,723	390,109	(39,386)
Misc Overhead											
Production & Storage			614,243	614,243	614,243	614,243	614,243	614,243	3,685,458	3,685,458	
Total Indirect Costs	\$ (201,564)	\$ (28,121)	\$ 775,567	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 5,295,037	\$ -5,405,980	\$ (110,943)
Interest		\$ (8,683)	\$ (54,672)	\$ (43,005)	\$ (40,376)	\$ (14,126)	\$ 7,562	\$ (5,029)	\$ (158,329)	\$ -117,654	\$ (40,675)
Total Gas Costs plus Indirect Costs	\$ 5,177,233	\$ 3,816,096	\$ 6,948,840	\$ 20,205,121	\$ 30,230,199	\$ 31,597,760	\$ 22,140,263	\$ 6,387,520	\$ 126,503,031	\$ -146,269,426	\$ 10,233,605
Total Actual/Forecasted Sales Volumes (including unbilled)			16,383,192	17,917,229	21,029,207	17,732,977	15,124,179	9,139,216	97,326,000	92,780,984	4,545,016
Total Actual/Forecasted Collections (including unbilled)		\$ 1,356,641	\$ 20,597,104	\$ 22,109,922	\$ 25,952,690	\$ 21,882,834	\$ 18,665,717	\$ 11,266,907	\$ 121,831,816	\$ -130,430,036	\$ (8,598,221)
Ending Balance	\$ 5,177,233	\$ 7,636,688	\$ (6,011,577)	\$ (7,916,377)	\$ (3,638,869)	\$ 6,076,057	\$ 9,550,603	\$ 4,671,216	\$ 4,671,216	\$ -14,160,640	\$ 18,831,826
With Rate Adjustment	Apr-22 Under/(Over)	May to Oct-22 (Actual)	Nov-22 (Actual)	Dec-22 (Estimate)	Jan-23 (Estimate)	Feb-23 (Estimate)	Mar-23 (Estimate)	Apr-23 (Estimate)	Total Peak	-	-
Total Gas Costs	\$ 5,378,797	\$ 3,852,900	\$ 6,227,945	\$ 19,298,295	\$ 29,320,744	\$ 30,662,055	\$ 21,182,870	\$ 5,442,718	\$ 121,366,324	\$ -140,984,104	\$ 10,385,223
Adjustments and Indirect Costs											
Refunds & Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
COG Bad Debt	-	-	-	-	-	-	-	-	-	-	-
Inventory Financing	-	-	83,406	85,935	85,935	85,935	85,935	85,935	513,080	545,609	(2,528)
Transportation Revenue	-	-	-	-	-	-	-	-	-	-	-
Broker Revenue	-	-	-	-	-	-	-	-	-	-	-
Off System and Capacity Release	-	-	-	-	-	-	-	-	-	-	-
Fixed Price Option Admin.	-	40,685	-	-	-	-	-	-	40,685	-	40,685
Bad Debt Costs	(170,566)	(51,867)	53,768	174,751	174,751	174,751	174,751	174,751	705,091	814,804	(109,713)
Working Capital	(30,998)	(16,939)	24,149	74,902	74,902	74,902	74,902	74,902	350,723	390,109	(39,386)
Misc Overhead	-	-	-	-	-	-	-	-	-	-	-
Production & Storage	-	-	614,243	614,243	614,243	614,243	614,243	614,243	3,685,458	3,685,458	
Total Indirect Costs	\$ (201,564)	\$ (28,121)	\$ 775,567	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 949,831	\$ 5,295,037	\$ -5,405,980	\$ (110,943)
Interest	-	(8,683)	(54,672)	(43,005)	(40,376)	(14,126)	7,562	(5,029)	(158,329)	(117,654)	(40,675)
Total Gas Costs plus Indirect Costs	\$ 5,177,233	\$ 3,816,096	\$ 6,948,840	\$ 20,205,121	\$ 30,230,199	\$ 31,597,760	\$ 22,140,263	\$ 6,387,520	\$ 126,503,031	\$ -146,269,426	\$ 10,233,605
Total Actual/Forecasted Sales Volumes (including unbilled)			16,383,192	17,917,229	21,029,207	17,732,977	15,124,179	9,139,216	97,326,000	92,780,984	4,545,016
Total Actual/Forecasted Collections (including unbilled)		\$ 1,356,641	\$ 20,597,104	\$ 22,109,922	\$ 27,484,706	\$ 23,174,558	\$ 19,767,557	\$ 11,931,959	\$ 126,422,447	\$ -146,544,195	\$ 9,908,252
Ending Balance	\$ 5,177,233	\$ 7,636,688	\$ (6,011,577)	\$ (7,916,378)	\$ (5,170,885)	\$ 3,252,317	\$ 5,625,023	\$ 80,584	\$ 80,584	\$ -244,769	\$ 325,353

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2	Third Revised
3	Thirty- <del>fourth</del> - <del>fifth</del> Revised
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DATED: December ~~22~~, 2022

EFFECTIVE: January 1, 2023

ISSUED BY: /s/Neil Proudman

Neil Proudman

TITLE: President

Authorized by NHPUC Order No. 26,71~~6~~~~5~~ dated October 31, 2022, in Docket No. DG 22-0~~4~~~~5~~~~7~~ and RSA 374 F:3, VI a (d)(2)

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88	Twenty-first Revised
89	<del>Eighteenth-Nineteenth</del> Revised

DATED: December ~~22~~, 2022

EFFECTIVE: January 1, 2023

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

Authorized by NHPUC Order No. 26,71~~6~~<sub>5</sub> dated October 31, 2022, in Docket No. DG 20-0~~5745~~<sub>5</sub> and RSA 374 F:3, VI a (d)(2)

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DATED: December ~~22~~, 2022

EFFECTIVE: January 1, 2023

ISSUED BY: /s/Neil Proudman  
Neil Proudman

TITLE: President

## 22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS

### II RATE SCHEDULES

	Rates Effective January 1, 2023 - April 30, 2023 Winter Period				Rates Effective May 1, 2023 - October 31, 2023 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
<b>Residential Non Heating - R-1</b>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
All therms	\$ 0.5129	\$ 1.3292	\$ 0.1113	\$ 1.9534	\$ 0.5129	\$ 1.0269	\$ 0.1113	\$ 1.6511
		<del>\$ 1.2551</del>		<del>\$ 1.8793</del>				
<b>Residential Heating - R-3</b>								
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
Therms in the first block per month at	\$ 0.6519	\$ 1.3292	\$ 0.1113	\$ 2.0924	\$ 0.6519	\$ 1.0269	\$ 0.1113	\$ 1.7901
		<del>\$ 1.2551</del>		<del>\$ 2.0183</del>				
<b>Residential Heating - R-4</b>								
Customer Charge per Month per Meter	\$ 8.47			\$ 8.47	\$ 15.39			\$ 15.39
Therms in the first block per month at	\$ 0.3585	\$ 0.7311	\$ 0.1113	\$ 1.2009	\$ 0.6519	\$ 1.0269	\$ 0.1113	\$ 1.7901
		<del>\$ 0.6903</del>		<del>\$ 1.1604</del>				
<b>Commercial/Industrial - G-41</b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.9271	\$ 0.5088	\$ 1.0271	\$ 0.0890	\$ 1.6249
		<del>\$ 1.2552</del>		<del>\$ 1.8530</del>				
All therms over the first block per month at	\$ 0.3550	\$ 1.3293	\$ 0.0890	\$ 1.7733	\$ 0.3550	\$ 1.0271	\$ 0.0890	\$ 1.4711
		<del>\$ 1.2552</del>		<del>\$ 1.6992</del>				
<b>Commercial/Industrial - G-42</b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.8817	\$ 0.4634	\$ 1.0271	\$ 0.0890	\$ 1.5795
		<del>\$ 1.2552</del>		<del>\$ 1.8076</del>				
All therms over the first block per month at	\$ 0.3212	\$ 1.3293	\$ 0.0890	\$ 1.7395	\$ 0.3212	\$ 1.0271	\$ 0.0890	\$ 1.4373
		<del>\$ 1.2552</del>		<del>\$ 1.6654</del>				
<b>Commercial/Industrial - G-43</b>								
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	\$ 1.3293	\$ 0.0890	\$ 1.7046	\$ 0.1441	\$ 1.0271	\$ 0.0890	\$ 1.2602
		<del>\$ 1.2552</del>		<del>\$ 1.6305</del>				
<b>Commercial/Industrial - G-51</b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.7248	\$ 0.3070	\$ 1.0266	\$ 0.0890	\$ 1.4226
		<del>\$ 1.2547</del>		<del>\$ 1.6507</del>				
All therms over the first block per month at	\$ 0.2084	\$ 1.3288	\$ 0.0890	\$ 1.6262	\$ 0.2084	\$ 1.0266	\$ 0.0890	\$ 1.3240
		<del>\$ 1.2547</del>		<del>\$ 1.5521</del>				
<b>Commercial/Industrial - G-52</b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.6825	\$ 0.1978	\$ 1.0266	\$ 0.0890	\$ 1.3134
		<del>\$ 1.2547</del>		<del>\$ 1.6084</del>				
All therms over the first block per month at	\$ 0.1836	\$ 1.3288	\$ 0.0890	\$ 1.6014	\$ 0.1219	\$ 1.0266	\$ 0.0890	\$ 1.2375
		<del>\$ 1.2547</del>		<del>\$ 1.5273</del>				
<b>Commercial/Industrial - G-53</b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.6029	\$ 0.0968	\$ 1.0266	\$ 0.0890	\$ 1.2124
		<del>\$ 1.2547</del>		<del>\$ 1.5288</del>				
<b>Commercial/Industrial - G-54</b>								
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	\$ 1.3288	\$ 0.0890	\$ 1.4883	\$ 0.0409	\$ 1.0266	\$ 0.0890	\$ 1.1565
		<del>\$ 1.2547</del>		<del>\$ 1.4142</del>				

DATED: December 22, 2022

EFFECTIVE: January 1, 2023

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

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

### II RATE SCHEDULES

	Rates Effective January 1, 2023 - April 30, 2023 Winter Period				Rates Effective May 1, 2023 - October 31, 2023 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
<b>Residential Non Heating - R-5</b>								
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
All therms	\$ 0.6668	\$ 1.3292 <del>\$ -1.2554</del>	\$ 0.1113	\$ 2.1073 <del>\$ -2.0332</del>	\$ 0.6668	\$ 1.0269	\$ 0.1113	\$ 1.8050
<b>Residential Heating - R-6</b>								
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
Therms in the first block per month at	\$ 0.8475	\$ 1.3292 <del>\$ -1.2554</del>	\$ 0.1113	\$ 2.2880 <del>\$ -2.2139</del>	\$ 0.8475	\$ 1.0269	\$ 0.1113	\$ 1.9857
<b>Residential Heating - R-7</b>								
Customer Charge per Month per Meter	\$ 11.01			\$ 11.01	\$ 20.01			\$ 20.01
Therms in the first block per month at	\$ 0.4661	\$ 0.7311 <del>\$ -0.6903</del>	\$ 0.1113	\$ 1.3085 <del>\$ -1.2677</del>	\$ 0.8475	\$ 1.0269	\$ 0.1113	\$ 1.9857
<b>Commercial/Industrial - G-44</b>								
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	\$ 1.3293 <del>\$ -1.2552</del>	\$ 0.0890	\$ 2.0797 <del>\$ -2.0056</del>	\$ 0.6614	\$ 1.0271	\$ 0.0890	\$ 1.7775
All therms over the first block per month at	\$ 0.4614	\$ 1.3293 <del>\$ -1.2552</del>	\$ 0.0890	\$ 1.8797 <del>\$ -1.8056</del>	\$ 0.4614	\$ 1.0271	\$ 0.0890	\$ 1.5775
<b>Commercial/Industrial - G-45</b>								
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	\$ 1.3293 <del>\$ -1.2552</del>	\$ 0.0890	\$ 2.0206 <del>\$ -1.9465</del>	\$ 0.6023	\$ 1.0271	\$ 0.0890	\$ 1.7184
All therms over the first block per month at	\$ 0.4175	\$ 1.3293 <del>\$ -1.2552</del>	\$ 0.0890	\$ 1.8358 <del>\$ -1.7617</del>	\$ 0.4175	\$ 1.0271	\$ 0.0890	\$ 1.5336
<b>Commercial/Industrial - G-46</b>								
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	\$ 1.3293 <del>\$ -1.2552</del>	\$ 0.0890	\$ 1.7905 <del>\$ -1.7164</del>	\$ 0.1873	\$ 1.0271	\$ 0.0890	\$ 1.3034
<b>Commercial/Industrial - G-55</b>								
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	\$ 1.3288 <del>\$ -1.2547</del>	\$ 0.0890	\$ 1.8170 <del>\$ -1.7429</del>	\$ 0.3992	\$ 1.0266	\$ 0.0890	\$ 1.5148
All therms over the first block per month at	\$ 0.2710	\$ 1.3288 <del>\$ -1.2547</del>	\$ 0.0890	\$ 1.6888 <del>\$ -1.6147</del>	\$ 0.2710	\$ 1.0266	\$ 0.0890	\$ 1.3866
<b>Commercial/Industrial - G-56</b>								
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	\$ 1.3288 <del>\$ -1.2547</del>	\$ 0.0890	\$ 1.7620 <del>\$ -1.6879</del>	\$ 0.2572	\$ 1.0266	\$ 0.0890	\$ 1.3728
All therms over the first block per month at	\$ 0.2387	\$ 1.3288 <del>\$ -1.2547</del>	\$ 0.0890	\$ 1.6565 <del>\$ -1.5824</del>	\$ 0.1585	\$ 1.0266	\$ 0.0890	\$ 1.2741
<b>Commercial/Industrial - G-57</b>								
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	\$ 1.3288 <del>\$ -1.2547</del>	\$ 0.0890	\$ 1.6585 <del>\$ -1.5844</del>	\$ 0.1259	\$ 1.0266	\$ 0.0890	\$ 1.2415
<b>Commercial/Industrial - G-58</b>								
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	\$ 1.3288 <del>\$ -1.2547</del>	\$ 0.0890	\$ 1.5094 <del>\$ -1.4353</del>	\$ 0.0531	\$ 1.0266	\$ 0.0890	\$ 1.1687

DATED: December ~~22~~, 2022

EFFECTIVE: January 1, 2023

ISSUED BY: /s/Neil Proudman  
Neil Proudman  
TITLE: 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	
<b>Direct Cost of Gas Rate</b>			<b>\$ 1.3752 per therm</b>
<b>Demand Cost of Gas Rate</b>		<b>\$ 12,510,219</b>	<b>\$ 0.1348 per therm</b>
<b>Commodity Cost of Gas Rate</b>		<b>117,533,374</b>	<b>\$ 1.2668 per therm</b>
<b>Adjustment Cost of Gas Rate</b>		<b>3,568,556</b>	<b>\$ 0.0385 per therm</b>
<b>Hedge Contract (Savings)</b>		<b>(6,022,210)</b>	<b>\$ (0.0649) per therm</b>
<b>Total Direct Cost of Gas Rate</b>		<b>\$ 127,589,939</b>	<b>\$ 1.3752 per therm</b>
Total Anticipated Indirect Cost of Gas		\$ 5,082,758	
Projected Prorated Sales (11/01/2022 - 04/30/2023)		92,780,984	
<b>Indirect Cost of Gas</b>			<b>\$ 0.0548 per therm</b>
<b>TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/22</b>			<b>\$ 1.4300 per therm</b>
<b>RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 11/01/22</b>	<b>COGwr</b>		<b>\$ 1.4300 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ (0.1749)</b>
<b>RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 12/01/22</b>	<b>COGwr</b>		<b>\$ 1.2551 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ 0.0741</b>
<b>RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 01/01/23</b>	<b>COGwr</b>		<b>\$ 1.3292 /therm</b>
	Maximum (COG + 25%)		\$ 1.7875
<b>GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 11/01/22</b>	<b>COGwr</b>		<b>\$ 0.7865 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ (0.0962)</b>
<b>GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 12/01/22</b>	<b>COGwr</b>		<b>\$ 0.6903 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ 0.0408</b>
<b>GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 01/01/23</b>	<b>COGwr</b>		<b>\$ 0.7311 /therm</b>
	Maximum (COG + 25%)		\$ 0.9831
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 11/01/22</b>	<b>COGwh</b>		<b>\$ 1.4301 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ (0.1749)</b>
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 12/01/22</b>	<b>COGwh</b>		<b>\$ 1.2552 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ 0.0741</b>
<b>C&amp;I HIGH WINTER USE COST OF GAS RATE - 01/01/23</b>	<b>COGwh</b>		<b>\$ 1.3293 /therm</b>
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		
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 11/01/22</b>	<b>COGwl</b>		<b>\$ 1.4296 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ (0.1749)</b>
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 12/01/22</b>	<b>COGwl</b>		<b>\$ 1.2547 /therm</b>
<b>Change in rate due to revised under/over recovery projection</b>			<b>\$ 0.0741</b>
<b>C&amp;I LOW WINTER USE COST OF GAS RATE - 01/01/23</b>	<b>COGwl</b>		<b>\$ 1.3288 /therm</b>
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		

DATED: ~~November 23~~ December 22, 2022

ISSUED BY: /s/Neil Proudman  
Neil Proudman

EFFECTIVE: ~~December 1, 2022~~ January 1, 2023

TITLE: President