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

March 01, 2023

Under/(Over) Collection as of 02/01/2023		\$	(16,282,490)
Forecasted firm Residential therm sales 03/01/2023 to 04/30/2023	12,809,450		
Residential Cost of Gas Rate per therm	\$ (0.4525)	\$	(5,796,276)
Forecasted firm Residential (GAP) therm sales 03/01/2023 to 04/30/2023	 931,710		, , ,
Residential (GAP) Cost of Gas Rate per therm	\$ (0.2489)	\$	(231,903)
Forecasted firm C&I High Winter Use therm sales 03/01/2023 to 04/30/2023	8,549,700		, ,
C&I- High Winter Use Cost of Gas Rate per therm	\$ (0.4526)	\$	(3,869,594)
Forecasted firm C&I Low Winter Use therm sales 03/01/2023 to 04/30/2023	 1,972,535		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (0.4521)	\$	(891,783)
Forecasted firm Residential therm sales 02/2023	9,462,260		
Residential Cost of Gas Rate per therm	\$ (0.4525)	\$	(4,281,673)
Forecasted firm Residential (GAP) therm sales 02/2023	669,350		
Residential (GAP) Cost of Gas Rate per therm	\$ (0.2489)	\$	(166,601)
Forecasted firm C&I High Winter Use therm sales 02/2023	6,486,060		, ,
C&I- High Winter Use Cost of Gas Rate per therm	\$ (0.4526)	\$	(2,935,591)
Forecasted firm C&I Low Winter Use therm sales 02/2023	 1,115,307		
C&I- Low Winter Use Cost of Gas Rate per therm	\$ (0.4521)	\$	(504,230)
Forecast recovered costs at current rate 02/2023		\$	(18,677,651)
Estimated FPO Premium 02/01/2023 to 04/30/2023		\$	(9,822)
Projected gas costs 02/01/2023 to 04/30/2023		\$	29,890,732
Estimated interest charged (credited) to customers 02/01/2023 to 04/30/2023		\$	26,950
Projected under / (over) collection as of 04/30/2023 (A)		\$	(5,052,281)
			, , ,
Actual Gas Costs through 02/01/2023	\$ 47,815,617		
Revised projected gas costs 02/01/2023 to 04/30/2023	\$ 29,917,682		
		•	77 700 000
Estimated total adjusted gas costs for 2022-2023 Winter Cost of Gas Filing		\$	77,733,299
Under/ (over) collection as percent of total gas costs (A/B)			-6.50%
Projected under / (over) collection as of 04/30/2023 (A)		\$	(5,052,281)
Forecasted firm therm sales 03/01/2023 to 04/30/2023			24,263,395
Change in rate used to reduce forecast under/(over) collection		\$	(0.2082)
Change percentage			-46%
Current Cost of Gas Rate 02/2023		\$	0.4525
Revised Cost of Gas Rate		\$	0.2443
Cap - Residential Cost of Gas Rate		\$	1.7875

Revised as follows:

The revised projected gas costs include the February 2023 - April 2023 NYMEX settled strip prices as of February 15, 2023.

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

Without Rate Adjustment	End Und	Apr-22 ling Balance der/(Over)		ay to Oct-22 (Actual)		Nov-22 (Actual)		Dec-22 (Actual)		Jan-23 (Actual)	Feb-23 (Estimate)		Mar-23 (Estimate)		Apr-23 (Estimate)		Total Peak ncludes prior Under/(Over)		
Total Gas Costs	\$	5,378,797	\$	3,852,900	\$	6,227,945	\$	17,938,271	\$	13,236,234 \$	15,973,092	\$	8,439,836	\$	2,849,247	\$	73,896,321		
Adjustments and Indirect Costs																			
Refunds & Adjustments COG Bad Debt							\$	(887,245)								\$	(887,245)		
Return on Inventory per DG 20-105 Transportation Revenue Broker Revenue Off System and Capacity Release					\$	83,406	\$	83,406	\$	83,406 \$	85,935	\$	85,935	\$	85,935	\$	508,023 - -		
Fixed Price Option Admin.				40,685													40,685		
Bad Debt Costs		(170,566)		(51,867)		53,768		162,577		121,983	123,902		123,902		123,902		487,601		
Working Capital		(30,998)		(16,939)		24,149		69,557		51,324	52,106		52,106		52,106		253,411		
Misc Overhead Production & Storage				_		614,243		- 614,243		- 614,243	614,243		- 614,243		- 614,243		- 3,685,458		
Total Indirect Costs	\$	(201,564)	\$	(28,121)	\$	775,567	\$	42,538	\$	870,956 \$	876,186	\$	876,186	\$		\$	4,087,934		
Interest			\$	(8,683)	\$ 	(54,672)	\$	(120,813)	\$	(93,738) \$	24,155	\$	14,517	\$	(11,722)	\$	(250,956)		
Total Gas Costs plus Indirect Costs	\$	5,177,233	\$	3,816,096	\$	6,948,840	\$,,	\$	14,013,452 \$	16,873,433	\$	9,330,538	\$	-,,	\$	77,733,299		
Total Actual/Forecasted Sales Volumes						16,383,192	_	18,217,404		24,783,855	17,732,977	_	15,124,179	_	9,139,216	_	101,380,822		
Total Estimated Collections (unbilled) Total Actual(billed)/Forecasted(billed/unbil	illod)		\$	1,356,641	\$	13,661,047 6,936,057		8,028,691 17,062,719	\$ \$	(4,622,631) \$ 21,675,583 \$	- 7,892,115		6,731,638			\$ \$	17,067,108 65,718,471		
Ending Balance	\$	5,177,233	\$	7,636,688	φ	(6,011,577)		(13,242,990)	_	(16,282,490) \$	(7,301,172		(4,702,272)	_	(5,052,280)	ψ ¢	(5,052,280)		
With Rate Adjustment	Ψ	0,111,200	Ψ	7,000,000	Ψ	(0,011,077)	Ψ	(10,242,000)	Ψ	(10,202,400) ψ	(1,001,172	Ψ	(4,102,212)	Ψ	(0,002,200)	Ψ	(0,002,200)		
		Apr-22 der/(Over)		ay to Oct-22 (Actual)		Nov-22 (Actual)		Dec-22 (Actual)		Jan-23 (Actual)	Feb-23 (Estimate)		Mar-23 (Estimate)		Apr-23 (Estimate)		Total Peak	Last Filing 1/24/2023 Including Beginr	Change 2/21/2023 hing Balances
Total Gas Costs	\$	5,378,797	\$	3,852,900	\$	6,227,945	\$	17,938,271	Φ.	40 000 004 6		\$	8,439,836	φ	2,849,247	Ф	73,896,321		\$ (14,722,083)
Adjustments and Indirect Costs						-,,-		17,930,271	Ψ	13,236,234 \$	15,973,092	-	-,,	Ф	2,043,241	φ		, , , , , ,	
											, ,								
Refunds & Adjustments	\$	-	\$	-	\$	-	\$	(887,245)		- \$	15,973,092	\$		ъ \$		\$	(887,245)		\$ (0)
COG Bad Debt	\$	-	\$	-	\$	- -	\$	(887,245)		- \$	- -		- : -		- -		- '	\$ (887,245)	-
	\$	- - -	\$	- - -	\$		\$, ,						(887,245) - 508,023 -		\$ (0) - (2,528)
COG Bad Debt Inventory Financing	\$	- - - -	\$	- - - -	\$	- -	\$	(887,245)		- \$	- -		- : -		- -		- '	\$ (887,245)	-
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release	\$	- - - -	\$	-	\$	- -	\$	(887,245)		- \$	- -		- : -		- -		508,023 - - -	\$ (887,245) - 510,552 - -	- (2,528) -
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin.	\$	- - - - - -	\$	- - - - 40,685	\$	- 83,406 - - - -	\$	(887,245) - 83,406 - - -		- \$ - 83,406 	85,935 - - - -		85,935 - - -		- 85,935 - - -		508,023 - - - 40,685	\$ (887,245) - 510,552 - - - 40,685	- (2,528) - - -
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs	\$	- - - - - (170,566)	\$	(51,867)	\$	83,406 - - - - 53,768	\$	(887,245) - 83,406 - - - - 162,577		- \$ 83,406 - - 121,983	85,935 - - - - 123,902		85,935 - - - - 123,902		- 85,935 - - - - 123,902		508,023 - - - 40,685 487,601	\$ (887,245) - 510,552 - - 40,685 512,020	(2,528) - - - - - (24,419)
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital	\$	- - - - - (170,566) (30,998)	\$		\$	- 83,406 - - - -	\$	(887,245) - 83,406 - - -		- \$ - 83,406 	85,935 - - - -		85,935 - - -		- 85,935 - - -		508,023 - - - 40,685	\$ (887,245) - 510,552 - - - 40,685	(2,528) - - - (24,419) (10,868)
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital Misc Overhead	\$		\$	(51,867)	\$	83,406 	\$	(887,245) - 83,406 - - - - 162,577 69,557		83,406 - - - - 121,983 51,324 -	85,935 - - - 123,902 52,106		85,935 - - - 123,902 52,106		85,935 - - - 123,902 52,106		508,023 - - - 40,685 487,601 253,411	\$ (887,245) - 510,552 - - 40,685 512,020 264,279	(2,528) - - - - - (24,419)
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital	\$			(51,867)		83,406 - - - - 53,768		(887,245) - 83,406 - - - - 162,577	\$	- \$ 83,406 - - 121,983	85,935 - - - - 123,902	\$	85,935 - - - - 123,902	\$	- 85,935 - - - - 123,902	\$	508,023 - - - 40,685 487,601	\$ (887,245) - 510,552 - - 40,685 512,020	(2,528) - - - (24,419) (10,868) -
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital Misc Overhead Production & Storage		(30,998) - -		(51,867) (16,939) - -		83,406 - - - 53,768 24,149 - 614,243	\$	(887,245) - 83,406 - - - - 162,577 69,557 - 614,243	\$	83,406 - - - 121,983 51,324 - 614,243	85,935 - - - 123,902 52,106 - 614,243	\$	85,935 - - 123,902 52,106 - 614,243	\$	85,935 - - - 123,902 52,106 - 614,243	\$	508,023 - - - 40,685 487,601 253,411 - 3,685,458	\$ (887,245) - 510,552 - 40,685 512,020 264,279 - 3,685,458 \$ 4,125,749	(2,528) - - - (24,419) (10,868) -
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital Misc Overhead Production & Storage Total Indirect Costs	\$	(30,998) - -		(51,867) (16,939) - - (28,121)		83,406 - - - 53,768 24,149 - 614,243 775,567	\$	(887,245) - 83,406 162,577 69,557 - 614,243 42,538	\$	- \$ 83,406	85,935 - - - 123,902 52,106 - 614,243 876,186	\$	85,935 - - 123,902 52,106 - 614,243 876,186	\$	85,935 - - - 123,902 52,106 - 614,243 876,186	\$ \$	508,023 - - - - 40,685 487,601 253,411 - 3,685,458 4,087,934 (250,956)	\$ (887,245) - 510,552 - 40,685 512,020 264,279 - 3,685,458 \$ 4,125,749 \$ (160,098) \$ 92,584,055	(2,528) (24,419) (10,868) - (37,815) (90,858)
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital Misc Overhead Production & Storage Total Indirect Costs Interest Total Gas Costs plus Indirect Costs	\$	(30,998) - - (201,564) - 5,177,233	\$	(51,867) (16,939) - - (28,121) (8,683)		83,406 	\$	(887,245) - 83,406 162,577 69,557 - 614,243 42,538 (120,813) 17,859,996	\$	83,406 - - - 121,983 51,324 - 614,243 870,956 \$ (93,738) 14,013,452	85,935 - - 123,902 52,106 - 614,243 876,186 24,155	\$	85,935 - - 123,902 52,106 - 614,243 876,186 14,517 9,330,538	\$	85,935 - - 123,902 52,106 - 614,243 876,186 (11,722) 3,713,710	\$ \$	508,023 - - 40,685 487,601 253,411 - 3,685,458 4,087,934 (250,956) 77,733,299	\$ (887,245) - 510,552 - 40,685 512,020 264,279 - 3,685,458 \$ 4,125,749 \$ (160,098) \$ 92,584,055 Percent change >	(2,528) (24,419) (10,868) (37,815)
COG Bad Debt Inventory Financing Transportation Revenue Broker Revenue Off System and Capacity Release Fixed Price Option Admin. Bad Debt Costs Working Capital Misc Overhead Production & Storage Total Indirect Costs	\$ \$ ncludi	(30,998) - - (201,564) - 5,177,233 ing unbilled)	\$	(51,867) (16,939) - (28,121) (8,683) 3,816,096		83,406 - - 53,768 24,149 - 614,243 775,567 (54,672)	\$	(887,245) - 83,406 162,577 69,557 - 614,243 42,538 (120,813)	\$	83,406 - - - 121,983 51,324 - 614,243 870,956 \$ (93,738)	85,935 - - 123,902 52,106 - 614,243 876,186	\$	85,935 - - 123,902 52,106 - 614,243 876,186	\$	85,935 - - 123,902 52,106 - 614,243 876,186 (11,722)	\$ \$	508,023 - - 40,685 487,601 253,411 3,685,458 4,087,934 (250,956) 77,733,299	\$ (887,245)	(2,528) (24,419) (10,868) - (37,815) (90,858)