Winter 2019/2020 Cost of Gas

Proposed Revised Tariff Pages

II RATE SCHEDULES
FIRM RATE SCHEDULES

	~~Rates effective April 1, 2019 - April 30, 2020~~ Rates effective November 1, 2019 - April 30, 2020 Winter Period				~~Rates Effective September 1, 2018 - October 31, 2018~~ Rates Effective July 1, 2019 - October 31, 2019 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-1	~~$ 15.02~~			~~$ 15.02~~	~~$ 15.02~~			~~$ 15.02~~
Customer Charge per Month per Meter	$ 15.20			$ 15.20	$ 15.20			$ 15.20
All Therms	$ 0.3786	$ 0.6203	$ 0.0635	$ 1.0625	$ 0.3786	$ 0.5556	$ 0.0660	$ 1.0002
	~~$ 0.3741~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.0226~~	~~$ 0.3938~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.8799~~
Residential Heating - R-3	~~$ 15.02~~			~~$ 15.02~~	~~$ 15.02~~			~~$ 15.02~~
Customer Charge per Month per Meter	$ 15.20			$ 15.20	$ 15.20			$ 15.20
Size of the first block	all therms				all therms			
All Therms	$ 0.5569	$ 0.6203	$ 0.0635	$ 1.2407	$ 0.5569	$ 0.5556	$ 0.0660	$ 1.1785
	~~$ 0.5502~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.1987~~	~~$ 0.5631~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 1.0492~~
Residential Heating - R-4	~~$ 6.01~~			~~$ 6.01~~	~~$ 6.00~~			~~$ 6.00~~
Customer Charge per Month per Meter	$ 6.08			$ 6.08	$ 6.08			$ 6.08
Size of the first block	all therms				all therms			
All Therms	$ 0.2228	$ 0.6203	$ 0.0635	$ 0.9066	$ 0.2228	$ 0.5556	$ 0.0660	$ 0.8444
	~~$ 0.2201~~	~~$ (0.5825)~~	~~$ 0.0660~~	~~$ (0.2964)~~	~~$ 0.2252~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.7113~~
Commercial/Industrial - G-41	~~$ 55.68~~			~~$ 55.68~~	~~$ 56.58~~			~~$ 56.58~~
Customer Charge per Month per Meter	$ 56.36			$ 56.36	$ 56.36			$ 56.36
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	$ 0.4621	$ 0.6190	$ 0.0494	$ 1.1305	$ 0.4621	$ 0.5521	$ 0.0757	$ 1.0899
	~~$ 0.4566~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.1140~~	~~$ 0.4639~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.9257~~
All therms over the first block per month at	$ 0.3104	$ 0.6190	$ 0.0494	$ 0.9788	$ 0.3104	$ 0.5521	$ 0.0757	$ 0.9382
	~~$ 0.3067~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9641~~	~~$ 0.3116~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.7734~~
Commercial/Industrial - G-42	~~$ 167.06~~			~~$ 167.06~~	~~$ 169.75~~			~~$ 169.75~~
Customer Charge per Month per Meter	$ 169.09			$ 169.09	$ 169.09			$ 169.09
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	$ 0.4202	$ 0.6190	$ 0.0494	$ 1.0886	$ 0.4202	$ 0.5521	$ 0.0757	$ 1.0480
	~~$ 0.4152~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0726~~	~~$ 0.4219~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8837~~
All therms over the first block per month at	$ 0.2800	$ 0.6190	$ 0.0494	$ 0.9484	$ 0.2800	$ 0.5521	$ 0.0757	$ 0.9078
	~~$ 0.2766~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9340~~	~~$ 0.2811~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.7429~~
Commercial/Industrial - G-43	~~$ 716.95~~			~~$ 716.95~~	~~$ 728.47~~			~~$ 728.47~~
Customer Charge per Month per Meter	$ 725.66			$ 725.66	$ 725.66			$ 725.66
All therms over the first block per month at	$ 0.2583	$ 0.6190	$ 0.0494	$ 0.9267	$ 0.1181	$ 0.5521	$ 0.0757	$ 0.7459
	~~$ 0.2552~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9126~~	~~$ 0.1185~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.5803~~
Commercial/Industrial - G-51	~~$ 55.68~~			~~$ 55.68~~	~~$ 56.58~~			~~$ 56.58~~
Customer Charge per Month per Meter	$ 56.36			$ 56.36	$ 56.36			$ 56.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	$ 0.2785	$ 0.6258	$ 0.0494	$ 0.9537	$ 0.2785	$ 0.5633	$ 0.0757	$ 0.9175
	~~$ 0.2752~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9378~~	~~$ 0.2796~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7683~~
All therms over the first block per month at	$ 0.1811	$ 0.6258	$ 0.0494	$ 0.8563	$ 0.1811	$ 0.5633	$ 0.0757	$ 0.8201
	~~$ 0.1789~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8416~~	~~$ 0.1817~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6704~~
Commercial/Industrial - G-52	~~$ 167.06~~			~~$ 167.06~~	~~$ 169.75~~			~~$ 169.75~~
Customer Charge per Month per Meter	$ 169.09			$ 169.09	$ 169.09			$ 169.09
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	$ 0.2392	$ 0.6258	$ 0.0494	$ 0.9144	$ 0.1733	$ 0.5633	$ 0.0757	$ 0.8123
	~~$ 0.2363~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8990~~	~~$ 0.1740~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6627~~
All therms over the first block per month at	$ 0.1593	$ 0.6258	$ 0.0494	$ 0.8345	$ 0.0985	$ 0.5633	$ 0.0757	$ 0.7375
	~~$ 0.1574~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8201~~	~~$ 0.0989~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5876~~
Commercial/Industrial - G-53	~~$ 737.84~~			~~$ 737.84~~	~~$ 749.68~~			~~$ 749.68~~
Customer Charge per Month per Meter	$ 746.81			$ 746.81	$ 746.81			$ 746.81
All therms over the first block per month at	$ 0.1672	$ 0.6258	$ 0.0494	$ 0.8424	$ 0.0802	$ 0.5633	$ 0.0757	$ 0.7192
	~~$ 0.1652~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8279~~	~~$ 0.0805~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5692~~
Commercial/Industrial - G-54	~~$ 737.84~~			~~$ 737.84~~	~~$ 749.68~~			~~$ 749.68~~
Customer Charge per Month per Meter	$ 746.81			$ 746.81	$ 746.81			$ 746.81
All therms over the first block per month at	$ 0.0638	$ 0.6258	$ 0.0494	$ 0.7390	$ 0.0346	$ 0.5633	$ 0.0757	$ 0.6736
	~~$ 0.0630~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.7257~~	~~$ 0.0347~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5234~~

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II RATE SCHEDULES
FIRM RATE SCHEDULES

	~~Rates effective April 1, 2019 - April 30, 2020~~ Rates effective November 1, 2019 - April 30, 2020 Winter Period				~~Rates Effective Sptember 1, 2018 - October 31, 2018~~ Rates Effective July 1, 2019 - October 31, 2019 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-5	~~$ 19.53~~			~~$ 19.53~~	~~$ 19.52~~			~~$ 19.52~~
Customer Charge per Month per Meter	$ 19.76			$ 19.76	$ 19.76			$ 19.76
All Therms	$ 0.4922	$ 0.6203	$ 0.0635	$ 1.1761	$ 0.4922	$ 0.5556	$ 0.0660	$ 1.1138
	~~$ 0.4863~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.1348~~	~~$ 0.5119~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.9980~~
Residential Heating - R-6	~~$ 19.53~~			~~$ 19.53~~	~~$ 19.52~~			~~$ 19.52~~
Customer Charge per Month per Meter	$ 19.76			$ 19.76	$ 19.76			$ 19.76
Size of the first block	100 therms							
Therms in the first block per month at	$ 0.7240	$ 0.6203	$ 0.0635	$ 1.4078	$ 0.7240	$ 0.5556	$ 0.0660	$ 1.3456
	~~$ 0.7153~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.3638~~	~~$ 0.7320~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 1.2181~~
Residential Heating - R-7	~~$ 7.81~~			~~$ 7.81~~	~~$ 7.81~~			~~$ 7.81~~
Customer Charge per Month per Meter	$ 7.90			$ 7.90	$ 7.90			$ 7.90
Size of the first block	100 therms							
Therms in the first block per month at	$ 0.2896	$ 0.6203	$ 0.0635	$ 0.9734	$ 0.2896	$ 0.5556	$ 0.0660	$ 0.9112
	~~$ 0.2861~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 0.9346~~	~~$ 0.2928~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.7789~~
Commercial/Industrial - G-44	~~$ 72.38~~			~~$ 72.38~~	~~$ 73.56~~			~~$ 73.56~~
Customer Charge per Month per Meter	$ 73.26			$ 73.26	$ 73.26			$ 73.26
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	$ 0.6008	$ 0.6190	$ 0.0494	$ 1.2692	$ 0.6008	$ 0.5521	$ 0.0757	$ 1.2286
	~~$ 0.5936~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.2510~~	~~$ 0.6031~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 1.0649~~
All therms over the first block per month at	$ 0.4036	$ 0.6190	$ 0.0494	$ 1.0720	$ 0.4035	$ 0.5521	$ 0.0757	$ 1.0313
	~~$ 0.3987~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0561~~	~~$ 0.4051~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8669~~
Commercial/Industrial - G-45	$ 217.18			~~$ 217.18~~	~~$ 220.68~~			~~$ 220.68~~
Customer Charge per Month per Meter	$ 219.82			$ 219.82	$ 219.82			$ 219.82
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	$ 0.5463	$ 0.6190	$ 0.0494	$ 1.2147	$ 0.5463	$ 0.5521	$ 0.0757	$ 1.1741
	~~$ 0.5398~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.1972~~	~~$ 0.5486~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 1.0103~~
All therms over the first block per month at	$ 0.3639	$ 0.6190	$ 0.0494	$ 1.0323	$ 0.3639	$ 0.5521	$ 0.0757	$ 0.9917
	~~$ 0.3596~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0170~~	~~$ 0.3654~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8272~~
Commercial/Industrial - G-46	~~$ 932.04~~			~~$ 932.04~~	~~$ 947.01~~			~~$ 947.01~~
Customer Charge per Month per Meter	$ 943.36			$ 943.36	$ 943.36			$ 943.36
All therms over the first block per month at	$ 0.3358	$ 0.6190	$ 0.0494	$ 1.0042	$ 0.1535	$ 0.5521	$ 0.0757	$ 0.7813
	~~$ 0.3318~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9892~~	~~$ 0.1540~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.6158~~
Commercial/Industrial - G-55	~~$ 72.3800~~			~~$ 72.38~~	~~$ 73.5600~~			~~$ 73.56~~
Customer Charge per Month per Meter	$ 73.26			$ 73.26	$ 73.26			$ 73.26
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	$ 0.3621	$ 0.6258	$ 0.0494	$ 1.0373	$ 0.3621	$ 0.5633	$ 0.0757	$ 1.0011
	~~$ 0.3578~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 1.0205~~	~~$ 0.3635~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.8522~~
All therms over the first block per month at	$ 0.2354	$ 0.6258	$ 0.0494	$ 0.9106	$ 0.2354	$ 0.5633	$ 0.0757	$ 0.8744
	~~$ 0.2326~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8953~~	~~$ 0.2363~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7250~~
Commercial/Industrial - G-56	~~$ 217.1800~~			~~$ 217.18~~	~~$ 220.6800~~			~~$ 220.68~~
Customer Charge per Month per Meter	$ 219.82			$ 219.82	$ 219.82			$ 219.82
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	$ 0.3109	$ 0.6258	$ 0.0494	$ 0.9861	$ 0.2253	$ 0.5633	$ 0.0757	$ 0.8643
	~~$ 0.3072~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9699~~	~~$ 0.2262~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7149~~
All therms over the first block per month at	$ 0.2071	$ 0.6258	$ 0.0494	$ 0.8823	$ 0.1280	$ 0.5633	$ 0.0757	$ 0.7670
	~~$ 0.2046~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8673~~	~~$ 0.1286~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6173~~
Commercial/Industrial - G-57	~~$ 959.1900~~			~~$ 959.19~~	~~$ 974.5900~~			~~$ 974.59~~
Customer Charge per Month per Meter	$ 970.84			$ 970.84	$ 970.84			$ 970.84
All therms over the first block per month at	$ 0.2174	$ 0.6258	$ 0.0494	$ 0.8926	$ 0.1043	$ 0.5633	$ 0.0757	$ 0.7433
	~~$ 0.2148~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8775~~	~~$ 0.1047~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5934~~
Commercial/Industrial - G-58	~~$ 959.1900~~			~~$ 959.19~~	~~$ 974.5900~~			~~$ 974.59~~
Customer Charge per Month per Meter	$ 970.85			$ 970.85	$ 970.84			$ 970.84
All therms over the first block per month at	$ 0.0829	$ 0.6258	$ 0.0494	$ 0.7581	$ 0.0450	$ 0.5633	$ 0.0757	$ 0.6840
	~~$ 0.0819~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.7446~~	~~$ 0.0448~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5335~~

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II. RATE SCHEDULES
CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2018 THROUGH APRIL 30, 2019~~
(Refer to Text in Section 17(A) Fixed Price Option Program)

(Col 1)	(Col 2)	(Col 3)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	~~$ 61,003,856~~		$ 52,211,274	
Projected Prorated Sales ~~(11/01/2018 - 4/30/2019)~~ (11/01/2019 - 4/30/2020)	~~86,451,254~~		87,788,508	
Direct Cost of Gas Rate		~~$ 0.7056~~		$ 0.5947 per therm
Demand Cost of Gas Rate	~~$ 11,230,946~~	~~$ 0.1299~~	$ 11,060,200	$ 0.1260
Commodity Cost of Gas Rate	~~49,116,221~~	~~$ 0.5681~~	$ 40,875,472	$ 0.4656
Adjustment Cost of Gas Rate	~~656,690~~	~~$ 0.0076~~	$ 275,601	$ 0.0031
Total Direct Cost of Gas Rate	~~61,003,856~~	~~$ 0.7056~~	$ 52,211,274	$ 0.5947
Total Anticipated Indirect Cost of Gas	~~$ 3,070,244~~		$ 2,251,330	
Projected Prorated Sales ~~(11/01/2018 - 4/30/2019)~~ (11/01/2019 - 4/30/2020)	~~86,451,254~~		87,788,508	
Indirect Cost of Gas		~~$ 0.0355~~		$ 0.0256 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE NOVEMBER 1, 2019 ~~2018~~		~~$ 0.7411~~		$ 0.6203
Calculation of FPO				
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE		~~$ 0.7411~~		$ 0.6203
FPO Risk Premium		$ 0.0200		$ 0.0200
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE ~~(11/01/2018)~~ (11/01/2019)		~~$ 0.7611~~		$ 0.6403
RESIDENTIAL COST OF GAS RATE ~~(11/01/2018)~~ (11/01/2019)	COGwr	~~$ 0.7611~~ /therm		$ 0.6403

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CALCULATION OF FIRM SALES COST OF GAS RATE

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020

~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2018 THROUGH APRIL 30, 2019~~

(Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)	~~(Col 2)~~	~~(Col 3)~~	(Col 2)	(Col 3)	
Total Anticipated Direct Cost of Gas	~~$ 61,003,856~~		$ 52,211,274		
Projected Prorated Sales (11/01/19 - 04/30/20) ~~(11/01/18 - 04/30/19)~~	~~86,451,254~~		87,788,508		
Direct Cost of Gas Rate		~~0.7056~~		$ 0.5947	per therm
Demand Cost of Gas Rate	~~$ 11,230,946~~	~~0.1299~~	$ 11,060,200	$ 0.1260	
Commodity Cost of Gas Rate	~~49,116,221~~	~~0.5681~~	40,875,472	$ 0.4656	
Adjustment Cost of Gas Rate	~~656,690~~	~~0.0076~~	275,601	$ 0.0031	
Total Direct Cost of Gas Rate	~~$ 61,003,856~~	~~0.7056~~	$ 52,211,274	$ 0.5947	
Total Anticipated Indirect Cost of Gas	~~$ 3,070,244~~		$ 2,251,330		
Projected Prorated Sales (11/01/19 - 04/30/20) ~~(11/01/18 - 04/30/19)~~	~~86,451,254~~		87,788,508		
Indirect Cost of Gas		~~$ 0.0355~~		$ 0.0256	per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/19				$ 0.6203	per Therm
~~**TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/18**~~		~~$ 0.7411~~			

RESIDENTIAL COST OF GAS RATE - 11/01/19	COGwr	$ 0.6203	/therm
~~**Residential COST OF GAS RATE - 11/01/18**~~	~~COGwr~~	~~$ 0.7411~~	~~/therm~~
Maximum	(COG + 25%)	~~$ 0.9264~~	$ 0.7754
C&I LOW WINTER USE COST OF GAS RATE - 11/01/19	COGwl	$ 0.6258	/therm
~~**C&I LOW WINTER USE COST OF GAS RATE - 11/01/18**~~	~~COGwl~~	~~$ 0.7456~~	~~/therm~~

Average Demand Cost of Gas Rate Effective ~~11/01/18~~ 11/01/2019	~~$ 0.1299~~	$ 0.1260	Maximum	(COG + 25%)	~~$ 0.9320~~ $ 0.7823
Times: Low Winter Use Ratio (Winter)	~~1.0335~~	1.0465			
Times: Correction Factor	~~1.0011~~	0.9976			
Adjusted Demand Cost of Gas Rate	~~$ 0.1344~~	$ 0.1315			
Commodity Cost of Gas Rate	~~$ 0.5681~~	$ 0.4656			
Adjustment Cost of Gas Rate	~~0.0076~~	0.0031			
Indirect Cost of Gas Rate	~~0.0355~~	0.0256			
Adjusted C&I Low Winter Use Cost of Gas Rate	~~$ 0.7456~~	$ 0.6258			

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/19	COGwh	$ 0.6190	/therm
~~**C&I HIGH WINTER USE COST OF GAS RATE - 11/01/18**~~	~~COGwh~~	~~$ 0.7403~~	~~/therm~~

Average Demand Cost of Gas Rate Effective ~~11/01/18~~ 11/01/2019	~~$ 0.1299~~	$ 0.1260	Maximum	(COG + 25%)	~~$ 0.9254~~ $ 0.7737
Times: High Winter Use Ratio (Winter)	~~0.9930~~	0.9918			
Times: Correction Factor	~~1.0011~~	0.9976			
Adjusted Demand Cost of Gas Rate	~~$ 0.1291~~	$ 0.1247			
Commodity Cost of Gas Rate	~~$ 0.5681~~	$ 0.4656	Minimum		
Adjustment Cost of Gas Rate	~~0.0076~~	0.0031	Maximum		
Indirect Cost of Gas Rate	~~0.0355~~	0.0256			
Adjusted C&I High Winter Use Cost of Gas Rate	~~$ 0.7403~~	$ 0.6190			

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Anticipated Cost of Gas

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
(REFER TO TEXT ON IN SECTION 16 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS		
Purchased Gas:		
Demand Costs:	$ 10,157,458	
Supply Costs:	34,260,417	
Storage Gas:		
Demand, Capacity:	$ 902,742	
Commodity Costs:	4,281,375	
Produced Gas:	2,333,680	
Hedged Contract (Saving)/Loss	-	
Hedge Underground Storage Contract (Saving)/Loss	-	
Unadjusted Anticipated Cost of Gas		$ 51,935,672
Adjustments:		
Prior Period (Over)/Under Recovery (as of 05/01/19)	$ 1,912,210	
Interest	(81,952)	
Fuel Inventory Revenue Requirement	351,641	
Broker Revenues	(30,924)	
Refunds from Suppliers	-	
Fuel Financing	-	
Transportation CGA Revenues	(44,891)	
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(1,875,483)	
Hedging Costs	-	
Fixed Price Option Administrative Costs	45,000	
Total Adjustments		275,601
Total Anticipated Direct Cost of Gas		$ 52,211,274
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 11/01/19 - 04/30/20	$ 51,935,672	
Working Capital Rate: Lead Lag Days / 365	0.0391	
Prime Rate	5.25%	
Working Capital Percentage	0.205%	
Working Capital	$ 106,622	
Plus: Working Capital Reconciliation (Acct 142.20)	(42,277)	
Total Working Capital Allowance		64,345
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 11/01/19 - 04/30/20	$ 51,935,672	
Less: Refunds	-	
Plus: Total Working Capital	64,345	
Plus: Prior Period (Over)/Under Recovery	1,912,210	
Subtotal	$ 53,912,228	
Bad Debt Percentage	1.11%	
Bad Debt Allowance	$ 598,426	
Plus: Bad Debt Reconciliation (Acct 175.52)	(402,518)	
Total Bad Debt Allowance		$ 195,908
Production and Storage Capacity		$ 1,980,428
Miscellaneous Overhead 11/01/19 - 04/30/20	$ 13,170	
Times Winter Sales	88,326	
Divided by Total Sales	109,235	
Miscellaneous Overhead		10,649
Total Anticipated Indirect Cost of Gas		$ 2,251,330
Total Cost of Gas		$ 54,462,603

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NHPUC NO. 10 - GAS
LIBERTY UTILITIES

Proposed Third Revised Page 94
Superseding Second Revised Page 94

II. RATE SCHEDULES
Calculation of Firm Transportation Cost of Gas Rate
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2019 THROUGH APRIL 30, 2020
~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2018 THROUGH APRIL 30, 2019~~
(Refer to text in Section16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	~~(Col 2)~~	~~(Col 3)~~	~~(Col 4)~~	(Col 2)	(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:						
PROPANE	~~$ 1,617,071~~			$ 1,409,746		
LNG	~~$ 1,055,140~~			923,934		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	~~2,672,211~~			2,333,680		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	~~8.7%~~			8.7%		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	~~$ 232,482~~			$ 203,030		
PROJECTED FIRM THROUGHPUT (THERMS):						
FIRM SALES	~~86,628,921~~	~~63.1%~~		88,325,512	63.5%	
FIRM TRANSPORTATION SUBJECT TO FTCG	~~50,744,418~~	~~36.9%~~		50,711,358	36.5%	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	~~137,373,339~~	~~100.0%~~		139,036,871	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	~~36.9%~~	~~232,482~~ =	~~$ 85,877~~	36.5% x	$ 203,030 =	$ 74,052
PRIOR (OVER) OR UNDER COLLECTION			(59,496)			(29,161)
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			~~$ 26,381~~			$ 44,891
PROJECTED FIRM TRANSPORTATION THROUGHPUT			~~50,744,418~~			50,711,358
FIRM TRANSPORTATION COST OF GAS			~~$ 0.0005~~			$ 0.0009

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Environmental Surcharge - Manufactured Gas Plants

Manufactured Gas Plants		
Required annual increase in rates	~~$ 2,970,867~~	$ 2,860,522
DG 10-017 Base Rate Revision Collections	~~$~~	$ -
Environmental Subtotal	~~$ 2,970,867~~	$ 2,860,522
Overall Annual Net Increase to Rates	~~$ 2,970,867~~	$ 2,860,522
Estimated weather normalized firm therms billed for the twelve months ended 10/31/20 ~~10/31/19~~ - sales and transportation	~~184,654,874~~	187,178,686 therms
Surcharge per therm	~~$ 0.0161~~	$ 0.0153 per therm
Total Environmental Surcharge	~~$ 0.0161~~	$ 0.0153

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Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Local Distribution Adjustment Charge (LDAC) decrease due to Rate Case Expense and Recoupment
For LDAC effective November 1, 2019 - October 31, 2020
~~For LDAC effective November 1, 2018 - December 31, 2019~~

1	~~Rate Case Expense Remaining from Docket No. DG 14-180~~	~~$~~	~~51,485~~
2	~~Rate Case Expense Through June 2018 in Docket No. DG 17-048~~	~~$~~	~~578,477~~
3	~~Rate Case Expense for Docket No. DG 17-048 Currently Approved for $530,000~~	~~$~~	~~(48,477)~~
4	~~Remaining Recoupment from DG 14-180 & DG 17-048~~	~~$~~	~~1,633,854~~
5	~~July 1, 2018 Balance~~	~~$~~	~~2,215,339~~
6	~~Minus Estimated Recoveries from July 2018 through October 2018~~	~~$~~	~~(312,077)~~
7	~~Total Estimated Remaining Recovery As Of November 1, 2018~~	~~$~~	~~1,903,262~~
8	~~Estimated November 2018 - October 2019 Interest~~	~~$~~	~~36,303~~
9	~~Total Remaining Recovery~~	~~$~~	~~1,939,566~~
10	~~Estimated November 2018 - October 2019 Sales (therms)~~		~~184,654,874~~
11	~~RCE & Recoupment rate per therm November 2019 - October 2020~~	~~$~~	~~0.0105~~

1	Rate Case Expense Remaining from Docket No. DG 17-048	$257,626
2	Recoupment Remaining from Docket No. DG 17-048	$244,581
3	July 1, 2019 Balance	$502,207
4	Plus Estimated Interest from July 2019 through October 2019	$7,671
5	Minus Estimated Recoveries from July 2019 through October 2019	($206,666)
6	Total Estimated Remaining Recovery As of November 1, 2019	$303,212
7	Estimated November 2019 - October 2020 Interest	$6,013
8	Total Remaining Recovery	$309,225
9	Estimated November 2019 - October 2020 Sales (therms)	187,178,686
10	RCE & Recoupment rate per therm November 2019 - October 2020	$0.0017

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Local Delivery Adjustment Clause Calculation

				Sales Customers		Transportation Customers	
Residential Non Heating Rates - R-1							
Energy Efficiency Charge	~~$ 0.0450~~		$ 0.0640				
Demand Side Management Charge	~~0.0000~~		0.0000				
Conservation Charge (CCx)		~~$ 0.0450~~		$ 0.0640			
Relief Holder and pond at Gas Street, Concord, NH	~~0.0000~~		0.0000				
Manufactured Gas Plants	~~0.0161~~		0.0153				
Environmental Surcharge (ES)		~~$ 0.0161~~		$ 0.0153			
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0298)			
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0003~~		0.0001			
Rate Case Expense Factor (RCEF)		~~0.0092~~		0.0017			
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123			
LDAC		~~$ 0.0836~~		**$ 0.0635**			**per therm**
Residential Heating Rates - R-3, R-4, R-6, R-7							
Energy Efficiency Charge	~~$ 0.0450~~		$ 0.0640				
Demand Side Management Charge	~~0.0000~~		0.0000				
Conservation Charge (CCx)		$ 0.0450		$ 0.0640			
Relief Holder and pond at Gas Street, Concord, NH	~~0.0000~~		0.0000				
Manufactured Gas Plants	~~0.0161~~		0.0153				
Environmental Surcharge (ES)		~~0.0161~~		0.0153			
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0298)			
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0003~~		0.0001			
Rate Case Expense Factor (RCEF)		~~0.0092~~		0.0017			
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123			
LDAC		~~$ 0.0836~~		**$ 0.0635**			**per therm**
Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55							
Energy Efficiency Charge	~~$ 0.0387~~		$ 0.0426				
Demand Side Management Charge	~~-~~		-				
Conservation Charge (CCx)		$ 0.0387		$ 0.0426	~~$ 0.0387~~	$ 0.0426	
Relief Holder and pond at Gas Street, Concord, NH	~~-~~		-				
Manufactured Gas Plants	~~0.0161~~		0.0153				
Environmental Surcharge (ES)		$ 0.0161		$ 0.0153	~~$ 0.0161~~	$ 0.0153	
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0225)	~~0.0000~~	(0.0225)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0001~~		0.0001	~~0.0001~~	0.0001	
Rate Case Expense Factor (RCEF)		~~0.0092~~		0.0017	~~0.0092~~	0.0017	
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123	~~0.0130~~	0.0123	
LDAC		~~$0.0772~~		**$0.0494**	~~$0.0772~~	**$0.0494**	**per therm**
Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56							
Energy Efficiency Charge	~~$ 0.0387~~		$ 0.0426				
Demand Side Management Charge	~~-~~		-				
Conservation Charge (CCx)		$ 0.0387		$ 0.0426	~~$ 0.0387~~	$ 0.0426	
Relief Holder and pond at Gas Street, Concord, NH	~~-~~		-				
Manufactured Gas Plants	~~0.0161~~		0.0153				
Environmental Surcharge (ES)		$ 0.0161		$ 0.0153	~~$ 0.0161~~	$ 0.0153	
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0225)	~~0.0000~~	(0.0225)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0001~~		0.0001	~~0.0001~~	0.0001	
Rate Case Expense Factor (RCEF)		~~0.0092~~		0.0017	~~0.0092~~	0.0017	
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123	~~0.0130~~	0.0123	
LDAC		~~$ 0.0772~~		**$ 0.0494**	**$ 0.0772**	**$ 0.0494**	**per therm**
Commercial/Industrial Large Annual Use Rates - G-43, G-53, G-54, G-46, G-56, G-57, G-58							
Energy Efficiency Charge	~~$ 0.0387~~		$ 0.0426				
Demand Side Management Charge	~~-~~		-				
Conservation Charge (CCx)		$ 0.0387		$ 0.0426	~~$ 0.0387~~	$ 0.0426	
Relief Holder and pond at Gas Street, Concord, NH	~~-~~		-				
Manufactured Gas Plants	~~0.0161~~		0.0153				
Environmental Surcharge (ES)		$0.0161		0.0153	~~0.0161~~	0.0153	
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0225)	~~0.0000~~	(0.0225)	
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0001~~		0.0001	~~0.0001~~	0.0001	
Rate Case Expense Factor (RCEF)		~~0.0092~~		0.0017	~~0.0092~~	0.0017	
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123	~~0.0130~~	0.0123	
LDAC		**$0.0772**		**$0.0494**	**$0.0772**	**$0.0494**	**per therm**

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ATTACHMENT B
Schedule of Administrative Fees and Charges

I.	Supplier Balancing Charge:	~~$ 0.19~~	0	
II.	Capacity Mitigation Fee	~~15%~~	15% of the Proceeds from the Marketing of Capacity for Mitigation.	
III.	Peaking Demand Charge	~~$ 20.41~~	$ 18.12	
IV.	Company Allowance Calculation (per Schedule 25)			
		~~173,718,990~~	181,100,282	Total Sendout - Therms Jul-2018 - Jun-2019 ~~Total Sendout - Therms Jul 2017 - Jun 2018~~
		~~170,585,367~~	177,619,709	Total Throughput - Therms Jul-2018 - Jun-2019 ~~Total Throughput - Therms Jul 2017 - Jun 2018~~
		~~3,133,623~~	3,480,573	Variance (Sendout - Throughput)
Company Allowance Percentage	2019-20 ~~2018-19~~	~~1.8%~~	1.9%	Variance / Total Sendout

ATTACHMENT C

CAPACITY ALLOCATORS

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual /High Winter Use	~~47.2%~~ 46.5%	~~17.5%~~ 17.2%	~~35.3%~~ 36.3%	100.0%
G-51	Low Annual /Low Winter Use	~~59.0%~~ 60.3%	~~13.6%~~ 12.8%	~~27.4%~~ 26.9%	100.0%
G-42	Medium Annual / High Winter	~~47.2%~~ 46.5%	~~17.5%~~ 17.2%	~~35.3%~~ 36.3%	100.0%
G-52	High Annual / Low Winter Use	~~59.0%~~ 60.3%	~~13.6%~~ 12.8%	~~27.4%~~ 26.9%	100.0%
G-43	High Annual / High Winter	~~47.2%~~ 46.5%	~~17.5%~~ 17.2%	~~35.3%~~ 36.3%	100.0%
G-53	High Annual / Load Factor < 90%	~~59.0%~~ 60.3%	~~13.6%~~ 12.8%	~~27.4%~~ 26.9%	100.0%
G-54	High Annual / Load Factor > 90%	~~59.0%~~ 60.3%	~~13.6%~~ 12.8%	~~27.4%~~ 26.9%	100.0%