

II RATE SCHEDULES
FIRM RATE SCHEDULES

Rates effective November 1, 2020 - April 30, 2021
Rates effective November 1, 2021 - April 30, 2022
Winter Period

Rates Effective May 1, 2021 - October 31, 2021
Rates Effective May 1, 2022 - October 31, 2022
Summer Period

	Cost of				Cost of			
	Delivery Charge	Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Gas Rate Page 92	LDAC Page 101	Total Rate
Residential Non Heating - R-1	\$ 15.50			\$ 15.50	\$ 15.50			\$ 15.50
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
All Therms	\$ 0.3844	\$ 1.1339	\$ 0.1444	\$ 1.6627	\$ 0.3844	\$ 0.5587	\$ 0.1444	\$ 1.0875
	\$ 0.3860	\$ 0.5574	\$ 0.0589	\$ 1.0020	\$ 0.3860	\$ 0.3148	\$ 0.0589	\$ 0.7597
Residential Heating - R-3	\$ 15.50			\$ 15.50	\$ 15.50			\$ 15.50
Customer Charge per Month per Meter	\$ 15.39			\$ 15.39	\$ 15.39			\$ 15.39
Size of the first block all therms	\$ 0.5632	\$ 1.1339	\$ 0.1444	\$ 1.8415	\$ 0.5632	\$ 0.5587	\$ 0.1444	\$ 1.2663
All Therms	\$ 0.5678	\$ 0.5574	\$ 0.0589	\$ 1.1838	\$ 0.5678	\$ 0.3148	\$ 0.0589	\$ 0.9415
	\$ 8.52			\$ 8.52	\$ 15.50			\$ 15.50
Residential Heating - R-4	\$ 8.47			\$ 8.47	\$ 15.39			\$ 15.39
Customer Charge per Month per Meter	\$ 8.47			\$ 8.47	\$ 15.39			\$ 15.39
Size of the first block all therms	\$ 0.3098	\$ 0.6236	\$ 0.1444	\$ 1.0778	\$ 0.5632	\$ 0.5587	\$ 0.1444	\$ 1.2663
All Therms	\$ 0.3123	\$ 0.3064	\$ 0.0589	\$ 0.6776	\$ 0.5678	\$ 0.3148	\$ 0.0589	\$ 0.9415
	\$ 57.46			\$ 57.46	\$ 57.46			\$ 57.46
Commercial/Industrial - G-41	\$ 57.06			\$ 57.06	\$ 57.06			\$ 57.06
Customer Charge per Month per Meter	\$ 57.06			\$ 57.06	\$ 57.06			\$ 57.06
Size of the first block 100 therms	\$ 0.4688	\$ 1.1341	\$ 0.0878	\$ 1.6907	\$ 0.4688	\$ 0.5593	\$ 0.0878	\$ 1.1159
Therms in the first block per month at	\$ 0.4711	\$ 0.5552	\$ 0.0555	\$ 1.0818	\$ 0.4711	\$ 0.3109	\$ 0.0555	\$ 0.8375
All therms over the first block per month at	\$ 0.3149	\$ 1.1341	\$ 0.0878	\$ 1.5368	\$ 0.3149	\$ 0.5593	\$ 0.0878	\$ 0.9620
	\$ 0.3165	\$ 0.5552	\$ 0.0555	\$ 0.9272	\$ 0.3165	\$ 0.3109	\$ 0.0555	\$ 0.6829
Commercial/Industrial - G-42	\$ 172.39			\$ 172.39	\$ 172.39			\$ 172.39
Customer Charge per Month per Meter	\$ 171.19			\$ 171.19	\$ 171.19			\$ 171.19
Size of the first block 1000 therms	\$ 0.4261	\$ 1.1341	\$ 0.0878	\$ 1.6480	\$ 0.4261	\$ 0.5593	\$ 0.0878	\$ 1.0732
Therms in the first block per month at	\$ 0.4284	\$ 0.5552	\$ 0.0555	\$ 1.0394	\$ 0.4284	\$ 0.3109	\$ 0.0555	\$ 0.7948
All therms over the first block per month at	\$ 0.2839	\$ 1.1341	\$ 0.0878	\$ 1.5058	\$ 0.2839	\$ 0.5593	\$ 0.0878	\$ 0.9310
	\$ 0.2855	\$ 0.5552	\$ 0.0555	\$ 0.8962	\$ 0.2855	\$ 0.3109	\$ 0.0555	\$ 0.6519
Commercial/Industrial - G-43	\$ 739.83			\$ 739.83	\$ 739.83			\$ 739.83
Customer Charge per Month per Meter	\$ 734.69			\$ 734.69	\$ 734.69			\$ 734.69
All therms over the first block per month at	\$ 0.2620	\$ 1.1341	\$ 0.0878	\$ 1.4839	\$ 0.1198	\$ 0.5593	\$ 0.0878	\$ 0.7669
	\$ 0.2633	\$ 0.5552	\$ 0.0555	\$ 0.8740	\$ 0.1204	\$ 0.3109	\$ 0.0555	\$ 0.4868
Commercial/Industrial - G-51	\$ 57.46			\$ 57.46	\$ 57.46			\$ 57.46
Customer Charge per Month per Meter	\$ 57.06			\$ 57.06	\$ 57.06			\$ 57.06
Size of the first block 100 therms	\$ 0.2819	\$ 1.1324	\$ 0.0878	\$ 1.5021	\$ 0.2819	\$ 0.5580	\$ 0.0878	\$ 0.9277
Therms in the first block per month at	\$ 0.2839	\$ 0.5660	\$ 0.0555	\$ 0.9054	\$ 0.2839	\$ 0.3109	\$ 0.0555	\$ 0.6593
All therms over the first block per month at	\$ 0.1833	\$ 1.1324	\$ 0.0878	\$ 1.4035	\$ 0.1833	\$ 0.5580	\$ 0.0878	\$ 0.8291
	\$ 0.1846	\$ 0.5660	\$ 0.0555	\$ 0.8061	\$ 0.1846	\$ 0.3109	\$ 0.0555	\$ 0.5600
Commercial/Industrial - G-52	\$ 172.39			\$ 172.39	\$ 172.39			\$ 172.39
Customer Charge per Month per Meter	\$ 171.19			\$ 171.19	\$ 171.19			\$ 171.19
Size of the first block 1000 therms	\$ 0.2428	\$ 1.1324	\$ 0.0878	\$ 1.4630	\$ 0.1759	\$ 0.5580	\$ 0.0878	\$ 0.8217
Therms in the first block per month at	\$ 0.2439	\$ 0.5660	\$ 0.0555	\$ 0.8654	\$ 0.1767	\$ 0.3109	\$ 0.0555	\$ 0.5524
All therms over the first block per month at	\$ 0.1617	\$ 1.1324	\$ 0.0878	\$ 1.3819	\$ 0.1000	\$ 0.5580	\$ 0.0878	\$ 0.7458
	\$ 0.1624	\$ 0.5660	\$ 0.0555	\$ 0.7839	\$ 0.1004	\$ 0.3109	\$ 0.0555	\$ 0.4758
Commercial/Industrial - G-53	\$ 761.39			\$ 761.39	\$ 761.39			\$ 761.39
Customer Charge per Month per Meter	\$ 756.10			\$ 756.10	\$ 756.10			\$ 756.10
All therms over the first block per month at	\$ 0.1697	\$ 1.1324	\$ 0.0878	\$ 1.3899	\$ 0.0814	\$ 0.5580	\$ 0.0878	\$ 0.7272
	\$ 0.1705	\$ 0.5660	\$ 0.0555	\$ 0.7920	\$ 0.0818	\$ 0.3109	\$ 0.0555	\$ 0.4572
Commercial/Industrial - G-54	\$ 761.39			\$ 761.39	\$ 761.39			\$ 761.39
Customer Charge per Month per Meter	\$ 756.10			\$ 756.10	\$ 756.10			\$ 756.10
All therms over the first block per month at	\$ 0.0648	\$ 1.1324	\$ 0.0878	\$ 1.2850	\$ 0.0352	\$ 0.5580	\$ 0.0878	\$ 0.6810
	\$ 0.0650	\$ 0.5660	\$ 0.0555	\$ 0.6865	\$ 0.0353	\$ 0.3109	\$ 0.0555	\$ 0.4107

Issued: ~~October xx, 2020~~ October xx, 2021
Effective: ~~November 1, 2020~~ November 1, 2021

Issued by: _____
Title: Neil Proudman
President

Issued in compliance with NHPUC Order No. xx,xxx dated xxxx xx, 2021 in Docket DG 21-xxx.
~~Issued in compliance with NHPUC Order No. 26,419 dated October 31, 2020 in Docket DG 20-141~~

II RATE SCHEDULES
FIRM RATE SCHEDULES

Rates effective November 1, 2020 - April 30, 2021
Rates effective November 1, 2021 - April 30, 2022
Winter Period

Rates Effective May 1, 2021 - October 31, 2021
Rates Effective May 1, 2022 - October 31, 2022
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
Residential Non Heating - R-5	\$ 20.15			\$ 20.15	\$ 20.15			\$ 20.15
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
All Therms	\$ 0.4997	\$ 1.1339	\$ 0.1444	\$ 1.7780	\$ 0.4997	\$ 0.5587	\$ 0.1444	\$ 1.2028
	\$ 0.6048	\$ 0.5674	\$ 0.0589	\$ 1.1178	\$ 0.6048	\$ 0.3148	\$ 0.0589	\$ 0.8756
Residential Heating - R-6	\$ 20.15			\$ 20.15	\$ 20.15			\$ 20.15
Customer Charge per Month per Meter	\$ 20.01			\$ 20.01	\$ 20.01			\$ 20.01
Size of the first block								
All Therms								
Therms in the first block per month at	\$ 0.7322	\$ 1.1339	\$ 0.1444	\$ 2.0105	\$ 0.7322	\$ 0.5587	\$ 0.1444	\$ 1.4353
	\$ 0.7381	\$ 0.5674	\$ 0.0589	\$ 1.3644	\$ 0.7381	\$ 0.3148	\$ 0.0589	\$ 1.1118
Residential Heating - R-7	\$ 11.08			\$ 11.08	\$ 20.15			\$ 20.15
Customer Charge per Month per Meter	\$ 11.01			\$ 11.01	\$ 20.01			\$ 20.01
Size of the first block								
All Therms								
Therms in the first block per month at	\$ 0.4027	\$ 0.6236	\$ 0.1444	\$ 1.1708	\$ 0.7322	\$ 0.5587	\$ 0.1444	\$ 1.4353
	\$ 0.4060	\$ 0.3064	\$ 0.0589	\$ 0.7713	\$ 0.7381	\$ 0.3148	\$ 0.0589	\$ 1.1118
Commercial/Industrial - G-44	\$ 74.69			\$ 74.69	\$ 74.69			\$ 74.69
Customer Charge per Month per Meter	\$ 74.18			\$ 74.18	\$ 74.18			\$ 74.18
Size of the first block								
100 therms								
Therms in the first block per month at	\$ 0.6094	\$ 1.1341	\$ 0.0878	\$ 1.8313	\$ 0.6094	\$ 0.5593	\$ 0.0878	\$ 1.2565
	\$ 0.6126	\$ 0.5652	\$ 0.0555	\$ 1.2333	\$ 0.6126	\$ 0.3109	\$ 0.0555	\$ 0.9790
All therms over the first block per month at	\$ 0.4094	\$ 1.1341	\$ 0.0878	\$ 1.6313	\$ 0.4094	\$ 0.5593	\$ 0.0878	\$ 1.0565
	\$ 0.4114	\$ 0.5652	\$ 0.0555	\$ 1.0224	\$ 0.4114	\$ 0.3109	\$ 0.0555	\$ 0.7778
Commercial/Industrial - G-45	\$ 224.11			\$ 224.11	\$ 224.11			\$ 224.11
Customer Charge per Month per Meter	\$ 222.55			\$ 222.55	\$ 222.55			\$ 222.55
Size of the first block								
1000 therms								
Therms in the first block per month at	\$ 0.5539	\$ 1.1341	\$ 0.0878	\$ 1.7758	\$ 0.5539	\$ 0.5593	\$ 0.0878	\$ 1.2010
	\$ 0.5569	\$ 0.5652	\$ 0.0555	\$ 1.1676	\$ 0.5569	\$ 0.3109	\$ 0.0555	\$ 0.9233
All therms over the first block per month at	\$ 0.3691	\$ 1.1341	\$ 0.0878	\$ 1.5910	\$ 0.3691	\$ 0.5593	\$ 0.0878	\$ 1.0162
	\$ 0.3711	\$ 0.5652	\$ 0.0555	\$ 0.9818	\$ 0.3711	\$ 0.3109	\$ 0.0555	\$ 0.7376
Commercial/Industrial - G-46	\$ 961.78			\$ 961.78	\$ 961.78			\$ 961.78
Customer Charge per Month per Meter	\$ 955.10			\$ 955.10	\$ 955.10			\$ 955.10
All therms over the first block per month at	\$ 0.3406	\$ 1.1341	\$ 0.0878	\$ 1.5625	\$ 0.1557	\$ 0.5593	\$ 0.0878	\$ 0.8028
	\$ 0.3423	\$ 0.5652	\$ 0.0555	\$ 0.9530	\$ 0.1565	\$ 0.3109	\$ 0.0555	\$ 0.5229
Commercial/Industrial - G-55	\$ 74.69			\$ 74.69	\$ 74.69			\$ 74.69
Customer Charge per Month per Meter	\$ 74.18			\$ 74.18	\$ 74.18			\$ 74.18
Size of the first block								
100 therms								
Therms in the first block per month at	\$ 0.3665	\$ 1.1324	\$ 0.0878	\$ 1.5867	\$ 0.3665	\$ 0.5580	\$ 0.0878	\$ 1.0123
	\$ 0.3694	\$ 0.5660	\$ 0.0555	\$ 0.9906	\$ 0.3694	\$ 0.3109	\$ 0.0555	\$ 0.7445
All therms over the first block per month at	\$ 0.2383	\$ 1.1324	\$ 0.0878	\$ 1.4585	\$ 0.2383	\$ 0.5580	\$ 0.0878	\$ 0.8841
	\$ 0.2400	\$ 0.5660	\$ 0.0555	\$ 0.8615	\$ 0.2400	\$ 0.3109	\$ 0.0555	\$ 0.6154
Commercial/Industrial - G-56	\$ 224.11			\$ 224.11	\$ 224.11			\$ 224.11
Customer Charge per Month per Meter	\$ 222.55			\$ 222.55	\$ 222.55			\$ 222.55
Size of the first block								
1000 therms								
Therms in the first block per month at	\$ 0.3156	\$ 1.1324	\$ 0.0878	\$ 1.5358	\$ 0.2287	\$ 0.5580	\$ 0.0878	\$ 0.8745
	\$ 0.3174	\$ 0.5660	\$ 0.0555	\$ 0.9386	\$ 0.2297	\$ 0.3109	\$ 0.0555	\$ 0.6054
All therms over the first block per month at	\$ 0.2102	\$ 1.1324	\$ 0.0878	\$ 1.4304	\$ 0.1300	\$ 0.5580	\$ 0.0878	\$ 0.7758
	\$ 0.2114	\$ 0.5660	\$ 0.0555	\$ 0.8326	\$ 0.1304	\$ 0.3109	\$ 0.0555	\$ 0.5058
Commercial/Industrial - G-57	\$ 989.80			\$ 989.80	\$ 989.80			\$ 989.80
Customer Charge per Month per Meter	\$ 982.93			\$ 982.93	\$ 982.93			\$ 982.93
All therms over the first block per month at	\$ 0.2207	\$ 1.1324	\$ 0.0878	\$ 1.4409	\$ 0.1059	\$ 0.5580	\$ 0.0878	\$ 0.7517
	\$ 0.2216	\$ 0.5660	\$ 0.0555	\$ 0.8431	\$ 0.1063	\$ 0.3109	\$ 0.0555	\$ 0.4817
Commercial/Industrial - G-58	\$ 989.80			\$ 989.80	\$ 989.80			\$ 989.80
Customer Charge per Month per Meter	\$ 982.93			\$ 982.93	\$ 982.93			\$ 982.93
All therms over the first block per month at	\$ 0.0842	\$ 1.1324	\$ 0.0878	\$ 1.3044	\$ 0.0457	\$ 0.5580	\$ 0.0878	\$ 0.6915
	\$ 0.0846	\$ 0.5660	\$ 0.0555	\$ 0.7061	\$ 0.0459	\$ 0.3109	\$ 0.0555	\$ 0.4213

Issued: ~~October xx, 2020~~ October xx, 2021
Effective: ~~November 1, 2020~~ November 1, 2021

Issued by: _____
Title: Neil Proudman
President

Issued in compliance with NHPUC Order No. xx,xxx dated xxxx xx, 2021 in Docket DG 21-xxx.
Issued in compliance with NHPUC Order No. 26,419 dated October 31, 2020 in Docket DG 20-141.

II. RATE SCHEDULES
CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2021 THROUGH APRIL 30, 2022
PRIOR PERIOD COVERED: ~~WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021~~
(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	\$ 47,150,454		\$ 74,822,730	
Projected Prorated Sales (44/04/20 —4/30/21)(11/01/21 - 04/30/22)	88,243,529		87,443,741	
Direct Cost of Gas Rate		\$ 0.5345		\$ 0.8557 per therm
Demand Cost of Gas Rate	\$ 12,978,688	\$ 0.1474	\$ 13,859,546	\$ 0.1585
Commodity Cost of Gas Rate	33,157,366	0.3759	\$ 60,820,831	\$ 0.6955
Adjustment Cost of Gas Rate	1,014,399	0.0115	\$ 142,353	\$ 0.0016
Total Direct Cost of Gas Rate	\$ 47,150,454	\$ 0.5345	\$ 74,822,730	\$ 0.8557
Total Anticipated Indirect Cost of Gas	\$ 2,222,909		\$ 4,360,293	
Projected Prorated Sales (44/04/20 —4/30/21)(11/01/21 - 04/30/22)	88,243,529		87,443,741	
Indirect Cost of Gas		\$ 0.0252		\$ 0.0499 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (44/04/20)(11/01/21)		\$ 0.5597		\$ 0.9056
Calculation of FPO				
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (44/04/20)(11/01/21)		\$ 0.5597		\$ 0.9056
FPO Risk Premium		\$ 0.0200		\$ 0.0200
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (44/04/20)(11/01/21)		\$ 0.5797		\$ 0.9256
RESIDENTIAL COST OF GAS RATE - EXCLUDING GAP - (44/04/2020)(11/1/2021)	/therm	\$ 0.5797	/therm	\$ 0.9256
Total Anticipated Direct Cost of Gas	\$ 47,150,454		\$ 74,822,730	
Projected Prorated Sales (44/04/20 —4/30/21)(11/01/21 - 04/30/22)	88,243,529		87,443,741	
Direct Cost of Gas Rate		\$ 0.5345		\$ 0.8557 per therm
Demand Cost of Gas Rate	\$ 12,978,688	\$ 0.1474	\$ 13,859,546	\$ 0.1585
Commodity Cost of Gas Rate	33,157,366	0.3759	\$ 60,820,831	\$ 0.6955
Adjustment Cost of Gas Rate	1,014,399	0.0115	\$ 142,353	\$ 0.0016
Total Direct Cost of Gas Rate	\$ 47,150,454	\$ 0.5345	\$ 74,822,730	\$ 0.8557
Total Anticipated Indirect Cost of Gas	\$ 2,222,909		\$ 4,360,293	
Projected Prorated Sales (44/04/20 —4/30/21)(11/01/21 - 04/30/22)	88,243,529		87,443,741	
Indirect Cost of Gas		\$ 0.0252		\$ 0.0499 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (44/04/20)(11/01/21)		\$ 0.5597		\$ 0.9056
Calculation of FPO				
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (44/04/20)(11/01/21)		\$ 0.3078		\$ 0.4981
FPO Risk Premium		\$ 0.0110		\$ 0.0110
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (44/04/20)(11/01/21)		\$ 0.3188		\$ 0.5091
RESIDENTIAL COST OF GAS RATE - GAP - (44/04/2020)(11/1/2021)	/therm	\$ 0.3188	/therm	\$ 0.5091

Issued: ~~October xx, 2020~~ October xx, 2021
Effective: ~~November 1, 2020~~ November 1, 2021

Issued by: _____
Neil Proudman
Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated xxxx xx, 2021 in Docket DG 21-xxx.
~~Issued in compliance with NHPUC Order No. 26,419 dated October 31, 2020 in Docket DG 20-141.~~

CALCULATION OF FIRM SALES COST OF GAS RATE

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2021 THROUGH APRIL 30, 2022
PRIOR PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021
(Refer to Text in Section 17 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 47,150,454		\$ 94,810,891	
Projected Prorated Sales (11/01/20 - 04/30/21)(11/01/19 - 04/30/20)	<u>88,213,529</u>		87,443,741	
Direct Cost of Gas Rate		0.5345		\$ 1.0843 per therm
Demand Cost of Gas Rate	\$ 12,978,688	0.1474	\$ 13,868,897	\$ 0.1586
Commodity Cost of Gas Rate	<u>33,167,366</u>	<u>0.3759</u>	80,780,853	\$ 0.9238
Adjustment Cost of Gas Rate	<u>1,014,399</u>	<u>0.0115</u>	161,141	\$ 0.0018
Total Direct Cost of Gas Rate	\$ 47,150,454	0.5345	\$ 94,810,891	\$ 1.0843
Total Anticipated Indirect Cost of Gas	\$ 2,222,909		\$ 4,338,002	
Projected Prorated Sales (11/01/20 - 04/30/21)(11/01/19 - 04/30/20)	<u>88,213,529</u>		87,443,741	
Indirect Cost of Gas		\$ 0.0252		\$ 0.0496 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/21				\$ 1.1339 per Therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/19		\$ 0.5597		

RESIDENTIAL COST OF GAS RATE - 11/01/21	COGwr	\$ 1.1339 /therm
RESIDENTIAL COST OF GAS RATE - 11/01/20	COGwr	\$ 0.5597 /therm

Maximum (COG + 25%) \$ 0.7754 \$ 1.4174

GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 & R-7 - 11/01/21	\$ 0.6236 /therm
GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 & R-7 - 11/01/20	\$ 0.3078 /therm

Maximum (COG + 25%) \$ 0.3848 \$ 0.7796

C&I LOW WINTER USE COST OF GAS RATE - 11/01/21	COGwl	\$ 1.1324 /therm
C&I LOW WINTER USE COST OF GAS RATE - 11/01/20	COGwl	\$ 0.5686 /therm

Average Demand Cost of Gas Rate Effective 11/01/20 11/01/21	\$ 0.1474	\$ 0.1586	Maximum (COG + 25%)	\$ 0.7407	\$ 1.4155
Times: Low Winter Use Ratio (Winter)	<u>1.0620</u>	0.9910			
Times: Correction Factor	<u>0.9984</u>	1.0001			
Adjusted Demand Cost of Gas Rate	\$ 0.1560	\$ 0.1572			
Commodity Cost of Gas Rate	\$ 0.3759	\$ 0.9238			
Adjustment Cost of Gas Rate	<u>0.0115</u>	0.0018			
Indirect Cost of Gas Rate	<u>0.0252</u>	0.0496			
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.5686	\$ 1.1324			

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/21	COGwh	\$ 1.1341 /therm
C&I HIGH WINTER USE COST OF GAS RATE - 11/01/20	COGwh	\$ 0.6190 /therm

Average Demand Cost of Gas Rate Effective 11/01/20 11/01/21	\$ 0.1474	\$ 0.1586	Maximum (COG + 25%)	\$ 0.6973	\$ 1.4176
Times: High Winter Use Ratio (Winter)	<u>0.9890</u>	1.0017			
Times: Correction Factor	<u>0.9984</u>	1.0001			
Adjusted Demand Cost of Gas Rate	\$ 0.1452	\$ 0.1589			
Commodity Cost of Gas Rate	\$ 0.3759	\$ 0.9238	Minimum		
Adjustment Cost of Gas Rate	<u>0.0115</u>	0.0018	Maximum		
Indirect Cost of Gas Rate	<u>0.0252</u>	0.0496			
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.6678	\$ 1.1341			

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Issued in compliance with NHPUC Order No. xx,xxx dated xxxx xx, 2021 in Docket DG 21-xxx.
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Anticipated Cost of Gas
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2021 THROUGH APRIL 30, 2022
PRIOR PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021
(REFER TO TEXT ON IN SECTION 17 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)	(Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS				
Purchased Gas:				
Demand Costs:	\$ 12,022,922		\$ 12,887,000	
Supply Costs:	<u>28,270,842</u>		<u>72,351,034</u>	
Storage Gas:				
Demand, Capacity:	\$ 955,766		\$ 981,898	
Commodity Costs:	<u>3,285,987</u>		<u>6,130,435</u>	
Produced Gas:	<u>1,591,538</u>		<u>2,299,384</u>	
Hedged Contract (Saving)/Loss	<u> </u>		<u>-</u>	
Hedge Underground Storage Contract (Saving)/Loss	<u> </u>		<u>-</u>	
Unadjusted Anticipated Cost of Gas	<u>\$ 46,136,054</u>		<u>\$ 94,649,751</u>	
Adjustments:				
Prior Period (Over)/Under Recovery (as of 05/01/21)	\$ 2,227,421		\$ 1,431,639	
Interest	<u>74,791</u>		<u>44,085</u>	
Fuel Inventory Revenue Requirement	<u>441,037</u>		<u>335,667</u>	
Broker Revenues	<u>(32,726)</u>		<u>(3,600)</u>	
Refunds from Suppliers	<u> </u>		<u>-</u>	
Fuel Financing	<u> </u>		<u>-</u>	
Transportation CGA Revenues	<u>(4,543)</u>		<u>(6,938)</u>	
Interruptible Sales Margin	<u> </u>		<u>-</u>	
Capacity Release and Off System Sales Margins	<u>(1,736,581)</u>		<u>(1,676,512)</u>	
Hedging Costs	<u> </u>		<u>-</u>	
Fixed Price Option Administrative Costs	<u>45,000</u>		<u>36,800</u>	
Total Adjustments	<u>1,014,399</u>		<u>161,141</u>	
Total Anticipated Direct Cost of Gas	<u>\$ 47,150,454</u>		<u>\$ 94,810,891</u>	
Anticipated Indirect Cost of Gas				
Working Capital:				
Total Unadjusted Anticipated Cost of Gas 11/01/21 - 04/30/22	\$ 46,136,054		\$ 94,649,751	
Working Capital Rate: Lead Lag Days / 365	<u>0.0391</u>		<u>0.0705</u>	
Prime Rate	<u>3.25%</u>		<u>3.25%</u>	
Working Capital Percentage	<u>0.427%</u>		<u>0.229%</u>	
Working Capital	\$ 58,634		\$ 216,761	
Plus: Working Capital Reconciliation (Acct 142.20)	<u>(66,837)</u>		<u>(14,859)</u>	
Total Working Capital Allowance	<u>(8,203)</u>		<u>201,902</u>	
Bad Debt:				
Total Unadjusted Anticipated Cost of Gas 11/01/21 - 04/30/22	\$ 46,136,054		\$ 94,649,751	
Less: Refunds	<u> </u>		<u>-</u>	
Plus: Total Working Capital	<u>(8,203)</u>		<u>201,902</u>	
Plus: Prior Period (Over)/Under Recovery	<u>2,227,421</u>		<u>1,431,639</u>	
Subtotal	\$ 48,355,272		\$ 96,283,291	
Bad Debt Percentage	<u>1.11%</u>		<u>0.70%</u>	
Bad Debt Allowance	\$ 536,744		\$ 673,983	
Plus: Bad Debt Reconciliation (Acct 175.52)	<u>(296,628)</u>		<u>(223,340)</u>	
Total Bad Debt Allowance	<u>240,116</u>		<u>450,643</u>	
Production and Storage Capacity	<u>\$ 1,980,428</u>		<u>\$ 3,685,458</u>	
Miscellaneous Overhead 11/01/21 - 04/30/22	\$ 13,170		\$ -	
Times Winter Sales	<u>89,365</u>		<u>91,677</u>	
Divided by Total Sales	<u>111,369</u>		<u>115,043</u>	
Miscellaneous Overhead	<u>10,568</u>		<u>-</u>	
Total Anticipated Indirect Cost of Gas	<u>\$ 2,222,999</u>		<u>\$ 4,338,002</u>	
Total Cost of Gas	<u>\$ 49,373,363</u>		<u>\$ 99,148,894</u>	

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II. RATE SCHEDULES

Calculation of Firm Transportation Cost of Gas Rate

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2021 THROUGH APRIL 30, 2022

~~PRIOR PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2020 THROUGH APRIL 30, 2021~~
(Refer to text in Section 16(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	\$ 568,514			\$ 920,459		
LNG	\$ 1,023,026			1,378,925		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	<u>1,591,538</u>			2,299,384		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	8.7%			8.7%		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<u>\$ 138,464</u>			<u>\$ 200,046</u>		
PROJECTED FIRM THROUGHPUT (THERMS):						
FIRM SALES	99,364,968	67.8%		91,676,680	68.3%	
FIRM TRANSPORTATION SUBJECT TO FTCC	42,456,275	32.2%		42,583,790	31.7%	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	131,821,243	100.0%		134,260,470	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	32.2%	x	138,464	= \$ 44,596	31.7%	x
				\$ 200,046	=	\$ 63,449
PRIOR (OVER) OR UNDER COLLECTION				(40,053)		<u>(56,511)</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS				\$ 4,543		\$ 6,938
PROJECTED FIRM TRANSPORTATION THROUGHPUT				42,456,275		42,583,790
FIRM TRANSPORTATION COST OF GAS				\$ 0.0004		\$ 0.0002

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Environmental Surcharge - Manufactured Gas Plants

Manufactured Gas Plants

Required Annual Environmental Increase	\$ 2,864,179	\$ 2,351,805
Second one-third of prior period under recoveries (through June 2019)	\$ 341,389	\$ 341,389
July 2020 - June 2021 recovery difference between actual and estimate	\$ 338,564	\$ <u>139,028</u>
Environmental Subtotal	\$ 3,544,132	\$ 2,832,222
Overall Annual Net Increase to Rates		
Estimated weather normalized firm therms billed for the twelve months ended 10/31/2022 - sales and transportation	179,574,679	182,829,872 therms
Surcharge per therm	\$ 0.0197	\$ <u>0.0155</u> per therm
Total Environmental Surcharge	\$ 0.0197	\$ <u><u>0.0155</u></u>

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**NHPUC NO. 11 - GAS
LIBERTY UTILITIES**

Proposed First Revised Page 100
Superseding Original Page 100

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty
Local Distribution Adjustment Charge (LDAC) decrease due to Rate Case Expense and Recoupment
For LDAC effective November 1, 2021 - October 31, 2022
~~For LDAC effective November 1, 2020 - October 31, 2021~~

1	Rate Case Expense Remaining from Docket No. DG 17-048	\$87,069
2	Recoupment Remaining from Docket No. DG 17-048	<u>\$0</u>
3	July 1, 2020 Balance	\$87,069
4	Plus Estimated Interest from July 2020 through October 2020	\$745
5	Minus Estimated Recoveries from July 2020 through October 2020	<u>(\$43,733)</u>
6	Total Estimated Remaining Recovery As of November 1, 2020	\$44,081
7	Estimated November 2019 - October 2020 Interest	<u>\$538</u>
8	Total Remaining Recovery	\$44,619
9	Estimated November 2020 - October 2021 Sales (therms)	179,574,679
40	RCE & Recoupment rate per therm November 2020 - October 2021	\$0.0002
1	<u>Rate Case Expense</u>	
2	Prior Period Balance	(\$11,949)
3	Expenses thru June 30, 2021	<u>\$785,177</u>
4	Balance at June 30, 2021	\$773,228
5	Less: Accrual Balance	<u>(\$26,000)</u>
6	Adjusted Rate Case Expense	\$747,228
7		
8	<u>Recoupment</u>	
9	Distribution Recoupment from Docket No. DG 20-105	(\$568,780)
10	Indirect Costs Recoupment from Docket No. DG 20-105	<u>\$1,900,000</u>
11	Total Recoupment	\$1,331,220
12		
13	July 1, 2021 Balance	\$2,078,448
14		
15	Estimated Remaining Expenses	\$97,375
16		
17	Plus Estimated Interest from July 2021 through October 2021	\$19,820
18		
19	Minus Estimated Recoveries from July 2021 through October 2021	<u>(\$7,864)</u>
20		
21	Total Estimated Remaining Recovery As of November 1, 2021	\$2,187,779
22		
23	Estimated November 2021 - October 2022 Interest	<u>\$26,727</u>
24		
25	Total Remaining Recovery	<u>\$2,214,505</u>
26		
27	Estimated November 2021 - October 2022 Sales (therms)	<u>\$182,829,872</u>
28		
29	RCE & Recoupment rate per therm November 2021 - October 2022	<u>\$0.0121</u>

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Local Delivery Adjustment Clause Calculation

			<u>Sales Customers</u>	<u>Transportation Customers</u>
Residential Non Heating Rates - R-1				
Energy Efficiency Charge	\$ -0.0834	\$ 0.0861		
Demand Side Management Charge	\$ -	\$ -		
Conservation Charge (CCx)	\$ -	\$ -	\$ 0.0861	
Relief Holder and pond at Gas Street, Concord, NH	\$ -	\$ -		
Manufactured Gas Plants	\$ -0.0197	\$ 0.0155		
Environmental Surcharge (ES)	\$ -	\$ -	\$ 0.0155	
Revenue Decoupling Adjustment Factor (RDAF)	\$ (0.0562)	\$ -	\$ 0.0152	
Energy Efficiency Resource Standard Lost Revenue Mechanism	\$ -	\$ -	\$ -	
Rate Case Expense Factor (RCEF)	\$ -0.0002	\$ -	\$ 0.0121	
Gas Assistance Program (GAP)	\$ -0.0121	\$ -	\$ 0.0156	
LDAC	\$ -0.0589	\$ 0.1444		per therm

Residential Heating Rates - R-3, R-4, R-6, R-7				
Energy Efficiency Charge	\$ -0.0834	\$ 0.0861		
Demand Side Management Charge	\$ -	\$ -		
Conservation Charge (CCx)	\$ -0.0834	\$ -	\$ 0.0861	
Relief Holder and pond at Gas Street, Concord, NH	\$ -	\$ -		
Manufactured Gas Plants	\$ -0.0197	\$ 0.0155		
Environmental Surcharge (ES)	\$ -	\$ -	\$ 0.0155	
Revenue Decoupling Adjustment Factor (RDAF)	\$ (0.0562)	\$ -	\$ 0.0152	
Energy Efficiency Resource Standard Lost Revenue Mechanism	\$ -	\$ -	\$ -	
Rate Case Expense Factor (RCEF)	\$ -0.0002	\$ -	\$ 0.0121	
Gas Assistance Program (GAP)	\$ -0.0121	\$ -	\$ 0.0156	
LDAC	\$ -0.0589	\$ 0.1444		per therm

<u>Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55</u>				
Energy Efficiency Charge	\$ -0.0444	\$ 0.0408		
Demand Side Management Charge	\$ -	\$ -		
Conservation Charge (CCx)	\$ -0.0444	\$ -	\$ 0.0408	\$ -0.0426 \$ 0.0408
Relief Holder and pond at Gas Street, Concord, NH	\$ -	\$ -		
Manufactured Gas Plants	\$ -0.0197	\$ 0.0155		
Environmental Surcharge (ES)	\$ -	\$ -	\$ 0.0155	\$ -0.0453 \$ 0.0155
Revenue Decoupling Adjustment Factor (RDAF)	\$ (0.0206)	\$ -	\$ 0.0039	\$ (0.0241) \$ 0.0039 \$ (-0.0213)
Energy Efficiency Resource Standard Lost Revenue Mechanism	\$ -	\$ -	\$ -	\$ -0.0004 \$ -
Rate Case Expense Factor (RCEF)	\$ -0.0002	\$ -	\$ 0.0121	\$ -0.0017 \$ 0.0121
Gas Assistance Program (GAP)	\$ -0.0121	\$ -	\$ 0.0156	\$ -0.0123 \$ 0.0156
LDAC	\$ -0.0555	\$ 0.0878	\$ -0.0478	\$ 0.0878 per therm

<u>Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56</u>				
Energy Efficiency Charge	\$ -0.0444	\$ 0.0408		
Demand Side Management Charge	\$ -	\$ -		
Conservation Charge (CCx)	\$ -0.0444	\$ -	\$ 0.0408	\$ -0.0426 \$ 0.0408
Relief Holder and pond at Gas Street, Concord, NH	\$ -	\$ -		
Manufactured Gas Plants	\$ -0.0197	\$ 0.0155		
Environmental Surcharge (ES)	\$ -	\$ -	\$ 0.0155	\$ -0.0453 \$ 0.0155
Revenue Decoupling Adjustment Factor (RDAF)	\$ (0.0206)	\$ -	\$ 0.0039	\$ (0.0241) \$ 0.0039 \$ (-0.0213)
Energy Efficiency Resource Standard Lost Revenue Mechanism	\$ -	\$ -	\$ -	\$ -0.0004 \$ -
Rate Case Expense Factor (RCEF)	\$ -0.0002	\$ -	\$ 0.0121	\$ -0.0017 \$ 0.0121
Gas Assistance Program (GAP)	\$ -0.0121	\$ -	\$ 0.0156	\$ -0.0123 \$ 0.0156
LDAC	\$ -0.0555	\$ 0.0878	\$ -0.0478	\$ 0.0878 per therm

<u>Commercial/Industrial Large Annual Use Rates - G-43, G-53, G-54, G-46, G-56, G-57, G-58</u>				
Energy Efficiency Charge	\$ -0.0444	\$ 0.0408		
Demand Side Management Charge	\$ -	\$ -		
Conservation Charge (CCx)	\$ -0.0444	\$ -	\$ 0.0408	\$ -0.0426 \$ 0.0408
Relief Holder and pond at Gas Street, Concord, NH	\$ -	\$ -		
Manufactured Gas Plants	\$ -0.0197	\$ 0.0155		
Environmental Surcharge (ES)	\$ -	\$ -	\$ 0.0155	\$ -0.0453 \$ 0.0155
Revenue Decoupling Adjustment Factor (RDAF)	\$ (0.0206)	\$ -	\$ 0.0039	\$ (0.0241) \$ 0.0039 \$ (-0.0213)
Energy Efficiency Resource Standard Lost Revenue Mechanism	\$ -	\$ -	\$ -	\$ -0.0004 \$ -
Rate Case Expense Factor (RCEF)	\$ -0.0002	\$ -	\$ 0.0121	\$ -0.0017 \$ 0.0121
Gas Assistance Program (GAP)	\$ -0.0121	\$ -	\$ 0.0156	\$ -0.0123 \$ 0.0156
LDAC	\$ -0.0555	\$ 0.0878	\$ -0.0478	\$ 0.0878 per therm

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Effective: ~~November 1, 2020~~–November 1, 2021

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III DELIVERY TERMS AND CONDITIONS

**NHPUC NO. 11 - GAS
LIBERTY UTILITIES**

**Proposed Second Revised Page 153
Superseding Proposed First Revised Page 153**

**2 ATTACHMENT B
Schedule of Administrative Fees and Charges**

I.	Supplier Balancing Charge:	\$ 0.12	\$	0.18	
II.	Capacity Mitigation Fee	15%		15% of the Proceeds from the Marketing of Capacity for Mitigation.	
III.	Peaking Demand Charge	\$ 17.32	\$	54.72	
IV.	Company Allowance Calculation (per Schedule 25)				
		469,030,868		165,859,380	Total Sendout - Therms Jul -2020 - Jun-2021
					Total Sendout - Therms Jul-2019 - Jun-2020
		466,344,578		<u>163,831,092</u>	Total Throughput - Therms Jul-2020 - Jun-2021
					Total Throughput - Therms Jul-2019 - Jun-2020
		2,749,290		2,028,288	Variance (Sendout - Throughput)
Company Allowance Percentage	2021-22	2020-21		4.6%	1.2% Variance / Total Sendout

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III DELIVERY TERMS AND CONDITIONS

NHPUC NO. 11 - GAS
LIBERTY UTILITIES

Proposed Second Revised Page 154
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ATTACHMENT C

CAPACITY ALLOCATORS

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual /High Winter Use	46.1% 69.1%	17.1% 16.8%	36.8% 14.1%	100.0%
G-51	Low Annual /Low Winter Use	59.3% 76.2%	12.9% 12.9%	27.9% 10.9%	100.0%
G-42	Medium Annual / High Winter	46.1% 69.1%	17.1% 16.8%	36.8% 14.1%	100.0%
G-52	High Annual / Low Winter Use	59.3% 76.2%	12.9% 12.9%	27.9% 10.9%	100.0%
G-43	High Annual / High Winter	46.1% 69.1%	17.1% 16.8%	36.8% 14.1%	100.0%
G-53	High Annual / Load Factor < 90%	59.3% 76.2%	12.9% 12.9%	27.9% 10.9%	100.0%
G-54	High Annual / Load Factor > 90%	59.3% 76.2%	12.9% 12.9%	27.9% 10.9%	100.0%

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