

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Peak 2016 - 2017 Winter Cost of Gas Filing

Filed Tariff Sheets

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Firm Rate Schedules

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Calculation of Firm Sales Cost of Gas Rate

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2	Second Revised
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James M. Sweeney
Title: President

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II RATE SCHEDULES
FIRM RATE SCHEDULES

	Winter Period				Summer Period			
	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 77</u>	<u>LDAC Page 82</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 77</u>	<u>LDAC Page 82</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-1</u>								
Customer Charge per Month per Meter	\$15.27			\$ 15.27	\$ 15.27			\$ 15.27
All therms	\$ 0.2018	\$ 0.6012	\$ 0.0640	\$ 0.8670	\$ 0.2018	\$ 0.4611	\$ 0.0640	\$ 0.7269
<u>Residential Heating - R-3</u>								
Customer Charge per Month per Meter	\$22.10			\$ 22.10	\$ 22.10			\$ 22.10
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3495	\$ 0.6012	\$ 0.0640	\$ 1.0147	\$ 0.3495	\$ 0.4611	\$ 0.0640	\$ 0.8746
All therms over the first block per month at	\$ 0.2892	\$ 0.6012	\$ 0.0640	\$ 0.9544	\$ 0.2892	\$ 0.4611	\$ 0.0640	\$ 0.8143
<u>Residential Heating - R-4</u>								
Customer Charge per Month per Meter	\$8.84			\$ 8.84	\$ 8.84			\$ 8.84
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.1398	\$ 0.6012	\$ 0.0640	\$ 0.8050	\$ 0.1398	\$ 0.4611	\$ 0.0640	\$ 0.6649
All therms over the first block per month at	\$ 0.1156	\$ 0.6012	\$ 0.0640	\$ 0.7808	\$ 0.1156	\$ 0.4611	\$ 0.0640	\$ 0.6407
<u>Commercial/Industrial - G-41</u>								
Customer Charge per Month per Meter	\$48.36			\$ 48.36	\$ 48.36			\$ 48.36
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.3965	\$ 0.5971	\$ 0.0450	\$ 1.0386	\$ 0.3965	\$ 0.4449	\$ 0.0450	\$ 0.8864
All therms over the first block per month at	\$ 0.2663	\$ 0.5971	\$ 0.0450	\$ 0.9084	\$ 0.2663	\$ 0.4449	\$ 0.0450	\$ 0.7562
<u>Commercial/Industrial - G-42</u>								
Customer Charge per Month per Meter	\$145.08			\$ 145.08	\$ 145.08			\$ 145.08
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.3606	\$ 0.5971	\$ 0.0450	\$ 1.0027	\$ 0.3606	\$ 0.4449	\$ 0.0450	\$ 0.8505
All therms over the first block per month at	\$ 0.2402	\$ 0.5971	\$ 0.0450	\$ 0.8823	\$ 0.2402	\$ 0.4449	\$ 0.0450	\$ 0.7301
<u>Commercial/Industrial - G-43</u>								
Customer Charge per Month per Meter	\$622.61			\$ 622.61	\$ 622.61			\$ 622.61
All therms over the first block per month at	\$ 0.2216	\$ 0.5971	\$ 0.0450	\$ 0.8637	\$ 0.1013	\$ 0.4449	\$ 0.0450	\$ 0.5912
<u>Commercial/Industrial - G-51</u>								
Customer Charge per Month per Meter	\$48.36			\$ 48.36	\$ 48.36			\$ 48.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2390	\$ 0.6155	\$ 0.0450	\$ 0.8995	\$ 0.2390	\$ 0.4817	\$ 0.0450	\$ 0.7657
All therms over the first block per month at	\$ 0.1553	\$ 0.6155	\$ 0.0450	\$ 0.8158	\$ 0.1553	\$ 0.4817	\$ 0.0450	\$ 0.6820
<u>Commercial/Industrial - G-52</u>								
Customer Charge per Month per Meter	\$145.08			\$ 145.08	\$ 145.08			\$ 145.08
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2052	\$ 0.6155	\$ 0.0450	\$ 0.8657	\$ 0.1487	\$ 0.4817	\$ 0.0450	\$ 0.6754
All therms over the first block per month at	\$ 0.1367	\$ 0.6155	\$ 0.0450	\$ 0.7972	\$ 0.0845	\$ 0.4817	\$ 0.0450	\$ 0.6112
<u>Commercial/Industrial - G-53</u>								
Customer Charge per Month per Meter	\$640.74			\$ 640.74	\$ 640.74			\$ 640.74
All therms over the first block per month at	\$ 0.1434	\$ 0.6155	\$ 0.0450	\$ 0.8039	\$ 0.0688	\$ 0.4817	\$ 0.0450	\$ 0.5955
<u>Commercial/Industrial - G-54</u>								
Customer Charge per Month per Meter	\$640.74			\$ 640.74	\$ 640.74			\$ 640.74
All therms over the first block per month at	\$ 0.0547	\$ 0.6155	\$ 0.0450	\$ 0.7152	\$ 0.0297	\$ 0.4817	\$ 0.0450	\$ 0.5564

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II RATE SCHEDULES
FIRM RATE SCHEDULES

	Winter Period				Summer Period			
	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 77</u>	<u>LDAC Page 82</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 77</u>	<u>LDAC Page 82</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-5</u>								
Customer Charge per Month per Meter	\$19.85			\$ 19.85	\$ 19.85			\$ 19.85
All therms	\$ 0.2623	\$ 0.6012	\$ 0.0640	\$ 0.9275	\$ 0.2623	\$ 0.4611	\$ 0.0640	\$ 0.7874
<u>Residential Heating - R-6</u>								
Customer Charge per Month per Meter	\$28.73			\$ 28.73	\$ 28.73			\$ 28.73
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.4544	\$ 0.6012	\$ 0.0640	\$ 1.1196	\$ 0.4544	\$ 0.4611	\$ 0.0640	\$ 0.9795
All therms over the first block per month at	\$ 0.3760	\$ 0.6012	\$ 0.0640	\$ 1.0412	\$ 0.3760	\$ 0.4611	\$ 0.0640	\$ 0.9011
<u>Residential Heating - R-7</u>								
Customer Charge per Month per Meter	\$11.49			\$ 11.49	\$ 11.49			\$ 11.49
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.1817	\$ 0.6012	\$ 0.0640	\$ 0.8469	\$ 0.1817	\$ 0.4611	\$ 0.0640	\$ 0.7068
All therms over the first block per month at	\$ 0.1503	\$ 0.6012	\$ 0.0640	\$ 0.8155	\$ 0.1503	\$ 0.4611	\$ 0.0640	\$ 0.6754
<u>Commercial/Industrial - G-44</u>								
Customer Charge per Month per Meter	\$62.87			\$ 62.87	\$ 62.87			\$ 62.87
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	\$ 0.5155	\$ 0.5971	\$ 0.0450	\$ 1.1576	\$ 0.5155	\$ 0.4449	\$ 0.0450	\$ 1.0054
All therms over the first block per month at	\$ 0.3462	\$ 0.5971	\$ 0.0450	\$ 0.9883	\$ 0.3462	\$ 0.4449	\$ 0.0450	\$ 0.8361
<u>Commercial/Industrial - G-45</u>								
Customer Charge per Month per Meter	\$188.60			\$ 188.60	\$ 188.60			\$ 188.60
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4688	\$ 0.5971	\$ 0.0450	\$ 1.1109	\$ 0.4688	\$ 0.4449	\$ 0.0450	\$ 0.9587
All therms over the first block per month at	\$ 0.3123	\$ 0.5971	\$ 0.0450	\$ 0.9544	\$ 0.3123	\$ 0.4449	\$ 0.0450	\$ 0.8022
<u>Commercial/Industrial - G-46</u>								
Customer Charge per Month per Meter	\$809.39			\$ 809.39	\$ 809.39			\$ 809.39
All therms over the first block per month at	\$ 0.2881	\$ 0.5971	\$ 0.0450	\$ 0.9302	\$ 0.1317	\$ 0.4449	\$ 0.0450	\$ 0.6216
<u>Commercial/Industrial - G-55</u>								
Customer Charge per Month per Meter	\$62.87			\$ 62.87	\$ 62.87			\$ 62.87
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.3107	\$ 0.6155	\$ 0.0450	\$ 0.9712	\$ 0.3107	\$ 0.4817	\$ 0.0450	\$ 0.8374
All therms over the first block per month at	\$ 0.2019	\$ 0.6155	\$ 0.0450	\$ 0.8624	\$ 0.2019	\$ 0.4817	\$ 0.0450	\$ 0.7286
<u>Commercial/Industrial - G-56</u>								
Customer Charge per Month per Meter	\$188.60			\$ 188.60	\$ 188.60			\$ 188.60
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.2667	\$ 0.6155	\$ 0.0450	\$ 0.9272	\$ 0.1933	\$ 0.4817	\$ 0.0450	\$ 0.7200
All therms over the first block per month at	\$ 0.1777	\$ 0.6155	\$ 0.0450	\$ 0.8382	\$ 0.1099	\$ 0.4817	\$ 0.0450	\$ 0.6366
<u>Commercial/Industrial - G-57</u>								
Customer Charge per Month per Meter	\$832.96			\$ 832.96	\$ 832.96			\$ 832.96
All therms over the first block per month at	\$ 0.1864	\$ 0.6155	\$ 0.0450	\$ 0.8469	\$ 0.0894	\$ 0.4817	\$ 0.0450	\$ 0.6161
<u>Commercial/Industrial - G-58</u>								
Customer Charge per Month per Meter	\$832.96			\$ 832.96	\$ 832.96			\$ 832.96
All therms over the first block per month at	\$ 0.0711	\$ 0.6155	\$ 0.0450	\$ 0.7316	\$ 0.0386	\$ 0.4817	\$ 0.0450	\$ 0.5653

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CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2016 THROUGH APRIL 30, 2017
(Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 59,710,049	
Projected Prorated Sales (11/01/16 - 04/30/17)	89,920,078	
Direct Cost of Gas Rate		\$ 0.6640 per therm
Demand Cost of Gas Rate	\$ 8,469,558	\$ 0.0942 per therm
Commodity Cost of Gas Rate	55,346,541	\$ 0.6155 per therm
Adjustment Cost of Gas Rate	(4,106,050)	\$ (0.0457) per therm
Total Direct Cost of Gas Rate	\$ 59,710,049	\$ 0.6640 per therm
Total Anticipated Indirect Cost of Gas	\$ 4,696,563	
Projected Prorated Sales (11/01/16 - 04/30/17)	89,920,078	
Indirect Cost of Gas		\$ 0.0522 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/16		\$ 0.7162 per therm

RESIDENTIAL COST OF GAS RATE - 11/01/16	COGwr	\$ 0.7162 /therm
Change in rate due to change in under/over recovery		\$ (0.0723)
RESIDENTIAL COST OF GAS RATE - 12/01/2016	COGsr	\$ 0.6439 /therm
Change in Rate due to change in under/over recovery		\$ 0.0837
RESIDENTIAL COST OF GAS RATE - 01/01/2017	COGwr	\$ 0.7276 /therm
Change in Rate due to change in under/over recovery		\$ (0.1264)
RESIDENTIAL COST OF GAS RATE - 2/1/2017	COGwr	\$ 0.6012 /therm
Maximum (COG + 25%)		\$ 0.8953

C&I LOW WINTER USE COST OF GAS RATE - 11/01/16	COGwl	\$ 0.7305 /therm
Change in rate due to change in under/over recovery		\$ (0.0723)
C&I LOW WINTER USE COST OF GAS RATE - 12/01/2016	COGsl	\$ 0.6582 /therm
Change in Rate due to change in under/over recovery		\$ 0.0837
C&I LOW WINTER USE COST OF GAS RATE - 01/01/2017	COGsl	\$ 0.7419 /therm
Change in Rate due to change in under/over recovery		\$ (0.1264)
C&I LOW WINTER USE COST OF GAS RATE - 2/01/2017	COGsl	\$ 0.6155 /therm

Average Demand Cost of Gas Rate Effective 11/01/16	\$ 0.0942		
Times: Low Winter Use Ratio (Winter)	1.1637	Maximum (COG + 25%)	\$ 0.9131
Times: Correction Factor	0.9898		
Adjusted Demand Cost of Gas Rate	\$ 0.1085		
Commodity Cost of Gas Rate	\$ 0.6155		
Adjustment Cost of Gas Rate	\$ (0.0457)		
Indirect Cost of Gas Rate	\$ 0.0522		
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.7305		

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/16	COGwh	\$ 0.7121 /therm
Change in rate due to change in under/over recovery		\$ (0.0723)
C&I HIGH WINTER USE COST OF GAS RATE - 12/01/2016	COGsh	\$ 0.6398 /therm
Change in Rate due to change in under/over recovery		\$ 0.0837
C&I HIGH WINTER USE COST OF GAS RATE - 01/01/2017	COGwh	\$ 0.7235 /therm
Change in Rate due to change in under/over recovery		\$ (0.1264)
C&I HIGH WINTER USE COST OF GAS RATE - 2/01/2017	COGwh	\$ 0.5971 /therm

Average Demand Cost of Gas Rate Effective 11/01/16	\$ 0.0942		
Times: High Winter Use Ratio (Winter)	0.9667	Maximum (COG + 25%)	\$ 0.8901
Times: Correction Factor	0.9898		
Adjusted Demand Cost of Gas Rate	\$ 0.0901		
Commodity Cost of Gas Rate	\$ 0.6155		
Adjustment Cost of Gas Rate	\$ (0.0457)		
Indirect Cost of Gas Rate	\$ 0.0522		
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.7121		

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