

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

Filed Tariff Sheets

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Check Sheet

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James M. Sweeney
Title: President

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The title page and pages 1-94 inclusive of this tariff are effective as of the date shown on the individual tariff pages.

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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	\$ 0.7276	\$ 0.0640	\$ 0.9934	\$ 0.2018	\$ 0.4746	\$ 0.0640	\$ 0.7404
<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	\$ 0.7276	\$ 0.0640	\$ 1.1411	\$ 0.3495	\$ 0.4746	\$ 0.0640	\$ 0.8881
All therms over the first block per month at	\$ 0.2892	\$ 0.7276	\$ 0.0640	\$ 1.0808	\$ 0.2892	\$ 0.4746	\$ 0.0640	\$ 0.8278
<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	\$ 0.7276	\$ 0.0640	\$ 0.9314	\$ 0.1398	\$ 0.4746	\$ 0.0640	\$ 0.6784
All therms over the first block per month at	\$ 0.1156	\$ 0.7276	\$ 0.0640	\$ 0.9072	\$ 0.1156	\$ 0.4746	\$ 0.0640	\$ 0.6542
<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	\$ 0.7235	\$ 0.0450	\$ 1.1650	\$ 0.3965	\$ 0.4584	\$ 0.0450	\$ 0.8999
All therms over the first block per month at	\$ 0.2663	\$ 0.7235	\$ 0.0450	\$ 1.0348	\$ 0.2663	\$ 0.4584	\$ 0.0450	\$ 0.7697
<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	\$ 0.7235	\$ 0.0450	\$ 1.1291	\$ 0.3606	\$ 0.4584	\$ 0.0450	\$ 0.8640
All therms over the first block per month at	\$ 0.2402	\$ 0.7235	\$ 0.0450	\$ 1.0087	\$ 0.2402	\$ 0.4584	\$ 0.0450	\$ 0.7436
<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	\$ 0.7235	\$ 0.0450	\$ 0.9901	\$ 0.1013	\$ 0.4584	\$ 0.0450	\$ 0.6047
<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	\$ 0.7419	\$ 0.0450	\$ 1.0259	\$ 0.2390	\$ 0.4952	\$ 0.0450	\$ 0.7792
All therms over the first block per month at	\$ 0.1553	\$ 0.7419	\$ 0.0450	\$ 0.9422	\$ 0.1553	\$ 0.4952	\$ 0.0450	\$ 0.6955
<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	\$ 0.7419	\$ 0.0450	\$ 0.9921	\$ 0.1487	\$ 0.4952	\$ 0.0450	\$ 0.6889
All therms over the first block per month at	\$ 0.1367	\$ 0.7419	\$ 0.0450	\$ 0.9236	\$ 0.0845	\$ 0.4952	\$ 0.0450	\$ 0.6247
<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	\$ 0.7419	\$ 0.0450	\$ 0.9303	\$ 0.0688	\$ 0.4952	\$ 0.0450	\$ 0.6090
<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	\$ 0.7419	\$ 0.0450	\$ 0.8416	\$ 0.0297	\$ 0.4952	\$ 0.0450	\$ 0.5699

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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	\$ 0.7276	\$ 0.0640	\$ 1.0539	\$ 0.2623	\$ 0.4746	\$ 0.0640	\$ 0.8009
<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	\$ 0.7276	\$ 0.0640	\$ 1.2460	\$ 0.4544	\$ 0.4746	\$ 0.0640	\$ 0.9930
All therms over the first block per month at	\$ 0.3760	\$ 0.7276	\$ 0.0640	\$ 1.1676	\$ 0.3760	\$ 0.4746	\$ 0.0640	\$ 0.9146
<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	\$ 0.7276	\$ 0.0640	\$ 0.9733	\$ 0.1817	\$ 0.4746	\$ 0.0640	\$ 0.7203
All therms over the first block per month at	\$ 0.1503	\$ 0.7276	\$ 0.0640	\$ 0.9419	\$ 0.1503	\$ 0.4746	\$ 0.0640	\$ 0.6889
<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	\$ 0.7235	\$ 0.0450	\$ 1.2840	\$ 0.5155	\$ 0.4584	\$ 0.0450	\$ 1.0189
All therms over the first block per month at	\$ 0.3462	\$ 0.7235	\$ 0.0450	\$ 1.1147	\$ 0.3462	\$ 0.4584	\$ 0.0450	\$ 0.8496
<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	\$ 0.7235	\$ 0.0450	\$ 1.2373	\$ 0.4688	\$ 0.4584	\$ 0.0450	\$ 0.9722
All therms over the first block per month at	\$ 0.3123	\$ 0.7235	\$ 0.0450	\$ 1.0808	\$ 0.3123	\$ 0.4584	\$ 0.0450	\$ 0.8157
<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	\$ 0.7235	\$ 0.0450	\$ 1.0566	\$ 0.1317	\$ 0.4584	\$ 0.0450	\$ 0.6351
<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	\$ 0.7419	\$ 0.0450	\$ 1.0976	\$ 0.3107	\$ 0.4952	\$ 0.0450	\$ 0.8509
All therms over the first block per month at	\$ 0.2019	\$ 0.7419	\$ 0.0450	\$ 0.9888	\$ 0.2019	\$ 0.4952	\$ 0.0450	\$ 0.7421
<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	\$ 0.7419	\$ 0.0450	\$ 1.0536	\$ 0.1933	\$ 0.4952	\$ 0.0450	\$ 0.7335
All therms over the first block per month at	\$ 0.1777	\$ 0.7419	\$ 0.0450	\$ 0.9646	\$ 0.1099	\$ 0.4952	\$ 0.0450	\$ 0.6501
<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	\$ 0.7419	\$ 0.0450	\$ 0.9733	\$ 0.0894	\$ 0.4952	\$ 0.0450	\$ 0.6296
<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	\$ 0.7419	\$ 0.0450	\$ 0.8580	\$ 0.0386	\$ 0.4952	\$ 0.0450	\$ 0.5788

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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

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

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

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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NHPUC No. 8 - GAS
LIBERTY UTILITIES

Third Revised Page 82
Superseding Second Revised Page 82

Local Delivery Adjustment Clause Calculation

		<u>Sales Customers</u>	<u>Transportation Customers</u>
<u>Residential Non Heating Rates - R-1, R-5</u>			
Energy Efficiency Charge	\$0.0402		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)		\$0.0402	
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	0.0155		
Environmental Surcharge (ES)		0.0155	
Interruptible Transportation Margin Credit (ITMC)		0.0000	
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0016	
Rate Case Expense Factor (RCEF)		0.0000	
Residential Low Income Assistance Program (RLIAP)		0.0067	
LDAC		\$0.0640	per therm
<u>Residential Heating Rates - R-3, R-4, R-6, R-7</u>			
Energy Efficiency Charge	\$0.0402		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)		\$0.0402	
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	0.0155		
Environmental Surcharge (ES)		0.0155	
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0016	
Rate Case Expense Factor (RCEF)		0.0000	
Residential Low Income Assistance Program (RLIAP)		0.0067	
LDAC		\$0.0640	per therm
<u>Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55</u>			
Energy Efficiency Charge	\$0.0219		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)		\$0.0219	\$0.0219
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	0.0155		
Environmental Surcharge (ES)		0.0155	0.0155
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0009	0.0009
Gas Restructuring Expense Factor (GREF)		0.0000	0.0000
Rate Case Expense Factor (RCEF)		0.0000	0.0000
Residential Low Income Assistance Program (RLIAP)		0.0067	0.0067
LDAC		\$0.0450	\$0.0450 per therm
<u>Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56</u>			
Energy Efficiency Charge	\$0.0219		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)		\$0.0219	\$0.0219
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	0.0155		
Environmental Surcharge (ES)		0.0155	0.0155
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0009	0.0009
Gas Restructuring Expense Factor (GREF)		0.0000	0.0000
Rate Case Expense Factor (RCEF)		0.0000	0.0000
Residential Low Income Assistance Program (RLIAP)		0.0067	0.0067
LDAC		\$0.0450	\$0.0450 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	\$0.0219		
Demand Side Management Charge	0.0000		
Conservation Charge (CCx)		\$0.0219	\$0.0219
Relief Holder and pond at Gas Street, Concord, NH	0.0000		
Manufactured Gas Plants	0.0155		
Environmental Surcharge (ES)		0.0155	0.0155
Energy Efficiency Resource Standard Lost Revenue Mechanism		0.0009	0.0009
Gas Restructuring Expense Factor (GREF)		0.0000	0.0000
Rate Case Expense Factor (RCEF)		0.0000	0.0000
Residential Low Income Assistance Program (RLIAP)		0.0067	0.0067
LDAC		\$0.0450	\$0.0450 per therm

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