Northern Utilities, Inc. New Hampshire Division Summer 2016 Cost of Gas

Tariff Sheets

Eleventh Revised Page No. 43 Calculation of proposed Cost of Gas Adjustment

> Eleventh Revised Page No. 96 Rate Summary

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N.H.P.U.C No. 11 NORTHERN UTILITIES, INC.

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CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2016 - October 31, 2016

(Col 1)	(Col 2)	(Col 3)	
Total Anticipated Direct Cost of Gas	\$3,024,024		
Projected Prorated Sales (05/01/16- 10/31/16) Direct Cost of Gas Rate	9,940,234	\$0.3042	per therm
Demand Cost of Gas Rate	\$933,408	\$0.0939	per therm
Commodity Cost of Gas Rate	\$ <u>2,090,615</u>	\$ <u>0.2103</u>	per therm
Total Direct Cost of Gas Rate	\$3,024,023	\$0.3042	per therm
Total Anticipated Indirect Cost of Gas	\$153,163		
Projected Prorated Sales (05/01/16- 10/31/16)	9,940,234		
Indirect Cost of Gas		\$0.0154	per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.3196	per therm
Period ending under-collection as determined on 05/20/16	\$184,787		
Projected sales (06/01/16 - 10/31/16)	7,902,146		
Per unit change in Cost of Gas (06/01/16 - 10/31/16)	\$0.0234		
⁻¹ Under-collection w/o rate adjustment as contained in NUI's COG Report dated May 20, 2016			

RESIDENTIAL COST OF GAS RATE - 06/01/16	COGwr	\$0.3430 per therm
	Maximum (COG+25%)	\$0.4121
RESIDENTIAL COST OF GAS RATE - 05/01/16		\$0.3196
CHANGE IN PER UNIT COST		\$0.0234
RESIDENTIAL COST OF GAS RATE - 06/01/16		\$0.3430

COM/IND LOW WINTER USE COST OF GAS RATE - 06/01/16	COGwl	\$0.3066 per therm
	Maximum (COG+25%)	\$0.3265
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/16 CHANGE IN PER UNIT COST COM/IND LOW WINTER USE COST OF GAS RATE - 06/01/16		\$0.2832 \$0.0234 \$0.3066

COM/IND HIGH WINTER USE COST OF GAS RATE - 06/01/16	COGwh	\$0.3853 per therm
	Maximum (COG+25%)	\$0.4524
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/16 CHANGE IN PER UNIT COST COM/IND HIGH WINTER USE COST OF GAS RATE - 06/01/16		\$0.3619 \$0.0234 \$0.3853

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Issued By: _____

Senior Vice President

NHPUC No. 11 - Gas NORTHERN UTILITIES, INC.

Eleventh Revised Page 96 Superseding Tenth Revised Page 96

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION SUMMER SEASON RESIDENTIAL RATES

	Summer Season		Total	Total Bille	d Rates
	May 2016 - October 2016	Tariff	Delivery Rates	Tariff Rate	s, LDAC
	-	Rates	(Includes LDAC)	Plus Cost	of Gas
Residential Heating	Tariff Rate R 5:				
	Monthly Customer Charge	\$21.36	\$21.36		\$21.36
	First 50 therms	\$0.5449	\$0.5823	\$0.9253	
	All usage over 50 therms	\$0.5449	\$0.5823	\$0.9253	
	LDAC	\$0.0374			
	Gas Cost Adjustment:				
	Cost of Gas	\$0.3430			
Residential Heating	Tariff Rate R 10:				
Low Income	Monthly Customer Charge	\$8.54	\$8.54		\$8.54
	First 50 therms	\$0.2179	\$0.2553	\$0.5983	
	All usage over 50 therms	\$0.2179	\$0.2553	\$0.5983	
		\$0.0374		·	
	Gas Cost Adjustment:				
	Cost of Gas	\$0.3430			
Residential Non-Heating	Tariff Rate R 6:				
_	Monthly Customer Charge	\$21.36	\$21.36		\$21.36
	First 10 therms	\$0.4214	\$0.4588	\$0.8018	
	All usage over 10 therms	\$0.4214	\$0.4588	\$0.8018	
	LDAC	\$0.0374			
	Gas Cost Adjustment:				
	Cost of Gas	\$0.3430			
Residential Non-Heating	Tariff Rate R 11:				
Low Income	Monthly Customer Charge	\$15.52	\$15.52		\$15.52
Low income	First 10 therms	\$15.52 \$0.3196	\$15.52 \$0.3570	\$0.7000	φ10.0Z
	All usage over 10 therms	\$0.3196	\$0.3570 \$0.3570	\$0.7000 \$0.7000	
	LDAC	\$0.0374	φ0.3370	φ0.7000	
	Gas Cost Adjustment:	φ 0.037 4			
	Cost of Gas	\$0.3430			
		Φ 0.3430			

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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION

SUMMER SEASON C&I RATES

	Summer Season		Total	Total Billed Rates
		Toriff		
	May 2016 - October 2016	Tariff	Delivery Rates	Tariff Rates, LDAC
		Rates	(Includes LDAC)	Plus Cost of Gas
C&I Low Annual/High Winter	<u>Tariff Rate G 40:</u>			
	Monthly Customer Charge	\$67.45	\$67.45	\$67.45
	First 75 therms	\$0.1615	\$0.1838	\$0.5691
	All usage over 75 therms	\$0.1615	\$0.1838	\$0.5691
	LDAC	\$0.0223		
	Gas Cost Adjustment:			
	Cost of Gas	\$0.3853		
C&I Low Annual/Low Winter	Tariff Rate G 50:			
	Monthly Customer Charge	\$67.45	\$67.45	\$67.45
	First 75 therms	\$0.1615	\$0.1838	\$0.4904
	All usage over 75 therms	\$0.1615	\$0.1838	\$0.4904
	LDAC	\$0.0223	V ULLOUD	* 011001
	Gas Cost Adjustment:	\$0.0220		
	Cost of Gas	\$0.3066		
	Cost of Gas	φ0.3000		
C&I Medium Annual/High Winter	Tariff Rate G 41:			
	Monthly Customer Charge	\$196.73	\$196.73	\$196.73
		• • • •	• • • •	,
	All usage	\$0.1622	\$0.1845	\$0.5698
	LDAC	\$0.0223	* •••••	****
	Gas Cost Adjustment:	\$0.0220		
	Cost of Gas	\$0.3853		
		ψ0.0000		
C&I Medium Annual/Low Winter	Tariff Rate G 51:			
	Monthly Customer Charge	\$196.73	\$196.73	\$196.73
	First 1,000 therms	\$0.1183	\$0.1406	\$0.4472
	All usage over 1,000 therms	\$0.0958	\$0.1181	\$0.4247
	LDAC	\$0.0223	· · ·	• -
	Gas Cost Adjustment:	+++++++++++++++++++++++++++++++++++++++		
	Cost of Gas	\$0.3066		
C&I High Annual/High Winter	Tariff Rate G 42:	¢1 101 10	¢4 404 40	¢4 404 40
	Monthly Customer Charge	\$1,124.19	\$1,124.19	\$1,124.19
		¢0.4000	¢0.4000	¢0 5440
	All usage	\$0.1066	\$0.1289	\$0.5142
	LDAC	\$0.0223		
	Gas Cost Adjustment:			
	Cost of Gas	\$0.3853		
C&I High Annual/Low Winter	Tariff Rate G 52:			
	Monthly Customer Charge	\$1,124.19	\$1,124.19	\$1,124.19
	Montiny customer charge	ψι, 124.19	ψι,ι∠¬.13	ψι,ι27.13
		¢0.0707	\$0.0020	¢0 2006
	All usage	\$0.0707	\$0.0930	\$0.3996
	LDAC	\$0.0223		
	Gas Cost Adjustment:			
	Cost of Gas	\$0.3066		

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N.H.P.U.C No. 11 NORTHERN UTILITIES, INC.

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<u>\$0.0234</u>

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2016 - October 31, 2016

(Col 1)	(Col 2)	(Col 3)	
Total Anticipated Direct Cost of Gas Projected Prorated Sales (05/01/16- 10/31/16) Direct Cost of Gas Rate	\$3,024,024 9,940,234	\$0.3042	per therm
Demand Cost of Gas Rate Commodity Cost of Gas Rate Total Direct Cost of Gas Rate	\$933,408 \$ <u>2,090,615</u> \$3,024,023	\$0.0939 \$ <u>0.2103</u> \$0.3042	per therm per therm per therm
Total Anticipated Indirect Cost of Gas Projected Prorated Sales (05/01/16- 10/31/16) Indirect Cost of Gas	\$153,163 9,940,234	\$0.0154	per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.3196	per therm
Period ending over-collection as determined on 05/20/16 ¹ Projected sales (06/01/16 - 10/31/16)	<u>\$184,787</u> <u>7,902,146</u>		

Per unit change in Cost of Gas (06/01/16 - 10/31/16)

⁻¹ Over-collection w/o rate adjustement as contained in NUI's COG Report dated June 18, 2016

RESIDENTIAL COST OF GAS RATE - 05/01/16 06/01/16	COGwr	\$0.3196<u></u> \$0.3430	per therm
	Maximum (COG+25%)	\$0.3995	
RESIDENTIAL WINTER USE COST OF GAS RATE - 05/01/16		\$0.3196	
CHANGE IN PER UNIT COST		<u>\$0.0234</u>	
RESIDENTIAL COST OF GAS RATE - 06/01/16		<u>\$0.3430</u>	
COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/16 06/01/16	COGwl	<u>\$0.2832</u>	per therm
	Maximum (COG+25%)	\$0.3540	
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/16		<u>\$0.2832</u>	
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/16 CHANGE IN PER UNIT COST		<u>\$0.2832</u> <u>\$0.0234</u>	

C&I HLF DEMAND COSTS ALLOCATED PER SMBA	\$173,257
PLUS: RESIDENTIAL DEMAND RELOCATION TO C71 HLF	\$26,630
C&I HLF TOTAL ADJUSTED DEMAND COSTS	\$199,887
C&I HLF PROJECTED PRORATED SALES (05/1/16-10/31/16)	3,477,731
DEMAND COST OF GAS RATE	\$0.0575
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$731,431
PLUS: RESIDENTIAL COMMODITY COSTS	\$35
C&I HLF TOTAL ADJUSTED COMMODITY COSTS	\$731,466
C&I HLF PROJECTED PRORATED SALES (05/1/16-10/31/16)	3,477,731
COMMODITY COST OF GAS RATE	\$0.2103
INDIRECT COST OF GAS	\$0.015 4
TOTAL C&I HLF COST OF GAS RATE	\$0.2832

COM/IND HIGH WINTER USE COST OF GAS RATE05/01/16 06/01/16	COGwh	\$0.3619 <u>\$0.3853</u>	per therm
	Maximum (COG+25%)	\$0.4524	
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/16 CHANGE IN PER UNIT COST		<u>\$0.3619</u> \$0.0234	
COM/IND HIGH WINTER USE COST OF GAS RATE - 06/01/16		<u>\$0.3853</u>	
C&ILLF COMMODITY COSTS ALLOCATED PER SMBA	\$353,322		
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$54,307 \$407.629		
C&ILLE PROJECTED PRORATED SALES (05/1/16-10/31/16)	2.991.879		
DEMAND COST OF GAS RATE	\$0.1362		
C&ILLF COMMODITY COSTS ALLOCATED PER SMBA	\$629,248		
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I LLF	\$30		
C&ILLE TOTAL ADJUSTED COMMODITY COSTS	\$629,278		
C&ILLF PROJECTED PRORATED SALES (05/1/16-10/31/16) COMMODITY COST OF GAS RATE	2,991,879 \$0.2103		
INDIRECT COST OF GAS	\$0.015 4		
TOTAL C&I LLF COST OF GAS RATE	\$0.3619		
			0
Issued: March 16 <u>May 20</u> , 2016	Issued By:	NELAC	le)
Effective Date: May June 1, 2016	Title:	Senior Vice	President

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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION

SUMMER SEASON RESIDENTIAL RATES

	Summer Season May 2016 - October 2016	Tariff Rates	Total Delivery Rates (Includes LDAC)	<u>Total Billed Rates</u> Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	Tariff Rate R 5:Monthly Customer ChargeFirst 50 thermsAll usage over 50 thermsLDACGas Cost Adjustment:Cost of Gas	\$21.36 \$0.5449 \$0.5449 \$0.0374 \$0.3196 \$0.3430	\$21.36 \$0.5895 \$0.5895	\$21.36 \$0.9091 \$0.9325 \$0.9091 \$0.9325
Residential Heating Low income	Tariff Rate R 10: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$8.54 \$0.2179 \$0.2179 \$0.0374 \$0.3196 <u>\$0.3430</u>	\$8.54 \$0.2553 \$0.2553	<u>\$8.54</u> \$0.5749 <u>\$0.5983</u> \$0.5749 <u>\$0.5983</u>
Residential Non-Heating	Tariff Rate R 6: Monthly Customer Charge First 10 therms All usage over 10 therms LDAC Gas Cost Adjustment: Cost of Gas	\$21.36 \$0.4214 \$0.4214 \$0.0374 \$0.3196 \$0.3430	\$21.36 \$0.4588 \$0.4588	<u>\$21.36</u> \$ 0.7784 <u>\$0.8018</u> \$ 0.778 4 <u>\$0.8018</u>
Residential Non-Heating Low income	Tariff Rate R 11: Monthly Customer Charge First 10 therms All usage over 10 therms LDAC Gas Cost Adjustment: Cost of Gas	\$15.52 \$0.3196 \$0.3196 \$0.0374 \$0.3196 <u>\$0.3430</u>	\$15.52 \$0.3570 \$0.3570	<u>\$15.52</u> \$ 0.6766 <u>\$0.7000</u> \$ 0.6766 <u>\$0.7000</u>

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NHPUC No. 11 - Gas NORTHERN UTILITIES, INC.

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	Summer Season May 2016 - October 2016	Tariff Rates	Total Delivery Rates (Includes LDAC)	<u>Total Billed Rates</u> Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	Tariff Rate G 40: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$67.45 \$0.1615 \$0.0223 \$0.3619 <u>\$0.3853</u>	\$67.45 \$0.1838 \$0.1838	\$67.45 <mark>\$0.5457 \$0.5691 \$0.5457 \$0.5691</mark>
C&I Low Annual/Low Winter	Tariff Rate G 50: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$67.45 \$0.1615 \$0.0223 \$0.2832 \$0.3066	\$67.45 \$0.1838 \$0.1838	\$67.45 \$0.4670 \$0.4904 \$0.4670 \$0.4904
C&I Medium Annual/High Winter	Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$196.73 \$0.1622 \$0.0223 \$0.3619 \$0.3853	\$196.73 \$0.1845	\$196.73 \$0.5464
C&I Medium Annual/Low Winter	Tariff Rate G 51: Monthly Customer Charge First 1,000 therms All usage over 1,000 therms LDAC Gas Cost Adjustment: Cost of Gas	\$196.73 \$0.1183 \$0.0958 \$0.0223 \$0.2832 \$0.3066	\$196.73 \$0.1406 \$0.1181	\$196.73 \$0.4238 <u>\$0.4472</u> \$0.4013 <u>\$0.4247</u>
C&I High Annual/High Winter	Tariff Rate G 42: Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$1,124.19 \$0.1066 \$0.0223 \$0.3619 <u>\$0.3853</u>	\$1,124.19 \$0.1289	\$1,124.19 <mark>\$0.4908 <u>\$0.5142</u></mark>
C&I High Annual/Low Winter	Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,124.19 \$0.0707 \$0.0223 \$0.2832 <u>\$0.3066</u>	\$1,124.19 \$0.0930	\$1,124.19 <mark>\$0.3762 <u>\$0.3996</u></mark>

SUMMER SEASON RESIDENTIAL RATES

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Senior Vice President

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