

Northern Utilities, Inc.
New Hampshire Division
Winter 2015-2016
Cost of Gas

Tariff Sheets

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

Ninth Revised Page No. 96
Rate Summary

Ninth Revised Page No. 97
Rate Summary

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2015 - April 30, 2016

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$22,851,291	
Projected Prorated Sales (11/01/15 - 04/30/16)	33,294,125	
Direct Cost of Gas Rate		\$0.6863 per therm
Demand Cost of Gas Rate	\$5,145,991	\$0.1546 per therm
Commodity Cost of Gas Rate	<u>\$17,705,300</u>	<u>\$0.5318</u> per therm
Total Direct Cost of Gas Rate	\$22,851,291	\$0.6864 per therm
Total Anticipated Indirect Cost of Gas	(\$978,824)	
Projected Prorated Sales (11/01/15 - 04/30/16)	33,294,125	
Indirect Cost of Gas		(\$0.0294) per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.6570 per therm
Period ending over-collection as determined on 11/24/15	(\$1,503,430)	
Projected sales (12/01/15 - 04/30/16)	29,021,690	
Per unit change in Cost of Gas (12/01/15 - 04/30/16)	(\$0.0518)	
Period ending under-collection as determined on 01/22/16	\$922,312	
Projected sales (02/01/16 - 04/30/16)	14,781,281	
Per unit change in Cost of Gas (02/01/16 - 04/30/16)	\$0.0624	

RESIDENTIAL COST OF GAS RATE -02/01/16	COGwr	\$0.6676 per therm
	Maximum (COG+25%)	\$0.8213

RESIDENTIAL COST OF GAS RATE - 11/01/15	\$0.6570
CHANGE IN PER UNIT COST	(\$0.0518)
RESIDENTIAL COST OF GAS RATE - 12/01/15	\$0.6052
CHANGE IN PER UNIT COST	\$0.0624
RESIDENTIAL COST OF GAS RATE - 02/01/16	\$0.6676

COM/IND LOW WINTER USE COST OF GAS RATE - 02/01/16	COGwl	\$0.6568 per therm
	Maximum (COG+25%)	\$0.8078

COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/15	\$0.6462
CHANGE IN PER UNIT COST	(\$0.0518)
COM/IND LOW WINTER USE COST OF GAS RATE - 12/01/15	\$0.5944
CHANGE IN PER UNIT COST	\$0.0624
COM/IND LOW WINTER USE COST OF GAS RATE - 02/01/16	\$0.6568

COM/IND HIGH WINTER USE COST OF GAS RATE - 02/01/16	COGwh	\$0.6722 per therm
	Maximum (COG+25%)	\$0.8270

COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/15	\$0.6616
CHANGE IN PER UNIT COST	(\$0.0518)
COM/IND HIGH WINTER USE COST OF GAS RATE - 12/01/15	\$0.6098
CHANGE IN PER UNIT COST	\$0.0624
COM/IND HIGH WINTER USE COST OF GAS RATE - 02/01/16	\$0.6722

**NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
 WINTER SEASON RESIDENTIAL RATES**

Winter Season November 2015 - April 2016		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	<u>Tariff Rate R 5:</u>			
	Monthly Customer Charge	\$21.36	\$21.36	\$21.36
	First 50 therms	\$0.6239	\$0.6613	\$1.3289
	All usage over 50 therms	\$0.5103	\$0.5477	\$1.2153
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.6676		
Residential Heating Low Income	<u>Tariff Rate R 10:</u>			
	Monthly Customer Charge	\$8.54	\$8.54	\$8.54
	First 50 therms	\$0.2496	\$0.2870	\$0.9546
	All usage over 50 therms	\$0.2041	\$0.2415	\$0.9091
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.6676		
Residential Non-Heating	<u>Tariff Rate R 6:</u>			
	Monthly Customer Charge	\$21.36	\$13.73	\$13.73
	First 10 therms	\$0.4214	\$0.4588	\$1.1264
	All usage over 10 therms	\$0.4214	\$0.4588	\$1.1264
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.6676		
Residential Non-Heating Low Income	<u>Tariff Rate R 11:</u>			
	Monthly Customer Charge	\$15.52	\$9.98	\$9.98
	First 10 therms	\$0.3196	\$0.3570	\$1.0246
	All usage over 10 therms	\$0.3196	\$0.3570	\$1.0246
	LDAC	\$0.0374		
	<u>Gas Cost Adjustment:</u> Cost of Gas	\$0.6676		

Issued: January 22, 2016

Effective: With Service Rendered On and After February 1, 2016

Authorized by NHPUC Order No. 25,836 in Docket No. DG 15-393, dated October 30, 2015

Issued by:



Title: Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
WINTER SEASON C&I RATES

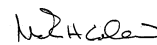
Winter Season November 2015 - April 2016		Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	<u>Tariff Rate G 40:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$67.45 \$0.1615 \$0.1615 \$0.0223 \$0.6722	\$67.45 \$0.1838 \$0.1838 	\$67.45 \$0.8560 \$0.8560
C&I Low Annual/Low Winter	<u>Tariff Rate G 50:</u> Monthly Customer Charge First 75 therms All usage over 75 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$67.45 \$0.1615 \$0.1615 \$0.0223 \$0.6568	\$67.45 \$0.1838 \$0.1838 	\$67.45 \$0.8406 \$0.8406
C&I Medium Annual/High Winter	<u>Tariff Rate G 41:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$196.73 \$0.2098 \$0.0223 \$0.6722	\$196.73 \$0.2321 	\$196.73 \$0.9043
C&I Medium Annual/Low Winter	<u>Tariff Rate G 51:</u> Monthly Customer Charge First 1,300 therms All usage over 1,300 therms LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$196.73 \$0.1520 \$0.1238 \$0.0223 \$0.6568	\$196.73 \$0.1743 \$0.1461 	\$196.73 \$0.8311 \$0.8029
C&I High Annual/High Winter	<u>Tariff Rate G 42:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$1,124.19 \$0.1764 \$0.0223 \$0.6722	\$1,124.19 \$0.1987 	\$1,124.19 \$0.8709
C&I High Annual/Low Winter	<u>Tariff Rate G 52:</u> Monthly Customer Charge All usage LDAC <u>Gas Cost Adjustment:</u> Cost of Gas	\$1,124.19 \$0.1541 \$0.0223 \$0.6568	\$1,124.19 \$0.1764 	\$1,124.19 \$0.8332

Issued: January 22, 2016

Effective: With Service Rendered On and After February 1, 2016

Authorized by NHPUC Order No. 25,836 in Docket No. DG 15-393, dated October 30, 2015

Issued by:



Title: Senior Vice President

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: November 1, 2015 - April 30, 2016

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$22,851,291	
Projected Prorated Sales (11/01/15 - 04/30/16)	33,294,125	
Direct Cost of Gas Rate		\$0.6863 per therm
Demand Cost of Gas Rate	\$5,145,991	\$0.1546 per therm
Commodity Cost of Gas Rate	<u>\$17,705,300</u>	<u>\$0.5318</u> per therm
Total Direct Cost of Gas Rate	\$22,851,291	\$0.6864 per therm
Total Anticipated Indirect Cost of Gas	(\$978,824)	
Projected Prorated Sales (11/01/15 - 04/30/16)	33,294,125	
Indirect Cost of Gas		(\$0.0294) per therm
TOTAL PERIOD AVERAGE COST OF GAS		\$0.6570 per therm
Period ending over-collection as determined on 11/24/15	(\$1,503,430)	
Projected sales (12/01/15 - 04/30/16)	29,021,690	
Per unit change in Cost of Gas (12/01/15 - 04/30/16)	(\$0.0518)	
Period ending under-collection as determined on 01/22/16	\$922,312	
Projected sales (02/01/16 - 04/30/16)	<u>14,781,281</u>	
Per unit change in Cost of Gas (02/01/16 - 04/30/16)	<u>\$0.0624</u>	

RESIDENTIAL COST OF GAS RATE - 12/01/15 02/01/2016	COGwr	\$0.6052 \$0.6676	per therm
	Maximum (COG+25%)	\$0.8213	

RESIDENTIAL COST OF GAS RATE - 11/01/15	\$0.6570
CHANGE IN PER UNIT COST	(\$0.0518)
RESIDENTIAL COST OF GAS RATE - 12/01/15	\$0.6052
CHANGE IN PER UNIT COST	<u>\$0.0624</u>
RESIDENTIAL COST OF GAS RATE - 02/01/16	<u>\$0.6676</u>

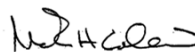
COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/15 02/01/2016	COGwl	\$0.5944 \$0.6568	per therm
	Maximum (COG+25%)	\$0.8078	

COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/15	\$0.6462
CHANGE IN PER UNIT COST	(\$0.0518)
COM/IND LOW WINTER USE COST OF GAS RATE - 12/01/15	\$0.5944
CHANGE IN PER UNIT COST	<u>\$0.0624</u>
COM/IND LOW WINTER USE COST OF GAS RATE - 02/01/16	<u>\$0.6568</u>

COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/15 02/01/2016	COGwh	\$0.6098 \$0.6722	per therm
	Maximum (COG+25%)	\$0.8270	

COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/15	\$0.6616
CHANGE IN PER UNIT COST	(\$0.0518)
COM/IND HIGH WINTER USE COST OF GAS RATE - 12/01/15	\$0.6098
CHANGE IN PER UNIT COST	<u>\$0.0624</u>
COM/IND HIGH WINTER USE COST OF GAS RATE - 02/01/16	<u>\$0.6722</u>

Issued: ~~November 24, 2015~~ January 22, 2016
 Effective Date: ~~December 1, 2015~~ February 1, 2016
 Authorized by NHPUC Order No. 25,836 in Docket No. DG 15-393, dated October 30, 2015.

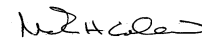
Issued By: 
 Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
WINTER SEASON RESIDENTIAL RATES

Winter Season November 2015 - April 2016	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating Tariff Rate R 5: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$21.36 \$0.6239 \$0.5103 \$0.0374 \$0.6052 \$0.6676	\$21.36 \$0.6613 \$0.5477	\$21.36 \$1.2665 \$1.3289 \$1.1529 \$1.2153
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 \$0.2496 \$0.2041 \$0.0374 \$0.6052 \$0.6676	\$8.54 \$0.2870 \$0.2415	\$8.54 \$0.8922 \$0.9546 \$0.8467 \$0.9091
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 \$0.6052 \$0.6676	\$21.36 \$0.4588 \$0.4588	\$21.36 \$1.0640 \$1.1264 \$1.0640 \$1.1264
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 \$0.6052 \$0.6676	\$15.52 \$0.3570 \$0.3570	\$15.52 \$0.9622 \$1.0246 \$0.9622 \$1.0246

Issued: ~~November 24 2015~~ January 22, 2016

Issued by:



Effective Date: ~~December 1, 2015~~ February 1, 2016

Title: Senior Vice President

Authorized by NHPUC Order No. 25,836 in Docket No. DG 15-393, dated October 30, 2015

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION
WINTER SEASON C&I RATES

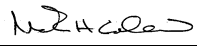
Winter Season November 2015 - April 2016	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter Tariff Rate G 40: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$67.45 \$0.1615 \$0.1615 \$0.0223 \$0.6098 \$0.6722	\$67.45 \$0.1838 \$0.1838	\$67.45 \$0.7936 \$0.8560 \$0.7936 \$0.8560
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 \$0.1615 \$0.0223 \$0.5944 \$0.6568	\$67.45 \$0.1838 \$0.1838	\$67.45 \$0.7782 \$0.8406 \$0.7782 \$0.8406
C&I Medium Annual/High Winter Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$196.73 \$0.2098 \$0.0223 \$0.6098 \$0.6722	\$196.73 \$0.2321	\$196.73 \$0.8419 \$0.9043
C&I Medium Annual/Low Winter Tariff Rate G 51: Monthly Customer Charge First 1,300 therms All usage over 1,300 therms LDAC Gas Cost Adjustment: Cost of Gas	\$196.73 \$0.1520 \$0.1238 \$0.0223 \$0.5944 \$0.6568	\$196.73 \$0.1743 \$0.1461	\$196.73 \$0.7687 \$0.8311 \$0.7405 \$0.8029
C&I High Annual/High Winter Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,124.19 \$0.1764 \$0.0223 \$0.6098 \$0.6722	\$1,124.19 \$0.1987	\$1,124.19 \$0.8085 \$0.8709
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 \$0.1541 \$0.0223 \$0.5944 \$0.6568	\$1,124.19 \$0.1764	\$1,124.19 \$0.7708 \$0.8332

Issued: ~~November 24 2015~~ January 22, 2016

Effective Date: ~~December 1, 2015~~ February 1, 2016

Authorized by NHPUC Order No. 25,836 in Docket No. DG 15-393, dated October 30, 2015

Issued by:


Title: Senior Vice President