

**NORTHERN UTILITIES, INC. - NEW HAMSHIRE DIVISION
2016 / 2017 Annual Cost of Gas Filing**

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

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2016 - April 30, 2017 -Winter Period

Column A	Column B	Column C
1 <u>ANTICIPATED DIRECT COST OF GAS</u>		
2 Purchased Gas for Sales Service:		
3 Demand Costs:	\$ 2,760,644	
4 Supply Costs:	\$ 9,964,565	
5		
6 Storage & Peaking Gas for Sales Service:		
7 Demand, Capacity:	\$ 9,240,209	
8 Commodity Costs:	\$ 3,496,207	
9		
10 Hedging (Gain)/Loss	\$ 64,809	
11		
12 Inventory Finance Charge	\$ 2,038	
13		
14 Capacity Release	\$ (3,672,857)	
15		
16 Adjustment for Actual Costs	<u>\$ -</u>	
17		
18 Total Anticipated Direct Cost of Gas		\$ 21,855,615
19		
20 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
21 Adjustments:		
22 Prior Period Under/(Over) Collection	\$ 850,112	
23 NH PUC Consultant Costs	\$ 20,828	
24 Interest	\$ (901)	
25 Refunds	\$ -	
26 <u>Interruptible Margins</u>	\$ -	
27 Total Adjustments		\$ 870,039
28		
29 Working Capital:		
30 Total Anticipated Direct Cost of Gas	\$ 21,855,615	
31 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	<u>0.0887%</u>	
32 Working Capital Allowance	\$ 19,386	
33		
34 Plus: Working Capital Reconciliation (Acct 182.11)	<u>\$ 651</u>	
35		
36 Total Working Capital Allowance		\$ 20,037
37		
38 Bad Debt:		
39 Bad Debt Allowance	\$ 187,199	
40 Plus: Bad Debt Reconciliation (Acct 182.16)	<u>\$ 82,676</u>	
41 Total Bad Debt Allowance		\$ 269,875
42		
43 Local Production and Storage Capacity		\$ 420,658
44		
45 Miscellaneous Overhead-79.76% Allocated to WinterSeason		<u>\$ 408,908</u>
46		
47 Total Anticipated Indirect Cost of Gas		\$ 1,989,516
48		
49 Total Cost of Gas		<u>\$ 23,845,133</u>

(*) Prime Rate is 3.5%

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Anticipated Cost of Gas

New Hampshire Division
 Period Covered: November 1, 2016 - April 30, 2017 -Winter Period

Column A	Column D
1 <u>ANTICIPATED DIRECT COST OF GAS</u>	
2 Purchased Gas for Sales Service:	
3 Demand Costs:	Schedule 1A, LN 71 - Schedule 1A, LN 80
4 Supply Costs:	Schedule 1B, LN 14
5	
6 Storage & Peaking Gas for Sales Service:	
7 Demand, Capacity:	Schedule 1A, LN 73 - Schedule 1A, LN 79
8 Commodity Costs:	Schedule 1B, LN 16 + Schedule 1B, LN 17
9	
10 Hedging (Gain)/Loss	Schedule 1B, LN 15
11	
12 Inventory Finance Charge	Schedule 22, LN 104
13	
14 Capacity Release	-(Schedule 1A, LN 76)
15	
16 Adjustment for Actual Costs	
17	
18 Total Anticipated Direct Cost of Gas	Sum (LN 3 : LN 16)
19	
20 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
21 Adjustments:	
22 Prior Period Under/(Over) Collection	Schedule 15, Form III, Schedule 1, PG 1
23 NH PUC Consultant Costs	Schedule 26
24 Interest	Schedule 3, LN 115: Total
25 Refunds	
26 <u>Interruptible Margins</u>	-(Schedule 1A, LN 77)
27 Total Adjustments	Sum (LN 22 : LN 26)
28	
29 Working Capital:	
30 Total Anticipated Direct Cost of Gas	LN 18
31 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	NHPUC No. 11 Section 4.06.1
32 Working Capital Allowance	LN 30 * LN 31
33	
34 Plus: Working Capital Reconciliation (Acct 182.11)	Schedule 15, Attachment A
35	
36 Total Working Capital Allowance	Sum (LN 32 : LN 34)
37	
38 Bad Debt:	
39 Bad Debt Allowance	Schedule 4, LN 16
40 Plus: Bad Debt Reconciliation (Acct 182.16)	Schedule 15, Attachment B
41 Total Bad Debt Allowance	LN 39 + LN 40
42	
43 Local Production and Storage Capacity	Schedule 1A, LN 85
44	
45 Miscellaneous Overhead-79.76% Allocated to WinterSeason	Schedule 1A, LN 84
46	
47 Total Anticipated Indirect Cost of Gas	Sum (LN 27 : LN 45)
48	
49 Total Cost of Gas	LN 47 + LN 18

(*) Prime Rate is 3.5%

50 CALCULATION OF FIRM SALES COST OF GAS RATE
 51 Period Covered: November 1, 2016 - April 30, 2017 - Winter Period

52	Column A	Column B	Column C
55	Total Anticipated Direct Cost of Gas	\$ 21,855,615	
56	Projected Prorated Sales (11/01/16 - 04/30/17)	31,549,237	
57	Direct Cost of Gas Rate		\$ 0.6927 per therm
58			
59	Demand Cost of Gas Rate	\$ 8,327,997	\$ 0.2640 per therm
60	Commodity Cost of Gas Rate	\$ 13,525,581	\$ 0.4287 per therm
61	Total Direct Cost of Gas Rate	\$ 21,853,578	\$ 0.6927 per therm
62			
63	Total Anticipated Indirect Cost of Gas	\$ 1,989,516	
64	Projected Prorated Sales (11/01/16 - 04/30/17)	31,549,237	
65	Indirect Cost of Gas		\$ 0.0631 per therm
66			
67			
68	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/17		\$ 0.7558 per therm
69			
70	RESIDENTIAL COST OF GAS RATE - 05/01/17	COGwr	\$ 0.7558 per therm
71		Maximum (COG+25%)	\$ 0.9448
72			
73			
74	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/17	COGwl	\$ 0.6801 per therm
75		Maximum (COG+25%)	\$ 0.8501
76			
77	C&I HLF Demand Costs Allocated per SMBA	\$ 382,221	
78	PLUS: Residential Demand Reallocation to C&I HLF	\$ 66,032	
79	C&I HLF Total Adjusted Demand Costs	\$ 448,254	
80	C&I HLF Projected Prorated Sales (11/01/16 - 04/30/17)	2,570,611	
81	Demand Cost of Gas Rate	\$ 0.1744	
82			
83	C&I HLF Commodity Costs Allocated per SMBA	\$ 1,139,040	
84	PLUS: Residential Commodity Reallocation to C&I HLF	\$ (1,261)	
85	C&I HLF Total Adjusted Commodity Costs	\$ 1,137,779	
86	C&I HLF Projected Prorated Sales (11/01/16 - 04/30/17)	2,570,611	
87	Commodity Cost of Gas Rate	\$ 0.4426	
88			
89	Indirect Cost of Gas	\$ 0.0631	
90			
91	Total C&I HLF Cost of Gas Rate	\$ 0.6801	
92			
93			
94	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/17	COGwh	\$ 0.7696 per therm
95		Maximum (COG+25%)	\$ 0.9620
96			
97	C&I LLF Demand Costs Allocated per SMBA	\$ 3,393,311	
98	PLUS: Residential Demand Reallocation to C&I LLF	\$ 586,225	
99	C&I LLF Total Adjusted Demand Costs	\$ 3,979,536	
100	C&I LLF Projected Prorated Sales (05/01/17 - 04/30/17)	14,203,338	
101	Demand Cost of Gas Rate	\$ 0.2802	
102			
103	C&I LLF Commodity Costs Allocated per SMBA	\$ 6,061,232	
104	PLUS: Residential Commodity Reallocation to C&I LLF	\$ (6,710)	
105	C&I LLF Total Adjusted Commodity Costs	\$ 6,054,521	
106	C&I LLF Projected Prorated Sales (05/01/17 - 04/30/17)	14,203,338	
107	Commodity Cost of Gas Rate	\$ 0.4263	
108			
109	Indirect Cost of Gas	\$ 0.0631	
110			
111	Total C&I LLF Cost of Gas Rate	\$ 0.7696	

50	CALCULATION OF FIRM SALES COST OF GAS RATE	
51	Period Covered: November 1, 2016 - April 30, 2017 - Winter Period	
52		
53	Column A	Column D
54		
55	Total Anticipated Direct Cost of Gas	LN 18
56	Projected Prorated Sales (11/01/16 - 04/30/17)	Schedule 10B, LN 11
57	Direct Cost of Gas Rate	LN 55 / LN 56
58		
59	Demand Cost of Gas Rate	Column B : SUM (LN 3 , LN 7 , LN 14)
60	Commodity Cost of Gas Rate	Column B : SUM (LN 4 , LN 8 , LN 10 , LN12)
61	Total Direct Cost of Gas Rate	SUM (LN 59 : LN 60)
62		
63	Total Anticipated Indirect Cost of Gas	LN 47
64	Projected Prorated Sales (11/01/16 - 04/30/17)	LN 56
65	Indirect Cost of Gas	LN 63 / LN 64
66		
67		
68	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/17	LN 61 + LN 65
69		
70	RESIDENTIAL COST OF GAS RATE - 05/01/17	LN 68
71		LN 70 * 1.25
72		
73		
74	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/17	LN 91
75		LN 74 * 1.25
76		
77	C&I HLF Demand Costs Allocated per SMBA	Schedule 10A, LN 169
78	PLUS: Residential Demand Reallocation to C&I HLF	Schedule 23, LN 16
79	C&I HLF Total Adjusted Demand Costs	Sum (LN 77 : LN 78)
80	C&I HLF Projected Prorated Sales (11/01/16 - 04/30/17)	Schedule 10B, LN 14
81	Demand Cost of Gas Rate	LN 79 / LN 80
82		
83	C&I HLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 139
84	PLUS: Residential Commodity Reallocation to C&I HLF	Schedule 23, LN 26
85	C&I HLF Total Adjusted Commodity Costs	Sum (LN 83 : LN 84)
86	C&I HLF Projected Prorated Sales (11/01/16 - 04/30/17)	LN 80
87	Commodity Cost of Gas Rate	LN 85 / LN 86
88		
89	Indirect Cost of Gas	LN 65
90		
91	Total C&I HLF Cost of Gas Rate	Sum (LN 81, LN 87, LN 89)
92		
93		
94	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/17	LN 111
95		LN 94 * 1.25
96		
97	C&I LLF Demand Costs Allocated per SMBA	Schedule 10A, LN 170
98	PLUS: Residential Demand Reallocation to C&I LLF	Schedule 23, LN 17
99	C&I LLF Total Adjusted Demand Costs	Sum (LN 97 : LN 98)
100	C&I LLF Projected Prorated Sales (05/01/17 - 04/30/17)	Schedule 10B, LN 15
101	Demand Cost of Gas Rate	LN 99 / LN 100
102		
103	C&I LLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 140
104	PLUS: Residential Commodity Reallocation to C&I LLF	Schedule 23, LN 27
105	C&I LLF Total Adjusted Commodity Costs	Sum (LN 103 : LN 104)
106	C&I LLF Projected Prorated Sales (05/01/17 - 04/30/17)	LN 100
107	Commodity Cost of Gas Rate	LN 105 / LN 106
108		
109	Indirect Cost of Gas	LN 65
110		
111	Total C&I LLF Cost of Gas Rate	Sum (LN 101, LN 107, LN 109)

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

Anticipated Cost of Gas

New Hampshire Division
 Period Covered: May 1, 2017 - October 31, 2017

Column A	Column B	Column C
112 ANTICIPATED DIRECT COST OF GAS		
113 Purchased Gas:		
114 Demand Costs:	\$ 437,194	
115 Supply Costs:	\$ 2,032,100	
116		
117 Storage & Peaking Gas:		
118 Demand, Capacity:	\$ 401,228	
119 Commodity Costs:	\$ 29,565	
120		
121 Hedging (Gain)/Loss	\$ -	
122		
123 Interruptible Included Above	\$ -	
124		
125 Capacity Release	\$ -	
126		
127 Adjustment for Actual Costs	\$ -	
128		
129 Total Anticipated Direct Cost of Gas		\$ 2,900,087
130		
131 ANTICIPATED INDIRECT COST OF GAS		
132 Adjustments:		
133 Prior Period Under/(Over) Collection	\$ 215,716	
134 NH PUC Consultant Costs	\$ 2,169	
135 Interest	\$ (17,900)	
136 Refunds	\$ -	
137 Interruptible Margins	\$ -	
138 Total Adjustments		\$ 199,985
139		
140 Working Capital:		
141 Total Anticipated Direct Cost of Gas	\$ 2,900,087	
142 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	<u>0.089%</u>	
143 Working Capital Allowance	\$ 2,572	
144		
145 Plus: Working Capital Reconciliation	<u>\$ 165</u>	
146		
147 Total Working Capital Allowance		\$ 2,738
148		
149 Bad Debt:		
150 Projected Bad Debt	\$ 18,846	
151 Plus: Bad Debt Reconciliation (Acct 182.22)	<u>\$ 20,979</u>	
152 Total Bad Debt Expense		\$ 39,825
153		
154 Local Production and Storage Capacity		\$ -
155		
156 Miscellaneous Overhead-20.24% Allocated to the Summer Season		\$ 103,760
157		
158 Total Anticipated Indirect Cost of Gas		\$ 346,308
159		
160 Total Cost of Gas		\$ 3,246,395

(*) Prime Rate is 3.5%

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

Anticipated Cost of Gas

New Hampshire Division
 Period Covered: May 1, 2017 - October 31, 2017

Column A	Column D
112 ANTICIPATED DIRECT COST OF GAS	
113 Purchased Gas:	
114 Demand Costs:	Schedule 1A, LN 71 - Schedule 1A, LN 80
115 Supply Costs:	Schedule 1B, LN 14
116	
117 Storage & Peaking Gas:	
118 Demand, Capacity:	Schedule 1A, LN 73 - Schedule 1A, LN 79
119 Commodity Costs:	Schedule 1B, LN 16 + Schedule 1B, LN 17
120	
121 Hedging (Gain)/Loss	Schedule 1B, LN 15
122	
123 Interruptible Included Above	-(Schedule 1B, LN 22)
124	
125 Capacity Release	-(Schedule 1A, LN 76)
126	
127 Adjustment for Actual Costs	
128	
129 Total Anticipated Direct Cost of Gas	Sum (LN 114 : LN 127)
130	
131 ANTICIPATED INDIRECT COST OF GAS	
132 Adjustments:	
133 Prior Period Under/(Over) Collection	Schedule 15, Form III, Schedule 1, PG 1
134 NH PUC Consultant Costs	Schedule 26
135 Interest	Schedule 3, LN 115: Total
136 Refunds	Company Analysis
137 Interruptible Margins	-(Schedule 1A, LN 77)
138 Total Adjustments	Sum (LN 133 : LN 137)
139	
140 Working Capital:	
141 Total Anticipated Direct Cost of Gas	LN 129
142 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	3rd Rev. Pg 21 IV COG Clause 6.1
143 Working Capital Allowance	LN 141 * LN 142
144	
145 Plus: Working Capital Reconciliation	Schedule 15, Attachment A
146	
147 Total Working Capital Allowance	Sum (LN 143 : LN 145)
148	
149 Bad Debt:	
150 Projected Bad Debt	Schedule 4, LN 17
151 Plus: Bad Debt Reconciliation (Acct 182.22)	Schedule 15, Attachment B
152 Total Bad Debt Expense	Sum (LN 150 : LN 151)
153	
154 Local Production and Storage Capacity	Schedule 1A, LN 85
155	
156 Miscellaneous Overhead-20.24% Allocated to the Summer Season	Schedule 1A, LN 84
157	
158 Total Anticipated Indirect Cost of Gas	Sum (LN 138 : LN 156)
159	
160 Total Cost of Gas	LN 158 + LN 129

(*) Prime Rate is 3.5%

161 CALCULATION OF FIRM SALES COST OF GAS RATE
 162 Period Covered: May 1, 2017 - October 31, 2017

163	164 Column A	165	166 Column B	167 Column C
166	Total Anticipated Direct Cost of Gas		\$ 2,900,087	
167	Projected Prorated Sales (05/01/17 - 10/31/17)		8,005,603	
168	Direct Cost of Gas Rate			\$ 0.3623 per therm
169				
170	Demand Cost of Gas Rate		\$ 838,422	\$ 0.1047 per therm
171	Commodity Cost of Gas Rate		\$ 2,061,665	\$ 0.2575 per therm
172	Total Direct Cost of Gas Rate		\$ 2,900,087	\$ 0.3622 per therm
173				
174	Total Anticipated Indirect Cost of Gas		\$ 346,308	
175	Projected Prorated Sales (05/01/17 - 10/31/17)		8,005,603	
176	Indirect Cost of Gas			\$ 0.0433 per therm
177				
178				
179	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/17			\$ 0.4055 per therm
180				
181	RESIDENTIAL COST OF GAS RATE - 05/01/17		COGwr	\$ 0.4055 per therm
182			Maximum (COG+25%)	\$ 0.5069
183				
184				
185	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/17		COGwl	\$ 0.3589 per therm
186			Maximum (COG+25%)	\$ 0.4486
187				
188	C&I HLF Demand Costs Allocated per SMBA	\$ 108,191		
189	PLUS: Residential Demand Reallocation to C&I HLF	\$ 16,122		
190	C&I HLF Total Adjusted Demand Costs	\$ 124,313		
191	C&I HLF Projected Prorated Sales (05/01/17 - 10/31/17)	2,140,549		
192	Demand Cost of Gas Rate	\$ 0.0581		
193				
194	C&I HLF Commodity Costs Allocated per SMBA	\$ 551,251		
195	PLUS: Residential Commodity Reallocation to C&I HLF	\$ 44		
196	C&I HLF Total Adjusted Commodity Costs	\$ 551,295		
197	C&I HLF Projected Prorated Sales (05/01/17 - 10/31/17)	2,140,549		
198	Commodity Cost of Gas Rate	\$ 0.2575		
199				
200	Indirect Cost of Gas	\$ 0.0433		
201				
202	Total C&I HLF Cost of Gas Rate	\$ 0.3589		
203				
204				
205	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/17		COGwh	\$ 0.4465 per therm
206			Maximum (COG+25%)	\$ 0.5581
207				
208	C&I LLF Demand Costs Allocated per SMBA	\$ 309,243		
209	PLUS: Residential Demand Reallocation to C&I LLF	\$ 46,083		
210	C&I LLF Total Adjusted Demand Costs	\$ 355,326		
211	C&I LLF Projected Prorated Sales (05/01/17 - 10/31/17)	2,438,282		
212	Demand Cost of Gas Rate	\$ 0.1457		
213				
214	C&I LLF Commodity Costs Allocated per SMBA	\$ 627,925		
215	PLUS: Residential Commodity Reallocation to C&I LLF	\$ 51		
216	C&I LLF Total Adjusted Commodity Costs	\$ 627,976		
217	C&I LLF Projected Prorated Sales (05/01/17 - 10/31/17)	2,438,282		
218	Commodity Cost of Gas Rate	\$ 0.2575		
219				
220	Indirect Cost of Gas	\$ 0.0433		
221				
222	Total C&I LLF Cost of Gas Rate	\$ 0.4465		

161	CALCULATION OF FIRM SALES COST OF GAS RATE	
162	Period Covered: May 1, 2017 - October 31, 2017	
163		
164	Column A	Column D
165		
166	Total Anticipated Direct Cost of Gas	LN 129
167	Projected Prorated Sales (05/01/17 - 10/31/17)	Schedule 10B, LN 11
168	Direct Cost of Gas Rate	LN 166 / LN 167
169		
170	Demand Cost of Gas Rate	Column B : SUM (LN 114 , LN 118 , LN 125)
171	Commodity Cost of Gas Rate	Column B : SUM (LN 115 , LN 119 , LN 121 , LN 123)
172	Total Direct Cost of Gas Rate	SUM (LN 170 : LN 171)
173		
174	Total Anticipated Indirect Cost of Gas	LN 158
175	Projected Prorated Sales (05/01/17 - 10/31/17)	LN 167
176	Indirect Cost of Gas	LN 174 / LN 175
177		
178		
179	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/17	LN 172 + LN 176
180		
181	RESIDENTIAL COST OF GAS RATE - 05/01/17	LN 179
182		LN 181 * 1.25
183		
184		
185	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/17	LN 202
186		LN 185 * 1.25
187		
188	C&I HLF Demand Costs Allocated per SMBA	Schedule 10A, LN 169
189	PLUS: Residential Demand Reallocation to C&I HLF	Schedule 23, LN 16
190	C&I HLF Total Adjusted Demand Costs	Sum (LN 188 : LN 189)
191	C&I HLF Projected Prorated Sales (05/01/17 - 10/31/17)	Schedule 10B, LN 14
192	Demand Cost of Gas Rate	LN 190 / LN 191
193		
194	C&I HLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 139
195	PLUS: Residential Commodity Reallocation to C&I HLF	Schedule 23, LN 26
196	C&I HLF Total Adjusted Commodity Costs	Sum (LN 194 : LN 195)
197	C&I HLF Projected Prorated Sales (05/01/17 - 10/31/17)	LN 191
198	Commodity Cost of Gas Rate	LN 196 / LN 197
199		
200	Indirect Cost of Gas	LN 176
201		
202	Total C&I HLF Cost of Gas Rate	Sum (LN 192, LN 198, LN 200)
203		
204		
205	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/17	LN 222
206		LN 205 * 1.25
207		
208	C&I LLF Demand Costs Allocated per SMBA	Schedule 10A, LN 170
209	PLUS: Residential Demand Reallocation to C&I LLF	Schedule 23, LN 17
210	C&I LLF Total Adjusted Demand Costs	Sum (LN 208 : LN 209)
211	C&I LLF Projected Prorated Sales (05/01/17 - 10/31/17)	Schedule 10B, LN 15
212	Demand Cost of Gas Rate	LN 210 / LN 211
213		
214	C&I LLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 140
215	PLUS: Residential Commodity Reallocation to C&I LLF	Schedule 23, LN 27
216	C&I LLF Total Adjusted Commodity Costs	Sum (LN 214 : LN 215)
217	C&I LLF Projected Prorated Sales (05/01/17 - 10/31/17)	LN 211
218	Commodity Cost of Gas Rate	LN 216 / LN 217
219		
220	Indirect Cost of Gas	LN 176
221		
222	Total C&I LLF Cost of Gas Rate	Sum (LN 212, LN 218, LN 220)

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 NORTHERN UTILITIES, INC.**

Anticipated Cost of Gas

New Hampshire Division
 Period Covered: November 1, 2016 - October 31, 2017

Column A	Column B	Column C
223 ANTICIPATED DIRECT COST OF GAS		
224 Purchased Gas for Sales Service:		
225 Demand Costs:	\$ 3,197,838	
226 Supply Costs:	\$ 11,996,665	
227		
228 Storage & Peaking Gas for Sales Service:		
229 Demand, Capacity:	\$ 9,641,437	
230 Commodity Costs:	\$ 3,525,772	
231		
232 Hedging (Gain)/Loss	\$ 64,809	
233		
234 Inventory Finance Charge	\$ 2,038	
235		
236 Capacity Release	\$ (3,672,857)	
237		
238 Adjustment for Actual Costs	\$ -	
239		
240 Total Anticipated Direct Cost of Gas		\$ 24,755,702
241		
242 ANTICIPATED INDIRECT COST OF GAS		
243 Adjustments:		
244 Prior Period Under/(Over) Collection	\$ 1,065,828	
245 NH PUC Consultant Costs	\$ 22,997	
246 Interest	\$ (18,801)	
247 Refunds	\$ -	
248 <u>Interruptible Margins</u>	\$ -	
249 Total Adjustments		\$ 1,070,024
250		
251 Working Capital:		
252 Total Anticipated Direct Cost of Gas	\$ 24,755,702	
253 Working Capital Percentage	<u>0.0887%</u>	
254 Working Capital Allowance	\$ 21,958	
255		
256 Plus: Working Capital Reconciliation (Acct 182.11)	\$ 651	
257		
258 Total Working Capital Allowance		\$ 22,609
259		
260 Bad Debt:		
261 Bad Debt Allowance	\$ 206,045	
262 Plus: Bad Debt Reconciliation (Acct 182.16)	\$ 103,655	
263 Total Bad Debt Allowance		\$ 309,700
264		
265 Local Production and Storage Capacity		\$ 420,658
266		
267 Miscellaneous Overhead		\$ 512,668
268		
269 Total Anticipated Indirect Cost of Gas		\$ 2,335,659
270		
271 Total Cost of Gas		<u>\$ 27,091,361</u>

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

Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2016 - October 31, 2017

Column A	Column D
223 <u>ANTICIPATED DIRECT COST OF GAS</u>	
224 Purchased Gas for Sales Service:	
225 Demand Costs:	LN 3 + LN 114
226 Supply Costs:	LN 4 + LN 115
227	
228 Storage & Peaking Gas for Sales Service:	
229 Demand, Capacity:	LN 7 + LN 118
230 Commodity Costs:	LN 8 + LN 119
231	
232 Hedging (Gain)/Loss	LN 10 + LN 121
233	
234 Inventory Finance Charge	LN 12 + LN 123
235	
236 Capacity Release	LN 14 + LN 125
237	
238 Adjustment for Actual Costs	
239	
240 Total Anticipated Direct Cost of Gas	LN 18 + LN 129
241	
242 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
243 Adjustments:	
244 Prior Period Under/(Over) Collection	LN 22 + LN 133
245 NH PUC Consultant Costs	LN 23 + LN 134
246 Interest	LN 24 + LN 135
247 Refunds	LN 25 + LN 136
248 Interruptible Margins	LN 26 + LN 137
249 Total Adjustments	LN 27 + LN 138
250	
251 Working Capital:	
252 Total Anticipated Direct Cost of Gas	LN 30 + LN 141
253 Working Capital Percentage	LN 31 + LN 142
254 Working Capital Allowance	LN 32 + LN 143
255	
256 Plus: Working Capital Reconciliation (Acct 182.11)	LN 34 + LN 145
257	
258 Total Working Capital Allowance	LN 36 + LN 147
259	
260 Bad Debt:	
261 Bad Debt Allowance	LN 39 + LN 150
262 Plus: Bad Debt Reconciliation (Acct 182.16)	LN 40 + LN 151
263 Total Bad Debt Allowance	LN 41 + LN 152
264	
265 Local Production and Storage Capacity	LN 43 + LN 154
266	
267 Miscellaneous Overhead	LN 45 + LN 156
268	
269 Total Anticipated Indirect Cost of Gas	LN 47 + LN 158
270	
271 Total Cost of Gas	LN 49 + LN 160