

NORTHERN UTILITIES, INC. - NEW HAMSHIRE DIVISION
2017 / 2018 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, 2017 - April 30, 2018 -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:	\$ 2,736,659	
4 Supply Costs:	\$ 8,821,653	
5		
6 Storage & Peaking Gas for Sales Service:		
7 Demand, Capacity:	\$ 8,330,279	
8 Commodity Costs:	\$ 5,967,050	
9		
10 Hedging (Gain)/Loss	\$ 112,028	
11		
12 Inventory Finance Charge	\$ 3,454	
13		
14 Asset Management	\$ (1,894,561)	
15		
16 Off-system Peaking Demand Cost Adjustment	\$ (44,199)	
17		
18 Total Anticipated Direct Cost of Gas		\$ 24,032,363
19		
20 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
21 Adjustments:		
22 Prior Period Under/(Over) Collection	\$ (292,077)	
23 Interest	\$ (25,703)	
24 Refunds	\$ -	
25 <u>Interruptible Margins</u>	\$ -	
26 Total Adjustments		\$ (317,780)
27		
28 Working Capital:		
29 Total Anticipated Direct Cost of Gas	\$ 24,032,363	
30 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	0.1077%	
31 Working Capital Allowance	\$ 25,884	
32		
33 Plus: Working Capital Reconciliation (Acct 182.11)	\$ 2,771	
34		
35 Total Working Capital Allowance		\$ 28,656
36		
37 Bad Debt:		
38 Bad Debt Allowance	\$ 184,403	
39 Plus: Bad Debt Reconciliation (Acct 182.16)	\$ (3,161)	
40 Total Bad Debt Allowance		\$ 181,243
41		
42 Local Production and Storage Capacity		\$ 420,658
43		
44 Miscellaneous Overhead-81.59% Allocated to WinterSeason		\$ 418,262
45		
46 Total Anticipated Indirect Cost of Gas		\$ 731,039
47		
48 Total Cost of Gas		\$ 24,763,402
(*) Prime Rate is 4.25%		

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Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2017 - April 30, 2018 -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 Asset Management	-(Schedule 1A, LN 76)
15	
16 Off-system Peaking Demand Cost Adjustment	Schedule 21A
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 Interest	Schedule 3, LN 115: Total
24 Refunds	
25 <u>Interruptible Margins</u>	-(Schedule 1A, LN 77)
26 Total Adjustments	Sum (LN 22 : LN 25)
27	
28 Working Capital:	
29 Total Anticipated Direct Cost of Gas	LN 18
30 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	NHPUC No. 11 Section 4.06.1
31 Working Capital Allowance	LN 29 * LN 30
32	
33 Plus: Working Capital Reconciliation (Acct 182.11)	Schedule 15, Attachment A
34	
35 Total Working Capital Allowance	Sum (LN 31 : LN 33)
36	
37 Bad Debt:	
38 Bad Debt Allowance	Schedule 4, LN 16
39 Plus: Bad Debt Reconciliation (Acct 182.16)	Schedule 15, Attachment B
40 Total Bad Debt Allowance	LN 38 + LN 39
41	
42 Local Production and Storage Capacity	Schedule 1A, LN 86
43	
44 Miscellaneous Overhead-81.59% Allocated to WinterSeason	Schedule 1A, LN 85
45	
46 Total Anticipated Indirect Cost of Gas	Sum (LN 26 : LN 44)
47	
48 Total Cost of Gas	LN 46 + LN 18
(*) Prime Rate is 4.25%	

49 CALCULATION OF FIRM SALES COST OF GAS RATE

50 Period Covered: November 1, 2017 - April 30, 2018 - Winter Period

51	Column A	Column B	Column C
52			
53			
54	Total Anticipated Direct Cost of Gas	\$ 24,032,363	
55	Projected Prorated Sales (11/01/17 - 04/30/18)	34,865,979	
56	Direct Cost of Gas Rate		\$ 0.6893 per therm
57			
58	Demand Cost of Gas Rate	\$ 9,128,178	\$ 0.2618 per therm
59	Commodity Cost of Gas Rate	\$ 14,904,185	\$ 0.4275 per therm
60	Total Direct Cost of Gas Rate	\$ 24,032,363	\$ 0.6893 per therm
61			
62	Total Anticipated Indirect Cost of Gas	\$ 731,039	
63	Projected Prorated Sales (11/01/17 - 04/30/18)	34,865,979	
64	Indirect Cost of Gas		\$ 0.0210 per therm
65			
66			
67	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/18		\$ 0.7103 per therm
68			
69	RESIDENTIAL COST OF GAS RATE - 11/01/17	COGwr	\$ 0.7103 per therm
70		Maximum (COG+25%)	\$ 0.8879
71			
72			
73	COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/17	COGwl	\$ 0.6224 per therm
74		Maximum (COG+25%)	\$ 0.7780
75			
76	C&I HLF Demand Costs Allocated per SMBA	\$ 349,557	
77	PLUS: Residential Demand Reallocation to C&I HLF	\$ 57,241	
78	C&I HLF Total Adjusted Demand Costs	\$ 406,798	
79	C&I HLF Projected Prorated Sales (11/01/17 - 04/30/18)	2,448,624	
80	Demand Cost of Gas Rate	\$ 0.1661	
81			
82	C&I HLF Commodity Costs Allocated per SMBA	\$ 1,066,497	
83	PLUS: Residential Commodity Reallocation to C&I HLF	\$ (584)	
84	C&I HLF Total Adjusted Commodity Costs	\$ 1,065,913	
85	C&I HLF Projected Prorated Sales (11/01/17 - 04/30/18)	2,448,624	
86	Commodity Cost of Gas Rate	\$ 0.4353	
87			
88	Indirect Cost of Gas	\$ 0.0210	
89			
90	Total C&I HLF Cost of Gas Rate	\$ 0.6224	
91			
92			
93	COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/17	COGwh	\$ 0.7236 per therm
94		Maximum (COG+25%)	\$ 0.9045
95			
96	C&I LLF Demand Costs Allocated per SMBA	\$ 3,841,918	
97	PLUS: Residential Demand Reallocation to C&I LLF	\$ 629,123	
98	C&I LLF Total Adjusted Demand Costs	\$ 4,471,041	
99	C&I LLF Projected Prorated Sales (05/01/18 - 04/30/18)	16,182,767	
100	Demand Cost of Gas Rate	\$ 0.2763	
101			
102	C&I LLF Commodity Costs Allocated per SMBA	\$ 6,902,243	
103	PLUS: Residential Commodity Reallocation to C&I LLF	\$ (3,782)	
104	C&I LLF Total Adjusted Commodity Costs	\$ 6,898,461	
105	C&I LLF Projected Prorated Sales (05/01/18 - 04/30/18)	16,182,767	
106	Commodity Cost of Gas Rate	\$ 0.4263	
107			
108	Indirect Cost of Gas	\$ 0.0210	
109			
110	Total C&I LLF Cost of Gas Rate	\$ 0.7236	

49	CALCULATION OF FIRM SALES COST OF GAS RATE	
50	Period Covered: November 1, 2017 - April 30, 2018 - Winter Period	
51		
52	Column A	Column D
53		
54	Total Anticipated Direct Cost of Gas	LN 18
55	Projected Prorated Sales (11/01/17 - 04/30/18)	Schedule 10B, LN 11
56	Direct Cost of Gas Rate	LN 54 / LN 55
57		
58	Demand Cost of Gas Rate	Column B : SUM (LN 3 , LN 7 , LN 14)
59	Commodity Cost of Gas Rate	Column B : SUM (LN 4 , LN 8 , LN 10 , LN12)
60	Total Direct Cost of Gas Rate	SUM (LN 58 : LN 59)
61		
62	Total Anticipated Indirect Cost of Gas	LN 46
63	Projected Prorated Sales (11/01/17 - 04/30/18)	LN 55
64	Indirect Cost of Gas	LN 62 / LN 63
65		
66		
67	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/18	LN 60 + LN 64
68		
69	RESIDENTIAL COST OF GAS RATE - 11/01/17	LN 67
70		LN 69 * 1.25
71		
72		
73	COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/17	LN 90
74		LN 73 * 1.25
75		
76	C&I HLF Demand Costs Allocated per SMBA	Schedule 10A, LN 169
77	PLUS: Residential Demand Reallocation to C&I HLF	Schedule 23, LN 16
78	C&I HLF Total Adjusted Demand Costs	Sum (LN 76 : LN 77)
79	C&I HLF Projected Prorated Sales (11/01/17 - 04/30/18)	Schedule 10B, LN 14
80	Demand Cost of Gas Rate	LN 78 / LN 79
81		
82	C&I HLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 139
83	PLUS: Residential Commodity Reallocation to C&I HLF	Schedule 23, LN 26
84	C&I HLF Total Adjusted Commodity Costs	Sum (LN 82 : LN 83)
85	C&I HLF Projected Prorated Sales (11/01/17 - 04/30/18)	LN 79
86	Commodity Cost of Gas Rate	LN 84 / LN 85
87		
88	Indirect Cost of Gas	LN 64
89		
90	Total C&I HLF Cost of Gas Rate	Sum (LN 80, LN 86, LN 88)
91		
92		
93	COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/17	LN 110
94		LN 93 * 1.25
95		
96	C&I LLF Demand Costs Allocated per SMBA	Schedule 10A, LN 170
97	PLUS: Residential Demand Reallocation to C&I LLF	Schedule 23, LN 17
98	C&I LLF Total Adjusted Demand Costs	Sum (LN 96 : LN 97)
99	C&I LLF Projected Prorated Sales (05/01/18 - 04/30/18)	Schedule 10B, LN 15
100	Demand Cost of Gas Rate	LN 98 / LN 99
101		
102	C&I LLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 140
103	PLUS: Residential Commodity Reallocation to C&I LLF	Schedule 23, LN 27
104	C&I LLF Total Adjusted Commodity Costs	Sum (LN 102 : LN 103)
105	C&I LLF Projected Prorated Sales (05/01/18 - 04/30/18)	LN 99
106	Commodity Cost of Gas Rate	LN 104 / LN 105
107		
108	Indirect Cost of Gas	LN 64
109		
110	Total C&I LLF Cost of Gas Rate	Sum (LN 100, LN 106, LN 108)

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Anticipated Cost of Gas

New Hampshire Division
Period Covered: May 1, 2018 - October 31, 2018

Column A	Column B	Column C
111 <u>ANTICIPATED DIRECT COST OF GAS</u>		
112 Purchased Gas:		
113 Demand Costs:	\$ 592,766	
114 Supply Costs:	\$ 2,119,016	
115		
116 Storage & Peaking Gas:		
117 Demand, Capacity:	\$ 370,493	
118 Commodity Costs:	\$ 29,837	
119		
120 Hedging (Gain)/Loss	\$ -	
121		
122 Interruptible Included Above	\$ -	
123		
124 Capacity Release	\$ -	
125		
126 Adjustment for Actual Costs	\$ -	
127		
128 Total Anticipated Direct Cost of Gas		\$ 3,112,112
129		
130 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
131 Adjustments:		
132 Prior Period Under/(Over) Collection	\$ (65,925)	
133 Interest	\$ (27,527)	
134 Refunds		
135 Interruptible Margins	\$ -	
136 Total Adjustments		\$ (93,452)
137		
138 Working Capital:		
139 Total Anticipated Direct Cost of Gas	\$ 3,112,112	
140 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	0.108%	
141 Working Capital Allowance	\$ 3,352	
142		
143 Plus: Working Capital Reconciliation	\$ 626	
144		
145 Total Working Capital Allowance		\$ 3,977
146		
147 Bad Debt:		
148 Projected Bad Debt	\$ 11,146	
149 Plus: Bad Debt Reconciliation (Acct 182.22)	\$ (713)	
150 Total Bad Debt Expense		\$ 10,433
151		
152 Local Production and Storage Capacity		\$ -
153		
154 Miscellaneous Overhead-18.41% Allocated to the Summer Season		\$ 94,406
155		
156 Total Anticipated Indirect Cost of Gas		\$ 15,364
157		
158 Total Cost of Gas		\$ 3,127,475

(*) Prime Rate is 4.25%

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Anticipated Cost of Gas

New Hampshire Division
Period Covered: May 1, 2018 - October 31, 2018

Column A	Column D
111 <u>ANTICIPATED DIRECT COST OF GAS</u>	
112 Purchased Gas:	
113 Demand Costs:	Schedule 1A, LN 71 - Schedule 1A, LN 80
114 Supply Costs:	Schedule 1B, LN 14
115	
116 Storage & Peaking Gas:	
117 Demand, Capacity:	Schedule 1A, LN 73 - Schedule 1A, LN 79
118 Commodity Costs:	Schedule 1B, LN 16 + Schedule 1B, LN 17
119	
120 Hedging (Gain)/Loss	Schedule 1B, LN 15
121	
122 Interruptible Included Above	- (Schedule 1B, LN 22)
123	
124 Capacity Release	- (Schedule 1A, LN 76)
125	
126 Adjustment for Actual Costs	
127	
128 Total Anticipated Direct Cost of Gas	Sum (LN 113 : LN 126)
129	
130 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
131 Adjustments:	
132 Prior Period Under/(Over) Collection	Schedule 15, Form III, Schedule 1, PG 1
133 Interest	Schedule 3, LN 115: Total
134 Refunds	Company Analysis
135 Interruptible Margins	- (Schedule 1A, LN 77)
136 Total Adjustments	Sum (LN 132 : LN 135)
137	
138 Working Capital:	
139 Total Anticipated Direct Cost of Gas	LN 128
140 Working Capital Allowance % (9.25[lag days]/365* prime rate*)	3rd Rev. Pg 21 IV COG Clause 6.1
141 Working Capital Allowance	LN 139 * LN 140
142	
143 Plus: Working Capital Reconciliation	Schedule 15, Attachment A
144	
145 Total Working Capital Allowance	Sum (LN 141 : LN 143)
146	
147 Bad Debt:	
148 Projected Bad Debt	Schedule 4, LN 17
149 Plus: Bad Debt Reconciliation (Acct 182.22)	Schedule 15, Attachment B
150 Total Bad Debt Expense	Sum (LN 148 : LN 149)
151	
152 Local Production and Storage Capacity	Schedule 1A, LN 86
153	
154 Miscellaneous Overhead-18.41% Allocated to the Summer Season	Schedule 1A, LN 85
155	
156 Total Anticipated Indirect Cost of Gas	Sum (LN 136 : LN 154)
157	
158 Total Cost of Gas	LN 156 + LN 128

(*) Prime Rate is 4.25%

159 CALCULATION OF FIRM SALES COST OF GAS RATE
160 Period Covered: May 1, 2018 - October 31, 2018

162 Column A	Column B	Column C
164 Total Anticipated Direct Cost of Gas	\$ 3,112,112	
165 Projected Prorated Sales (05/01/18 - 10/31/18)	7,869,571	
166 Direct Cost of Gas Rate		\$ 0.3955 per therm
168 Demand Cost of Gas Rate	\$ 963,258	\$ 0.1224 per therm
169 Commodity Cost of Gas Rate	\$ 2,148,854	\$ 0.2731 per therm
170 Total Direct Cost of Gas Rate	\$ 3,112,112	\$ 0.3955 per therm
172 Total Anticipated Indirect Cost of Gas	\$ 15,364	
173 Projected Prorated Sales (05/01/18 - 10/31/18)	7,869,571	
174 Indirect Cost of Gas		\$ 0.0020 per therm
177 TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/18		\$ 0.3975 per therm
179 RESIDENTIAL COST OF GAS RATE - 05/01/18	COGwr	\$ 0.3975 per therm
180	Maximum (COG+25%)	\$ 0.4969
183 COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/18	COGwl	\$ 0.3543 per therm
184	Maximum (COG+25%)	\$ 0.4429
186 C&I HLF Demand Costs Allocated per SMBA	\$ 125,955	
187 PLUS: Residential Demand Reallocation to C&I HLF	\$ 13,376	
188 C&I HLF Total Adjusted Demand Costs	\$ 139,331	
189 C&I HLF Projected Prorated Sales (05/01/18 - 10/31/18)	1,757,926	
190 Demand Cost of Gas Rate	\$ 0.0793	
192 C&I HLF Commodity Costs Allocated per SMBA	\$ 480,017	
193 PLUS: Residential Commodity Reallocation to C&I HLF	\$ (55)	
194 C&I HLF Total Adjusted Commodity Costs	\$ 479,961	
195 C&I HLF Projected Prorated Sales (05/01/18 - 10/31/18)	1,757,926	
196 Commodity Cost of Gas Rate	\$ 0.2730	
198 Indirect Cost of Gas	\$ 0.0020	
200 Total C&I HLF Cost of Gas Rate	\$ 0.3543	
203 COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/18	COGwh	\$ 0.4254 per therm
204	Maximum (COG+25%)	\$ 0.5318
206 C&I LLF Demand Costs Allocated per SMBA	\$ 368,794	
207 PLUS: Residential Demand Reallocation to C&I LLF	\$ 39,165	
208 C&I LLF Total Adjusted Demand Costs	\$ 407,959	
209 C&I LLF Projected Prorated Sales (05/01/18 - 10/31/18)	2,713,210	
210 Demand Cost of Gas Rate	\$ 0.1504	
212 C&I LLF Commodity Costs Allocated per SMBA	\$ 740,865	
213 PLUS: Residential Commodity Reallocation to C&I LLF	\$ (85)	
214 C&I LLF Total Adjusted Commodity Costs	\$ 740,780	
215 C&I LLF Projected Prorated Sales (05/01/18 - 10/31/18)	2,713,210	
216 Commodity Cost of Gas Rate	\$ 0.2730	
218 Indirect Cost of Gas	\$ 0.0020	
220 Total C&I LLF Cost of Gas Rate	\$ 0.4254	

159	CALCULATION OF FIRM SALES COST OF GAS RATE	
160	Period Covered: May 1, 2018 - October 31, 2018	
161		
162	Column A	Column D
163		
164	Total Anticipated Direct Cost of Gas	LN 128
165	Projected Prorated Sales (05/01/18 - 10/31/18)	Schedule 10B, LN 11
166	Direct Cost of Gas Rate	LN 164 / LN 165
167		
168	Demand Cost of Gas Rate	Column B : SUM (LN 113 , LN 117 , LN 124)
169	Commodity Cost of Gas Rate	Column B : SUM (LN 114 , LN 118 , LN 120 , LN 122)
170	Total Direct Cost of Gas Rate	SUM (LN 168 : LN 169)
171		
172	Total Anticipated Indirect Cost of Gas	LN 156
173	Projected Prorated Sales (05/01/18 - 10/31/18)	LN 165
174	Indirect Cost of Gas	LN 172 / LN 173
175		
176		
177	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/18	LN 170 + LN 174
178		
179	RESIDENTIAL COST OF GAS RATE - 05/01/18	LN 177
180		LN 179 * 1.25
181		
182		
183	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/18	LN 200
184		LN 183 * 1.25
185		
186	C&I HLF Demand Costs Allocated per SMBA	Schedule 10A, LN 169
187	PLUS: Residential Demand Reallocation to C&I HLF	Schedule 23, LN 16
188	C&I HLF Total Adjusted Demand Costs	Sum (LN 186 : LN 187)
189	C&I HLF Projected Prorated Sales (05/01/18 - 10/31/18)	Schedule 10B, LN 14
190	Demand Cost of Gas Rate	LN 188 / LN 189
191		
192	C&I HLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 139
193	PLUS: Residential Commodity Reallocation to C&I HLF	Schedule 23, LN 26
194	C&I HLF Total Adjusted Commodity Costs	Sum (LN 192 : LN 193)
195	C&I HLF Projected Prorated Sales (05/01/18 - 10/31/18)	LN 189
196	Commodity Cost of Gas Rate	LN 194 / LN 195
197		
198	Indirect Cost of Gas	LN 174
199		
200	Total C&I HLF Cost of Gas Rate	Sum (LN 190, LN 196, LN 198)
201		
202		
203	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/18	LN 220
204		LN 203 * 1.25
205		
206	C&I LLF Demand Costs Allocated per SMBA	Schedule 10A, LN 170
207	PLUS: Residential Demand Reallocation to C&I LLF	Schedule 23, LN 17
208	C&I LLF Total Adjusted Demand Costs	Sum (LN 206 : LN 207)
209	C&I LLF Projected Prorated Sales (05/01/18 - 10/31/18)	Schedule 10B, LN 15
210	Demand Cost of Gas Rate	LN 208 / LN 209
211		
212	C&I LLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 140
213	PLUS: Residential Commodity Reallocation to C&I LLF	Schedule 23, LN 27
214	C&I LLF Total Adjusted Commodity Costs	Sum (LN 212 : LN 213)
215	C&I LLF Projected Prorated Sales (05/01/18 - 10/31/18)	LN 209
216	Commodity Cost of Gas Rate	LN 214 / LN 215
217		
218	Indirect Cost of Gas	LN 174
219		
220	Total C&I LLF Cost of Gas Rate	Sum (LN 210, LN 216, LN 218)

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Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2017 - October 31, 2018

Column A	Column B	Column C
221 <u>ANTICIPATED DIRECT COST OF GAS</u>		
222 Purchased Gas for Sales Service:		
223 Demand Costs:	\$ 3,329,425	
224 Supply Costs:	\$ 10,940,669	
225		
226 Storage & Peaking Gas for Sales Service:		
227 Demand, Capacity:	\$ 8,700,771	
228 Commodity Costs:	\$ 5,996,887	
229		
230 Hedging (Gain)/Loss	\$ 112,028	
231		
232 Inventory Finance Charge	\$ 3,454	
233		
234 Capacity Release	\$ (1,894,561)	
235		
236 Adjustment for Actual Costs	\$ (44,199)	
237		
238 Total Anticipated Direct Cost of Gas		\$ 27,144,475
239		
240 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
241 Adjustments:		
242 Prior Period Under/(Over) Collection	\$ (358,002)	
243 Interest	\$ (53,230)	
244 Refunds	\$ -	
245 <u>Interruptible Margins</u>	\$ -	
246 Total Adjustments		\$ (411,232)
247		
248 Working Capital:		
249 Total Anticipated Direct Cost of Gas	\$ 27,144,475	
250 Working Capital Percentage	<u>0.1077%</u>	
251 Working Capital Allowance	\$ 29,236	
252		
253 Plus: Working Capital Reconciliation (Acct 182.11)	\$ 2,771	
254		
255 Total Working Capital Allowance		\$ 32,008
256		
257 Bad Debt:		
258 Bad Debt Allowance	\$ 195,550	
259 Plus: Bad Debt Reconciliation (Acct 182.16)	\$ (3,874)	
260 Total Bad Debt Allowance		\$ 191,676
261		
262 Local Production and Storage Capacity		\$ 420,658
263		
264 Miscellaneous Overhead		\$ 512,668
265		
266 Total Anticipated Indirect Cost of Gas		\$ 745,777
267		
268 Total Cost of Gas		<u>\$ 27,890,252</u>

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NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division

Period Covered: November 1, 2017 - October 31, 2018

Column A	Column D
221 <u>ANTICIPATED DIRECT COST OF GAS</u>	
222 Purchased Gas for Sales Service:	
223 Demand Costs:	LN 3 + LN 113
224 Supply Costs:	LN 4 + LN 114
225	
226 Storage & Peaking Gas for Sales Service:	
227 Demand, Capacity:	LN 7 + LN 117
228 Commodity Costs:	LN 8 + LN 118
229	
230 Hedging (Gain)/Loss	LN 10 + LN 120
231	
232 Inventory Finance Charge	LN 12 + LN 122
233	
234 Capacity Release	LN 14 + LN 124
235	
236 Adjustment for Actual Costs	
237	
238 Total Anticipated Direct Cost of Gas	LN 18 + LN 128
239	
240 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
241 Adjustments:	
242 Prior Period Under/(Over) Collection	LN 22 + LN 132
243 Interest	LN 23 + LN 133
244 Refunds	LN 24 + LN 134
245 <u>Interruptible Margins</u>	LN 25 + LN 135
246 Total Adjustments	LN 26 + LN 136
247	
248 Working Capital:	
249 Total Anticipated Direct Cost of Gas	LN 29 + LN 139
250 Working Capital Percentage	LN 30 + LN 140
251 Working Capital Allowance	LN 31 + LN 141
252	
253 Plus: Working Capital Reconciliation (Acct 182.11)	LN 33 + LN 143
254	
255 Total Working Capital Allowance	LN 35 + LN 145
256	
257 Bad Debt:	
258 Bad Debt Allowance	LN 38 + LN 148
259 Plus: Bad Debt Reconciliation (Acct 182.16)	LN 39 + LN 149
260 Total Bad Debt Allowance	LN 40 + LN 150
261	
262 Local Production and Storage Capacity	LN 42 + LN 152
263	
264 Miscellaneous Overhead	LN 44 + LN 154
265	
266 Total Anticipated Indirect Cost of Gas	LN 46 + LN 156
267	
268 Total Cost of Gas	LN 48 + LN 158