



Liberty Utilities (EnergyNorth Natural Gas) Corp.

1 d/b/a Liberty Utilities

2 Peak 2017 - 2018 Winter Cost of Gas Filing

3 Annual Bill Comparisons, Nov 16 - Apr 17 vs Nov 17 - Apr 18 - Residential Heating Rate R-3

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6 November 1, 2017 - April 30, 2018

7 Residential Heating (R3)

8 PROPOSED

			Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
9			51	90	136	144	116	100	638
10	average Usage (Therms)								
11		5/1/2017 7/1/2017							
12	Winter:								
13	Cust. Chg	\$22.10 \$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$146.58
14	Headblock	\$0.3495 \$0.3863	\$19.61	\$34.76	\$38.63	\$38.63	\$38.63	\$38.63	\$208.89
15	Tailblock	\$0.2892 \$0.3197	\$0.00	\$0.00	\$11.66	\$14.13	\$5.15	\$0.12	\$31.06
16	HB Threshold	100 100							
17									
18	Summer:								
19	Cust. Chg	\$22.10 \$24.43							
20	Headblock	\$0.3495 \$0.3863							
21	Tailblock	\$0.2892 \$0.3197							
22	HB Threshold	20 20							
23									
24	Total Base Rate Amount		\$44.04	\$59.19	\$74.72	\$77.19	\$68.21	\$63.18	\$386.53
25									
26	COG Rate - (Seasonal)		\$0.6445	\$0.6445	\$0.6445	\$0.6445	\$0.6445	\$0.6445	\$0.6445
27	COG amount		\$32.72	\$57.99	\$87.96	\$92.94	\$74.83	\$64.69	\$411.14
28									
29	LDAC		\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856
30	LDAC amount		\$4.35	\$7.70	\$11.69	\$12.35	\$9.94	\$8.59	\$54.62
31									
32	Total Bill		\$81.11	\$124.89	\$174.37	\$182.49	\$152.98	\$136.45	\$852.29

34 November 1, 2016 - April 30, 2017

35 Residential Heating (R3)

36 CURRENT

			Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
37			51	90	136	144	116	100	638
38	average Usage (Therms)								
39		5/1/2016 7/1/2016							
40	Winter:								
41	Cust. Chg	\$22.04 \$22.10	\$22.10	\$22.10	\$22.10	\$22.10	\$22.10	\$22.10	\$132.60
42	Headblock	\$0.3486 \$0.3495	\$17.74	\$31.45	\$34.95	\$34.95	\$34.95	\$34.95	\$188.99
43	Tailblock	\$0.2885 \$0.2892	\$0.00	\$0.00	\$10.55	\$12.79	\$4.66	\$0.11	\$28.10
44	HB Threshold	100 100							
45									
46	Summer:								
47	Cust. Chg	\$22.04 \$22.10							
48	Headblock	\$0.3486 \$0.3495							
49	Tailblock	\$0.2885 \$0.2892							
50	HB Threshold	20 20							
51									
52	Total Base Rate Amount		\$39.84	\$53.55	\$67.60	\$69.84	\$61.71	\$57.16	\$349.69
53									
54	COG Rate - (Seasonal)		\$0.7162	\$0.6439	\$0.7276	\$0.6012	\$0.4841	\$0.4002	\$0.5905
55	COG amount		\$36.36	\$57.94	\$99.30	\$86.70	\$56.21	\$40.17	\$376.68
56									
57	LDAC		\$0.0553	\$0.0553	\$0.0640	\$0.0640	\$0.0640	\$0.0640	0.0621
58	LDAC amount		\$2.81	\$4.98	\$8.73	\$9.23	\$7.43	\$6.42	\$39.60
59									
60	Total Bill		\$79.01	\$116.46	\$175.64	\$165.76	\$125.35	\$103.74	\$765.97

62 DIFFERENCE:

63	Total Bill		\$2.10	\$8.42	(\$1.27)	\$16.72	\$27.64	\$32.71	\$86.32
64	% Change		2.65%	7.23%	-0.72%	10.09%	22.05%	31.53%	11.27%
65									
66	Base Rate		\$4.20	\$5.64	\$7.12	\$7.36	\$6.50	\$6.02	\$36.84
67	% Change		10.54%	10.53%	10.54%	10.54%	10.54%	10.53%	10.54%
68									
69	COG & LDAC		(\$2.10)	\$2.78	(\$8.39)	\$9.36	\$21.13	\$26.69	\$49.48
70	% Change		-5.78%	4.80%	-8.45%	10.80%	37.60%	66.45%	13.13%
	check		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
48	27	16	14	14	22	141	779
\$22.10	\$22.10	\$24.43	\$24.43	\$24.43	\$24.43	\$141.92	\$288.50
\$6.99	\$6.99	\$6.26	\$5.45	\$5.43	\$7.73	\$38.84	\$247.73
\$8.14	\$2.02	\$0.00	\$0.00	\$0.00	\$0.52	\$10.67	\$41.73
\$37.23	\$31.11	\$30.69	\$29.88	\$29.86	\$32.67	\$191.43	\$577.96
\$0.4368	\$0.4368	\$0.4368	\$0.4002	\$0.4002	\$0.4002	\$0.4239	\$0.8045
\$21.02	\$11.78	\$7.08	\$5.64	\$5.63	\$8.65	\$59.79	\$470.93
\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0817
\$3.08	\$1.73	\$1.04	\$0.90	\$0.90	\$1.38	\$9.03	\$63.65
\$61.33	\$44.61	\$38.80	\$36.42	\$36.38	\$42.71	\$260.25	\$1,112.54

May 1, 2016 - October 31, 2016

May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Summer May-Oct	Total Nov-Oct
48	27	16	14	14	22	141	779
\$22.04	\$22.04	\$22.10	\$22.10	\$22.10	\$22.10	\$132.48	\$265.08
\$6.97	\$6.97	\$5.66	\$4.93	\$4.91	\$6.99	\$36.43	\$225.43
\$8.12	\$2.01	\$0.00	\$0.00	\$0.00	\$0.47	\$10.59	\$38.69
\$37.13	\$31.02	\$27.76	\$27.03	\$27.01	\$29.56	\$179.51	\$529.20
\$0.4117	\$0.4400	\$0.4400	\$0.4200	\$0.4200	\$0.4890	\$0.4339	\$0.5621
\$19.81	\$11.87	\$7.13	\$5.92	\$5.90	\$10.57	\$61.20	\$437.88
\$0.1014	\$0.1014	\$0.0937	\$0.0937	\$0.0937	\$0.0937	\$0.0978	\$0.0685
\$4.88	\$2.73	\$1.52	\$1.32	\$1.32	\$2.03	\$13.80	\$53.40
\$61.82	\$45.62	\$36.41	\$34.27	\$34.23	\$42.15	\$254.50	\$1,020.47

(\$0.49)	(\$1.01)	\$2.39	\$2.15	\$2.15	\$0.55	\$5.74	\$92.06
-0.80%	-2.22%	6.57%	6.28%	6.28%	1.31%	2.26%	9.02%
\$0.10	\$0.08	\$2.93	\$2.85	\$2.85	\$3.12	\$11.92	\$48.76
0.26%	0.27%	10.54%	10.54%	10.54%	10.54%	6.64%	9.21%
(\$0.59)	(\$1.09)	(\$0.53)	(\$0.70)	(\$0.70)	(\$2.56)	(\$6.17)	\$43.30
-2.99%	-9.23%	-7.48%	-11.79%	-11.79%	-24.23%	-10.09%	9.89%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

d/b/a Liberty Utilities

Peak 2017 - 2018 Winter Cost of Gas Filing

Annual Bill Comparisons, Nov 16 - Apr 17 vs Nov 17 - Apr 18 - Commercial Rate G-41

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November 1, 2017 - April 30, 2018

Commercial Rate (G-41)

PROPOSED			Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
average Usage (Therms)			119	248	418	448	356	304	1,892
Winter:	7/1/2017	5/1/2017							
Cust. Chg	\$53.45	\$48.36	\$53.45	\$53.45	\$53.45	\$53.45	\$53.45	\$53.45	\$320.70
Headblock	\$0.4383	\$0.3965	\$43.83	\$43.83	\$43.83	\$43.83	\$43.83	\$43.83	\$262.98
Tailblock	\$0.2944	\$0.2663	\$5.45	\$43.57	\$93.56	\$102.35	\$75.36	\$60.02	\$380.30
HB Threshold	100	100							
Summer:									
Cust. Chg	\$53.45	\$48.36							
Headblock	\$0.4383	\$0.3965							
Tailblock	\$0.2944	\$0.2663							
HB Threshold	20	20							
Total Base Rate Amount			\$102.73	\$140.85	\$190.84	\$199.63	\$172.64	\$157.30	\$963.98
COG Rate - (Seasonal)			\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433
COG amount			\$76.23	\$159.54	\$268.76	\$287.97	\$228.99	\$195.49	\$1,216.98
LDAC			\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	0.0674
LDAC amount			\$7.99	\$16.72	\$28.17	\$30.18	\$24.00	\$20.49	\$127.56
Total Bill			\$186.95	\$317.11	\$487.77	\$517.78	\$425.63	\$373.28	\$2,308.52

November 1, 2016 - April 30, 2017

Commercial Rate (G-41)

CURRENT			Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
average Usage (Therms)			119	248	418	448	356	304	1,892
Winter:	5/1/2016	7/1/2016							
Cust. Chg	\$48.24	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$290.16
Headblock	\$0.3956	\$0.3965	\$39.65	\$39.65	\$39.65	\$39.65	\$39.65	\$39.65	\$237.90
Tailblock	\$0.2657	\$0.2663	\$4.93	\$39.41	\$84.63	\$92.58	\$68.16	\$54.29	\$344.00
HB Threshold	100	100							
Summer:									
Cust. Chg	\$48.24	\$48.36							
Headblock	\$0.3956	\$0.3965							
Tailblock	\$0.2657	\$0.2663							
HB Threshold	20	20							
Total Base Rate Amount			\$92.94	\$127.42	\$172.64	\$180.59	\$156.17	\$142.30	\$872.06
COG Rate - (Seasonal)			\$0.7121	\$0.6398	\$0.7235	\$0.5971	\$0.4800	\$0.3961	\$0.5835
COG amount			\$84.38	\$158.67	\$302.27	\$267.29	\$170.86	\$120.37	\$1,103.84
LDAC			\$0.0370	\$0.0370	\$0.0450	\$0.0450	\$0.0450	\$0.0450	0.0435
LDAC amount			\$4.38	\$9.18	\$18.80	\$20.14	\$16.02	\$13.67	\$82.20
Total Bill			\$181.71	\$295.27	\$493.71	\$468.02	\$343.05	\$276.35	\$2,058.10

DIFFERENCE:

Total Bill	\$5.24	\$21.84	(\$5.94)	\$49.76	\$82.58	\$96.94	\$250.42
% Change	2.89%	7.40%	-1.20%	10.63%	24.07%	35.08%	12.17%
Base Rate	\$9.79	\$13.43	\$18.20	\$19.04	\$16.46	\$15.00	\$91.92
% Change	10.53%	10.54%	10.54%	10.54%	10.54%	10.54%	10.54%
COG & LDAC	(\$4.55)	\$8.41	(\$24.14)	\$30.72	\$66.11	\$81.94	\$158.50
% Change	-5.39%	5.30%	-7.98%	11.49%	38.69%	68.07%	14.36%
check	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
122	49	27	24	23	43	288	2,180
\$48.36	\$48.36	\$53.45	\$53.45	\$53.45	\$53.45	\$310.52	\$631.22
\$7.93	\$7.93	\$8.77	\$8.77	\$8.77	\$8.77	\$50.92	\$313.90
\$27.20	\$7.84	\$2.20	\$1.08	\$0.86	\$6.66	\$45.85	\$426.15
\$83.49	\$64.13	\$64.42	\$63.29	\$63.08	\$68.88	\$407.29	\$1,371.27
\$0.4206	\$0.4206	\$0.4206	\$0.4563	\$0.4563	\$0.4563	\$0.4316	\$0.6153
\$51.38	\$20.79	\$11.55	\$10.80	\$10.46	\$19.45	\$124.44	\$1,341.42
\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0645
\$5.50	\$2.22	\$1.24	\$1.06	\$1.03	\$1.92	\$12.97	\$140.53
\$140.37	\$87.15	\$77.21	\$75.16	\$74.57	\$90.25	\$544.70	\$2,853.23

May 1, 2016 - October 31, 2016

May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Summer May-Oct	Total Nov-Oct
122	49	27	24	23	43	288	2,180
\$48.24	\$48.24	\$48.36	\$48.36	\$48.36	\$48.36	\$289.92	\$580.08
\$7.91	\$7.91	\$7.93	\$7.93	\$7.93	\$7.93	\$47.54	\$285.44
\$27.14	\$7.82	\$1.99	\$0.98	\$0.78	\$6.03	\$44.74	\$388.74
\$83.29	\$63.97	\$58.28	\$57.27	\$57.07	\$62.32	\$382.20	\$1,254.26
\$0.3210	\$0.3383	\$0.3558	\$0.3558	\$0.3558	\$0.3933	\$0.3436	\$0.5518
\$39.21	\$16.73	\$9.77	\$8.42	\$8.16	\$16.77	\$99.06	\$1,202.90
\$0.0628	\$0.0628	\$0.0793	\$0.0793	\$0.0793	\$0.0793	\$0.0695	\$0.0469
\$7.67	\$3.10	\$2.18	\$1.88	\$1.82	\$3.38	\$20.03	\$102.23
\$130.18	\$83.80	\$70.23	\$67.56	\$67.05	\$82.46	\$501.29	\$2,559.39

\$10.19	\$3.34	\$6.97	\$7.60	\$7.53	\$7.79	\$43.42	\$293.84
7.83%	3.99%	9.93%	11.24%	11.23%	9.44%	8.66%	11.48%
\$0.20	\$0.16	\$6.14	\$6.03	\$6.01	\$6.56	\$25.09	\$117.01
0.24%	0.24%	10.53%	10.53%	10.53%	10.53%	6.56%	9.33%
\$9.99	\$3.19	\$0.84	\$1.57	\$1.52	\$1.22	\$18.33	\$176.83
25.48%	19.07%	8.57%	18.61%	18.61%	7.30%	18.50%	14.70%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

1 d/b/a Liberty Utilities

2 Peak 2017 - 2018 Winter Cost of Gas Filing

4 Annual Bill Comparisons, Nov 16 - Apr 17 vs Nov 17 - Apr 18 - Commercial Rate G-42

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7 November 1, 2017 - April 30, 2018

8 C&I High Winter Use Medium G-42

9 PROPOSED

			Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
11	average Usage (Therms)		938	1,648	2,668	2,696	2,751	2,348	13,049
12		7/1/2017 5/1/2017							
13	Winter:								
14	Cust. Chg	\$160.36 \$145.08	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$962.16
15	Headblock	\$0.3986 \$0.3606	\$373.70	\$398.60	\$398.60	\$398.60	\$398.60	\$398.60	\$2,366.70
16	Tailblock	\$0.2655 \$0.2402	\$0.00	\$172.09	\$442.83	\$450.39	\$464.79	\$358.00	\$1,888.11
17	HB Threshold	1,000 1,000							
18									
19	Summer:								
20	Cust. Chg	\$160.36 \$145.08							
21	Headblock	\$0.3986 \$0.3606							
22	Tailblock	\$0.2655 \$0.2402							
23	HB Threshold	400 400							
24									
25	Total Base Rate Amount		\$534.06	\$731.05	\$1,001.79	\$1,009.35	\$1,023.75	\$916.96	\$5,216.96
26									
27	COG Rate - (Seasonal)		\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433
28	COG amount		\$603.11	\$1,060.28	\$1,716.26	\$1,734.59	\$1,769.48	\$1,510.73	\$8,394.45
29									
30	LDAC		\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	0.0674
31	LDAC amount		\$63.22	\$111.13	\$179.89	\$181.81	\$185.47	\$158.35	\$879.88
32									
33	Total Bill		\$1,200.39	\$1,902.46	\$2,897.94	\$2,925.76	\$2,978.70	\$2,586.05	\$14,491.29

35 November 1, 2016 - April 30, 2017

36 C&I High Winter Use Medium G-42

37 CURRENT

			Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
39	average Usage (Therms)		938	1,648	2,668	2,696	2,751	2,348	13,049
40		5/1/2016 7/1/2016							
41	Winter:								
42	Cust. Chg	\$144.73 \$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$870.48
43	Headblock	\$0.3598 \$0.3606	\$338.07	\$360.60	\$360.60	\$360.60	\$360.60	\$360.60	\$2,141.07
44	Tailblock	\$0.2396 \$0.2402	\$0.00	\$155.69	\$400.63	\$407.47	\$420.50	\$323.89	\$1,708.18
45	HB Threshold	1,000 1,000							
46									
47	Summer:								
48	Cust. Chg	\$144.73 \$145.08							
49	Headblock	\$0.3598 \$0.3606							
50	Tailblock	\$0.2396 \$0.2402							
51	HB Threshold	400 400							
52									
53	Total Base Rate Amount		\$483.15	\$661.37	\$906.31	\$913.15	\$926.18	\$829.57	\$4,719.74
54									
55	COG Rate - (Seasonal)		\$0.7121	\$0.6398	\$0.7235	\$0.5971	\$0.4800	\$0.3961	\$0.5757
56	COG amount		\$667.61	\$1,054.51	\$1,930.22	\$1,610.02	\$1,320.30	\$930.21	\$7,512.87
57									
58	LDAC		\$0.0370	\$0.0370	\$0.0450	\$0.0450	\$0.0450	\$0.0450	0.0434
59	LDAC amount		\$34.69	\$60.98	\$120.06	\$121.34	\$123.78	\$105.68	\$566.52
60									
61	Total Bill		\$1,185.46	\$1,776.86	\$2,956.59	\$2,644.51	\$2,370.26	\$1,865.45	\$12,799.12

63 DIFFERENCE:

64	Total Bill		\$14.93	\$125.60	(\$58.65)	\$281.25	\$608.44	\$720.59	\$1,692.17
65	% Change		1.26%	7.07%	-1.98%	10.64%	25.67%	38.63%	13.22%
66									
67	Base Rate		\$50.91	\$69.68	\$95.48	\$96.20	\$97.57	\$87.39	\$497.23
68	% Change		10.54%	10.54%	10.53%	10.53%	10.53%	10.53%	10.54%
69									
70	COG & LDAC		(\$35.97)	\$55.92	(\$154.13)	\$185.05	\$510.87	\$633.20	\$1,194.94
71	% Change		-5.39%	5.30%	-7.98%	11.49%	38.69%	68.07%	15.91%
	check		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
1,081	517	269	267	264	435	2,834	15,883
\$145.08	\$145.08	\$160.36	\$160.36	\$160.36	\$160.36	\$931.60	\$1,893.76
\$144.24	\$144.24	\$107.22	\$106.46	\$105.25	\$159.44	\$766.85	\$3,133.55
\$163.65	\$28.09	\$0.00	\$0.00	\$0.00	\$9.42	\$201.15	\$2,089.26
\$452.97	\$317.41	\$267.58	\$266.82	\$265.61	\$329.22	\$1,899.60	\$7,116.57
\$0.4206	\$0.4206	\$0.4206	\$0.4563	\$0.4563	\$0.4563	\$0.4328	\$0.6057
\$454.79	\$217.43	\$113.14	\$121.87	\$120.49	\$198.71	\$1,226.42	\$9,620.86
\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0634
\$48.66	\$23.26	\$12.10	\$12.02	\$11.88	\$19.60	\$127.52	\$1,007.40
\$956.42	\$558.10	\$392.82	\$400.71	\$397.98	\$547.52	\$3,253.55	\$17,744.83

May 1, 2016 - October 31, 2016

May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Summer May-Oct	Total Nov-Oct
1,081	517	269	267	264	435	2,834	15,883
\$144.73	\$144.73	\$145.08	\$145.08	\$145.08	\$145.08	\$869.78	\$1,740.26
\$143.92	\$143.92	\$97.00	\$96.31	\$95.22	\$144.24	\$720.61	\$2,861.68
\$163.24	\$28.09	\$0.00	\$0.00	\$0.00	\$8.52	\$199.85	\$1,908.03
\$451.89	\$316.74	\$242.08	\$241.39	\$240.30	\$297.84	\$1,790.23	\$6,509.97
\$0.3976	\$0.4259	\$0.4259	\$0.4059	\$0.4059	\$0.4749	\$0.4189	\$0.5478
\$429.92	\$220.17	\$114.56	\$108.41	\$107.18	\$206.80	\$1,187.04	\$8,699.91
\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0479
\$74.07	\$35.41	\$18.43	\$18.30	\$18.09	\$29.83	\$194.12	\$760.64
\$955.88	\$572.32	\$375.07	\$368.10	\$365.56	\$534.47	\$3,171.40	\$15,970.52

\$0.54	(\$14.22)	\$17.75	\$32.61	\$32.42	\$13.04	\$82.15	\$1,774.31
0.06%	-2.48%	4.73%	8.86%	8.87%	2.44%	2.59%	11.11%
\$1.08	\$0.67	\$25.50	\$25.43	\$25.31	\$31.38	\$109.37	\$606.60
0.24%	0.21%	10.53%	10.53%	10.53%	10.53%	6.11%	9.32%
(\$0.54)	(\$14.89)	(\$7.75)	\$7.18	\$7.10	(\$18.33)	(\$27.22)	\$1,167.72
-0.13%	-6.76%	-6.76%	6.63%	6.63%	-8.87%	-2.29%	13.42%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

1 d/b/a Liberty Utilities

2 Peak 2017 - 2018 Winter Cost of Gas Filing

4 Annual Bill Comparisons, Nov 16 - Apr 17 vs Nov 17 - Apr 18 - Commercial Rate G-52

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7 November 1, 2017 - April 30, 2018

8 Commercial Rate (G-52)

9 PROPOSED

			Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
11	average Usage (Therms)		1,156	1,463	2,024	1,273	2,179	1,858	9,953
12									
13	Winter:	7/1/2017 5/1/2017							
14	Cust. Chg	\$160.36 \$145.08	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$962.16
15	Headblock	\$0.2268 \$0.2052	\$226.80	\$226.80	\$226.80	\$226.80	\$226.80	\$226.80	\$1,360.80
16	Tailblock	\$0.1511 \$0.1367	\$23.60	\$69.93	\$154.66	\$41.25	\$178.16	\$129.66	\$597.25
17	HB Threshold	1,000 1,000							
18									
19	Summer:								
20	Cust. Chg	\$160.36 \$145.08							
21	Headblock	\$0.1644 \$0.1487							
22	Tailblock	\$0.0934 \$0.0845							
23	HB Threshold	1,000 1,000							
24									
25	Total Base Rate Amount		\$410.76	\$457.09	\$541.82	\$428.41	\$565.32	\$516.82	\$2,920.21
26									
27	COG Rate - (Seasonal)		\$0.6560	\$0.6560	\$0.6560	\$0.6560	\$0.6560	\$0.6560	\$0.6560
28	COG amount		\$758.44	\$959.59	\$1,327.47	\$835.07	\$1,429.46	\$1,218.92	\$6,528.96
29									
30	LDAC		\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	0.0674
31	LDAC amount		\$77.96	\$98.63	\$136.45	\$85.84	\$146.93	\$125.29	\$671.10
32									
33	Total Bill		\$1,247.16	\$1,515.31	\$2,005.75	\$1,349.31	\$2,141.71	\$1,861.03	\$10,120.27

35 November 1, 2016 - April 30, 2017

36 Commercial Rate (G-52)

37 CURRENT

			Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
39	average Usage (Therms)		1,156	1,463	2,024	1,273	2,179	1,858	9,953
40									
41	Winter:	5/1/2016 7/1/2016							
42	Cust. Chg	\$144.73 \$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$870.48
43	Headblock	\$0.2047 \$0.2052	\$205.20	\$205.20	\$205.20	\$205.20	\$205.20	\$205.20	\$1,231.20
44	Tailblock	\$0.1364 \$0.1367	\$21.35	\$63.26	\$139.92	\$37.32	\$161.18	\$117.30	\$540.33
45	HB Threshold	1,000 1,000							
46									
47	Summer:								
48	Cust. Chg	\$144.73 \$145.08							
49	Headblock	\$0.1484 \$0.1487							
50	Tailblock	\$0.0843 \$0.0845							
51	HB Threshold	1,000 1,000							
52									
53	Total Base Rate Amount		\$371.63	\$413.54	\$490.20	\$387.60	\$511.46	\$467.58	\$2,642.01
54									
55	COG Rate - (Seasonal)		\$0.7305	\$0.6582	\$0.7419	\$0.6155	\$0.4984	\$0.4145	\$0.5977
56	COG amount		\$844.58	\$962.81	\$1,501.30	\$783.52	\$1,086.04	\$770.19	\$5,948.43
57									
58	LDAC		\$0.0370	\$0.0370	\$0.0450	\$0.0450	\$0.0450	\$0.0450	0.0429
59	LDAC amount		\$42.78	\$54.12	\$91.06	\$57.28	\$98.06	\$83.62	\$426.92
60									
61	Total Bill		\$1,258.98	\$1,430.47	\$2,082.57	\$1,228.40	\$1,695.56	\$1,321.39	\$9,017.36

63 DIFFERENCE:

64	Total Bill		(\$11.82)	\$84.84	(\$76.82)	\$120.92	\$446.15	\$539.65	\$1,102.91
65	% Change		-0.94%	5.93%	-3.69%	9.84%	26.31%	40.84%	12.23%
66									
67	Base Rate		\$39.13	\$43.54	\$51.62	\$40.81	\$53.86	\$49.24	\$278.20
68	% Change		10.53%	10.53%	10.53%	10.53%	10.53%	10.53%	10.53%
69									
70	COG & LDAC		(\$50.95)	\$41.29	(\$128.44)	\$80.11	\$392.29	\$490.41	\$824.71
71	% Change		-6.03%	4.29%	-8.56%	10.22%	36.12%	63.67%	13.86%
	check		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
1,353	1,084	818	759	782	897	5,693	15,645
\$145.08	\$145.08	\$160.36	\$160.36	\$160.36	\$160.36	\$931.60	\$1,893.76
\$148.70	\$148.70	\$134.43	\$124.85	\$128.59	\$147.43	\$832.70	\$2,193.50
\$32.97	\$7.82	\$0.00	\$0.00	\$0.00	\$0.00	\$40.79	\$638.04
\$326.75	\$301.60	\$294.79	\$285.21	\$288.95	\$307.79	\$1,805.09	\$4,725.30
\$0.4574	\$0.4574	\$0.4574	\$0.4931	\$0.4931	\$0.4931	\$0.4727	\$0.5893
\$618.84	\$495.70	\$374.01	\$374.49	\$385.69	\$442.21	\$2,690.94	\$9,219.90
\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0593
\$60.88	\$48.77	\$36.80	\$34.18	\$35.20	\$40.36	\$256.18	\$927.27
\$1,006.47	\$846.07	\$705.59	\$693.88	\$709.84	\$790.35	\$4,752.20	\$14,872.47

May 1, 2016 - October 31, 2016

May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Summer May-Oct	Total Nov-Oct
1,353	1,084	818	759	782	897	5,693	15,645
\$144.73	\$144.73	\$145.08	\$145.08	\$145.08	\$145.08	\$869.78	\$1,740.26
\$148.40	\$148.40	\$121.59	\$112.93	\$116.31	\$133.35	\$780.98	\$2,012.18
\$29.75	\$7.06	\$0.00	\$0.00	\$0.00	\$0.00	\$36.81	\$577.15
\$322.88	\$300.19	\$266.67	\$258.01	\$261.39	\$278.43	\$1,687.58	\$4,329.59
\$0.4415	\$0.4698	\$0.4698	\$0.4498	\$0.4498	\$0.5188	\$0.4654	\$0.5495
\$597.33	\$509.14	\$384.14	\$341.60	\$351.83	\$465.25	\$2,649.30	\$8,597.73
\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0685	\$0.0522
\$92.68	\$74.24	\$56.01	\$52.02	\$53.58	\$61.43	\$389.96	\$816.88
\$1,012.89	\$883.57	\$706.82	\$651.64	\$666.80	\$805.11	\$4,726.83	\$13,744.19

(\$6.42)	(\$37.49)	(\$1.24)	\$42.24	\$43.05	(\$14.76)	\$25.37	\$1,128.28
-0.63%	-4.24%	-0.18%	6.48%	6.46%	-1.83%	0.54%	8.21%
\$3.86	\$1.41	\$28.12	\$27.20	\$27.56	\$29.36	\$117.51	\$395.71
1.20%	0.47%	10.54%	10.54%	10.54%	10.54%	6.96%	9.14%
(\$10.28)	(\$38.91)	(\$29.35)	\$15.04	\$15.49	(\$44.12)	(\$92.14)	\$732.57
-1.72%	-7.64%	-7.64%	4.40%	4.40%	-9.48%	-3.48%	8.52%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

1 d/b/a Liberty Utilities

2 Peak 2017 - 2018 Winter Cost of Gas Filing

3 Residential Heating

	Winter 2016-17	Winter 2017-18
4		
5 Customer Charge	\$22.10	\$24.43
6 First 100 Therms	\$0.3495	\$0.3863
7 Excess 100 Therms	\$0.2892	\$0.3197
8 LDAC	\$0.0621	\$0.0856
9 COG	\$0.5905	\$0.6445
10 Total Adjust	\$0.6526	\$0.7301

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Winter 2016-17 COG @ Winter 2017-18 COG @

\$0.6526 \$0.7301

5 \$27.11 \$27.50

10 \$32.12 \$32.90

20 \$42.14 \$43.69

30 \$52.16 \$54.49

45 \$67.19 \$70.68

50 \$72.20 \$76.08

80 \$97.25 \$103.07

125 \$153.38 \$163.70

150 \$169.39 \$181.03

200 \$216.48 \$231.99

Total		Base Rate		COG		LDAC	
\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact
\$0.08	12%						
\$0.39	1%	\$0.00	0%	\$0.27	1%	\$0.12	0%
\$0.78	2%	\$0.00	0%	\$0.54	2%	\$0.24	1%
\$1.55	4%	\$0.00	0%	\$1.08	2%	\$0.47	1%
\$2.33	4%	\$0.00	0%	\$1.62	3%	\$0.71	1%
\$3.49	5%	\$0.00	0%	\$2.43	3%	\$1.06	2%
\$3.88	5%	\$0.00	0%	\$2.70	4%	\$1.18	2%
\$5.82	6%	\$0.00	0%	\$4.05	4%	\$1.77	2%
\$10.32	7%	\$0.00	0%	\$7.18	4%	\$3.13	2%
\$11.63	7%	\$0.00	0%	\$8.10	4%	\$3.53	2%
\$15.51	7%	\$0.00	0%	\$10.80	5%	\$4.71	2%

Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 Off Peak 2018 Summer Cost of Gas Filing

3 Annual Bill Comparisons, May 17 - Oct 17 vs May 18 - Oct 18 - Residential Heating Rate R-3

5
6 November 1, 2017 - April 30, 2018
7 Residential Heating (R3)

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
Typical Usage (Therms)	51	90	136	144	116	100	638
7/1/2016							
Winter:							
Cust. Chg	\$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$146.58
Headblock	\$0.3863	\$19.61	\$34.76	\$38.63	\$38.63	\$38.63	\$208.89
Tailblock	\$0.3197	\$0.00	\$0.00	\$11.66	\$14.13	\$5.15	\$31.06
HB Threshold	100						
Summer:							
Cust. Chg	\$24.43						
Headblock	\$0.3863						
Tailblock	\$0.3197						
HB Threshold	20						
Total Base Rate Amount	\$44.04	\$59.19	\$74.72	\$77.19	\$68.21	\$63.18	\$386.53
COG Rate - (Seasonal)	\$0.6445	\$0.6445	\$0.6445	\$0.6445	\$0.6445	\$0.6445	\$0.6445
COG amount	\$32.72	\$57.99	\$87.96	\$92.94	\$74.83	\$64.69	\$411.14
LDAC	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	0.0856
LDAC amount	\$4.35	\$7.70	\$11.69	\$12.35	\$9.94	\$8.59	\$54.62
Total Bill	\$81.11	\$124.89	\$174.37	\$182.49	\$152.98	\$136.45	\$852.29

33
34 November 1, 2016 - April 30, 2017

35 Residential Heating (R3)

	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
Typical Usage (Therms)	51	90	136	144	116	100	638
Winter:							
Cust. Chg	\$22.10	\$22.10	\$22.10	\$22.10	\$22.10	\$22.10	\$132.60
Headblock	\$17.74	\$31.45	\$34.95	\$34.95	\$34.95	\$34.95	\$188.99
Tailblock	\$0.00	\$0.00	\$10.55	\$12.79	\$4.66	\$0.11	\$28.10
HB Threshold							
Summer:							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	\$39.84	\$53.55	\$67.60	\$69.84	\$61.71	\$57.16	\$349.69
COG Rate - (Seasonal)	\$0.7162	\$0.6439	\$0.7276	\$0.6012	\$0.4841	\$0.4002	\$0.5905
COG amount	\$36.36	\$57.94	\$99.30	\$86.70	\$56.21	\$40.17	\$376.68
LDAC	\$0.0553	\$0.0553	\$0.0640	\$0.0640	\$0.0640	\$0.0640	0.0621
LDAC amount	\$2.81	\$4.98	\$8.73	\$9.23	\$7.43	\$6.42	\$39.60
Total Bill	\$79.01	\$116.46	\$175.64	\$165.76	\$125.35	\$103.74	\$765.97

62 DIFFERENCE:

Total Bill	\$2.10	\$8.42	(\$1.27)	\$16.72	\$27.64	\$32.71	\$86.32
% Change	2.65%	7.23%	-0.72%	10.09%	22.05%	31.53%	11.27%
Base Rate	\$4.20	\$5.64	\$7.12	\$7.36	\$6.50	\$6.02	\$36.84
% Change	10.54%	10.53%	10.54%	10.54%	10.54%	10.53%	10.54%
COG & LDAC	(\$2.10)	\$2.78	(\$8.39)	\$9.36	\$21.13	\$26.69	\$49.48
% Change	-5.36%	4.42%	-7.77%	9.76%	33.21%	57.29%	11.89%
check	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2018 - October 31, 2018

May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer May-Oct	Total Nov-Oct
48	27	16	14	14	22	141	779
\$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$24.43	\$146.58	\$293.16
\$7.73	\$7.73	\$6.26	\$5.45	\$5.43	\$7.73	\$40.31	\$249.20
\$8.99	\$2.23	\$0.00	\$0.00	\$0.00	\$0.52	\$11.74	\$42.80
\$41.15	\$34.38	\$30.69	\$29.88	\$29.86	\$32.67	\$198.63	\$585.16
\$0.3133	\$0.3133	\$0.3133	\$0.3133	\$0.3133	\$0.3133	\$0.3133	\$0.5845
\$15.08	\$8.45	\$5.07	\$4.42	\$4.40	\$6.77	\$44.20	\$455.33
\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856	\$0.0856
\$4.12	\$2.31	\$1.39	\$1.21	\$1.20	\$1.85	\$12.08	\$66.70
\$60.35	\$45.14	\$37.15	\$35.50	\$35.47	\$41.29	\$254.90	\$1,107.19

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
48	27	16	14	14	22	141	779
\$22.10	\$22.10	\$24.43	\$24.43	\$24.43	\$24.43	\$141.92	\$274.52
\$6.99	\$6.99	\$6.26	\$5.45	\$5.43	\$7.73	\$38.84	\$227.83
\$8.14	\$2.02	\$0.00	\$0.00	\$0.00	\$0.52	\$10.67	\$38.77
\$37.23	\$31.11	\$30.69	\$29.88	\$29.86	\$32.67	\$191.43	\$541.12
\$0.4368	\$0.4368	\$0.4368	\$0.4002	\$0.4002	\$0.4002	\$0.4239	\$0.5603
\$21.02	\$11.78	\$7.08	\$5.64	\$5.63	\$8.65	\$59.79	\$436.47
\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0640	\$0.0624
\$3.08	\$1.73	\$1.04	\$0.90	\$0.90	\$1.38	\$9.03	\$48.63
\$61.33	\$44.61	\$38.80	\$36.42	\$36.38	\$42.71	\$260.25	\$1,026.22

(\$0.98)	\$0.53	(\$1.65)	(\$0.92)	(\$0.92)	(\$1.41)	(\$5.35)	\$80.97
-1.60%	1.19%	-4.25%	-2.53%	-2.52%	-3.30%	-2.05%	7.89%
\$3.92	\$3.28	\$0.00	\$0.00	\$0.00	\$0.00	\$7.20	\$44.05
10.54%	10.54%	0.00%	0.00%	0.00%	0.00%	3.76%	8.14%
(\$4.90)	(\$2.75)	(\$1.65)	(\$0.92)	(\$0.92)	(\$1.41)	(\$12.55)	\$36.93
-20.34%	-20.34%	-20.34%	-14.06%	-14.06%	-14.06%	-18.24%	7.61%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 Off Peak 2018 Summer Cost of Gas Filing

3 Annual Bill Comparisons, May 16 - Oct 16 vs May 17 - Oct 17 - Commercial Rate G-41

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5
6 November 1, 2017 - April 30, 2018
7 Commercial Rate (G-41)

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
Typical Usage (Therms)	119	248	418	448	356	304	1,892
Winter: 7/1/2016							
Cust. Chg	\$53.45	\$53.45	\$53.45	\$53.45	\$53.45	\$53.45	\$320.70
Headblock	\$0.4383	\$43.83	\$43.83	\$43.83	\$43.83	\$43.83	\$262.98
Tailblock	\$0.2944	\$5.45	\$43.57	\$93.56	\$102.35	\$75.36	\$60.02
HB Threshold	100						\$380.30
Summer:							
Cust. Chg	\$53.45						
Headblock	\$0.4383						
Tailblock	\$0.2944						
HB Threshold	20						
Total Base Rate Amount	\$102.73	\$140.85	\$190.84	\$199.63	\$172.64	\$157.30	\$963.98
COG Rate - (Seasonal)	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433
COG amount	\$76.23	\$159.54	\$268.76	\$287.97	\$228.99	\$195.49	\$1,216.98
LDAC	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	0.0674
LDAC amount	\$7.99	\$16.72	\$28.17	\$30.18	\$24.00	\$20.49	\$127.56
Total Bill	\$186.95	\$317.11	\$487.77	\$517.78	\$425.63	\$373.28	\$2,308.52

34 November 1, 2016 - April 30, 2017

Commercial Rate (G-41)

	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
Typical Usage (Therms)	119	248	418	448	356	304	1,892
Winter:							
Cust. Chg	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$290.16
Headblock	\$39.65	\$39.65	\$39.65	\$39.65	\$39.65	\$39.65	\$237.90
Tailblock	\$4.93	\$39.41	\$84.63	\$92.58	\$68.16	\$54.29	\$344.00
HB Threshold							
Summer:							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	\$92.94	\$127.42	\$172.64	\$180.59	\$156.17	\$142.30	\$872.06
COG Rate - (Seasonal)	\$0.7121	\$0.6398	\$0.7235	\$0.5971	\$0.4800	\$0.3961	\$0.5835
COG amount	\$84.38	\$158.67	\$302.27	\$267.29	\$170.86	\$120.37	\$1,103.84
LDAC	\$0.0370	\$0.0370	\$0.0450	\$0.0450	\$0.0450	\$0.0450	0.0435
LDAC amount	\$4.38	\$9.18	\$18.80	\$20.14	\$16.02	\$13.67	\$82.20
Total Bill	\$181.71	\$295.27	\$493.71	\$468.02	\$343.05	\$276.35	\$2,058.10

62 DIFFERENCE:

Total Bill	\$5.24	\$21.84	(\$5.94)	\$49.76	\$82.58	\$96.94	\$250.42
% Change	2.89%	7.40%	-1.20%	10.63%	24.07%	35.08%	12.17%
Base Rate	\$9.79	\$13.43	\$18.20	\$19.04	\$16.46	\$15.00	\$91.92
% Change	10.53%	10.54%	10.54%	10.54%	10.54%	10.54%	10.54%
COG & LDAC	(\$4.55)	\$8.41	(\$24.14)	\$30.72	\$66.11	\$81.94	\$158.50
% Change	-5.12%	5.01%	-7.52%	10.69%	35.38%	61.13%	13.36%
check	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2018 - October 31, 2018

May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer May-Oct	Total Nov-Oct
122	49	27	24	23	43	288	2,180
\$53.45	\$53.45	\$53.45	\$53.45	\$53.45	\$53.45	\$320.70	\$641.40
\$8.77	\$8.77	\$8.77	\$8.77	\$8.77	\$8.77	\$52.60	\$315.58
\$30.07	\$8.67	\$2.20	\$1.08	\$0.86	\$6.66	\$49.54	\$429.84
\$92.29	\$70.88	\$64.42	\$63.29	\$63.08	\$68.88	\$422.84	\$1,386.82
\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.5990
\$37.67	\$15.25	\$8.47	\$7.30	\$7.07	\$13.15	\$88.91	\$1,305.89
\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674
\$8.24	\$3.33	\$1.85	\$1.60	\$1.55	\$2.87	\$19.44	\$147.00
\$138.20	\$89.46	\$74.74	\$72.19	\$71.70	\$84.90	\$531.19	\$2,839.71

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
122	49	27	24	23	43	288	2,180
\$48.36	\$48.36	\$53.45	\$53.45	\$53.45	\$53.45	\$310.52	\$600.68
\$7.93	\$7.93	\$8.77	\$8.77	\$8.77	\$8.77	\$50.92	\$288.82
\$27.20	\$7.84	\$2.20	\$1.08	\$0.86	\$6.66	\$45.85	\$389.85
\$83.49	\$64.13	\$64.42	\$63.29	\$63.08	\$68.88	\$407.29	\$1,279.35
\$0.4206	\$0.4206	\$0.4206	\$0.4563	\$0.4563	\$0.4563	\$0.4316	\$0.5634
\$51.38	\$20.79	\$11.55	\$10.80	\$10.46	\$19.45	\$124.44	\$1,228.28
\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0437
\$5.50	\$2.22	\$1.24	\$1.06	\$1.03	\$1.92	\$12.97	\$95.17
\$140.37	\$87.15	\$77.21	\$75.16	\$74.57	\$90.25	\$544.70	\$2,602.81

(\$2.17)	\$2.31	(\$2.47)	(\$2.97)	(\$2.88)	(\$5.35)	(\$13.52)	\$236.90
-1.55%	2.66%	-3.19%	-3.95%	-3.86%	-5.93%	-2.48%	9.10%
\$8.80	\$6.75	\$0.00	\$0.00	\$0.00	\$0.00	\$15.55	\$107.47
10.54%	10.53%	0.00%	0.00%	0.00%	0.00%	3.82%	8.40%
(\$10.97)	(\$4.44)	(\$2.47)	(\$2.97)	(\$2.88)	(\$5.35)	(\$29.07)	\$129.44
-19.28%	-19.28%	-19.28%	-25.03%	-25.03%	-25.03%	-21.15%	9.78%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 Off Peak 2018 Summer Cost of Gas Filing

4 Annual Bill Comparisons, May 16 - Oct 16 vs May 17 - Oct 17 - Commercial Rate G-42

5

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7 November 1, 2017 - April 30, 2018

8 C&I High Winter Use Medium G-42

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
Typical Usage (Therms)	938	1,648	2,668	2,696	2,751	2,348	13,049
7/1/2016							
Winter:							
Cust. Chg	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$962.16
Headblock	\$0.3986	\$0.3986	\$0.3986	\$0.3986	\$0.3986	\$0.3986	\$2,366.70
Tailblock	\$0.2655	\$0.2655	\$0.2655	\$0.2655	\$0.2655	\$0.2655	\$1,888.11
HB Threshold	1,000						
Summer:							
Cust. Chg	\$160.36						
Headblock	\$0.3986						
Tailblock	\$0.2655						
HB Threshold	400						
Total Base Rate Amount	\$534.06	\$731.05	\$1,001.79	\$1,009.35	\$1,023.75	\$916.96	\$5,216.96
COG Rate - (Seasonal)	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433	\$0.6433
COG amount	\$603.11	\$1,060.28	\$1,716.26	\$1,734.59	\$1,769.48	\$1,510.73	\$8,394.45
LDAC	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	0.0674
LDAC amount	\$63.22	\$111.13	\$179.89	\$181.81	\$185.47	\$158.35	\$879.88
Total Bill	\$1,200.39	\$1,902.46	\$2,897.94	\$2,925.76	\$2,978.70	\$2,586.05	\$14,491.29

35 November 1, 2016 - April 30, 2017

36 C&I High Winter Use Medium G-42

	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
Typical Usage (Therms)	938	1,648	2,668	2,696	2,751	2,348	13,049
Winter:							
Cust. Chg	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$870.48
Headblock	\$338.07	\$360.60	\$360.60	\$360.60	\$360.60	\$360.60	\$2,141.07
Tailblock	\$0.00	\$155.69	\$400.63	\$407.47	\$420.50	\$323.89	\$1,708.18
HB Threshold							
Summer:							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	\$483.15	\$661.37	\$906.31	\$913.15	\$926.18	\$829.57	\$4,719.74
COG Rate - (Seasonal)	\$0.7121	\$0.6398	\$0.7235	\$0.5971	\$0.4800	\$0.3961	\$0.5757
COG amount	\$667.61	\$1,054.51	\$1,930.22	\$1,610.02	\$1,320.30	\$930.21	\$7,512.87
LDAC	\$0.0370	\$0.0370	\$0.0450	\$0.0450	\$0.0450	\$0.0450	0.0434
LDAC amount	\$34.69	\$60.98	\$120.06	\$121.34	\$123.78	\$105.68	\$566.52
Total Bill	\$1,185.46	\$1,776.86	\$2,956.59	\$2,644.51	\$2,370.26	\$1,865.45	\$12,799.12

63 DIFFERENCE:

Total Bill	\$14.93	\$125.60	(\$58.65)	\$281.25	\$608.44	\$720.59	\$1,692.17
% Change	1.26%	7.07%	-1.98%	10.64%	25.67%	38.63%	13.22%
Base Rate	\$50.91	\$69.68	\$95.48	\$96.20	\$97.57	\$87.39	\$497.23
% Change	10.54%	10.54%	10.53%	10.53%	10.53%	10.53%	10.54%
COG & LDAC	(\$35.97)	\$55.92	(\$154.13)	\$185.05	\$510.87	\$633.20	\$1,194.94
% Change	-5.12%	5.01%	-7.52%	10.69%	35.38%	61.13%	14.79%
check	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2018 - October 31, 2018

May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer May-Oct	Total Nov-Oct
1,081	517	269	267	264	435	2,834	15,883
\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$962.16	\$1,924.32
\$159.44	\$159.44	\$107.22	\$106.46	\$105.25	\$159.44	\$797.25	\$3,163.95
\$180.88	\$31.05	\$0.00	\$0.00	\$0.00	\$9.42	\$221.35	\$2,109.45
\$500.68	\$350.85	\$267.58	\$266.82	\$265.61	\$329.22	\$1,980.76	\$7,197.72
\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.3084	\$0.5835
\$333.47	\$159.43	\$82.96	\$82.37	\$81.43	\$134.30	\$873.95	\$9,268.40
\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674
\$72.91	\$34.86	\$18.14	\$18.01	\$17.80	\$29.36	\$191.08	\$1,070.96
\$907.06	\$545.13	\$368.68	\$367.20	\$364.85	\$492.88	\$3,045.80	\$17,537.09

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
1,081	517	269	267	264	435	2,834	15,883
\$145.08	\$145.08	\$160.36	\$160.36	\$160.36	\$160.36	\$931.60	\$1,802.08
\$144.24	\$144.24	\$107.22	\$106.46	\$105.25	\$159.44	\$766.85	\$2,907.92
\$163.65	\$28.09	\$0.00	\$0.00	\$0.00	\$9.42	\$201.15	\$1,909.34
\$452.97	\$317.41	\$267.58	\$266.82	\$265.61	\$329.22	\$1,899.60	\$6,619.34
\$0.4206	\$0.4206	\$0.4206	\$0.4563	\$0.4563	\$0.4563	\$0.4328	\$0.5502
\$454.79	\$217.43	\$113.14	\$121.87	\$120.49	\$198.71	\$1,226.42	\$8,739.28
\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0437
\$48.66	\$23.26	\$12.10	\$12.02	\$11.88	\$19.60	\$127.52	\$694.04
\$956.42	\$558.10	\$392.82	\$400.71	\$397.98	\$547.52	\$3,253.55	\$16,052.67

(\$49.35)	(\$12.97)	(\$24.15)	(\$33.51)	(\$33.13)	(\$54.64)	(\$207.75)	\$1,484.42
-5.16%	-2.32%	-6.15%	-8.36%	-8.32%	-9.98%	-6.39%	9.25%
\$47.72	\$33.44	\$0.00	\$0.00	\$0.00	\$0.00	\$81.16	\$578.38
10.53%	10.53%	0.00%	0.00%	0.00%	0.00%	4.27%	8.74%
(\$97.07)	(\$46.41)	(\$24.15)	(\$33.51)	(\$33.13)	(\$54.64)	(\$288.90)	\$906.03
-19.28%	-19.28%	-19.28%	-25.03%	-25.03%	-25.03%	-21.34%	9.60%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 Off Peak 2018 Summer Cost of Gas Filing

4 Annual Bill Comparisons, May 16 - Oct 16 vs May 17 - Oct 17 - Commercial Rate G-52

5

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7 November 1, 2017 - April 30, 2018

8 Commercial Rate (G-52)

	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	Winter Nov-Apr
Typical Usage (Therms)	1,156	1,463	2,024	1,273	2,179	1,858	9,953
Winter: 7/1/2016							
Cust. Chg	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$962.16
Headblock	\$0.2268	\$226.80	\$226.80	\$226.80	\$226.80	\$226.80	\$1,360.80
Tailblock	\$0.1511	\$23.60	\$69.93	\$154.66	\$41.25	\$178.16	\$597.25
HB Threshold	1,000						
Summer:							
Cust. Chg	\$160.36						
Headblock	\$0.1644						
Tailblock	\$0.0934						
HB Threshold	1,000						
Total Base Rate Amount	\$410.76	\$457.09	\$541.82	\$428.41	\$565.32	\$516.82	\$2,920.21
COG Rate - (Seasonal)	\$0.6560	\$0.6560	\$0.6560	\$0.6560	\$0.6560	\$0.6560	\$0.6560
COG amount	\$758.44	\$959.59	\$1,327.47	\$835.07	\$1,429.46	\$1,218.92	\$6,528.96
LDAC	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	0.0674
LDAC amount	\$77.96	\$98.63	\$136.45	\$85.84	\$146.93	\$125.29	\$671.10
Total Bill	\$1,247.16	\$1,515.31	\$2,005.75	\$1,349.31	\$2,141.71	\$1,861.03	\$10,120.27

35 November 1, 2016 - April 30, 2017

36 Commercial Rate (G-52)

	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Winter Nov-Apr
Typical Usage (Therms)	1,156	1,463	2,024	1,273	2,179	1,858	9,953
Winter:							
Cust. Chg	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$145.08	\$870.48
Headblock	\$205.20	\$205.20	\$205.20	\$205.20	\$205.20	\$205.20	\$1,231.20
Tailblock	\$21.35	\$63.26	\$139.92	\$37.32	\$161.18	\$117.30	\$540.33
HB Threshold							
Summer:							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	\$371.63	\$413.54	\$490.20	\$387.60	\$511.46	\$467.58	\$2,642.01
COG Rate - (Seasonal)	\$0.7305	\$0.6582	\$0.7419	\$0.6155	\$0.4984	\$0.4145	\$0.5977
COG amount	\$844.58	\$962.81	\$1,501.30	\$783.52	\$1,086.04	\$770.19	\$5,948.43
LDAC	\$0.0370	\$0.0370	\$0.0450	\$0.0450	\$0.0450	\$0.0450	0.0429
LDAC amount	\$42.78	\$54.12	\$91.06	\$57.28	\$98.06	\$83.62	\$426.92
Total Bill	\$1,258.98	\$1,430.47	\$2,082.57	\$1,228.40	\$1,695.56	\$1,321.39	\$9,017.36

63 DIFFERENCE:

Total Bill	(\$11.82)	\$84.84	(\$76.82)	\$120.92	\$446.15	\$539.65	\$1,102.91
% Change	-0.94%	5.93%	-3.69%	9.84%	26.31%	40.84%	12.23%
Base Rate	\$39.13	\$43.54	\$51.62	\$40.81	\$53.86	\$49.24	\$278.20
% Change	10.53%	10.53%	10.53%	10.53%	10.53%	10.53%	10.53%
COG & LDAC	(\$50.95)	\$41.29	(\$128.44)	\$80.11	\$392.29	\$490.41	\$824.71
% Change	-5.74%	4.06%	-8.07%	9.53%	33.13%	57.44%	12.94%
check	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

May 1, 2018 - October 31, 2018

May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Summer May-Oct	Total Nov-Oct
1,353	1,084	818	759	782	897	5,693	15,645
\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$160.36	\$962.16	\$1,924.32
\$164.40	\$164.40	\$134.43	\$124.85	\$128.59	\$147.43	\$864.10	\$2,224.90
\$32.97	\$7.82	\$0.00	\$0.00	\$0.00	\$0.00	\$40.79	\$638.04
\$357.73	\$332.58	\$294.79	\$285.21	\$288.95	\$307.79	\$1,867.05	\$4,787.26
\$0.3299	\$0.3299	\$0.3299	\$0.3299	\$0.3299	\$0.3299	\$0.3299	\$0.5373
\$446.34	\$357.53	\$269.75	\$250.54	\$258.04	\$295.85	\$1,878.05	\$8,407.02
\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674	\$0.0674
\$91.23	\$73.08	\$55.13	\$51.21	\$52.74	\$60.47	\$383.86	\$1,054.96
\$895.29	\$763.18	\$619.67	\$586.97	\$599.73	\$664.11	\$4,128.96	\$14,249.23

May 1, 2017 - October 31, 2017

May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Summer May-Oct	Total Nov-Oct
1,353	1,084	818	759	782	897	5,693	15,645
\$145.08	\$145.08	\$160.36	\$160.36	\$160.36	\$160.36	\$931.60	\$1,802.08
\$148.70	\$148.70	\$134.43	\$124.85	\$128.59	\$147.43	\$832.70	\$2,063.90
\$32.97	\$7.82	\$0.00	\$0.00	\$0.00	\$0.00	\$40.79	\$581.12
\$326.75	\$301.60	\$294.79	\$285.21	\$288.95	\$307.79	\$1,805.09	\$4,447.10
\$0.4574	\$0.4574	\$0.4574	\$0.4931	\$0.4931	\$0.4931	\$0.4727	\$0.5522
\$618.84	\$495.70	\$374.01	\$374.49	\$385.69	\$442.21	\$2,690.94	\$8,639.37
\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0450	\$0.0437
\$60.88	\$48.77	\$36.80	\$34.18	\$35.20	\$40.36	\$256.18	\$683.10
\$1,006.47	\$846.07	\$705.59	\$693.88	\$709.84	\$790.35	\$4,752.20	\$13,769.57

(\$111.18)	(\$82.89)	(\$85.91)	(\$106.91)	(\$110.11)	(\$126.24)	(\$623.24)	\$479.67
-11.05%	-9.80%	-12.18%	-15.41%	-15.51%	-15.97%	-13.11%	3.48%
\$30.98	\$30.98	\$0.00	\$0.00	\$0.00	\$0.00	\$61.96	\$340.16
9.48%	10.27%	0.00%	0.00%	0.00%	0.00%	3.43%	7.65%
(\$142.16)	(\$113.87)	(\$85.91)	(\$106.91)	(\$110.11)	(\$126.24)	(\$685.20)	\$139.51
-20.91%	-20.91%	-20.91%	-26.16%	-26.16%	-26.16%	-23.25%	1.50%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 Off Peak 2018 Summer Cost of Gas Filing

3 Residential Heating

	Summer 2017	Summer 2018
5 Customer Charge	\$24.43	\$24.43
6 First 20 Therms	\$0.3863	\$0.3863
7 Excess 20 Therms	\$0.3197	\$0.3197
8 LDAC	\$0.0640	\$0.0856
9 COG	\$0.4239	\$0.3133
10 Total Adjust	\$0.4879	\$0.3989

Summer 2017 COG @	Summer 2018 Cog @
\$0.4879	\$0.3989

18 Cooking alone	5	\$2.44	\$28.36
	10	\$4.88	\$32.28
	20	\$9.76	\$40.13
24 Water Heating alone	30	\$14.64	\$47.32
	45	\$21.95	\$58.10
	50	\$24.39	\$61.69
30 Heating Alone	80	\$36.59	\$79.66
	125	\$64.89	\$121.34
	150	\$73.18	\$133.55
	200	\$97.58	\$169.49

Total		Base Rate		COG		LDAC	
\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact
(\$0.09)	-18%						
\$25.92	1062%	\$26.36	1081%	-\$0.55	-2%	\$0.11	4%
\$27.40	562%	\$28.29	580%	-\$1.11	-3%	\$0.22	4%
\$30.38	311%	\$32.16	330%	-\$2.21	-6%	\$0.43	4%
\$32.68	223%	\$35.35	242%	-\$3.32	-7%	\$0.65	4%
\$36.14	165%	\$40.15	183%	-\$4.98	-9%	\$0.97	4%
\$37.30	153%	\$41.75	171%	-\$5.53	-9%	\$1.08	4%
\$43.07	118%	\$49.74	136%	-\$8.29	-10%	\$1.62	4%
\$56.45	87%	\$68.28	105%	-\$14.71	-12%	\$2.88	4%
\$60.37	82%	\$73.72	101%	-\$16.59	-12%	\$3.24	4%
\$71.91	74%	\$89.70	92%	-\$22.12	-13%	\$4.32	4%