Liberty Utilities (EnergyNorth Natural Gas) Corp.
Test Year Ending December 31, 2019
Summary of Revenue Proof

Docket No. DG 20-105
Attachment RATES-1
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							Per Books Data							

	Customer Count - Actual Number of Bills	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	12 Month Average
1	R-1	3,665	3,392	3,368	3,397	3,523	3,593	3,463	3,530	3,502	3,368	3,318	3,623	3,479
2	R-3	77,739	71,346	71,242	71,330	74,030	74,738	73,127	74,866	72,418	71,237	70,735	77,452	73,355
3	R-4	5,974	6,118	6,221	6,463	6,612	5,983	5,630	5,700	5,442	5,167	5,067	5,769	5,846
4	R-5	74	61	66	69	68	68	76	69	68	73	71	75	70
5	R-6	219	188	189	202	218	232	247	260	255	265	273	283	236
6	R-7	2	2	7	3	3	3	3	4	4	4	4	6	4
7	Total Residential	87,673	81,106	81,094	81,465	84,453	84,617	82,547	84,428	81,689	80,115	79,468	87,207	82,988
8														
9	G-41	10,049	9,080	9,327	9,615	9,351	9,560	9,437	9,182	8,754	8,872	8,656	9,933	9,318
10	G-42	1,485	1,350	1,376	1,414	1,394	1,424	1,421	1,455	1,393	1,397	1,351	1,494	1,413
11	G-43	61	59	55	58	57	57	58	57	59	57	57	59	58
12	G-44	1	2	2	2	2	2	2	2	3	3	4	4	2
13	G-45	8	4	4	4	4	4	4	4	6	7	7	7	5
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	1,390	1,280	1,271	1,284	1,316	1,336	1,309	1,346	1,330	1,265	1,257	1,394	1,315
16	G-52	404	364	373	389	382	401	399	402	387	391	370	429	391
17	G-53	38	36	34	36	34	36	36	33	31	33	33	35	35
18	G-54	29	27	27	29	28	27	27	26	25	24	25	29	27
19	G-55	3	4	2	3	3	3	3	3	3	3	3	3	3
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	1	1	1	1	1	1	1	1	1	1	1	1	1
23	Total C/I	13,468	12,206	12,474	12,835	12,573	12,850	12,696	12,512	11,992	12,053	11,764	13,388	12,567
24														
25	Total	101,141	93,312	93,568	94,300	97,026	97,467	95,244	96,940	93,681	92,167	91,231	100,595	95,556

							Per Books Data							

	Actual - Therms billed	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	88,312	89,781	85,523	75,772	61,312	51,500	39,994	32,680	34,468	38,518	50,194	78,635	726,689
27	R-3	9,524,781	10,512,561	9,418,226	6,541,933	3,756,481	2,077,526	1,185,648	1,009,296	1,043,918	1,535,728	3,547,745	8,051,572	58,205,415
28	R-4	685,665	832,335	791,552	616,505	385,336	169,582	92,841	79,605	79,388	108,054	236,269	558,158	4,635,290
29	R-5	2,459	2,208	2,403	1,506	924	499	454	357	435	696	1,402	2,135	15,478
30	R-6	25,681	25,315	22,848	15,536	9,324	4,598	2,805	2,621	2,751	5,372	15,491	27,991	160,333
31	R-7	182	169	461	158	88	30	26	20	20	52	190	407	1,803
32	Total Residential	10,327,081	11,462,368	10,321,013	7,251,410	4,213,465	2,303,735	1,321,768	1,124,578	1,160,980	1,688,420	3,851,290	8,718,899	63,745,008
33														
34	G-41	4,321,413	4,808,165	4,439,730	3,005,894	1,489,238	701,903	306,229	227,646	250,812	442,272	1,230,906	3,393,209	24,617,416
35	G-42	5,585,268	6,067,067	5,658,958	4,176,998	2,326,679	1,242,218	624,361	557,180	562,741	937,089	2,037,124	4,715,295	34,490,978
36	G-43	1,545,052	1,835,644	1,589,381	1,418,349	888,296	588,694	366,070	349,197	236,954	371,997	654,147	1,254,271	11,098,051
37	G-44	508	896	844	536	285	147	71	64	73	138	731	2,353	6,646
38	G-45	18,414	17,636	15,951	11,831	6,553	5,647	1,015	430	989	3,951	10,997	23,427	116,841
39	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
40	G-51	457,491	483,241	469,505	380,588	333,668	301,708	249,851	237,833	264,277	259,397	291,596	412,872	4,142,026
41	G-52	1,058,630	1,094,095	1,050,193	906,153	756,556	652,598	579,058	567,763	552,389	629,622	713,520	1,048,628	9,609,204
42	G-53	1,073,624	1,230,849	1,084,725	1,063,450	838,251	776,896	696,615	680,191	697,014	642,704	834,275	943,097	10,561,692
43	G-54	1,341,350	1,310,289	1,231,408	1,204,395	1,373,982	1,643,240	1,676,270	1,797,269	1,703,235	1,790,770	1,737,115	1,558,296	18,367,621
44	G-55	527	1,081	308	546	313	189	66	9	62	54	102	437	3,694
45	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
46	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
47	G-58	3,712	3,510	225,768	59,302	63,292	42,032	33,380	35,064	33,476	37,076	41,460	(264,976)	313,096
48	Total C/I	15,405,988	16,852,474	15,766,771	12,228,043	8,077,112	5,955,271	4,532,987	4,452,647	4,302,022	5,115,070	7,551,973	13,086,909	113,327,267
49														
50	Total	25,733,069	28,314,842	26,087,784	19,479,453	12,290,577	8,259,006	5,854,755	5,577,225	5,463,002	6,803,491	11,403,263	21,805,807	177,072,274

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Test Year Ending December 31, 2019
Summary of Revenue Proof

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Per Books Data

Actual - Base Revenue (Margin) w/o Normal Weather Adjustment

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	$88,102	$84,541	$82,588	$79,357	$75,851	$73,241	$67,186	$66,017	$66,273	$65,767	$69,439	$84,840	$903,202
2	R-3	$6,408,219	$6,855,501	$6,251,924	$4,670,732	$3,178,741	$2,265,520	$1,757,764	$1,699,551	$1,681,833	$1,937,904	$3,050,840	$5,661,065	$45,419,593
3	R-4	$186,824	$219,993	$211,632	$174,548	$124,565	$73,282	$54,466	$52,380	$50,774	$55,454	$83,448	$159,434	$1,446,800
4	R-5	$2,632	$2,268	$2,461	$2,078	$1,774	$1,564	$1,724	$1,531	$1,560	$1,775	$2,100	$2,523	$23,991
5	R-6	$22,656	$21,772	$20,028	$15,064	$10,919	$7,817	$6,881	$7,026	$7,028	$9,130	$16,602	$25,851	$170,773
6	R-7	$70	$63	$187	$70	$49	$31	$33	$37	$36	$48	$86	$165	$876
7	Total Residential	$6,683,144	$7,160,034	$6,546,144	$4,924,638	$3,379,156	$2,412,042	$1,879,417	$1,817,948	$1,798,880	$2,059,126	$3,203,727	$5,905,340	$47,965,235
8														
9	G-41	$2,018,048	$2,104,957	$2,006,531	$1,574,033	$1,049,624	$767,206	$632,128	$596,588	$580,228	$651,006	$911,735	$1,737,079	$14,629,163
10	G-42	$1,992,383	$2,086,784	$1,980,377	$1,582,659	$1,017,020	$645,801	$452,462	$437,843	$432,009	$551,672	$898,653	$1,774,036	$13,851,701
11	G-43	$437,697	$510,222	$445,329	$403,689	$259,578	$110,833	$84,132	$82,816	$74,589	$85,658	$124,068	$365,251	$2,983,863
12	G-44	$294	$530	$531	$380	$290	$211	$176	$190	$259	$272	$582	$1,323	$5,038
13	G-45	$9,367	$8,037	$7,299	$5,791	$3,907	$3,290	$1,363	$1,179	$1,835	$3,290	$6,029	$11,278	$62,666
14	G-46	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
15	G-51	$168,535	$166,450	$163,492	$148,156	$141,541	$136,746	$125,887	$126,857	$130,843	$126,111	$131,639	$162,439	$1,728,696
16	G-52	$264,983	$260,610	$256,120	$237,092	$198,080	$157,032	$148,361	$149,222	$144,568	$153,404	$171,040	$270,114	$2,410,626
17	G-53	$205,105	$229,603	$204,554	$202,072	$159,103	$88,359	$82,071	$79,246	$78,852	$76,215	$93,445	$182,777	$1,681,402
18	G-54	$106,050	$102,066	$97,869	$97,225	$105,783	$76,071	$77,412	$81,478	$77,453	$79,866	$78,625	$119,101	$1,098,999
19	G-55	$350	$544	$258	$350	$320	$275	$234	$237	$250	$225	$249	$345	$3,637
20	G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
21	G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
22	G-58	$1,263	$1,311	$17,498	$5,784	$6,207	$2,882	$2,413	$2,611	$2,510	$2,575	$2,804	($15,437)	$32,420
23	Total C/I	$5,202,461	$5,469,259	$5,162,103	$4,251,097	$2,934,927	$1,985,551	$1,603,993	$1,555,419	$1,520,635	$1,727,495	$2,415,817	$4,623,397	$38,488,210
24														
25	Total	$11,885,605	$12,629,293	$11,708,247	$9,175,735	$6,314,082	$4,397,592	$3,483,410	$3,373,367	$3,319,516	$3,786,621	$5,619,544	$10,528,737	$86,453,445

Calculated

Calculated - Base Revenue (Margin) w/o Normal Weather Adjustment

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	$88,082	$84,536	$82,587	$79,370	$75,849	$73,240	$67,223	$66,029	$66,274	$65,770	$69,441	$84,843	$903,243
27	R-3	$6,408,266	$6,855,612	$6,251,934	$4,670,728	$3,178,743	$2,265,622	$1,757,160	$1,699,931	$1,682,009	$1,937,937	$3,050,906	$5,661,186	$45,420,035
28	R-4	$186,834	$219,992	$211,632	$174,549	$124,553	$73,282	$54,471	$52,388	$50,775	$55,493	$83,448	$159,435	$1,446,851
29	R-5	$2,632	$2,268	$2,461	$2,078	$1,774	$1,564	$1,718	$1,531	$1,560	$1,775	$2,100	$2,523	$23,984
30	R-6	$22,656	$21,772	$20,028	$15,064	$10,919	$7,817	$6,865	$7,028	$7,028	$9,130	$16,602	$25,851	$170,759
31	R-7	$70	$63	$187	$70	$49	$31	$33	$37	$36	$48	$86	$165	$875
32	Total Residential	$6,683,182	$7,160,140	$6,546,153	$4,924,647	$3,379,144	$2,412,144	$1,878,854	$1,818,349	$1,799,058	$2,059,200	$3,203,795	$5,905,464	$47,965,748
33														
34	G-41	$2,018,047	$2,104,957	$2,006,538	$1,574,035	$1,049,622	$767,205	$632,176	$596,717	$580,226	$651,005	$911,731	$1,737,235	$14,629,495
35	G-42	$1,992,383	$2,086,784	$1,980,377	$1,582,660	$1,016,937	$645,801	$452,447	$437,946	$432,012	$551,676	$898,653	$1,774,036	$13,851,713
36	G-43	$437,697	$510,222	$445,329	$403,689	$259,578	$110,833	$84,355	$82,821	$74,578	$85,658	$124,068	$365,251	$2,984,079
37	G-44	$296	$532	$534	$382	$291	$211	$176	$190	$259	$272	$582	$1,323	$5,048
38	G-45	$9,340	$8,037	$7,299	$5,791	$3,907	$3,290	$1,368	$1,180	$1,835	$3,290	$6,029	$11,278	$62,646
39	G-46	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
40	G-51	$168,535	$166,452	$163,492	$148,156	$141,541	$136,746	$125,891	$126,880	$130,843	$126,111	$131,640	$162,445	$1,728,731
41	G-52	$264,983	$260,610	$256,120	$237,092	$197,504	$157,032	$148,336	$149,246	$144,546	$153,412	$171,040	$270,119	$2,410,039
42	G-53	$205,105	$229,603	$204,554	$202,072	$159,103	$88,359	$82,297	$79,246	$78,852	$76,215	$93,445	$182,777	$1,681,627
43	G-54	$106,050	$102,066	$97,869	$97,225	$105,783	$76,071	$77,681	$81,478	$77,453	$79,884	$78,625	$119,101	$1,099,286
44	G-55	$350	$544	$258	$350	$320	$275	$234	$238	$250	$225	$249	$345	$3,639
45	G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
46	G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
47	G-58	$1,263	$1,311	$17,466	$5,784	$6,207	$2,882	$2,421	$2,613	$2,510	$2,575	$2,804	($15,607)	$32,229
48	Total C/I	$5,202,436	$5,469,263	$5,162,112	$4,251,102	$2,934,267	$1,985,550	$1,604,728	$1,555,702	$1,520,604	$1,727,524	$2,415,814	$4,623,564	$38,488,533
49														
50	Total	$11,885,618	$12,629,403	$11,708,265	$9,175,749	$6,313,412	$4,397,694	$3,483,581	$3,374,051	$3,319,662	$3,786,723	$5,619,608	$10,529,027	$86,454,281

	Calculated												

Calculated to Actual
Difference - Base Revenue (Margin)

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	$20	($5)	($1)	$12	($2)	($1)	$36	$12	$1	$3	$1	$3	$81
2	R-3	$47	$111	$10	($4)	$2	$103	($604)	$381	$176	$32	$66	$121	$442
3	R-4	$11	($1)	($0)	$1	($12)	($0)	$4	$9	$0	$39	$0	$0	$51
4	R-5	$0	$0	$0	($0)	$0	$0	($7)	$0	$0	$0	$0	$0	($7)
5	R-6	$0	$0	$0	$0	$0	($0)	($16)	$2	$0	$0	$0	$0	($14)
6	R-7	($0)	($0)	($0)	$0	$0	$0	($0)	$0	$0	$0	$0	$0	($0)
7	Total Residential	$77	$105	$9	$9	($11)	$102	($586)	$403	$177	$74	$68	$124	$552
8														
9	G-41	($1)	$0	$6	$3	($2)	($1)	$48	$128	($2)	($1)	($4)	$156	$332
10	G-42	$0	($0)	$0	$0	($83)	$0	($15)	$103	$3	$4	$0	$0	$12
11	G-43	($0)	$0	$0	$0	$0	$0	$223	$5	($11)	$0	$0	$0	$217
12	G-44	$1	$2	$3	$2	$2	$0	$0	$0	$0	$0	$0	$0	$10
13	G-45	($26)	$0	$0	$0	$0	$0	$5	$1	$0	$0	$0	$0	($20)
14	G-46	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
15	G-51	$0	$2	$0	$0	($0)	$0	$3	$22	$0	($0)	$1	$6	$35
16	G-52	$0	$0	$0	$0	($576)	$0	($25)	$24	($22)	$8	$0	$5	($587)
17	G-53	$0	$0	($0)	$0	$0	$0	$226	$0	$0	$0	$0	$0	$226
18	G-54	$0	($0)	$0	$0	$0	$0	$269	$0	$0	$18	$0	($0)	$287
19	G-55	$0	$0	$0	$0	$0	$0	$1	$0	$0	$0	$0	$0	$1
20	G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
21	G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
22	G-58	$0	$0	($32)	$0	$0	$0	$9	$3	$0	$0	$0	($170)	($191)
23	Total C/I	($26)	$5	($23)	$5	($659)	($0)	$744	$287	($31)	$29	($4)	($4)	$323
24														
25	Total	$52	$110	($14)	$15	($671)	$102	$158	$690	$146	$103	$64	$120	$875

	Calculated												

Actual to Calculated
Pct Diff - Base Revenue (Margin)

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	0.0%	(0.0%)	(0.0%)	0.0%	(0.0%)	(0.0%)	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
27	R-3	0.0%	0.0%	0.0%	(0.0%)	0.0%	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
28	R-4	0.0%	(0.0%)	(0.0%)	0.0%	(0.0%)	(0.0%)	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
29	R-5	0.0%	0.0%	0.0%	(0.0%)	0.0%	0.0%	(0.4%)	0.0%	0.0%	0.0%	0.0%	0.0%	(0.0%)
30	R-6	0.0%	0.0%	0.0%	0.0%	0.0%	(0.0%)	(0.2%)	0.0%	0.0%	0.0%	0.0%	0.0%	(0.0%)
31	R-7	(0.0%)	(0.0%)	(0.1%)	0.0%	0.0%	0.0%	(0.5%)	0.0%	0.0%	0.0%	0.0%	0.0%	(0.0%)
32	Total Residential	0.0%	0.0%	0.0%	0.0%	(0.0%)	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
33														
34	G-41	(0.0%)	0.0%	0.0%	0.0%	(0.0%)	(0.0%)	0.0%	0.0%	(0.0%)	(0.0%)	(0.0%)	0.0%	0.0%
35	G-42	0.0%	(0.0%)	0.0%	0.0%	(0.0%)	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
36	G-43	(0.0%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%
37	G-44	0.4%	0.4%	0.5%	0.6%	0.6%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.2%
38	G-45	(0.3%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	(0.0%)
39	G-46	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
40	G-51	0.0%	0.0%	0.0%	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%	(0.0%)	0.0%	0.0%	0.0%
41	G-52	0.0%	0.0%	0.0%	0.0%	(0.3%)	0.0%	(0.0%)	0.0%	(0.0%)	0.0%	0.0%	0.0%	(0.0%)
42	G-53	0.0%	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
43	G-54	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	(0.0%)	0.0%
44	G-55	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
45	G-56	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
46	G-57	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47	G-58	0.0%	0.0%	(0.2%)	0.0%	0.0%	0.0%	0.4%	0.1%	0.0%	0.0%	0.0%	1.1%	(0.6%)
48	Total C/I	(0.0%)	0.0%	(0.0%)	0.0%	(0.0%)	(0.0%)	0.0%	0.0%	(0.0%)	0.0%	(0.0%)	(0.0%)	0.0%
49														
50	Total	0.0%	0.0%	(0.0%)	0.0%	(0.0%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

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Per Books Data

	Customer Count - Actual Number of Bills	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	12 Month Average
1	R-1	3,665	3,392	3,368	3,397	3,523	3,593	3,463	3,530	3,502	3,368	3,318	3,623	3,479
2	R-3	77,739	71,346	71,242	71,330	74,030	74,738	73,127	74,866	72,418	71,237	70,735	77,452	73,355
3	R-4	5,974	6,118	6,221	6,463	6,612	5,983	5,630	5,700	5,442	5,167	5,067	5,769	5,846
4	R-5	74	61	66	69	68	68	76	69	68	73	71	75	70
5	R-6	219	188	189	202	218	232	247	260	255	265	273	283	236
6	R-7	2	2	7	3	3	3	3	4	4	4	4	6	4
7	Total Residential	87,673	81,106	81,094	81,465	84,453	84,617	82,547	84,428	81,689	80,115	79,468	87,207	82,988
8														
9	G-41	10,049	9,080	9,327	9,615	9,351	9,560	9,437	9,182	8,754	8,872	8,656	9,933	9,318
10	G-42	1,485	1,350	1,376	1,414	1,394	1,424	1,421	1,455	1,393	1,397	1,351	1,494	1,413
11	G-43	61	59	55	58	57	57	58	57	59	57	57	59	58
12	G-44	1	2	2	2	2	2	2	2	3	3	4	4	2
13	G-45	8	4	4	4	4	4	4	4	6	7	7	7	5
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	1,390	1,280	1,271	1,284	1,316	1,336	1,309	1,346	1,330	1,265	1,257	1,394	1,315
16	G-52	404	364	373	389	382	401	399	402	387	391	370	429	391
17	G-53	38	36	34	36	34	36	36	33	31	33	33	35	35
18	G-54	29	27	27	29	28	27	27	26	25	24	25	29	27
19	G-55	3	4	2	3	3	3	3	3	3	3	3	3	3
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	1	1	1	1	1	1	1	1	1	1	1	1	1
23	Total C/I	13,468	12,206	12,474	12,835	12,573	12,850	12,696	12,512	11,992	12,053	11,764	13,388	12,567
24														
25	Total	101,141	93,312	93,568	94,300	97,026	97,467	95,244	96,940	93,681	92,167	91,231	100,595	95,556

Calculated

	Calendarization Adjustment - Bills	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	12 Month Average
26	R-1	(109)	(184)	185	38	27	(161)	69	10	(75)	168	111	(76)	0
27	R-3	(3,172)	(3,841)	3,616	1,040	579	(2,689)	1,254	(483)	(183)	3,788	2,237	(1,442)	59
28	R-4	232	(521)	(52)	(588)	(657)	(303)	80	(130)	(133)	495	812	105	(55)
29	R-5	(36)	(18)	(19)	(16)	(13)	(4)	(10)	(8)	(1)	(6)	(1)	(5)	(11)
30	R-6	(133)	(93)	(89)	(78)	(72)	(52)	(56)	(82)	(53)	(54)	(40)	(46)	(71)
31	R-7	(1)	(1)	(6)	(1)	(0)	0	(0)	(1)	(1)	(1)	(1)	(3)	(1)
32	Total Residential	(3,219)	(4,658)	3,635	396	(135)	(3,210)	1,335	(693)	(445)	4,390	3,117	(1,467)	(79)
33														
34	G-41	(328)	(270)	431	(220)	183	(515)	(230)	(36)	111	538	760	(90)	28
35	G-42	(47)	(50)	63	(32)	30	(53)	17	(3)	9	64	76	(17)	5
36	G-43	(1)	(6)	3	(4)	(2)	(5)	(5)	(8)	(11)	(7)	(8)	(6)	(5)
37	G-44	0	(0)	(0)	0	(0)	(0)	0	1	(0)	1	0	(0)	0
38	G-45	(3)	(1)	0	0	0	(0)	0	2	1	1	0	0	0
39	G-46	0	1	2	3	4	5	6	7	8	9	10	11	6
40	G-51	(51)	(71)	66	7	11	(52)	34	8	(27)	85	51	(47)	1
41	G-52	(14)	(11)	19	(8)	15	(16)	2	4	5	18	31	(12)	3
42	G-53	(0)	(2)	1	(1)	2	(1)	(2)	(0)	2	1	0	(1)	(0)
43	G-54	(1)	(1)	1	(2)	0	0	0	0	0	2	0	(2)	(0)
44	G-55	0	(1)	1	0	(0)	0	0	(0)	(0)	0	0	0	0
45	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
46	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
47	G-58	0	(0)	0	0	(0)	0	0	(0)	(0)	0	0	(0)	(0)
48	Total C/I	(444)	(412)	589	(256)	242	(636)	(177)	(26)	99	711	921	(165)	37
49														
50	Total	(3,663)	(5,070)	4,223	139	107	(3,846)	1,158	(720)	(347)	5,102	4,039	(1,631)	(42)

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	Calendar Month - Bills	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	12 Month Average
1	R-1	3,556	3,208	3,554	3,435	3,550	3,433	3,532	3,541	3,426	3,536	3,429	3,548	3,479
2	R-3	74,568	67,504	74,858	72,371	74,609	72,049	74,381	74,383	72,235	75,025	72,971	76,009	73,414
3	R-4	6,206	5,597	6,169	5,875	5,955	5,680	5,709	5,570	5,309	5,662	5,879	5,874	5,791
4	R-5	37	43	47	53	55	63	66	60	67	67	70	70	58
5	R-6	86	94	100	125	146	180	191	178	202	212	233	237	165
6	R-7	1	1	1	2	3	3	3	3	3	3	3	3	2
7	Total Residential	84,454	76,448	84,729	81,860	84,318	81,407	83,883	83,735	81,244	84,505	82,585	85,741	82,909
8														
9	G-41	9,722	8,810	9,759	9,395	9,534	9,045	9,208	9,146	8,865	9,410	9,417	9,843	9,346
10	G-42	1,438	1,300	1,439	1,383	1,423	1,371	1,437	1,451	1,402	1,461	1,428	1,477	1,418
11	G-43	60	53	58	54	55	52	53	49	48	50	48	53	53
12	G-44	1	2	2	2	2	2	2	3	3	4	4	4	3
13	G-45	4	4	4	4	4	4	4	6	7	7	7	7	5
14	G-46	0	1	2	3	4	5	6	7	8	9	10	11	6
15	G-51	1,339	1,208	1,338	1,291	1,327	1,284	1,342	1,354	1,303	1,350	1,308	1,347	1,316
16	G-52	390	352	392	381	397	385	401	406	392	409	401	417	394
17	G-53	37	34	35	34	36	35	34	33	33	34	33	34	34
18	G-54	28	26	29	27	28	27	27	26	25	26	25	27	27
19	G-55	3	3	3	3	3	3	3	3	3	3	3	3	3
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	1	1	1	1	1	1	1	1	1	1	1	1	1
23	Total C/I	13,024	11,794	13,063	12,579	12,815	12,214	12,519	12,485	12,091	12,764	12,685	13,223	12,605
24														
25	Total	97,478	88,242	97,791	94,439	97,133	93,621	96,402	96,220	93,334	97,269	95,270	98,964	95,514

Calculated

							Per Books Data							

	Actual - Therms billed	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	88,312	89,781	85,523	75,772	61,312	51,500	39,994	32,680	34,468	38,518	50,194	78,635	726,689
2	R-3	9,524,781	10,512,561	9,418,226	6,541,933	3,756,481	2,077,526	1,185,648	1,009,296	1,043,918	1,535,728	3,547,745	8,051,572	58,205,415
3	R-4	685,665	832,335	791,552	616,505	385,336	169,582	92,841	79,605	79,388	108,054	236,269	558,158	4,635,290
4	R-5	2,459	2,208	2,403	1,506	924	499	454	357	435	696	1,402	2,135	15,478
5	R-6	25,681	25,315	22,848	15,536	9,324	4,598	2,805	2,621	2,751	5,372	15,491	27,991	160,333
6	R-7	182	169	461	158	88	30	26	20	20	52	190	407	1,803
7	Total Residential	10,327,081	11,462,368	10,321,013	7,251,410	4,213,465	2,303,735	1,321,768	1,124,578	1,160,980	1,688,420	3,851,290	8,718,899	63,745,008
8														
9	G-41	4,321,413	4,808,165	4,439,730	3,005,894	1,489,238	701,903	306,229	227,646	250,812	442,272	1,230,906	3,393,209	24,617,416
10	G-42	5,585,268	6,067,067	5,658,958	4,176,998	2,326,679	1,242,218	624,361	557,180	562,741	937,089	2,037,124	4,715,295	34,490,978
11	G-43	1,545,052	1,835,644	1,589,381	1,418,349	888,296	588,694	366,070	349,197	236,954	371,997	654,147	1,254,271	11,098,051
12	G-44	508	896	844	536	285	147	71	64	73	138	731	2,353	6,646
13	G-45	18,414	17,636	15,951	11,831	6,553	5,647	1,015	430	989	3,951	10,997	23,427	116,841
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	457,491	483,241	469,505	380,588	333,668	301,708	249,851	237,833	264,277	259,397	291,596	412,872	4,142,026
16	G-52	1,058,630	1,094,095	1,050,193	906,153	756,556	652,598	579,058	567,763	552,389	629,622	713,520	1,048,628	9,609,204
17	G-53	1,073,624	1,230,849	1,084,725	1,063,450	838,251	776,896	696,615	680,191	697,014	642,704	834,275	943,097	10,561,692
18	G-54	1,341,350	1,310,289	1,231,408	1,204,395	1,373,982	1,643,240	1,676,270	1,797,269	1,703,235	1,790,770	1,737,115	1,558,296	18,367,621
19	G-55	527	1,081	308	546	313	189	66	9	62	54	102	437	3,694
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	3,712	3,510	225,768	59,302	63,292	42,032	33,380	35,064	33,476	37,076	41,460	(264,976)	313,096
23	Total C/I	15,405,988	16,852,474	15,766,771	12,228,043	8,077,112	5,955,271	4,532,987	4,452,647	4,302,022	5,115,070	7,551,973	13,086,909	113,327,267
24														
25	Total	25,733,069	28,314,842	26,087,784	19,479,453	12,290,577	8,259,006	5,854,755	5,577,225	5,463,002	6,803,491	11,403,263	21,805,807	177,072,274

							Calculated							

	Calendarization Adjustment - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	9,958	(7,303)	(4,350)	(13,203)	(9,906)	(12,296)	(7,286)	882	1,728	8,794	24,162	12,137	3,318
27	R-3	1,522,834	(1,343,711)	(1,580,319)	(2,186,158)	(1,287,679)	(792,003)	(190,491)	4,082	232,846	1,348,445	3,499,823	1,194,260	421,929
28	R-4	200,247	(104,755)	(163,280)	(267,490)	(189,938)	(64,975)	(13,891)	(1,388)	14,249	104,474	311,375	132,777	(42,595)
29	R-5	(41)	(42)	(426)	(251)	(122)	(22)	(43)	44	102	310	387	179	75
30	R-6	(910)	(2,586)	(2,520)	(3,429)	(2,251)	(1,301)	(187)	76	1,202	5,277	7,853	3,652	4,875
31	R-7	54	50	(256)	(26)	(14)	(1)	(3)	1	11	64	96	(12)	(36)
32	Total Residential	1,732,142	(1,458,348)	(1,751,152)	(2,470,557)	(1,489,910)	(870,598)	(211,901)	3,698	250,139	1,467,364	3,843,697	1,342,993	387,568
33														
34	G-41	850,199	(528,708)	(908,597)	(1,240,113)	(624,354)	(350,140)	(70,888)	13,668	101,600	573,514	1,773,265	760,097	349,541
35	G-42	945,150	(591,295)	(933,440)	(1,504,456)	(844,640)	(548,662)	(122,550)	(22,365)	205,268	821,625	2,234,622	879,929	519,186
36	G-43	360,784	(274,603)	(154,856)	(518,383)	(284,382)	(248,693)	(85,583)	(50,821)	104,052	263,401	654,816	419,835	185,567
37	G-44	327	(125)	(273)	(259)	(132)	(75)	(8)	14	97	984	1,719	1,186	3,455
38	G-45	(1,348)	(2,627)	(4,023)	(5,492)	(1,410)	(4,662)	(592)	840	4,116	9,457	13,520	8,871	16,648
39	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
40	G-51	55,874	(46,347)	(46,840)	(48,737)	(35,545)	(52,574)	(17,998)	20,643	(10,121)	26,463	99,278	43,345	(12,560)
41	G-52	109,065	(106,065)	(74,944)	(134,474)	(98,798)	(100,264)	(37,293)	13,245	36,868	72,598	244,491	31,297	(44,275)
42	G-53	263,510	(164,958)	(46,518)	(237,172)	(61,818)	(113,387)	(33,526)	17,452	(49,101)	140,101	121,934	124,699	(38,785)
43	G-54	(13,916)	(103,975)	(45,526)	104,700	265,578	25,612	93,758	(30,816)	(77,469)	(125,402)	(192,277)	(264,906)	(364,639)
44	G-55	94	(504)	196	(283)	(142)	(131)	(54)	48	(3)	103	319	188	(169)
45	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
46	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
47	G-58	15,303	30,469	(194,173)	(29,922)	(41,826)	(24,849)	(16,412)	(18,082)	(13,403)	(14,515)	(18,009)	291,075	(34,342)
48	Total C/I	2,585,043	(1,788,738)	(2,408,995)	(3,614,593)	(1,727,469)	(1,417,826)	(291,147)	(56,174)	301,904	1,768,328	4,933,677	2,295,616	579,626
49														
50	Total	4,317,184	(3,247,086)	(4,160,147)	(6,085,150)	(3,217,379)	(2,288,424)	(503,048)	(52,476)	552,043	3,235,692	8,777,374	3,638,609	967,194

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	Calculated												
Calendar Month - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1 R-1	98,270	82,477	81,173	62,569	51,406	39,204	32,708	33,562	36,196	47,312	74,356	90,773	730,007
2 R-3	11,047,615	9,168,849	7,837,906	4,355,776	2,468,802	1,285,524	995,157	1,013,378	1,276,765	2,884,173	7,047,568	9,245,832	58,627,344
3 R-4	885,912	727,579	628,272	349,015	195,398	104,607	78,949	78,217	93,638	212,528	547,644	690,935	4,592,696
4 R-5	2,418	2,166	1,977	1,255	802	477	411	401	537	1,006	1,789	2,314	15,553
5 R-6	24,771	22,729	20,328	12,107	7,073	3,298	2,618	2,697	3,953	10,649	23,344	31,643	165,208
6 R-7	236	219	205	132	74	29	23	21	31	116	286	395	1,767
7 Total Residential	12,059,223	10,004,020	8,569,861	4,780,853	2,723,555	1,433,138	1,109,867	1,128,276	1,411,120	3,155,784	7,694,988	10,061,892	64,132,575
8													
9 G-41	5,171,612	4,279,458	3,531,133	1,765,781	864,883	351,762	235,341	241,313	352,412	1,015,786	3,004,170	4,153,306	24,966,957
10 G-42	6,530,418	5,475,772	4,725,518	2,672,542	1,482,039	693,556	501,810	534,815	768,009	1,758,714	4,271,746	5,595,225	35,010,164
11 G-43	1,905,835	1,561,041	1,434,525	899,966	603,914	340,002	280,487	298,376	341,006	635,398	1,308,963	1,674,106	11,283,618
12 G-44	835	771	571	277	153	72	63	78	170	1,122	2,450	3,539	10,101
13 G-45	17,066	15,009	11,928	6,338	5,143	985	423	1,270	5,105	13,408	24,517	32,298	133,489
14 G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15 G-51	513,365	436,895	422,665	331,851	298,122	249,134	231,853	258,476	254,156	285,859	390,874	456,217	4,129,466
16 G-52	1,167,695	988,029	975,249	771,679	657,758	552,333	541,766	581,009	589,257	702,220	958,011	1,079,925	9,564,929
17 G-53	1,337,134	1,065,891	1,038,207	826,277	776,434	663,509	663,090	697,644	647,913	782,805	956,209	1,067,796	10,522,907
18 G-54	1,327,434	1,206,315	1,185,882	1,309,095	1,639,560	1,668,852	1,770,028	1,766,454	1,625,368	1,665,368	1,544,839	1,293,390	18,002,982
19 G-55	621	577	504	263	172	58	12	57	59	157	421	625	3,525
20 G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21 G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22 G-58	19,016	33,980	31,595	29,380	21,467	17,183	16,968	16,982	20,073	22,561	23,451	26,099	278,754
23 Total C/I	17,991,031	15,063,736	13,357,776	8,613,449	6,349,644	4,537,445	4,241,840	4,396,473	4,603,926	6,883,398	12,485,650	15,382,524	113,906,893
24													
25 Total	30,050,254	25,067,756	21,927,637	13,394,303	9,073,199	5,970,583	5,351,707	5,524,748	6,015,045	10,039,183	20,180,637	25,444,416	178,039,468

	Calculated											
Headblock Volume Ratio	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
26 R-1	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
27 R-3	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
28 R-4	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
29 R-5	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
30 R-6	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
31 R-7	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
32												
33												
34 G-41	17.9209%	18.4060%	23.0291%	32.5220%	22.5306%	21.1314%	23.9874%	24.2645%	21.2121%	20.5934%	24.3859%	21.4869%
35 G-42	22.6230%	23.0003%	29.0478%	42.0030%	38.7080%	44.4681%	49.7484%	50.1757%	42.5889%	34.4643%	31.3654%	26.7830%
36 G-43	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
37 G-44	17.3965%	22.3132%	29.6302%	45.5067%	22.4305%	34.6539%	40.8031%	34.6452%	27.6321%	10.7583%	13.0449%	10.7310%
38 G-45	24.2196%	24.8747%	34.2544%	53.1992%	35.5228%	90.8021%	100.0000%	88.5062%	46.8697%	26.0474%	26.8946%	22.3958%
39 G-46	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
40 G-51	19.3205%	19.3886%	21.7864%	25.8571%	28.3600%	31.4939%	34.1718%	31.7658%	31.1330%	28.7791%	23.3782%	21.0834%
41 G-52	34.0257%	34.1604%	38.1347%	45.5222%	52.1518%	57.6418%	59.9423%	58.6653%	55.3881%	49.5502%	40.5518%	37.6578%
42 G-53	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
43 G-54	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
44 G-55	19.7069%	18.7331%	22.4107%	44.7078%	66.1722%	100.0000%	100.0000%	100.0000%	100.0000%	65.5208%	26.9961%	18.8713%
45 G-56	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
46 G-57	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
47 G-58	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%

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	Calendar Month Headblock - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
							Calculated							
1	R-1	98,270	82,477	81,173	62,569	51,406	39,204	32,708	33,562	36,196	47,312	74,356	90,773	730,007
2	R-3	11,047,615	9,168,849	7,837,906	4,355,776	2,468,802	1,285,524	995,157	1,013,378	1,276,765	2,884,173	7,047,568	9,245,832	58,627,344
3	R-4	885,912	727,579	628,272	349,015	195,398	104,607	78,949	78,217	93,638	212,528	547,644	690,935	4,592,696
4	R-5	2,418	2,166	1,977	1,255	802	477	411	401	537	1,006	1,789	2,314	15,553
5	R-6	24,771	22,729	20,328	12,107	7,073	3,298	2,618	2,697	3,953	10,649	23,344	31,643	165,208
6	R-7	236	219	205	132	74	29	23	21	31	116	286	395	1,767
7	Total Residential	12,059,223	10,004,020	8,569,861	4,780,853	2,723,555	1,433,138	1,109,867	1,128,276	1,411,120	3,155,784	7,694,988	10,061,892	64,132,575
8														
9	G-41	926,798	787,677	813,189	574,268	194,863	74,332	56,452	58,553	74,754	209,185	732,595	892,418	5,395,085
10	G-42	1,477,379	1,259,445	1,372,659	1,122,549	573,668	308,411	249,643	268,347	327,086	606,128	1,339,850	1,498,571	10,403,735
11	G-43	1,905,835	1,561,041	1,434,525	899,966	603,914	340,002	280,487	298,376	341,006	635,398	1,308,963	1,674,106	11,283,618
12	G-44	145	172	169	126	34	25	26	27	47	121	320	380	1,591
13	G-45	4,133	3,733	4,086	3,372	1,827	895	423	1,124	2,393	3,492	6,594	7,233	39,305
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	99,185	84,708	92,083	85,807	84,547	78,462	79,228	82,107	79,126	82,608	91,379	96,186	1,035,087
16	G-52	397,316	337,514	371,909	351,285	343,033	318,375	324,747	340,851	326,378	347,952	388,491	406,675	4,254,525
17	G-53	1,337,134	1,065,891	1,038,207	826,277	776,434	663,509	663,090	697,644	647,913	782,805	956,209	1,067,796	10,522,907
18	G-54	1,327,434	1,206,315	1,185,942	1,309,095	1,639,560	1,668,852	1,770,028	1,766,454	1,625,766	1,665,368	1,544,839	1,293,390	18,002,982
19	G-55	122	108	113	118	113	58	12	57	59	103	114	118	1,095
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	19,016	33,980	31,595	29,380	21,467	17,183	16,968	16,982	20,073	22,561	23,451	26,099	278,754
23	Total C/I	7,494,497	6,340,583	6,344,417	5,202,243	4,239,460	3,470,103	3,441,103	3,530,521	3,444,602	4,355,381	6,392,803	6,962,972	61,218,685
24														
25	Total	19,553,720	16,344,603	14,914,278	9,983,096	6,963,015	4,903,240	4,550,970	4,658,797	4,855,722	7,511,165	14,087,791	17,024,864	125,351,260

	Calendar Month Tailblock - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
							Calculated							
26	R-1	0	0	0	0	0	0	0	0	0	0	0	0	0
27	R-3	0	0	0	0	0	0	0	0	0	0	0	0	0
28	R-4	0	0	0	0	0	0	0	0	0	0	0	0	0
29	R-5	0	0	0	0	0	0	0	0	0	0	0	0	0
30	R-6	0	0	0	0	0	0	0	0	0	0	0	0	0
31	R-7	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Total Residential	0	0	0	0	0	0	0	0	0	0	0	0	0
33														
34	G-41	4,244,814	3,491,781	2,717,944	1,191,513	670,020	277,430	178,889	182,760	277,658	806,601	2,271,576	3,260,888	19,571,872
35	G-42	5,053,039	4,216,328	3,352,860	1,549,993	908,371	385,145	252,168	266,468	440,923	1,152,586	2,931,895	4,096,654	24,606,429
36	G-43	0	0	0	0	0	0	0	0	0	0	0	0	0
37	G-44	690	599	402	151	119	47	37	51	123	1,001	2,130	3,159	8,509
38	G-45	12,933	11,275	7,842	2,966	3,316	91	0	146	2,712	9,915	17,923	25,064	94,184
39	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
40	G-51	414,181	352,187	330,581	246,044	213,575	170,672	152,624	176,369	175,029	203,592	299,494	360,031	3,094,379
41	G-52	770,379	650,515	603,340	420,394	314,725	233,958	217,019	240,158	262,879	354,268	569,520	673,249	5,310,405
42	G-53	0	0	0	0	0	0	0	0	0	0	0	0	0
43	G-54	0	0	0	0	0	0	0	0	0	0	0	0	0
44	G-55	499	469	391	145	58	0	0	0	0	54	307	507	2,430
45	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
46	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
47	G-58	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Total C/I	10,496,533	8,723,153	7,013,360	3,411,207	2,110,184	1,067,343	800,737	865,952	1,159,324	2,528,018	6,092,847	8,419,552	52,688,208
49														
50	Total	10,496,533	8,723,153	7,013,360	3,411,207	2,110,184	1,067,343	800,737	865,952	1,159,324	2,528,018	6,092,847	8,419,552	52,688,208

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							Calculated							

Weather Normalization Headblock Adj- Therms

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	(1,310)	1,287	404	1,606	0	0	0	0	0	0	(7,072)	156	(4,929)
2	R-3	(194,464)	193,820	55,053	169,953	0	0	0	0	0	0	(970,225)	21,387	(724,476)
3	R-4	(15,463)	15,226	4,368	13,433	0	0	0	0	0	0	(74,415)	1,582	(55,270)
4	R-5	0	0	0	0	0	0	0	0	0	0	0	0	0
5	R-6	0	0	0	0	0	0	0	0	0	0	0	0	0
6	R-7	0	0	0	0	0	0	0	0	0	0	0	0	0
7	Total Residential	(211,237)	210,332	59,824	184,992	0	0	0	0	0	0	(1,051,712)	23,124	(784,675)
8														
9	G-41	0	0	0	0	0	0	0	0	0	0	0	0	0
10	G-42	0	0	0	0	0	0	0	0	0	0	0	0	0
11	G-43	(31,229)	30,422	9,198	31,279	0	0	0	0	0	0	(163,763)	3,545	(120,548)
12	G-44	0	0	0	0	0	0	0	0	0	0	0	0	0
13	G-45	0	0	0	0	0	0	0	0	0	0	0	0	0
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	0	0	0	0	0	0	0	0	0	0	0	0	0
16	G-52	0	0	0	0	0	0	0	0	0	0	0	0	0
17	G-53	(13,192)	11,116	3,346	11,001	0	0	0	0	0	0	(59,922)	1,213	(46,438)
18	G-54	0	0	0	0	0	0	0	0	0	0	0	0	0
19	G-55	0	0	0	0	0	0	0	0	0	0	0	0	0
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	0	0	0	0	0	0	0	0	0	0	0	0	0
23	Total C/I	(44,421)	41,538	12,544	42,281	0	0	0	0	0	0	(223,685)	4,758	(166,986)
24														
25	Total	(255,657)	251,870	72,368	227,273	0	0	0	0	0	0	(1,275,397)	27,883	(951,661)

							Calculated							

Weather Normalization Tailblock Adj - Therms

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	0	0	0	0	0	0	0	0	0	0	0	0	0
27	R-3	0	0	0	0	0	0	0	0	0	0	0	0	0
28	R-4	0	0	0	0	0	0	0	0	0	0	0	0	0
29	R-5	0	0	0	0	0	0	0	0	0	0	0	0	0
30	R-6	0	0	0	0	0	0	0	0	0	0	0	0	0
31	R-7	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Total Residential	0	0	0	0	0	0	0	0	0	0	0	0	0
33														
34	G-41	(95,028)	94,809	26,347	76,233	0	0	0	0	0	0	(440,226)	10,110	(327,756)
35	G-42	(116,437)	117,510	33,900	109,203	0	0	0	0	0	0	(602,500)	13,200	(445,124)
36	G-43	0	0	0	0	0	0	0	0	0	0	0	0	0
37	G-44	0	0	0	0	0	0	0	0	0	0	0	0	0
38	G-45	0	0	0	0	0	0	0	0	0	0	0	0	0
39	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
40	G-51	(5,339)	5,220	1,493	5,162	0	0	0	0	0	0	(25,364)	565	(18,262)
41	G-52	(11,886)	11,450	3,378	11,608	0	0	0	0	0	0	(62,273)	1,270	(46,454)
42	G-53	0	0	0	0	0	0	0	0	0	0	0	0	0
43	G-54	0	0	0	0	0	0	0	0	0	0	0	0	0
44	G-55	0	0	0	0	0	0	0	0	0	0	0	0	0
45	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
46	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
47	G-58	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Total C/I	(228,691)	228,990	65,118	202,205	0	0	0	0	0	0	(1,130,363)	25,144	(837,596)
49														
50	Total	(228,691)	228,990	65,118	202,205	0	0	0	0	0	0	(1,130,363)	25,144	(837,596)

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	Calendar Month Weather Normal Headblock - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	96,960	83,764	81,577	64,175	51,406	39,204	32,708	33,562	36,196	47,312	67,285	90,929	725,078
2	R-3	10,853,151	9,362,669	7,892,959	4,525,729	2,468,802	1,285,524	995,157	1,013,378	1,276,765	2,884,173	6,077,343	9,267,219	57,902,868
3	R-4	870,449	742,805	632,640	362,448	195,398	104,607	78,949	78,217	93,638	212,528	473,230	692,517	4,537,425
4	R-5	2,418	2,166	1,977	1,255	802	477	411	401	537	1,006	1,789	2,314	15,553
5	R-6	24,771	22,729	20,328	12,107	7,073	3,298	2,618	2,697	3,953	10,649	23,344	31,643	165,208
6	R-7	236	219	205	132	74	29	23	21	31	116	286	395	1,767
7	Total Residential	11,847,986	10,214,353	8,629,685	4,965,845	2,723,555	1,433,138	1,109,867	1,128,276	1,411,120	3,155,784	6,643,276	10,085,016	63,347,900
8														
9	G-41	926,798	787,677	813,189	574,268	194,863	74,332	56,452	58,553	74,754	209,185	732,595	892,418	5,395,085
10	G-42	1,477,379	1,259,445	1,372,659	1,122,549	573,668	308,411	249,643	268,347	327,086	606,128	1,339,850	1,498,571	10,403,735
11	G-43	1,874,607	1,591,462	1,443,723	931,245	603,914	340,002	280,487	298,376	341,006	635,398	1,145,200	1,677,651	11,163,070
12	G-44	145	172	169	126	34	25	26	27	47	121	320	380	1,591
13	G-45	4,133	3,733	4,086	3,372	1,827	895	423	1,124	2,393	3,492	6,594	7,233	39,305
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	99,185	84,708	92,083	85,807	84,547	78,228	79,228	82,107	79,126	82,868	91,379	96,186	1,035,087
16	G-52	397,316	337,514	371,909	351,285	343,033	318,375	324,747	340,851	326,378	347,952	388,491	406,675	4,254,525
17	G-53	1,323,942	1,077,007	1,041,553	837,279	776,434	663,509	663,090	697,644	647,913	782,805	896,286	1,069,009	10,476,470
18	G-54	1,327,434	1,206,315	1,185,882	1,309,095	1,639,560	1,668,852	1,770,028	1,766,454	1,625,766	1,665,368	1,544,839	1,293,390	18,002,982
19	G-55	122	108	113	118	113	58	12	57	59	103	114	118	1,095
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	19,016	33,980	31,595	29,380	21,467	17,183	16,968	16,982	20,073	22,561	23,451	26,099	278,754
23	Total C/I	7,450,076	6,382,121	6,356,960	5,244,523	4,239,460	3,470,103	3,441,103	3,530,521	3,444,602	4,355,381	6,169,118	6,967,730	61,051,699
24														
25	Total	19,298,063	16,596,473	14,986,646	10,210,369	6,963,015	4,903,240	4,550,970	4,658,797	4,855,722	7,511,165	12,812,394	17,052,746	124,399,599

	Calendar Month Weather Normal Tailblock - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	0	0	0	0	0	0	0	0	0	0	0	0	0
27	R-3	0	0	0	0	0	0	0	0	0	0	0	0	0
28	R-4	0	0	0	0	0	0	0	0	0	0	0	0	0
29	R-5	0	0	0	0	0	0	0	0	0	0	0	0	0
30	R-6	0	0	0	0	0	0	0	0	0	0	0	0	0
31	R-7	0	0	0	0	0	0	0	0	0	0	0	0	0
32	Total Residential	0	0	0	0	0	0	0	0	0	0	0	0	0
33														
34	G-41	4,149,785	3,586,590	2,744,290	1,267,746	670,020	277,430	178,889	182,760	277,658	806,601	1,831,350	3,270,998	19,244,116
35	G-42	4,936,602	4,333,838	3,386,760	1,659,195	908,371	385,145	252,168	266,468	440,923	1,152,586	2,329,396	4,109,853	24,161,305
36	G-43	0	0	0	0	0	0	0	0	0	0	0	0	0
37	G-44	690	599	402	151	119	47	37	51	123	1,001	2,130	3,159	8,509
38	G-45	12,933	11,275	7,842	2,966	3,316	91	0	146	2,712	9,915	17,923	25,064	94,184
39	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
40	G-51	408,842	357,407	332,075	251,206	213,575	170,672	152,624	176,369	175,029	203,592	274,130	360,595	3,076,117
41	G-52	758,492	661,965	606,718	432,002	314,725	233,958	217,019	240,158	262,879	354,268	507,247	674,519	5,263,951
42	G-53	0	0	0	0	0	0	0	0	0	0	0	0	0
43	G-54	0	0	0	0	0	0	0	0	0	0	0	0	0
44	G-55	499	469	391	145	58	0	0	0	0	54	307	507	2,430
45	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
46	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
47	G-58	0	0	0	0	0	0	0	0	0	0	0	0	0
48	Total C/I	10,267,843	8,952,143	7,078,478	3,613,412	2,110,184	1,067,343	800,737	865,952	1,159,324	2,528,018	4,962,484	8,444,696	51,850,612
49														
50	Total	10,267,843	8,952,143	7,078,478	3,613,412	2,110,184	1,067,343	800,737	865,952	1,159,324	2,528,018	4,962,484	8,444,696	51,850,612

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Test Year Ending December 31, 2019
Development of Volumetric Billing Determinants

Docket No. DG 20-105
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	Calendar Month Weather Normal Total - Therms	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	96,960	83,764	81,577	64,175	51,406	39,204	32,708	33,562	36,196	47,312	67,285	90,929	725,078
2	R-3	10,853,151	9,362,669	7,892,959	4,525,729	2,468,802	1,285,524	995,157	1,013,378	1,276,765	2,884,173	6,077,343	9,267,219	57,902,868
3	R-4	870,449	742,805	632,640	362,448	195,398	104,607	78,949	78,217	93,638	212,528	473,230	692,517	4,537,425
4	R-5	2,418	2,166	1,977	1,255	802	477	411	401	537	1,006	1,789	2,314	15,553
5	R-6	24,771	22,729	20,328	12,107	7,073	3,298	2,618	2,697	3,953	10,649	23,344	31,643	165,208
6	R-7	236	219	205	132	74	29	23	21	31	116	286	395	1,767
7	Total Residential	11,847,986	10,214,353	8,629,685	4,965,845	2,723,555	1,433,138	1,109,867	1,128,276	1,411,120	3,155,784	6,643,276	10,085,016	63,347,900
8														
9	G-41	5,076,584	4,374,267	3,557,480	1,842,013	864,883	351,762	235,341	241,313	352,412	1,015,786	2,563,944	4,163,416	24,639,201
10	G-42	6,413,980	5,593,283	4,759,419	2,781,744	1,482,039	693,556	501,810	534,815	768,009	1,758,714	3,669,246	5,608,424	34,565,040
11	G-43	1,874,607	1,591,462	1,443,723	931,245	603,914	340,002	280,487	298,376	341,006	635,398	1,145,200	1,677,651	11,163,070
12	G-44	835	771	571	277	153	72	63	78	170	1,122	2,450	3,539	10,101
13	G-45	17,066	15,009	11,928	6,338	5,143	985	423	1,270	5,105	13,408	24,517	32,298	133,489
14	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0
15	G-51	508,027	442,115	424,158	337,013	298,122	249,134	231,853	258,476	254,156	285,859	365,510	456,781	4,111,204
16	G-52	1,155,808	999,479	978,627	783,287	657,758	552,333	541,766	581,009	589,257	702,220	895,738	1,081,194	9,518,475
17	G-53	1,323,942	1,077,007	1,041,553	837,279	776,434	663,509	663,090	697,644	647,913	782,805	896,286	1,069,009	10,476,470
18	G-54	1,327,434	1,206,315	1,185,882	1,309,095	1,639,560	1,668,852	1,770,028	1,766,454	1,625,766	1,665,368	1,544,839	1,293,390	18,002,982
19	G-55	621	577	504	263	172	58	12	57	59	157	421	625	3,525
20	G-56	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0
22	G-58	19,016	33,980	31,595	29,380	21,467	17,183	16,968	16,982	20,073	22,561	23,451	26,099	278,754
23	Total C/I	17,717,919	15,334,263	13,435,438	8,857,935	6,349,644	4,537,445	4,241,840	4,396,473	4,603,926	6,883,398	11,131,602	15,412,426	112,902,311
24														
25	Total	29,565,905	25,548,616	22,065,123	13,823,781	9,073,199	5,970,583	5,351,707	5,524,748	6,015,045	10,039,183	17,774,877	25,497,443	176,250,211

						Per Books Data							

Actual - Base Revenue (Margin)
w/o Normal Weather Adjustment

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	$88,102	$84,541	$82,588	$79,357	$75,851	$73,241	$67,186	$66,017	$66,273	$65,767	$69,439	$84,840	$903,202
2	R-3	$6,408,219	$6,855,501	$6,251,924	$4,670,732	$3,178,741	$2,265,520	$1,757,764	$1,699,551	$1,681,833	$1,937,904	$3,050,840	$5,661,065	$45,419,593
3	R-4	$186,824	$219,993	$211,632	$174,548	$124,565	$73,282	$54,466	$52,380	$50,774	$55,454	$83,448	$159,434	$1,446,800
4	R-5	$2,632	$2,268	$2,461	$2,078	$1,774	$1,564	$1,724	$1,531	$1,560	$1,775	$2,100	$2,523	$23,991
5	R-6	$22,656	$21,772	$20,028	$15,064	$10,919	$7,817	$6,881	$7,026	$7,028	$9,130	$16,602	$25,851	$170,773
6	R-7	$70	$63	$187	$70	$49	$31	$33	$37	$36	$48	$86	$165	$876
7	Total Residential	$6,708,502	$7,184,137	$6,568,820	$4,941,851	$3,391,897	$2,421,453	$1,888,055	$1,826,543	$1,807,505	$2,070,078	$3,222,515	$5,933,878	$47,965,235
8														
9	G-41	$2,018,048	$2,104,957	$2,006,531	$1,574,033	$1,049,624	$767,206	$632,128	$596,588	$580,228	$651,006	$911,735	$1,737,079	$14,629,163
10	G-42	$1,992,383	$2,086,784	$1,980,377	$1,582,659	$1,017,020	$645,801	$452,462	$437,843	$432,009	$551,672	$898,653	$1,774,036	$13,851,701
11	G-43	$437,697	$510,222	$445,329	$403,689	$259,578	$110,833	$84,132	$82,816	$74,589	$85,658	$124,068	$365,251	$2,983,863
12	G-44	$294	$530	$531	$380	$290	$211	$176	$190	$259	$272	$582	$1,323	$5,038
13	G-45	$9,367	$8,037	$7,299	$5,791	$3,907	$3,290	$1,363	$1,179	$1,835	$3,290	$6,029	$11,278	$62,666
14	G-46	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
15	G-51	$168,535	$166,450	$163,492	$148,156	$141,541	$136,746	$125,887	$126,857	$130,843	$126,111	$131,639	$162,439	$1,728,696
16	G-52	$264,983	$260,610	$256,120	$237,092	$198,080	$157,032	$148,361	$149,222	$144,568	$153,404	$171,040	$270,114	$2,410,626
17	G-53	$205,105	$229,603	$204,554	$202,072	$159,103	$88,359	$82,071	$79,246	$78,852	$76,215	$93,445	$182,777	$1,681,402
18	G-54	$106,050	$102,066	$97,869	$97,225	$105,783	$76,071	$77,412	$81,478	$77,453	$79,866	$78,625	$119,101	$1,098,999
19	G-55	$350	$544	$258	$350	$320	$275	$234	$237	$250	$225	$249	$345	$3,637
20	G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
21	G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
22	G-58	$1,263	$1,311	$17,498	$5,784	$6,207	$2,882	$2,413	$2,611	$2,510	$2,575	$2,804	($15,437)	$32,420
23	Total C/I	$5,204,075	$5,471,113	$5,179,859	$4,257,231	$2,941,453	$1,988,708	$1,606,639	$1,558,267	$1,523,394	$1,730,294	$2,418,871	$4,608,305	$38,488,210
24														
25	Total	$11,912,577	$12,655,251	$11,748,679	$9,199,082	$6,333,351	$4,410,161	$3,494,695	$3,384,810	$3,330,899	$3,800,372	$5,641,386	$10,542,184	$86,453,445

						Calculated							

Calendar Month
Base Revenue Adjustment

		Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	$2,078	($5,495)	$1,159	($4,351)	($3,293)	($7,012)	($1,110)	$518	($478)	$5,907	$10,846	$3,463	$2,231
27	R-3	$789,972	($797,052)	($815,265)	($1,187,209)	($699,752)	($475,999)	($72,796)	($4,405)	$127,340	$808,827	$1,983,200	$643,342	$300,202
28	R-4	$45,417	($26,257)	($36,314)	($62,454)	($45,793)	($16,147)	($2,147)	($1,071)	$2,383	$26,336	$74,313	$30,222	($11,513)
29	R-5	($716)	($358)	($567)	($421)	($310)	($93)	($231)	($157)	$17	$21	$155	($18)	($2,678)
30	R-6	($3,041)	($3,473)	($3,356)	($3,862)	($3,014)	($1,951)	($1,249)	($1,596)	($219)	$2,711	$4,842	$1,679	($12,530)
31	R-7	$7	$8	($120)	($18)	($4)	$1	($2)	($9)	($3)	$9	$22	($27)	($137)
32	Total Residential	$833,716	($832,627)	($854,463)	($1,258,315)	($752,166)	($501,201)	($77,536)	($6,721)	$129,039	$843,811	$2,073,377	$678,660	$275,575
33														
34	G-41	$248,269	($183,851)	($258,282)	($423,279)	($224,274)	($144,526)	($31,597)	$2,635	$40,141	$226,364	$662,673	$242,315	$156,590
35	G-42	$258,934	($180,408)	($242,608)	($456,873)	($289,775)	($182,129)	($33,927)	($5,064)	$65,932	$272,733	$726,645	$252,358	$185,817
36	G-43	$91,641	($73,751)	($37,537)	($135,184)	($149,743)	($33,827)	($12,614)	($12,111)	$837	$25,701	$249,160	$105,270	$17,842
37	G-44	$180	($50)	($118)	($98)	($72)	($33)	$13	$74	$38	$505	$763	$483	$1,686
38	G-45	($1,505)	($1,084)	($1,316)	($2,001)	($831)	($1,906)	($223)	$837	$1,998	$3,816	$5,634	$3,385	$6,803
39	G-46	$0	$932	$1,864	$2,796	$3,728	$4,660	$5,660	$6,604	$7,547	$8,490	$9,434	$10,377	$62,092
40	G-51	$7,409	($12,860)	($4,527)	($8,641)	($6,191)	($13,138)	($540)	$4,263	($3,682)	$9,748	$21,784	$5,444	($931)
41	G-52	$15,335	($19,610)	($7,783)	($24,186)	($42,392)	($15,472)	($2,902)	$2,134	$4,203	$10,929	$80,377	$4,885	$5,518
42	G-53	$43,173	($28,777)	($6,996)	($40,155)	($70,988)	($10,029)	($3,276)	$1,348	($2,294)	$12,003	$91,085	$21,233	$6,328
43	G-54	($1,486)	($6,812)	($1,820)	$5,282	($29,088)	$961	$4,321	($1,039)	($2,506)	($2,926)	$38,553	($16,588)	($13,147)
44	G-55	$36	($192)	$99	($56)	($42)	($37)	($2)	$10	($8)	$52	$84	$44	($12)
45	G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
46	G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
47	G-58	$1,304	$2,402	($13,888)	($2,389)	($4,260)	($1,158)	($646)	($843)	($635)	($556)	$111	$18,603	($1,956)
48	Total C/I	$663,290	($504,062)	($572,910)	($1,084,783)	($813,929)	($396,633)	($75,733)	($1,153)	$111,569	$566,859	$1,886,302	$647,810	$426,628
49														
50	Total	$1,497,007	($1,336,689)	($1,427,373)	($2,343,098)	($1,566,095)	($897,834)	($153,268)	($7,874)	$240,608	$1,410,670	$3,959,679	$1,326,470	$702,203

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Test Year Ending December 31, 2019
Development of Calendar Month Weather Normalized Base Revenues

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	Calendar Month											Calculated		
	Base Revenues (Margin) w/o NWA	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1	R-1	$ 90,179	$ 79,045	$ 83,747	$ 75,006	$ 72,558	$ 66,229	$ 66,076	$ 66,535	$ 65,795	$ 71,674	$ 80,285	$ 88,303	$905,433
2	R-3	$ 7,198,190	$ 6,058,449	$ 5,436,659	$ 3,483,523	$ 2,478,989	$ 1,789,520	$ 1,684,968	$ 1,695,145	$ 1,809,174	$ 2,746,731	$ 5,034,039	$ 6,304,407	$45,719,796
3	R-4	$ 232,241	$ 193,735	$ 175,318	$ 112,094	$ 78,771	$ 57,135	$ 52,319	$ 51,309	$ 53,157	$ 81,790	$ 157,761	$ 189,656	$1,435,286
4	R-5	$ 1,917	$ 1,909	$ 1,893	$ 1,658	$ 1,464	$ 1,471	$ 1,494	$ 1,374	$ 1,577	$ 1,796	$ 2,255	$ 2,505	$21,313
5	R-6	$ 19,615	$ 18,299	$ 16,672	$ 11,202	$ 7,905	$ 5,865	$ 5,632	$ 5,430	$ 6,809	$ 11,841	$ 21,444	$ 27,529	$158,243
6	R-7	$ 77	$ 72	$ 67	$ 53	$ 45	$ 32	$ 31	$ 28	$ 33	$ 57	$ 107	$ 138	$739
7	Total Residential	$7,542,218	$6,351,510	$5,714,357	$3,683,536	$2,639,731	$1,920,253	$1,810,520	$1,819,822	$1,936,544	$2,913,889	$5,295,892	$6,612,539	$48,240,810
8														
9	G-41	$ 2,266,317	$ 1,921,105	$ 1,748,249	$ 1,150,754	$ 825,351	$ 622,680	$ 600,531	$ 599,223	$ 620,369	$ 877,370	$ 1,574,408	$ 1,979,394	$14,785,753
10	G-42	$ 2,251,317	$ 1,906,376	$ 1,737,770	$ 1,125,786	$ 727,244	$ 463,673	$ 418,536	$ 432,779	$ 497,941	$ 824,405	$ 1,625,298	$ 2,026,394	$14,037,517
11	G-43	$ 529,337	$ 436,470	$ 407,792	$ 268,506	$ 109,836	$ 77,006	$ 71,518	$ 70,704	$ 75,425	$ 111,359	$ 373,229	$ 470,521	$3,001,705
12	G-44	$ 474	$ 480	$ 413	$ 282	$ 217	$ 178	$ 189	$ 264	$ 298	$ 777	$ 1,345	$ 1,806	$6,724
13	G-45	$ 7,862	$ 6,953	$ 5,983	$ 3,790	$ 3,076	$ 1,384	$ 1,140	$ 2,015	$ 3,833	$ 7,106	$ 11,663	$ 14,663	$69,469
14	G-46	$ -	$ 932	$ 1,864	$ 2,796	$ 3,728	$ 4,660	$ 5,660	$ 6,604	$ 7,547	$ 8,490	$ 9,434	$ 10,377	$62,092
15	G-51	$ 175,944	$ 153,590	$ 158,965	$ 139,515	$ 135,350	$ 123,608	$ 125,347	$ 131,120	$ 127,160	$ 135,859	$ 153,423	$ 167,883	$1,727,765
16	G-52	$ 280,317	$ 241,000	$ 248,337	$ 212,906	$ 155,688	$ 141,560	$ 145,459	$ 151,356	$ 148,770	$ 164,333	$ 251,417	$ 274,999	$2,416,143
17	G-53	$ 248,279	$ 200,826	$ 197,557	$ 161,917	$ 88,115	$ 78,330	$ 78,795	$ 80,594	$ 76,558	$ 88,218	$ 184,530	$ 204,010	$1,687,729
18	G-54	$ 104,564	$ 95,254	$ 96,049	$ 102,507	$ 76,694	$ 77,033	$ 81,733	$ 80,439	$ 74,947	$ 76,940	$ 117,178	$ 102,513	$1,085,852
19	G-55	$ 386	$ 352	$ 357	$ 294	$ 278	$ 238	$ 231	$ 248	$ 241	$ 277	$ 333	$ 389	$3,626
20	G-56	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$0
21	G-57	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$0
22	G-58	$ 2,568	$ 3,712	$ 3,610	$ 3,395	$ 1,946	$ 1,724	$ 1,767	$ 1,767	$ 1,874	$ 2,018	$ 2,915	$ 3,167	$30,464
23	Total C/I	$5,867,365	$4,967,052	$4,606,949	$3,172,448	$2,127,524	$1,592,075	$1,530,907	$1,557,114	$1,634,963	$2,297,153	$4,305,173	$5,256,115	$38,914,838
24														
25	Total	$13,409,583	$11,318,562	$10,321,306	$6,855,984	$4,767,256	$3,512,327	$3,341,426	$3,376,936	$3,571,508	$5,211,042	$9,601,065	$11,868,654	$87,155,648

	Calendar Month Weather Normal											Calculated		
	Base Revenue Adjustment	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26	R-1	($490)	$481	$151	$601	$0	$0	$0	$0	$0	$0	($2,678)	$59	($1,875)
27	R-3	($106,989)	$106,634	$30,288	$93,504	$0	$0	$0	$0	$0	$0	($540,305)	$11,910	($404,957)
28	R-4	($3,403)	$3,351	$961	$2,956	$0	$0	$0	$0	$0	$0	($16,578)	$352	($12,360)
29	R-5	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
30	R-6	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
31	R-7	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
32	Total Residential	($110,882)	$110,466	$31,401	$97,061	$0	$0	$0	$0	$0	$0	($559,560)	$12,321	($419,193)
33														
34	G-41	($29,144)	$29,076	$8,080	$23,379	$0	$0	$0	$0	$0	$0	($136,658)	$3,138	($102,128)
35	G-42	($32,207)	$32,503	$9,377	$30,205	$0	$0	$0	$0	$0	$0	($168,677)	$3,695	($125,102)
36	G-43	($7,970)	$7,764	$2,347	$7,982	$0	$0	$0	$0	$0	$0	($42,300)	$916	($31,261)
37	G-44	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
38	G-45	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
39	G-46	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
40	G-51	($955)	$934	$267	$923	$0	$0	$0	$0	$0	$0	($4,593)	$102	($3,321)
41	G-52	($1,871)	$1,802	$532	$1,827	$0	$0	$0	$0	$0	$0	($9,921)	$202	($7,429)
42	G-53	($2,179)	$1,836	$553	$1,817	$0	$0	$0	$0	$0	$0	($10,019)	$203	($7,790)
43	G-54	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
44	G-55	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
45	G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
46	G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
47	G-58	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
48	Total C/I	($74,324)	$73,915	$21,156	$66,134	$0	$0	$0	$0	$0	$0	($372,168)	$8,257	($277,030)
49														
50	Total	($185,206)	$184,382	$52,556	$163,195	$0	$0	$0	$0	$0	$0	($931,728)	$20,578	($696,223)

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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Calculated

Calendar Month Weather Normal Base Revenues (Margin)	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1 R-1	$89,689	$79,526	$83,898	$75,607	$72,558	$66,229	$66,076	$66,535	$65,795	$71,674	$77,608	$88,362	$903,558
2 R-3	7,091,202	6,165,084	5,466,948	3,577,027	2,478,989	1,789,520	1,684,968	1,695,145	1,809,174	2,746,731	4,493,734	6,316,317	$45,314,839
3 R-4	228,838	197,086	176,279	115,050	78,771	57,135	52,319	51,309	53,157	81,790	141,183	190,009	$1,422,926
4 R-5	1,917	1,909	1,893	1,658	1,464	1,471	1,494	1,374	1,577	1,796	2,255	2,505	$21,313
5 R-6	19,615	18,299	16,672	11,202	7,905	5,865	5,632	5,430	6,809	11,841	21,444	27,529	$158,243
6 R-7	77	72	67	53	45	32	31	28	33	57	107	138	$739
7 Total Residential	$7,431,337	$6,461,977	$5,745,758	$3,780,596	$2,639,731	$1,920,253	$1,810,520	$1,819,822	$1,936,544	$2,913,889	$4,736,331	$6,624,860	$47,821,617
8													
9 G-41	$2,237,173	1,950,182	1,756,330	1,174,133	825,351	622,680	600,531	599,223	620,369	877,370	1,437,750	1,982,533	$14,683,625
10 G-42	2,219,110	1,938,879	1,747,146	1,155,992	727,244	463,673	418,536	432,779	497,941	824,405	1,456,621	2,030,089	$13,912,415
11 G-43	521,368	444,234	410,140	276,488	109,836	77,006	71,518	70,704	75,425	111,359	330,929	471,437	$2,970,444
12 G-44	474	480	413	282	217	178	189	264	298	777	1,345	1,806	$6,724
13 G-45	7,862	6,953	5,983	3,790	3,076	1,384	1,140	2,015	3,833	7,106	11,663	14,663	$69,469
14 G-46	-	932	1,864	2,796	3,728	4,660	5,660	6,604	7,547	8,490	9,434	10,377	$62,092
15 G-51	174,989	154,524	159,232	140,439	135,350	123,608	125,347	131,120	127,160	135,859	148,830	167,986	$1,724,444
16 G-52	278,447	242,802	248,869	214,733	155,688	141,560	145,459	151,356	148,770	164,333	241,496	275,201	$2,408,715
17 G-53	246,100	202,662	198,110	163,734	88,115	78,330	78,795	80,594	76,558	88,218	174,510	204,212	$1,679,939
18 G-54	104,564	95,254	96,049	102,507	76,694	77,033	81,733	80,439	74,947	76,940	117,178	102,513	$1,085,852
19 G-55	386	352	357	294	278	238	231	248	241	277	333	389	$3,626
20 G-56	-	-	-	-	-	-	-	-	-	-	-	-	$0
21 G-57	-	-	-	-	-	-	-	-	-	-	-	-	$0
22 G-58	2,568	3,712	3,610	3,395	1,946	1,724	1,767	1,767	1,874	2,018	2,915	3,167	$30,464
23 Total C/I	$5,793,041	$5,040,967	$4,628,105	$3,238,583	$2,127,524	$1,592,075	$1,530,907	$1,557,114	$1,634,963	$2,297,153	$3,933,005	$5,264,372	$38,637,808
24													
25 Total	$13,224,378	$11,502,943	$10,373,862	$7,019,179	$4,767,256	$3,512,327	$3,341,426	$3,376,936	$3,571,508	$5,211,042	$8,669,336	$11,889,232	$86,459,425

Calculated

Calendar Month Weather Normal Base Rev Adj at EOY Rates	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26 R-1	$1,084	$961	$1,014	$913	$876	$800	$0	$0	$0	$0	$0	$0	$5,648
27 R-3	$86,381	$75,094	$66,561	$43,504	$30,101	$21,693	$0	$0	$0	$0	$0	$0	$323,333
28 R-4	$2,830	$2,438	$2,184	$1,430	$985	$718	$0	$0	$0	$0	$0	$0	$10,585
29 R-5	$9	$10	$11	$12	$17	$17	$15	$14	$15	$15	$16	$16	$168
30 R-6	$20	$22	$23	$29	$96	$70	$44	$41	$46	$49	$54	$54	$547
31 R-7	$0	$0	$0	$0	$1	$0	$0	$0	$0	$0	$0	$0	$3
32 Total Residential	$90,324	$78,525	$69,792	$45,889	$32,075	$23,298	$60	$55	$62	$64	$70	$71	$340,286
33													
34 G-41	$27,228	$23,733	$21,360	$14,260	$10,008	$7,540	$0	$0	$0	$0	$0	$0	$104,130
35 G-42	$26,958	$23,553	$21,224	$14,042	$8,834	$5,632	$0	$0	$0	$0	$0	$0	$100,243
36 G-43	$6,337	$5,399	$4,985	$3,360	$1,336	$937	$0	$0	$0	$0	$0	$0	$22,355
37 G-44	$1	$2	$2	$2	$3	$2	$0	$0	$0	$0	$0	$0	$11
38 G-45	$11	$10	$11	$11	$37	$17	$0	$0	$0	$0	$0	$0	$96
39 G-46	$0	$11	$23	$34	$45	$57	$0	$0	$0	$0	$0	$0	$170
40 G-51	$2,131	$1,881	$1,938	$1,708	$1,645	$1,502	$0	$0	$0	$0	$0	$0	$10,804
41 G-52	$3,390	$2,956	$3,028	$2,610	$1,884	$1,713	$0	$0	$0	$0	$0	$0	$15,582
42 G-53	$3,054	$2,514	$2,457	$2,030	$1,035	$922	$0	$0	$0	$0	$0	$0	$12,013
43 G-54	$1,281	$1,167	$1,177	$1,256	$896	$899	$0	$0	$0	$0	$0	$0	$6,676
44 G-55	$3	$2	$3	$3	$3	$3	$0	$0	$0	$0	$0	$0	$17
45 G-56	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
46 G-57	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
47 G-58	$12	$11	$12	$12	$23	$20	$0	$0	$0	$0	$0	$0	$90
48 Total C/I	$70,406	$61,242	$56,219	$39,327	$25,750	$19,244	$0	$0	$0	$0	$0	$0	$272,187
49													
50 Total	$160,729	$139,767	$126,011	$85,216	$57,825	$42,542	$60	$55	$62	$64	$70	$71	$612,472

Liberty Utilities (EnergyNorth Natural Gas) Corp.
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Development of Calendar Month Weather Normalized Base Revenues

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		Calculated											
Calendar Month Weather Normal Base Revenues at EOY Rates	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
1 R-1	$ 90,773	$ 80,487	$ 84,912	$ 76,520	$ 73,434	$ 67,029	$ 66,076	$ 66,535	$ 65,795	$ 71,674	$ 77,608	$ 88,362	$909,206
2 R-3	$ 7,177,583	$ 6,240,178	$ 5,533,508	$ 3,620,531	$ 2,509,090	$ 1,811,213	$ 1,684,968	$ 1,695,145	$ 1,809,174	$ 2,746,731	$ 4,493,734	$ 6,316,317	$45,638,172
3 R-4	$ 231,668	$ 199,524	$ 178,463	$ 116,481	$ 79,756	$ 57,853	$ 52,319	$ 51,309	$ 53,157	$ 81,790	$ 141,183	$ 190,009	$1,433,511
4 R-5	$ 1,925	$ 1,919	$ 1,904	$ 1,670	$ 1,481	$ 1,488	$ 1,509	$ 1,388	$ 1,593	$ 1,812	$ 2,272	$ 2,521	$21,481
5 R-6	$ 19,635	$ 18,321	$ 16,695	$ 11,231	$ 8,000	$ 5,936	$ 5,676	$ 5,471	$ 6,855	$ 11,890	$ 21,498	$ 27,584	$158,791
6 R-7	$ 77	$ 72	$ 67	$ 53	$ 45	$ 33	$ 31	$ 28	$ 33	$ 57	$ 107	$ 138	$742
7 Total Residential	$7,521,660	$6,540,502	$5,815,550	$3,826,485	$2,671,807	$1,943,551	$1,810,579	$1,819,877	$1,936,606	$2,913,953	$4,736,401	$6,624,931	$48,161,903
8													
9 G-41	$ 2,264,401	$ 1,973,915	$ 1,777,690	$ 1,188,393	$ 835,359	$ 630,220	$ 600,531	$ 599,223	$ 620,369	$ 877,370	$ 1,437,750	$ 1,982,533	$14,787,756
10 G-42	$ 2,246,068	$ 1,962,433	$ 1,768,370	$ 1,170,033	$ 736,078	$ 469,305	$ 418,536	$ 432,779	$ 497,941	$ 824,405	$ 1,456,621	$ 2,030,089	$14,012,658
11 G-43	$ 527,705	$ 449,633	$ 415,125	$ 279,848	$ 111,172	$ 77,943	$ 71,518	$ 70,704	$ 75,425	$ 111,359	$ 330,929	$ 471,437	$2,992,799
12 G-44	$ 476	$ 482	$ 415	$ 283	$ 220	$ 180	$ 189	$ 264	$ 298	$ 777	$ 1,345	$ 1,806	$6,735
13 G-45	$ 7,873	$ 6,963	$ 5,994	$ 3,801	$ 3,113	$ 1,401	$ 1,140	$ 2,015	$ 3,833	$ 7,106	$ 11,663	$ 14,663	$69,565
14 G-46	$ -	$ 943	$ 1,887	$ 2,830	$ 3,773	$ 4,717	$ 5,660	$ 6,604	$ 7,547	$ 8,490	$ 9,434	$ 10,377	$62,262
15 G-51	$ 177,119	$ 156,405	$ 161,170	$ 142,146	$ 136,995	$ 125,110	$ 125,347	$ 131,120	$ 127,160	$ 135,859	$ 148,830	$ 167,986	$1,735,247
16 G-52	$ 281,837	$ 245,759	$ 251,897	$ 217,343	$ 157,571	$ 143,273	$ 145,459	$ 151,356	$ 148,770	$ 164,333	$ 241,496	$ 275,201	$2,424,297
17 G-53	$ 249,154	$ 205,176	$ 200,567	$ 165,764	$ 89,151	$ 79,252	$ 78,795	$ 80,594	$ 76,558	$ 88,218	$ 174,510	$ 204,212	$1,691,952
18 G-54	$ 105,845	$ 96,421	$ 97,226	$ 103,763	$ 77,590	$ 77,932	$ 81,733	$ 80,439	$ 74,947	$ 76,940	$ 117,178	$ 102,513	$1,092,528
19 G-55	$ 389	$ 355	$ 360	$ 297	$ 282	$ 241	$ 231	$ 248	$ 241	$ 277	$ 333	$ 389	$3,642
20 G-56	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$0
21 G-57	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$0
22 G-58	$ 2,580	$ 3,723	$ 3,622	$ 3,406	$ 1,969	$ 1,744	$ 1,767	$ 1,767	$ 1,874	$ 2,018	$ 2,915	$ 3,167	$30,553
23 Total C/I	$5,863,447	$5,102,208	$4,684,323	$3,277,909	$2,153,274	$1,611,318	$1,530,907	$1,557,114	$1,634,963	$2,297,153	$3,933,005	$5,264,372	$38,909,995
24													
25 Total	$13,385,107	$11,642,710	$10,499,873	$7,104,395	$4,825,081	$3,554,869	$3,341,486	$3,376,991	$3,571,570	$5,211,107	$8,669,406	$11,889,303	$87,071,898

		Calculated											
Calendar Month Weather Normal Low-Inc Discount at EOY Rates	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Total
26 R-4 Cust	6,207	5,598	6,170	5,877	5,958	5,683	5,713	5,573	5,312	5,665	5,882	5,877	69,515
27 R-3 Cust Charge	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	
28 Customer Revenue at R-3 Rate	$94,369	$85,103	$93,802	$89,339	$90,581	$86,391	$86,846	$84,726	$80,763	$86,126	$89,416	$89,350	$1,056,811
29													
30 R-7 Cust	1	1	1	2	3	3	3	3	3	3	3	3	29
31 R-6 Cust Charge	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	$ 19.76	
32 Customer Revenue at R-6 Rate	$20	$20	$20	$36	$59	$61	$61	$55	$61	$59	$61	$59	$575
33 Customer Revenue at R-3/6 Rate	$94,390	$85,124	$93,822	$89,375	$90,640	$86,452	$86,907	$84,781	$80,824	$86,185	$89,477	$89,409	$1,057,386
34													
35 R-4 Volume	870,449	742,805	632,640	362,448	195,398	104,607	78,949	78,217	93,638	212,528	473,230	692,517	4,537,425
36 R-3 Rate	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	$0.5569	
37 Dist Revenue at R-3 Rate	$484,741	$413,658	$352,308	$201,842	$108,814	$58,254	$43,966	$43,558	$52,145	$118,354	$263,535	$385,653	$2,526,829
38													
39 R-7 Volume	236	219	205	132	74	29	23	21	31	116	286	395	1,767
40 R-6 Rate	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	$0.7240	
41 Dist Revenue at R-6 Rate	$171	$159	$149	$96	$53	$21	$17	$15	$22	$84	$207	$286	$1,280
42 Dist Revenue at R-4/6 Rate	$484,912	$413,817	$352,457	$201,938	$108,868	$58,275	$43,983	$43,573	$52,168	$118,438	$263,742	$385,939	$2,528,108
43													
44 Base Revenue at R-3/6 Rate	$579,302	$498,940	$446,278	$291,313	$199,508	$144,727	$130,890	$128,354	$132,992	$204,623	$353,219	$475,348	$3,585,494
45 Base Revenue at R-4/7 Rate	$ 231,745	$ 199,596	$ 178,531	$ 116,533	$ 79,801	$ 57,886	$ 52,350	$ 51,337	$ 53,190	$ 81,847	$ 141,290	$ 190,147	$1,434,253
46 Low-Inc Base Rate Discount Rev	$347,557	$299,344	$267,748	$174,780	$119,707	$86,841	$78,540	$77,017	$79,801	$122,776	$211,929	$285,201	$2,151,241

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Current Base Distribution Rates

Current Base Distribution Rates

Rate			Cur	Prop	Cur COG & LDAC
R1	Customer Charge		$ 15.50	$ 15.98	
	Winter	Charge for 1st Therms	$ 0.3860	$ 0.4078	
	LDAC Charge		$ 0.0310	$ 0.0311	$ 0.03100
	Energy Charge	Charge for Therms over 1st	$ 0.3860	$ 0.4078	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2679	$ 0.2973	$ 0.26790
	Summer	Charge for 1st Therms	$ 0.3860	$ 0.4078	
	LDAC Charge		$ 0.0310	$ 0.0311	$ 0.03100
	Energy Charge	Charge for Therms over 1st	$ 0.3860	$ 0.4078	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3715	$ 0.3740	$ 0.37150
R3	Customer Charge		$ 15.50	$ 15.98	
	Winter	Charge for 1st Therms	$ 0.5678	$ 0.5661	
	LDAC Charge		$ 0.0310	$ 0.0311	$ 0.03100
	Energy Charge	Charge for Therms over 1st	$ 0.5678	$ 0.5661	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2679	$ 0.2973	$ 0.26790
	Summer	Charge for 1st Therms	$ 0.5678	$ 0.5661	
	LDAC Charge		$ 0.0310	$ 0.0311	$ 0.03100
	Energy Charge	Charge for Therms over 1st	$ 0.5678	$ 0.5661	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3715	$ 0.3740	$ 0.37150
R4	Customer Charge		$ 6.20	$ 6.39	
	Winter	Charge for 1st Therms	$ 0.2272	$ 0.2264	
	LDAC Charge		$ 0.0310	$ 0.0311	$ 0.03100
	Energy Charge	Charge for Therms over 1st	$ 0.2272	$ 0.2264	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2679	$ 0.2973	$ 0.26790
	Summer	Charge for 1st Therms	$ 0.2272	$ 0.2264	
	LDAC Charge		$ 0.0310	$ 0.0311	$ 0.03100
	Energy Charge	Charge for Therms over 1st	$ 0.2272	$ 0.2264	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3715	$ 0.3740	$ 0.37150
41	Customer Charge		$ 57.46	$ 59.25	
	Winter	Charge for 1st Therms	$ 0.4711	$ 0.4985	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.3165	$ 0.3348	
	Block Size	Cutoff for First Block	100	100	
	Cost of Gas	Cost of Gas Rate	$ 0.2666	$ 0.2960	$ 0.26660
	Summer	Charge for 1st Therms	$ 0.4711	$ 0.4985	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.3165	$ 0.3348	
	Block Size	Cutoff for First Block	20	20	
	Cost of Gas	Cost of Gas Rate	$ 0.3669	$ 0.3694	$ 0.36690
42	Customer Charge		$ 172.39	$ 177.76	
	Winter	Charge for 1st Therms	$ 0.4284	$ 0.4553	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.2855	$ 0.3034	
	Block Size	Cutoff for First Block	1,000	1,000	
	Cost of Gas	Cost of Gas Rate	$ 0.2666	$ 0.2960	$ 0.26660
	Summer	Charge for 1st Therms	$ 0.4284	$ 0.4553	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.2855	$ 0.3034	
	Block Size	Cutoff for First Block	400	400	
	Cost of Gas	Cost of Gas Rate	$ 0.3669	$ 0.3694	$ 0.36690

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Liberty Utilities (EnergyNorth Natural Gas) Corp.
Current Base Distribution Rates

Current Base Distribution Rates

Rate			Cur	Prop	Cur COG & LDAC
43	Customer Charge		$ 739.83	$ 762.89	
	Winter	Charge for 1st Therms	$ 0.2633	$ 0.2837	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.2633	$ 0.2837	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2666	$ 0.2960	$ 0.26660
	Summer	Charge for 1st Therms	$ 0.1204	$ 0.1297	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.1204	$ 0.1297	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3669	$ 0.3694	$ 0.36690
51	Customer Charge		$ 57.46	$ 59.25	
	Winter	Charge for 1st Therms	$ 0.2839	$ 0.3105	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.1846	$ 0.2019	
	Block Size	Cutoff for First Block	100	100	
	Cost of Gas	Cost of Gas Rate	$ 0.2734	$ 0.3028	$ 0.27340
	Summer	Charge for 1st Therms	$ 0.2839	$ 0.3105	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.1846	$ 0.2019	
	Block Size	Cutoff for First Block	100	100	
	Cost of Gas	Cost of Gas Rate	$ 0.3786	$ 0.3811	$ 0.37860
52	Customer Charge		$ 172.39	$ 177.76	
	Winter	Charge for 1st Therms	$ 0.2439	$ 0.2664	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.1624	$ 0.1774	
	Block Size	Cutoff for First Block	1,000	1,000	
	Cost of Gas	Cost of Gas Rate	$ 0.2734	$ 0.3028	$ 0.27340
	Summer	Charge for 1st Therms	$ 0.1767	$ 0.1930	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.1004	$ 0.1097	
	Block Size	Cutoff for First Block	1,000	1,000	
	Cost of Gas	Cost of Gas Rate	$ 0.3786	$ 0.3811	$ 0.37860
53	Customer Charge		$ 761.39	$ 785.12	
	Winter	Charge for 1st Therms	$ 0.1705	$ 0.1899	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.1705	$ 0.1899	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2734	$ 0.3028	$ 0.27340
	Summer	Charge for 1st Therms	$ 0.0818	$ 0.0911	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.0818	$ 0.0911	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3786	$ 0.3811	$ 0.37860
54	Customer Charge		$ 761.39	$ 785.12	
	Winter	Charge for 1st Therms	$ 0.0650	$ 0.0830	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.0650	$ 0.0830	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2734	$ 0.3028	$ 0.27340
	Summer	Charge for 1st Therms	$ 0.0353	$ 0.0450	
	LDAC Charge		$ 0.0478	$ 0.0479	$ 0.04780
	Energy Charge	Charge for Therms over 1st	$ 0.0353	$ 0.0450	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3786	$ 0.3811	$ 0.37860

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Liberty Utilities (EnergyNorth Natural Gas) Corp.
Current Base Distribution Rates

Current Base Distribution Rates

Rate			Cur	Prop	Cur COG & LDAC
R5	Customer Charge		$ 20.15	$ 20.77	
	Winter	Charge for 1st Therms	$ 0.5018	$ 0.5301	
	LDAC Charge		$ 0.0310	$ 0.0311	
	Energy Charge	Charge for Therms over 1st	$ 0.5018	$ 0.5301	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2679	$ 0.2973	
	Summer	Charge for 1st Therms	$ 0.5018	$ 0.5301	
	LDAC Charge		$ 0.0310	$ 0.0311	
	Energy Charge	Charge for Therms over 1st	$ 0.5018	$ 0.5301	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3715	$ 0.3740	
R6	Customer Charge		$ 20.15	$ 20.77	
	Winter	Charge for 1st Therms	$ 0.7381	$ 0.7359	
	LDAC Charge		$ 0.0310	$ 0.0311	
	Energy Charge	Charge for Therms over 1st	$ 0.7381	$ 0.7359	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2679	$ 0.2973	
	Summer	Charge for 1st Therms	$ 0.7381	$ 0.7359	
	LDAC Charge		$ 0.0310	$ 0.0311	
	Energy Charge	Charge for Therms over 1st	$ 0.7381	$ 0.7359	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3715	$ 0.3740	
R7	Customer Charge		$ 8.06	$ 8.31	
	Winter	Charge for 1st Therms	$ 0.2953	$ 0.2944	
	LDAC Charge		$ 0.0310	$ 0.0311	
	Energy Charge	Charge for Therms over 1st	$ 0.2953	$ 0.2944	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.2679	$ 0.2973	
	Summer	Charge for 1st Therms	$ 0.2953	$ 0.2944	
	LDAC Charge		$ 0.0310	$ 0.0311	
	Energy Charge	Charge for Therms over 1st	$ 0.2953	$ 0.2944	
	Block Size	Cutoff for First Block	-	-	
	Cost of Gas	Cost of Gas Rate	$ 0.3715	$ 0.3740	
44	Customer Charge		$ 74.70	$ 77.03	
	Winter	Charge for 1st Therms	$ 0.6125	$ 0.6480	
	LDAC Charge		$ 0.0478	$ 0.0479	
	Energy Charge	Charge for Therms over 1st	$ 0.4114	$ 0.4353	
	Block Size	Cutoff for First Block	100	100	
	Cost of Gas	Cost of Gas Rate	$ 0.2666	$ 0.2960	
	Summer	Charge for 1st Therms	$ 0.6125	$ 0.6480	
	LDAC Charge		$ 0.0478	$ 0.0479	
	Energy Charge	Charge for Therms over 1st	$ 0.4114	$ 0.4353	
	Block Size	Cutoff for First Block	20	20	
	Cost of Gas	Cost of Gas Rate	$ 0.3669	$ 0.3694	
45	Customer Charge		$ 224.11	$ 231.09	
	Winter	Charge for 1st Therms	$ 0.5569	$ 0.5919	
	LDAC Charge		$ 0.0478	$ 0.0479	
	Energy Charge	Charge for Therms over 1st	$ 0.3711	$ 0.3944	
	Block Size	Cutoff for First Block	1,000	1,000	
	Cost of Gas	Cost of Gas Rate	$ 0.2666	$ 0.2960	
	Summer	Charge for 1st Therms	$ 0.5569	$ 0.5919	
	LDAC Charge		$ 0.0478	$ 0.0479	
	Energy Charge	Charge for Therms over 1st	$ 0.3711	$ 0.3944	
	Block Size	Cutoff for First Block	400	400	
	Cost of Gas	Cost of Gas Rate	$ 0.3669	$ 0.3694	

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Current Base Distribution Rates

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Current Base Distribution Rates

Rate			Cur		Prop		Cur COG & LDAC
46	Customer Charge		$	961.78	$	991.75	
	Winter	Charge for 1st Therms	$	0.3423	$	0.3688	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.3423	$	0.3688	
	Block Size	Cutoff for First Block		-		-	
	Cost of Gas	Cost of Gas Rate	$	0.2666	$	0.2960	
	Summer	Charge for 1st Therms	$	0.1565	$	0.1686	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.1565	$	0.1686	
	Block Size	Cutoff for First Block		-		-	
	Cost of Gas	Cost of Gas Rate	$	0.3669	$	0.3694	
55	Customer Charge		$	74.69	$	77.02	
	Winter	Charge for 1st Therms	$	0.3691	$	0.4037	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.2400	$	0.2625	
	Block Size	Cutoff for First Block		100		100	
	Cost of Gas	Cost of Gas Rate	$	0.2734	$	0.3028	
	Summer	Charge for 1st Therms	$	0.3691	$	0.4037	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.2400	$	0.2625	
	Block Size	Cutoff for First Block		100		100	
	Cost of Gas	Cost of Gas Rate	$	0.3786	$	0.3811	
56	Customer Charge		$	224.11	$	231.09	
	Winter	Charge for 1st Therms	$	0.3170	$	0.3463	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.2111	$	0.2306	
	Block Size	Cutoff for First Block		1,000		1,000	
	Cost of Gas	Cost of Gas Rate	$	0.2734	$	0.3028	
	Summer	Charge for 1st Therms	$	0.2297	$	0.2509	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.1306	$	0.1426	
	Block Size	Cutoff for First Block		1,000		1,000	
	Cost of Gas	Cost of Gas Rate	$	0.3786	$	0.3811	
57	Customer Charge		$	989.81	$	1,020.66	
	Winter	Charge for 1st Therms	$	0.2216	$	0.2468	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.2216	$	0.2468	
	Block Size	Cutoff for First Block		-		-	
	Cost of Gas	Cost of Gas Rate	$	0.2734	$	0.3028	
	Summer	Charge for 1st Therms	$	0.1063	$	0.1184	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.1063	$	0.1184	
	Block Size	Cutoff for First Block		-		-	
	Cost of Gas	Cost of Gas Rate	$	0.3786	$	0.3811	
58	Customer Charge		$	989.81	$	1,020.66	
	Winter	Charge for 1st Therms	$	0.0846	$	0.1079	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.0846	$	0.1079	
	Block Size	Cutoff for First Block		-		-	
	Cost of Gas	Cost of Gas Rate	$	0.2734	$	0.3028	
	Summer	Charge for 1st Therms	$	0.0459	$	0.0585	
	LDAC Charge		$	0.0478	$	0.0479	
	Energy Charge	Charge for Therms over 1st	$	0.0459	$	0.0585	
	Block Size	Cutoff for First Block		-		-	
	Cost of Gas	Cost of Gas Rate	$	0.3786	$	0.3811	

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Rate Design Analysis and Calculations

Line	(A)	Non Heat R-1 (B)	MEP Non Heat R-5 (C)	Heat R-3 (D)	MEP Heat R-6 (E)	Low Income Heat R-4 (F)	MEP Low Income Heat R-7 (G)	Low Annual G-41 (H)	MEP Low Annual G-44 (I)	Medium Annual G-42 (J)	MEP Medium G-45 (K)	High Annual G-43 (L)	MEP High Annual G-46 (M)	Low Annual G-51 (N)	MEP Low Annual G-55 (O)	Medium Annual G-52 (P)	MEP Medium G-56 (Q)	High Annual G-53 (R)	MEP High G-57 (S)	High Annual G-54 (T)	MEP High G-58 (U)	Company Total (V)	Explanation (W)
1	**A. Proforma Revenues at Current Rates**																						
2	Winter																						
3	Winter Customer Revenues	$321,238	$6,468	$6,791,969	$17,618	$220,676	$89	$3,272,068	$1,163	$1,459,217	$6,776	$241,408	$25,968	$449,960	$1,352	$402,292	$0	$158,192	$0	$123,675	$5,972	$13,506,098	Company Records
4	Winter Volumetric Revenues	$187,087	$5,981	$27,241,345	$99,586	$857,288	$435	$7,555,599	$3,737	$9,382,504	$45,183	$2,281,585	$0	$522,348	$812	$1,140,812	$0	$1,064,568	$0	$511,713	$13,827	$50,918,418	Company Records
5	Summer																						
6	Summer Customer Revenues	$325,707	$7,628	$6,660,183	$22,327	$210,052	$146	$3,172,280	$1,228	$1,473,257	$7,313	$227,277	$37,510	$457,344	$1,374	$412,025	$0	$156,365	$0	$121,036	$6,071	$13,499,124	Company Records
7	Summer Volumetric Revenues	$92,788	$1,824	$5,634,491	$22,355	$173,393	$86	$1,072,183	$738	$1,971,800	$11,659	$300,918	$0	$339,518	$175	$516,593	$0	$345,985	$0	$357,555	$5,284	$10,847,346	Company Records
8	Revenues at current rates	$926,820	$21,900	$46,527,988	$161,887	$1,461,408	$756	$15,076,131	$6,866	$14,286,778	$70,932	$3,051,188	$63,478	$1,769,170	$3,714	$2,471,727	$0	$1,725,110	$0	$1,113,980	$31,154	$88,770,986	Line 3 + Line 4 + Line 6 + Line 7
9	EOY Revenue Adjustment																						
10	EOY Revenue Adjustment	($6,583)	$0	$399,127	$0	($11,384)	$0	$144,745	$0	$151,520	$0	$53,669	$0	($6,972)	$0	$38,522	$0	($7,074)	$0	$0	$0	$755,571	RATES-5 WP - EOY Adjustment
11																							
12	RLIAP adjustment																						
13	Add back recovery of RLIAP discount	$8,791	$190	$713,482	$2,019	$54,991	$22	$303,567	$123	$426,493	$1,631	$138,818	$0	$50,054	$43	$118,082	$0	$127,384	$0	$219,970	$3,406	$2,169,066	RATES-5 WP - RLIAP, Line 18
14	Allocation of RLIAP recovery																					$2,169,066	
15																							
16	Adjusted Base Revenues	929,029	22,090	47,640,597	163,905	1,505,015	778	15,524,443	6,989	14,864,791	72,563	3,243,675	63,478	1,812,251	3,757	2,628,331	0	1,845,420	0	1,333,950	34,560	91,695,623	Line 8 + Line 10 + Line 14
17	**B. Billing Determinants**																						
18	Customer Bill Count																						
19	Winter	20,729	321	438,281	875	35,600	11	56,945	16	8,465	30	326	27	7,831	18	2,334	0	208	0	162	6	572,184	Company Records
20	Summer	21,018	379	442,683	1,108	33,886	18	55,208	16	8,546	33	307	39	7,960	18	2,390	0	205	0	159	6	573,979	Company Records
21	Total	41,747	700	880,964	1,983	69,486	29	112,152	32	17,010	63	634	66	15,791	36	4,724	0	413	0	321	12	1,146,164	Line 19 + Line 20
22	EOY Customer Bill Count Adjustement																						
23	Winter	(161)	0	3,858	0	(329)	0	455	0	100	0	6	0	(26)	0	41	0	(0)	0	0	0	3,944	RATES-5 WP - EOY Adjustment
24	Summer	(125)	0	3,922	0	(158)	0	816	0	120	0	11	0	(42)	0	34	0	(2)	0	0	0	4,575	RATES-5 WP - EOY Adjustment
25	Total	(286)	0	7,779	0	(487)	0	1,271	0	221	0	16	0	(68)	0	75	0	(2)	0	0	0	8,519	Line 23 + Line 24
26	Adjusted Customer Bill Count																						
27	Winter	20,569	321	442,139	875	35,271	11	57,400	16	8,565	30	332	27	7,805	18	2,374	0	207	0	162	6	576,128	Line 19 + Line 23
28	Summer	20,892	379	446,604	1,108	33,728	18	56,024	16	8,666	33	318	39	7,918	18	2,424	0	203	0	159	6	578,555	Line 20 + Line 24
29	Total	41,461	700	888,743	1,983	68,999	29	113,424	32	17,231	63	650	66	15,723	36	4,798	0	411	0	321	12	1,154,683	Line 27 + Line 28
30																							
31	Delivery Quantities (Weather Normalized, Calendarized)																						
32	Winter Volumes																						
33	Headblock	484,690	11,918	47,979,070	134,921	3,774,088	1,474	4,726,945	1,312	8,070,452	29,152	8,663,887	0	549,348	693	2,253,190	0	6,245,076	0	7,866,954	163,520	90,956,690	Company Records
34	Tailblock	0	0	0	0	0	0	16,850,759	7,131	20,755,644	78,004	0	0	1,984,256	2,318	3,640,943	0	0	0	0	0	43,319,056	Company Records
35	Winter EOY Adjustment																						
36	Headblock	(4,108)	0	405,786	0	(33,342)	0	33,478	0	83,066	0	124,301	0	(1,801)	0	37,130	0	(11,829)	0	0	0	632,881	RATES-5 WP - EOY Adjustemnt
37	Tailblock	0	0	0	0	0	0	126,054	0	183,774	0	0	0	(6,278)	0	59,430	0	0	0	0	0	362,980	RATES-5 WP - EOY Adjustemnt
38	Winter Adjusted Volumes																						
39	Headblock	480,581	11,918	48,384,856	134,921	3,740,746	1,474	4,760,423	1,312	8,153,718	29,152	8,788,188	0	547,547	693	2,290,320	0	6,233,247	0	7,866,954	163,520	91,589,571	Line 33 + Line 36
40	Tailblock	0	0	0	0	0	0	16,976,813	7,131	20,939,418	78,004	0	0	1,977,978	2,318	3,700,373	0	0	0	0	0	43,682,035	Line 34 + Line 37
41	Summer Volumes																						
42	Headblock	240,388	3,635	9,923,798	30,287	763,337	293	668,140	279	2,333,283	10,153	2,499,183	0	485,738	402	2,001,334	0	4,231,394	0	10,136,028	115,234	33,442,909	Company Records
43	Tailblock	0	0	0	0	0	0	2,393,357	1,378	3,405,661	16,180	0	0	1,091,861	112	1,623,007	0	0	0	0	0	8,531,556	Company Records
44	Summer EOY Adjustment																						
45	Headblock	(1,454)	0	84,849	0	(3,478)	0	9,353	0	30,864	0	73,922	0	(2,043)	0	26,041	0	(39,933)	0	0	0	178,861	RATES-5 WP - EOY Adjustemnt
46	Tailblock	0	0	0	0	0	0	36,717	0	42,528	0	0	0	(4,547)	0	23,093	0	0	0	0	0	97,791	RATES-5 WP - EOY Adjustemnt
47	Summer Adjusted Volumes																						
48	Headblock	238,935	3,635	10,008,648	30,287	759,859	293	677,493	279	2,364,147	10,153	2,573,105	0	483,696	402	2,027,375	0	4,192,201	0	10,136,028	115,234	33,621,770	Line 42 + Line 45
49	Tailblock	0	0	0	0	0	0	2,430,074	1,378	3,448,189	16,180	0	0	1,087,314	112	1,646,101	0	0	0	0	0	8,629,348	Line 43 + Line 46
50	Total Volumes	719,516	15,553	58,393,504	165,208	4,500,606	1,767	24,844,803	10,101	34,905,472	133,489	11,361,293	0	4,096,535	3,525	9,664,169	0	10,425,448	0	18,002,982	278,754	177,522,724	Line 39 + Line 40 + Line 48 + Line 49
51	**C. CLASS REVENUE TARGETS**																						
52	MCS Results																						
53	Total Delivery Service Marginal Costs																						
54	Total Customer-related Marginal Costs	$2,384,370		$52,763,822				$6,568,732		$1,731,349		$152,565		$2,596,697		$489,356		$179,972		$78,117		$66,944,980	Marginal Annual Revenues from MCOS
55	Total Capacity-related Marginal Costs	$185,977		$27,106,550				$11,873,915		$14,367,375		$4,117,346		$859,921		$1,967,210		$2,109,601		$1,215,735		$63,803,630	Marginal Annual Revenues from MCOS
56	Total Class Marginal Costs	$2,570,346		$79,870,372				$18,442,647		$16,098,724		$4,269,911		$3,456,617		$2,456,566		$2,289,573		$1,293,852		$130,748,610	Line 54 + Line 55
57																							
58	Delivery Service Unit Costs - Marginal Unit Costs	3.572		1.368				0.742		0.461		0.376		0.844		0.254		0.220		0.072		$0.74	Line 56 / Line 50
59	Customer Costs	$55.56		$55.54				$58.55		$101.41		$218.11		$164.06		$103.60		$435.63		$234.19			Marginal Unit Costs from MCOS
60	Capacity-Related Costs	$0.2494		$0.4276				$0.4754		$0.4088		$0.3649		$0.2081		$0.2057		$0.2005		$0.0665			Marginal Unit Costs from MCOS
61																							
62	Revenue target																					94,552,894	RATES-5 WP - Reconciliations
63																							
64	Difference: Revenue Requirement - Total Marginal Costs																					(36,195,716)	Line 62 - Line 56
65	Equi-proportional Adjustment Factor	($660,076)		($14,606,842)				($1,818,451)		($479,297)		($42,235)		($718,855)		($135,471)		($49,822)		($21,625)		-27.68%	Line 64 / Line 56
66	Equi-proportional Adjustment Customer	($51,485)		($7,504,026)				($3,287,109)		($3,977,384)		($1,139,823)		($238,056)		($544,591)		($584,010)		($336,557)		($18,532,675)	Line 54 * Line 65
67	Equi-proportional Adjustment Capacity-Related	($711,560)		($22,110,868)				($5,105,560)		($4,456,681)		($1,182,058)		($956,911)		($680,062)		($633,833)		($358,183)		($17,663,041)	Line 55 * Line 65
68	Marginal Cost Constrained to Allowed Revenues																					($36,195,716)	Line 66 + Line 67
69																							
70	Delivery Service Revenue - Equi-Proportional Revenue Requirement																						
71	Total Customer Marginal Costs	$1,724,294		$38,156,980				$4,750,281		$1,252,052		$110,330		$1,877,842		$353,886		$130,150		$56,492		$48,412,305	Line 54 + Line 66
72	Total Capacity-Related Marginal Costs	$134,492		$19,602,524				$8,596,807		$10,389,991		$2,977,520		$621,865		$1,422,619		$1,525,591		$879,178		$46,140,589	Line 55 + Line 67
73	Total	$1,858,786		$57,759,504				$13,337,088		$11,642,043		$3,087,850		$2,499,707		$1,776,504		$1,655,741		$935,669		$94,552,894	Line 71 + Line 72
74																							
75	Delivery Service Unit Costs - Equi-Proportional Revenue Requirement																						
76	Customer Costs	$40.49		$40.02				$42.34		$73.33		$157.73		$118.64		$74.92		$315.03		$169.36			Line 59 * Line 65
77	Distribution Volumetric Costs	0		0				0		0		0		0		0		0		0			Line 60 * Line 65
78	Preliminary Class Revenue Targets																						
79	Proforma Revenues, Adjusted	$929,029	$22,090	$47,640,597	$163,905	$1,505,015	$778	$15,524,443	$6,989	$14,864,791	$72,563	$3,243,675	$63,478	$1,812,251	$3,757	$2,628,331	$0	$1,845,420	$0	$1,333,950	$34,560	$91,695,623	Line 16
80	Grouped class total revenues	$951,119		$49,310,296				$15,531,432		$14,937,354		$3,307,153		$1,816,008		$2,628,331		$1,845,420		$1,368,511			'T' customer revenues for grouped classes
81	Potential class grouping revenue requirement change from MCOS																						
82	Potential increase/(decrease) based on MCOS	$907,667		$8,449,208				($2,194,344)		($3,295,311)		($219,300)		$683,699		($851,827)		($189,679)		($432,841)		$2,857,271	Line 73 - Line 80
83	Potential increase/(decrease) %	95.43%		17.13%				-14.13%		-22.06%		-6.63%		37.65%		-32.41%		-10.28%		-31.63%		3.12%	Line 82 / Line 80
84																							
85	System-wide Average Increase	3.12%		3.12%				3.12%		3.12%		3.12%		3.12%		3.12%		3.12%		3.12%			(Line 62 / Line 79) - 1
86	Preliminary grouped class revenue target	$980,757		$50,846,824				$16,015,398		$15,402,807		$3,410,205		$1,872,595		$2,710,231		$1,902,924		$1,411,154		$94,552,894	Line 80 * (1 + Line 85)
87																							
88	Consistency consideration: Class target revenues																						
89	Change to preliminary class revenue target	0.00%		0.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%			Input
90	Adjustment	$0		$0				$0		$0		$0		$0		$0		$0		$0		$0	Line 89 * Line 86
91	Allocator	735,069		63,061,085				24,854,903		35,038,961		11,361,293		4,100,060		9,664,169		10,425,448		18,281,736		177,522,724	Line 50 or 0
92	Allocated target change	$0		$0				$0		$0		$0		$0		$0		$0		$0		$0	Line 90, Col (V) / Line 91, Col (V) * Line 91
93	Adjusted preliminary grouped class revenue target	$980,757		$50,846,824				$16,015,398		$15,402,807		$3,410,205		$1,872,595		$2,710,231		$1,902,924		$1,411,154		$94,552,894	Line 86 + Line 90 + Line 92
94	**D. RATE DESIGN**																						
95	Current customer charge	$15.50	$20.15	$15.50	$20.15	$6.20	$8.06	$57.46	$74.70	$172.39	$224.11	$739.83	$961.78	$57.46	$74.69	$172.39	$224.11	$761.39	$989.81	$761.39	$989.81		Line 3 + Line 6 / Line 21
96	Customer charge increase	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%	3.12%		(Line 95) x (1 + Line 96)
97	Proposed Customer Charge	$15.98	$20.77	$15.98	$20.77	$6.39	$8.31	$59.25	$77.03	$177.76	$231.09	$762.89	$991.75	$59.25	$77.03	$177.76	$231.09	$785.12	$1,020.66	$785.12	$1,020.66		(Line 95) x (1 + Line 96)
98																							
99	Customer Charge Revenue, Proposed Customer Charge																						
100	Winter Period Customer Revenues	$328,680	$6,670	$7,065,254	$18,167	$225,448	$91	$3,401,014	$1,199	$1,522,512	$6,987	$253,253	$26,777	$462,459	$1,394	$422,064	$0	$162,729	$0	$127,529	$6,158		Line 19 * Line 97
101	Summer Period Customer Revenues	$333,850	$7,865	$7,136,616	$23,023	$215,587	$150	$3,319,475	$1,266	$1,540,548	$7,541	$242,446	$38,678	$469,114	$1,417	$430,924	$0	$159,719	$0	$124,808	$6,260		Line 20 * Line 97
102	Base Rate Total Customer Charge revenue	$662,530	$14,535	$14,201,871	$41,190	$441,035	$242	$6,720,489	$2,465	$3,063,060	$14,528	$495,699	$65,456	$931,573	$2,811	$852,988	$0	$322,448	$0	$252,337	$12,418		Line 100 + Line 101
103	RLIAP discount recovery (through LDAC)					$661,553	$363															$28,759,589	Line 29
104	Total Customer Charge revenue (including MEP)	$677,065		$15,346,252				$6,722,954		$3,077,588		$561,155		$934,384		$852,988		$322,448		$264,755		$28,759,589	'T' customer revenues for grouped classes
105	Preliminary required class revenue from volumetric sales	$303,692		$35,500,571				$9,292,443		$12,325,220		$2,849,051		$938,211		$1,857,243		$1,580,476		$1,146,399		$65,793,305	Line 93 - Line 104
106																							
107	Consistency consideration: MCOS Convergence																						
108	Contraint on adjustment for MCOS (+/-)	15.00%		15.00%				15.00%		15.00%		15.00%		15.00%		15.00%		15.00%		15.00%			Input
109	Pro Rata class target revenue increase	$29,637		$1,536,528				$483,965		$465,454		$103,052		$56,588		$81,900		$57,504		$42,643			Line 93 - Line 80
110	Max class target revenue increase per consistency consideration	$34,083		$1,767,007				$556,560		$535,272		$118,510		$65,076		$94,185		$66,130		$49,040			(1 + Line 108) * Line 109
111	Min class target revenue increase per consistency consideration	$25,192		$1,306,049				$411,371		$395,636		$87,594		$48,099		$69,615		$48,878		$36,247			(1 - Line 108) * Line 109
112	MCOS class target revenue increase	$907,667		$8,449,208				($2,194,344)		($3,295,311)		($219,300)		$683,699		($851,827)		($189,679)		($432,841)			Line 82
113	Constrained class target revenue change	$34,083		$1,767,007				$411,371		$395,636		$87,594		$65,076		$69,615		$48,878		$36,247			Line 110, Line 111, or Line 112
114																							
115	Preliminary grouped class revenue target, adjusted for MCOS	$985,202		$51,077,303				$15,942,803		$15,332,989		$3,394,747		$1,881,083		$2,697,946		$1,894,298		$1,404,757		$94,611,129	Line 113 + Line 86
116	Net revenue impact	($56,471)		($56,471)				($56,471)		($56,471)		($56,471)		($56,471)		($56,471)		($56,471)		($56,471)		$58,235	Line 115 - Line 73
117	Adjustment to retain revenue neutrality																					($58,235)	Line 116, Column (V) / 9
118	Grouped class revenue target, adjusted for MCOS	$978,732		$51,070,832				$15,936,332		$15,326,519		$3,388,277		$1,874,613		$2,691,475		$1,887,828		$1,398,287		$94,552,894	Line 115 + Line 117
119	Required revenue from volumetric, adjusted for MCOS	$301,667		$35,724,580				$9,213,378		$12,248,931		$2,827,122		$940,228		$1,838,487		$1,565,380		$1,133,532		$65,793,305	Line 118 - Line 104
120																							
121	Volumetric Rate Ratios - current tariff																						
122	Tailblock/HeadBlock ratio																						
123	Winter	100.00%		100.00%				67.17%		66.63%		100.00%		65.03%		66.60%		100.00%		100.00%			Current tariff
124	Summer	100.00%		100.00%				67.17%		66.63%		100.00%		65.03%		56.84%		100.00%		100.00%			Current tariff
125																							
126	Summer/Winter ratio																						
127	Headblock	100.00%		100.00%				100.00%		100.00%		45.72%		100.00%		72.45%		47.97%		54.23%			Current tariff
128	Tailblock	100.00%		100.00%				100.00%		100.00%		45.72%		100.00%		61.83%		47.97%		54.23%			Current tariff
129																							
130	Winter Volumeric Rates																						
131	Headblock	$0.4078	$0.5301	$0.5661	$0.7359	$0.2264	$0.2944	$0.4965	$0.6480	$0.4553	$0.5919	$0.2837	$0.3688	$0.3105	$0.4037	$0.2664	$0.3463	$0.1899	$0.2468	$0.0830	$0.1079		Goal seek
132	Tailblock	$0.4078	$0.5301	$0.5661	$0.7359	$0.2264	$0.2944	$0.3348	$0.4353	$0.3034	$0.3944	$0.2837	$0.3688	$0.2019	$0.2625	$0.1774	$0.2306	$0.1899	$0.2468	$0.0830	$0.1079		Line 123 * Line 131
133	Summer Volumetric Rates																						

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Rate Design Analysis and Calculations

Docket No. DG 20-105
Attachment RATE5-5
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	Residential						Commercial and Industrial: Low Load Factor						Commercial and Industrial: High Load Factor								Company Total	Explanation
	Non Heat R-1	MEP Non Heat R-5	Heat R-3	MEP Heat R-6	Low Income Heat R-4	MEP Low Income Heat R-7	Low Annual G-41	MEP Low Annual G-44	Medium Annual G-42	MEP Medium Annual G-45	High Annual G-43	MEP High Annual G-46	Low Annual G-51	MEP Low Annual G-55	Medium Annual G-52	MEP Medium Annual G-56	High Annual G-53	MEP High Annual G-57	High Annual G-54	MEP High Annual G-58		
Line (A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)
134 Headblock	$0.4078	$0.5301	$0.5661	$0.7359	$0.2264	$0.2944	$0.4985	$0.6480	$0.4553	$0.5919	$0.1297	$0.1686	$0.3105	$0.4037	$0.1930	$0.2509	$0.0911	$0.1184	$0.0450	$0.0585		Line 127 * Line 131
135 Tailblock	$0.4078	$0.5301	$0.5661	$0.7359	$0.2264	$0.2944	$0.3348	$0.4353	$0.3034	$0.3944	$0.1297	$0.1686	$0.2019	$0.2625	$0.1097	$0.1426	$0.0911	$0.1184	$0.0450	$0.0585		Line 128 * Line 132
136																						
137 RLIAP discount recovery (through LDAC)					$1,528,562	$780																∑ price differences * quantities
138																						
139 Class volumetric revenue	$293,421	$8,245	$33,054,103	$121,573	$2,547,603	$1,301	$9,208,643	$4,735	$12,188,516	$60,415	$2,827,122	$0	$939,149	$1,080	$1,838,487	$0	$1,565,380	$0	$1,109,146	$24,386		Line 39 * Line 131 + Line 40 * Line 132 + Line 48 * Line 134 + Line 49 * Line 135
140 Total volumetric revenue (Base plus MEP)	$301,667		$35,724,580				$9,213,378		$12,248,931		$2,827,122		$940,228		$1,838,487		$1,565,380		$1,133,532			∑ volumetric revenues for related classes
141 Over/(under) recovery	$0		$0				$0		$0		$0		$0		$0		$0		$0		$0	Line 140 - Line 119
142 E. CHECK																						
143 Revenue Target	$978,732		$51,070,832				$15,936,332		$15,326,519		$3,388,277		$1,874,613		$2,691,475		$1,887,828		$1,398,287		$94,552,894	
144 Customer Revenue	$677,065		$15,346,252				$6,722,954		$3,077,588		$561,155		$934,384		$852,988		$322,448		$264,755		$28,759,589	
145 Volumetric Revenue	$301,667		$35,724,580				$9,213,378		$12,248,931		$2,827,122		$940,228		$1,838,487		$1,565,380		$1,133,532		$65,793,305	
146 Check	$0		$0				$0		$0		$0		$0		$0		$0		$0		$0	
147																						
148 F. COMPONENT RATE CHANGES																						
149	R-1	R-5	R-3	R-6	R-4	R-7	G-41	G-44	G-42	G-45	G-43	G-46	G-51	G-55	G-52	G-56	G-53	G-57	G-54	G-58		
150 Customer charge																						
151 Current tariff	$15.50	$20.15	$15.50	$20.15	$6.20	$8.06	$57.46	$74.70	$172.39	$231.09	$739.83	$961.78	$57.46	$74.69	$172.39	$224.11	$761.39	$989.81	$761.39	$989.81		
152 Proposed	$15.98	$20.77	$15.98	$20.77	$6.39	$8.31	$59.25	$77.03	$177.76	$231.09	$762.89	$991.75	$59.25	$77.02	$177.76	$231.09	$785.12	$1,020.66	$785.12	$1,020.66		
153 % increase	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%	3.1%		
154																						
155 Winter Headblock																						
156 Current tariff	$0.3860	$0.50	$0.5678	$0.74	$0.2272	$0.30	$0.4711	$0.61	$0.4284	$0.56	$0.2633	$0.34	$0.2839	$0.37	$0.2439	$0.32	$0.1705	$0.22	$0.0650	$0.08		
157 Proposed	$0.4078	$0.5301	$0.5661	$0.7359	$0.2264	$0.2944	$0.4985	$0.6480	$0.4553	$0.5919	$0.2837	$0.3688	$0.3105	$0.4037	$0.2664	$0.3463	$0.1899	$0.2468	$0.0830	$0.1079		
158 % increase	5.7%	5.7%	-0.3%	-0.3%	-0.3%	-0.3%	5.8%	5.8%	6.3%	6.3%	7.7%	7.7%	9.4%	9.4%	9.2%	9.2%	11.4%	11.4%	27.6%	27.6%		
159																						
160 Winter Tailblock																						
161 Current tariff							$0.3165	$0.41	$0.2855	$0.37			$0.1846	$0.24	$0.1624	$0.21						
162 Proposed							$0.3348	$0.4353	$0.3034	$0.3944			$0.2019	$0.2625	$0.1774	$0.2306						
163 % increase							5.8%	5.8%	6.3%	6.3%			9.4%	9.4%	9.2%	9.2%						
164																						
165 Summer Headblock																						
166 Current tariff	$0.3860	$0.50	$0.5678	$0.74	$0.2272	$0.30	$0.4711	$0.61	$0.4284	$0.56	$0.1204	$0.16	$0.2839	$0.37	$0.1767	$0.23	$0.0818	$0.11	$0.0353	$0.05		
167 Proposed	$0.4078	$0.5301	$0.5661	$0.7359	$0.2264	$0.2944	$0.4985	$0.6480	$0.4553	$0.5919	$0.1297	$0.1686	$0.2839	$0.4037	$0.1930	$0.2509	$0.0911	$0.1184	$0.0450	$0.0585		
168 % increase	5.7%	5.7%	-0.3%	-0.3%	-0.3%	-0.3%	5.8%	5.8%	6.3%	6.3%	7.7%	7.7%	9.4%	9.4%	9.2%	9.2%	11.4%	11.4%	27.6%	27.6%		
169																						
170 Summer Tailblock																						
171 Current tariff							$0.3165	$0.41	$0.2855	$0.37			$0.1846	$0.24	$0.1004	$0.13						
172 Proposed							$0.3348	$0.4353	$0.3034	$0.3944			$0.2019	$0.2625	$0.1097	$0.1426						
173 % increase							5.8%	5.8%	6.3%	6.3%			9.4%	9.4%	9.2%	9.2%						

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Indirect Gas Costs Analysis

Docket No. DG 20-105
Attachment RATES-6
Page 1 of 1

Line	Description	Residential Non Heat R-1 (A)	Residential Heat R-3 (B)	Residential Low Income Heat R-4 (C)	C&I Low Load Factor Low Annual G-41 (D)	C&I Low Load Factor Medium Annual G-42 (E)	C&I Low Load Factor High Annual G-43 (F)	C&I High Load Factor Low Annual G-51 (G)	C&I High Load Factor Medium Annual G-52 (H)	C&I High Load Factor High Annual G-53 (I)	C&I High Load Factor High Annual G-54 (J)	Company Total (K)	Explanation (L)
1	LP and LNG Costs											$ 3,708,999	FCOS
2	Winter Sales Volumes	496,608	48,113,991	3,775,563	3,696,529	3,820,500	2,390,624	402,620	799,290	585,444	71,792	64,152,960	Company Records
3	Unit Cost in COGC											$ 0.05780	Line 1 / Line 2
4	Class Revenues	$ 28,704	$ 2,780,989	$ 218,228	$ 213,659	$ 220,825	$ 138,178	$ 23,271	$ 46,199	$ 33,839	$ 4,150	$ 3,708,041	Line 2 x Line 3
5													
6	Bad Debt Costs											$ 5,352	FCOS
7	Annual Sales Volumes	735,069	58,558,712	4,502,373	19,431,444	16,527,518	3,134,919	3,001,166	3,428,240	977,333	163,438	110,460,211	Company Records
8	Unit Cost in COGC											$ 0.00005	Line 6 / Line 7
9	Class Revenues	$ 35	$ 2,811	$ 216	$ 933	$ 793	$ 150	$ 144	$ 165	$ 47	$ 8	5,302	Line 7 x Line 8
10													
11	Gas Working Capital											$ -	FCOS
12	Annual Sales Volumes	735,069	58,558,712	4,502,373	19,431,444	16,527,518	3,134,919	3,001,166	3,428,240	977,333	163,438	110,460,211	Company Records
13	Unit Cost in COGC											$ -	Line 11 / Line 12
14	Class Revenues	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	Line 12 x Line 13
15													
16	Other A&G and Misc.											$ 312,363	FCOS
17	Annual Sales Volumes	735,069	58,558,712	4,502,373	19,431,444	16,527,518	3,134,919	3,001,166	3,428,240	977,333	163,438	110,460,211	Company Records
18	Unit Cost in COGC											$ 0.00283	Line 16 / Line 17
19	Class Revenues	$ 2,079	$ 165,604	$ 12,733	$ 54,952	$ 46,740	$ 8,866	$ 8,487	$ 9,695	$ 2,764	$ 462	$ 312,381	Line 17 x Line 18
20													
21	Total Indirect Costs	$ 30,818	$ 2,949,404	$ 231,176	$ 269,544	$ 268,358	$ 147,194	$ 31,903	$ 56,059	$ 36,649	$ 4,620	$ 4,025,725	∑ Cols A-J
22													
23	Total from FCOS											$ 4,026,714	∑ Lines 1, 6, 11, 16
24	Variance												
25	$s											$ (989)	Line 21 - Line 23
26	%											-0.02%	Line 25 / Line 23
27													
28													

Line		Currently effective 2020 Summer COG Filing	Currently effective 2019-2020 Winter COG Filing		Rate case Summer	Rate case Winter		COG Adder for Rate Case Summer	COG Adder for Rate Case Winter
29		Currently effective			Rate case			COG Adder for Rate Case	
30		2020 Summer COG Filing	2019-2020 Winter COG Filing		Summer	Winter		Summer	Winter
31	LP and LNG Costs	$ -	$ 1,980,428			$ 3,708,999			
32	Bad Debt Costs	12,571	17,415	29,986	2,244	3,108	$ 5,352		
33	Gas Working Capital								
34	Other A&G and Misc.	5,521	7,649	13,170	130,949	181,414	$ 312,363		
35	Total Indirect Costs	$ 18,092	$ 2,005,492		$ 133,193	$ 3,893,521			
36									
37	Volumes	46,307,251	64,152,960	110,460,211	46,307,251	64,152,960	110,460,211		
38	Indirect Gas Rate	$ 0.0004	$ 0.0313		$ 0.0029	$ 0.0607		$ 0.0025	$ 0.0294

Line		Currently effective 2020 Summer COG Filing	Currently effective 2019-2020 Winter COG Filing	
39	LP and LNG Costs	$ -	$ 1,980,428	
40	Bad Debt Costs	$ 353,092	$ 1,012,101	per company
41	Gas Working Capital	$ 22,172	$ 142,623	per company
42	Other A&G and Misc.	$ 2,521	$ 10,649	
43	Total	$ 377,785	$ 3,145,801	

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE R-1 : RESIDENTIAL NON-HEATING

Line

Present Rates	Winter	Summer		**Proposed Rates**	Winter	Summer
1						
2 Cost of Gas	$0.4737	$0.3715		Cost of Gas	$0.5031	$0.3740
3 LDAC	$0.0310	$0.0310		LDAC	$0.0311	$0.0311
4						
5 Customer charge	$15.50			Customer charge	$15.98	
6 Sales rate				Sales rate		
7 First Block Size				First Block Size		
8 Block 1	$0.3860	$0.3860		Block 1	$0.4078	$0.4078
9 Block 2	$0.3860	$0.3860		Block 2	$0.4078	$0.4078

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
16	0	$15.50	$0.00	$15.50	$15.50	$0.00	$15.50	$15.98	$0.00	$15.98	$15.98	$0.00	$15.98	$0.48	3.1%	$0.48	3.1%	$0.0000	$0.0000	$0.0000	$0.0000
17	2	$16.27	$1.01	$17.28	$16.27	$0.81	$17.07	$16.80	$1.07	$17.86	$16.80	$0.81	$17.61	$0.59	3.4%	$0.53	3.1%	$8.6391	$8.5369	$8.9319	$8.8028
18	4	$17.04	$2.02	$19.06	$17.04	$1.61	$18.65	$17.61	$2.14	$19.75	$17.61	$1.62	$19.23	$0.69	3.6%	$0.58	3.1%	$4.7649	$4.6627	$4.9370	$4.8079
19	6	$17.81	$3.03	$20.84	$17.81	$2.42	$20.23	$18.43	$3.21	$21.63	$18.43	$2.43	$20.86	$0.79	3.8%	$0.63	3.1%	$3.4735	$3.3713	$3.6053	$3.4762
20	8	$18.58	$4.04	$22.62	$18.58	$3.22	$21.80	$19.24	$4.27	$23.52	$19.24	$3.24	$22.48	$0.89	3.9%	$0.68	3.1%	$2.8278	$2.7256	$2.9395	$2.8104
21	10	$19.36	$5.05	$24.40	$19.36	$4.03	$23.38	$20.06	$5.34	$25.40	$20.06	$4.05	$24.11	$1.00	4.1%	$0.73	3.1%	$2.4404	$2.3382	$2.5400	$2.4109
22	15	$21.29	$7.57	$28.86	$21.29	$6.04	$27.32	$22.10	$8.01	$30.11	$22.10	$6.08	$28.17	$1.25	4.3%	$0.85	3.1%	$1.9238	$1.8216	$2.0073	$1.8782
23	20	$23.22	$10.09	$33.31	$23.22	$8.05	$31.27	$24.14	$10.68	$34.82	$24.14	$8.10	$32.24	$1.51	4.5%	$0.97	3.1%	$1.6655	$1.5633	$1.7410	$1.6119
24	25	$25.15	$12.62	$37.76	$25.15	$10.06	$35.21	$26.17	$13.36	$39.53	$26.17	$10.13	$36.30	$1.77	4.7%	$1.09	3.1%	$1.5106	$1.4084	$1.5812	$1.4521
25	30	$27.08	$15.14	$42.22	$27.08	$12.08	$39.15	$28.21	$16.03	$44.24	$28.21	$12.15	$40.37	$2.02	4.8%	$1.22	3.1%	$1.4073	$1.3051	$1.4747	$1.3456
26	35	$29.01	$17.66	$46.67	$29.01	$14.09	$43.09	$30.25	$18.70	$48.95	$30.25	$14.18	$44.43	$2.28	4.9%	$1.34	3.1%	$1.3986	$1.2313	$1.3986	$1.2695
27	40	$30.94	$20.19	$51.12	$30.94	$16.10	$47.04	$32.29	$21.37	$53.66	$32.29	$16.21	$48.50	$2.54	5.0%	$1.46	3.1%	$1.2781	$1.1759	$1.3415	$1.2124
28	45	$32.87	$22.71	$55.58	$32.87	$18.11	$50.98	$34.33	$24.04	$58.37	$34.33	$18.23	$52.56	$2.79	5.0%	$1.58	3.1%	$1.2351	$1.1329	$1.2971	$1.1680
29	50	$34.80	$25.24	$60.03	$34.80	$20.13	$54.92	$36.37	$26.71	$63.08	$36.37	$20.26	$56.63	$3.05	5.1%	$1.70	3.1%	$1.2006	$1.0984	$1.2616	$1.1325
30	60	$38.66	$30.28	$68.94	$38.66	$24.15	$62.81	$40.45	$32.05	$72.50	$40.45	$24.31	$64.76	$3.56	5.2%	$1.95	3.1%	$1.1490	$1.0468	$1.2084	$1.0793
31	70	$42.52	$35.33	$77.85	$42.52	$28.18	$70.69	$44.53	$37.40	$81.92	$44.53	$28.36	$72.88	$4.08	5.2%	$2.19	3.1%	$1.1121	$1.0099	$1.1703	$1.0412
32	80	$46.38	$40.38	$86.75	$46.38	$32.20	$78.58	$48.60	$42.74	$91.34	$48.60	$32.41	$81.01	$4.59	5.3%	$2.44	3.1%	$1.0844	$0.9822	$1.1418	$1.0127
33	90	$50.24	$45.42	$95.66	$50.24	$36.23	$86.46	$52.68	$48.08	$100.76	$52.68	$36.46	$89.14	$5.10	5.3%	$2.68	3.1%	$1.0629	$0.9607	$1.1196	$0.9905
34	100	$54.10	$50.47	$104.57	$54.10	$40.25	$94.35	$56.76	$53.42	$110.18	$56.76	$40.51	$97.27	$5.62	5.4%	$2.93	3.1%	$1.0457	$0.9435	$1.1018	$0.9727
35	200	$92.70	$100.94	$193.64	$92.70	$80.50	$173.20	$97.54	$106.85	$204.39	$97.54	$81.03	$178.57	$10.75	5.6%	$5.37	3.1%	$0.9682	$0.8660	$1.0219	$0.8928

Estimated Bill Percentiles

Line		Use per Month	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
38	Winter - 25%	8	$18.58	$4.04	$22.62				$19.24	$4.27	$23.52				$0.89	3.9%			$2.8278		$2.9395	
39	Winter - 50%	20	$23.22	$10.09	$33.31				$24.14	$10.68	$34.82				$1.51	4.5%			$1.6655		$1.7410	
40	Winter - 75%	30	$27.08	$15.14	$42.22				$28.21	$16.03	$44.24				$2.02	4.8%			$1.4073		$1.4747	
41	Summer - 25%	5				$17.43	$2.01	$19.44				$18.02	$2.03	$20.04			$0.61	3.1%		$3.8879		$4.0089
42	Summer - 50%	11				$19.74	$4.43	$24.17				$20.47	$4.46	$24.92			$0.75	3.1%		$2.1973		$2.2656
43	Summer - 75%	20				$23.22	$8.05	$31.27				$24.14	$8.10	$32.24			$0.97	3.1%		$1.5633		$1.6119

Estimated Bill Percentiles per 2010 MCS

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE R-3 : RESIDENTIAL HEATING

Line

	Present Rates	Winter	Summer		Proposed Rates	Winter	Summer
1							
2	Cost of Gas	$0.4737	$0.3715		Cost of Gas	$0.5031	$0.3740
3	LDAC	$0.0310	$0.0310		LDAC	$0.0311	$0.0311
4							
5	Customer charge	$15.50			Customer charge	$15.98	
6	Sales rate				Sales rate		
7	First Block Size				First Block Size		
8	Block 1	$0.5678	$0.5678		Block 1	$0.5661	$0.5661
9	Block 2	$0.5678	$0.5678		Block 2	$0.5661	$0.5661

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
16	0	$15.50	$0.00	$15.50	$15.50	$0.00	$15.50	$15.98	$0.00	$15.98	$15.98	$0.00	$15.98	$0.48	3.1%	$0.48	3.1%	$0.0000	$0.0000	$0.0000	$0.0000
17	10	$21.17	$5.05	$26.22	$21.17	$4.03	$25.20	$21.64	$5.34	$26.98	$21.64	$4.05	$25.69	$0.76	2.9%	$0.49	2.0%	$2.6222	$2.5200	$2.6983	$2.5692
18	25	$29.69	$12.62	$42.31	$29.69	$10.06	$39.75	$30.13	$13.36	$43.49	$30.13	$10.13	$40.26	$1.18	2.8%	$0.51	1.3%	$1.6923	$1.5901	$1.7395	$1.6104
19	50	$43.89	$25.24	$69.12	$43.89	$20.13	$64.01	$44.28	$26.71	$70.99	$44.28	$20.26	$64.54	$1.87	2.7%	$0.53	0.8%	$1.3824	$1.2802	$1.4199	$1.2908
20	75	$58.08	$37.85	$95.93	$58.08	$30.19	$88.27	$58.43	$40.07	$98.50	$58.43	$30.38	$88.82	$2.57	2.7%	$0.55	0.6%	$1.2791	$1.1769	$1.3133	$1.1842
21	100	$72.27	$50.47	$122.74	$72.27	$40.25	$112.52	$72.59	$53.42	$126.01	$72.59	$40.51	$113.10	$3.26	2.7%	$0.57	0.5%	$1.2274	$1.1252	$1.2601	$1.1310
22	125	$86.47	$63.09	$149.56	$86.47	$50.31	$136.78	$86.74	$66.78	$153.52	$86.74	$50.64	$137.38	$3.96	2.6%	$0.60	0.4%	$1.1965	$1.0943	$1.2281	$1.0990
23	150	$100.66	$75.71	$176.37	$100.66	$60.38	$161.04	$100.89	$80.13	$181.02	$100.89	$60.77	$161.66	$4.65	2.6%	$0.62	0.4%	$1.1758	$1.0736	$1.2068	$1.0777
24	175	$114.86	$88.32	$203.18	$114.86	$70.44	$185.30	$115.04	$93.49	$208.53	$115.04	$70.90	$185.94	$5.35	2.6%	$0.64	0.3%	$1.1610	$1.0588	$1.1916	$1.0625
25	200	$129.05	$100.94	$229.99	$129.05	$80.50	$209.55	$129.19	$106.85	$236.04	$129.19	$81.03	$210.22	$6.04	2.6%	$0.66	0.3%	$1.1500	$1.0478	$1.1802	$1.0511
26	225	$143.25	$113.56	$256.80	$143.25	$90.56	$233.81	$143.34	$120.20	$263.54	$143.34	$91.15	$234.50	$6.74	2.6%	$0.69	0.3%	$1.1414	$1.0392	$1.1713	$1.0422
27	250	$157.44	$126.18	$283.62	$157.44	$100.63	$258.07	$157.49	$133.56	$291.05	$157.49	$101.28	$258.78	$7.43	2.6%	$0.71	0.3%	$1.1345	$1.0323	$1.1642	$1.0351
28	275	$171.64	$138.79	$310.43	$171.64	$110.69	$282.32	$171.65	$146.91	$318.56	$171.65	$111.41	$283.06	$8.13	2.6%	$0.73	0.3%	$1.1288	$1.0266	$1.1584	$1.0293
29	300	$185.83	$151.41	$337.24	$185.83	$120.75	$306.58	$185.80	$160.27	$346.06	$185.80	$121.54	$307.33	$8.83	2.6%	$0.76	0.2%	$1.1241	$1.0219	$1.1535	$1.0244
30	350	$214.22	$176.65	$390.86	$214.22	$140.88	$355.09	$214.10	$186.98	$401.08	$214.10	$141.79	$355.89	$10.22	2.6%	$0.80	0.2%	$1.1168	$1.0146	$1.1459	$1.0168
31	400	$242.61	$201.88	$444.49	$242.61	$161.00	$403.61	$242.40	$213.69	$456.09	$242.40	$162.05	$404.45	$11.61	2.6%	$0.85	0.2%	$1.1112	$1.0090	$1.1402	$1.0111
32	450	$271.00	$227.12	$498.11	$271.00	$181.13	$452.12	$270.71	$240.40	$511.11	$270.71	$182.31	$453.01	$13.00	2.6%	$0.89	0.2%	$1.1069	$1.0047	$1.1358	$1.0067
33	500	$299.38	$252.35	$551.73	$299.38	$201.25	$500.63	$299.01	$267.11	$566.12	$299.01	$202.56	$501.57	$14.39	2.6%	$0.94	0.2%	$1.1035	$1.0013	$1.1322	$1.0031
34	750	$441.33	$378.53	$819.85	$441.33	$301.88	$743.20	$440.52	$400.67	$841.19	$440.52	$303.84	$744.37	$21.34	2.6%	$1.16	0.2%	$1.0931	$0.9909	$1.1216	$0.9925
35	1,000	$583.27	$504.70	$1,087.97	$583.27	$402.50	$985.77	$582.04	$534.23	$1,116.26	$582.04	$405.13	$987.16	$28.29	2.6%	$1.39	0.1%	$1.0880	$0.9858	$1.1163	$0.9872

36

37 **Estimated Bill Percentiles**

Line		Use per Month	Winter Base Rates	Winter COG/LDAC	Winter TOTAL	Summer Base Rates	Summer COG/LDAC	Summer TOTAL	Winter Base Rates	Winter COG/LDAC	Winter TOTAL	Summer Base Rates	Summer COG/LDAC	Summer TOTAL	Winter $	Winter %	Summer $	Summer %	Current Winter	Current Summer	Proposed Winter	Proposed Summer
38	Winter - 25%	60	$49.56	$30.28	$79.85				$49.94	$32.05	$82.00				$2.15	2.7%			$1.3308		$1.3666	
39	Winter - 50%	100	$72.27	$50.47	$122.74				$72.59	$53.42	$126.01				$3.26	2.7%			$1.2274		$1.2601	
40	Winter - 75%	175	$114.86	$88.32	$203.18				$115.04	$93.49	$208.53				$5.35	2.6%			$1.1610		$1.1916	
41	Summer - 25%	12				$22.31	$4.83	$27.14				$22.77	$4.86	$27.63			$0.49	1.8%		$2.2617		$2.3028
42	Summer - 50%	20				$26.85	$8.05	$34.90				$27.30	$8.10	$35.40			$0.50	1.4%		$1.7451		$1.7702
43	Summer - 75%	30				$32.53	$12.08	$44.61				$32.96	$12.15	$45.12			$0.51	1.1%		$1.4868		$1.5038

Estimated Bill Percentiles per 2010 MCS

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE R-4 : LOW INCOME RESIDENTIAL HEATING

Line

	Present Rates	Winter	Summer		Proposed Rates	Winter	Summer
1							
2	Cost of Gas	$0.4737	$0.3715		Cost of Gas	$0.5031	$0.3740
3	LDAC	$0.0310	$0.0310		LDAC	$0.0311	$0.0311
4							
5	Customer charge	$6.20			Customer charge	$6.39	
6	Sales rate				Sales rate		
7	First Block Size				First Block Size		
8	Block 1	$0.2272	$0.2272		Block 1	$0.2264	$0.2264
9	Block 2	$0.2272	$0.2272		Block 2	$0.2264	$0.2264

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
16	0	$6.20	$0.00	$6.20	$6.20	$0.00	$6.20	$6.39	$0.00	$6.39	$6.39	$0.00	$6.39	$0.19	3.1%	$0.19	3.1%	$0.0000	$0.0000	$0.0000	$0.0000
17	10	$8.47	$5.05	$13.52	$8.47	$4.03	$12.50	$8.66	$5.34	$14.00	$8.66	$4.05	$12.71	$0.48	3.6%	$0.21	1.7%	$1.3517	$1.2495	$1.3998	$1.2707
18	25	$11.88	$12.62	$24.50	$11.88	$10.06	$21.94	$12.05	$13.36	$25.41	$12.05	$10.13	$22.18	$0.91	3.7%	$0.24	1.1%	$0.9798	$0.8776	$1.0163	$0.8872
19	50	$17.56	$25.24	$42.79	$17.56	$20.13	$37.68	$17.71	$26.71	$44.42	$17.71	$20.26	$37.97	$1.63	3.8%	$0.29	0.8%	$0.8558	$0.7536	$0.8885	$0.7594
20	75	$23.24	$37.85	$61.09	$23.24	$30.19	$53.42	$23.37	$40.07	$63.44	$23.37	$30.38	$53.76	$2.35	3.9%	$0.34	0.6%	$0.8145	$0.7123	$0.8459	$0.7168
21	100	$28.91	$50.47	$79.38	$28.91	$40.25	$69.16	$29.03	$53.42	$82.46	$29.03	$40.51	$69.55	$3.07	3.9%	$0.38	0.6%	$0.7938	$0.6916	$0.8246	$0.6955
22	125	$34.59	$63.09	$97.68	$34.59	$50.31	$84.91	$34.69	$66.78	$101.47	$34.69	$50.64	$85.34	$3.79	3.9%	$0.43	0.5%	$0.7814	$0.6792	$0.8118	$0.6827
23	150	$40.27	$75.71	$115.98	$40.27	$60.38	$100.65	$40.36	$80.13	$120.49	$40.36	$60.77	$101.12	$4.51	3.9%	$0.48	0.5%	$0.7732	$0.6710	$0.8033	$0.6742
24	175	$45.95	$88.32	$134.27	$45.95	$70.44	$116.39	$46.02	$93.49	$139.51	$46.02	$70.90	$116.91	$5.23	3.9%	$0.53	0.5%	$0.7673	$0.6651	$0.7972	$0.6681
25	200	$51.63	$100.94	$152.57	$51.63	$80.50	$132.13	$51.68	$106.85	$158.52	$51.68	$81.03	$132.70	$5.95	3.9%	$0.57	0.4%	$0.7628	$0.6606	$0.7926	$0.6635
26	225	$57.31	$113.56	$170.87	$57.31	$90.56	$147.87	$57.34	$120.20	$177.54	$57.34	$91.15	$148.49	$6.67	3.9%	$0.62	0.4%	$0.7594	$0.6572	$0.7891	$0.6600
27	250	$62.99	$126.18	$189.16	$62.99	$100.63	$163.61	$63.00	$133.56	$196.55	$63.00	$101.28	$164.28	$7.39	3.9%	$0.67	0.4%	$0.7566	$0.6544	$0.7862	$0.6571
28	275	$68.67	$138.79	$207.46	$68.67	$110.69	$179.35	$68.66	$146.91	$215.57	$68.66	$111.41	$180.07	$8.11	3.9%	$0.71	0.4%	$0.7544	$0.6522	$0.7839	$0.6548
29	300	$74.34	$151.41	$225.75	$74.34	$120.75	$195.09	$74.32	$160.27	$234.59	$74.32	$121.54	$195.86	$8.83	3.9%	$0.76	0.4%	$0.7525	$0.6503	$0.7820	$0.6529
30	350	$85.70	$176.65	$262.35	$85.70	$140.88	$226.58	$85.64	$186.98	$272.62	$85.64	$141.79	$227.43	$10.27	3.9%	$0.86	0.4%	$0.7496	$0.6474	$0.7789	$0.6498
31	400	$97.06	$201.88	$298.94	$97.06	$161.00	$258.06	$96.96	$213.69	$310.65	$96.96	$162.05	$259.01	$11.71	3.9%	$0.95	0.4%	$0.7473	$0.6451	$0.7766	$0.6475
32	450	$108.42	$227.12	$335.53	$108.42	$181.13	$289.54	$108.28	$240.40	$348.68	$108.28	$182.31	$290.59	$13.15	3.9%	$1.05	0.4%	$0.7456	$0.6434	$0.7749	$0.6458
33	500	$119.77	$252.35	$372.12	$119.77	$201.25	$321.02	$119.60	$267.11	$386.72	$119.60	$202.56	$322.17	$14.59	3.9%	$1.14	0.4%	$0.7442	$0.6420	$0.7734	$0.6443
34	750	$176.56	$378.53	$555.09	$176.56	$301.88	$478.44	$176.21	$400.67	$576.88	$176.21	$303.84	$480.05	$21.79	3.9%	$1.62	0.3%	$0.7401	$0.6379	$0.7692	$0.6401
35	1,000	$233.35	$504.70	$738.05	$233.35	$402.50	$635.85	$232.82	$534.23	$767.04	$232.82	$405.13	$637.94	$28.99	3.9%	$2.09	0.3%	$0.7380	$0.6358	$0.7670	$0.6379

Estimated Bill Percentiles

Line		Use per Month (therms)	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
38	Winter - 25%	70	$22.10	$35.33	$57.43				$22.24	$37.40	$59.64				$2.21	3.8%			$0.8204		$0.8520	
39	Winter - 50%	100	$28.91	$50.47	$79.38				$29.03	$53.42	$82.46				$3.07	3.9%			$0.7938		$0.8246	
40	Winter - 75%	150	$40.27	$75.71	$115.98				$40.36	$80.13	$120.49				$4.51	3.9%			$0.7732		$0.8033	
41	Summer - 25%	14				$9.38	$5.64	$15.01				$9.56	$5.67	$15.23			$0.22	1.5%		$1.0724		$1.0881
42	Summer - 50%	25				$11.88	$10.06	$21.94				$12.05	$10.13	$22.18			$0.24	1.1%		$0.8776		$0.8872
43	Summer - 75%	40				$15.28	$16.10	$31.38				$15.45	$16.21	$31.65			$0.27	0.9%		$0.7846		$0.7913

Estimated Bill Percentiles per 2010 MCS

II-501R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-41 : COMMERCIAL/INDUSTRIAL - LOW ANNUAL USE, HIGH WINTER USE

Present Rates	Winter	Summer
Cost of Gas	$0.4724	$0.3669
LDAC	$0.0478	$0.0478
Customer charge	$57.46	
Sales rate		
First Block Size	100	20
Block 1	$0.4711	$0.4711
Block 2	$0.3165	$0.3165

Proposed Rates	Winter	Summer
Cost of Gas	$0.5018	$0.3694
LDAC	$0.0479	$0.0479
Customer charge	$59.25	
Sales rate		
First Block Size	100	20
Block 1	$0.4985	$0.4985
Block 2	$0.3348	$0.3348

Line	Use per Month (therms)	Monthly Bills at Present Rates Winter Base Rates	COG / LDAC	TOTAL	Summer Base Rates	COG / LDAC	TOTAL	Monthly Bills at Proposed Rates Winter Base Rates	COG / LDAC	TOTAL	Summer Base Rates	COG / LDAC	TOTAL	Change in Monthly Bill Winter $	%	Summer $	%	Unit Costs Current Winter	Summer	Proposed Winter	Summer
16	0	$57	$0	$57	$57	$0	$57	$59	$0	$59	$59	$0	$59	$1.79	3.1%	$1.79	3.1%	$0.0000	$0.0000	$0.0000	$0.0000
17	10	$62	$5	$67	$62	$4	$66	$64	$5	$70	$64	$4	$68	$2.36	3.5%	$2.09	3.2%	$6.7374	$6.6319	$6.9733	$6.8409
18	25	$69	$13	$82	$68	$10	$79	$72	$14	$85	$71	$10	$81	$3.21	3.9%	$2.49	3.2%	$3.2898	$3.1533	$3.4182	$3.2531
19	50	$81	$26	$107	$76	$21	$97	$84	$27	$112	$79	$21	$100	$4.63	4.3%	$3.02	3.1%	$2.1405	$1.9422	$2.2332	$2.0026
20	75	$93	$39	$132	$84	$31	$115	$97	$41	$138	$88	$31	$119	$6.06	4.6%	$3.54	3.1%	$1.7575	$1.5385	$1.8382	$1.5858
21	100	$105	$52	$157	$92	$41	$134	$109	$55	$164	$96	$42	$138	$7.48	4.8%	$4.07	3.0%	$1.5659	$1.3367	$1.6407	$1.3774
22	150	$120	$78	$198	$108	$62	$170	$126	$82	$208	$113	$63	$175	$9.87	5.0%	$5.12	3.0%	$1.3228	$1.1349	$1.3887	$1.1690
23	200	$136	$104	$240	$124	$83	$207	$143	$110	$253	$129	$83	$213	$12.27	5.1%	$6.17	3.0%	$1.2013	$1.0339	$1.2626	$1.0648
24	250	$152	$130	$282	$140	$104	$243	$159	$137	$297	$146	$104	$251	$14.66	5.2%	$7.22	3.0%	$1.1284	$0.9734	$1.1870	$1.0023
25	300	$168	$156	$324	$155	$124	$280	$176	$165	$341	$163	$125	$288	$17.06	5.3%	$8.27	3.0%	$1.0798	$0.9330	$1.1366	$0.9606
26	350	$184	$182	$366	$171	$145	$316	$193	$192	$385	$180	$146	$326	$19.45	5.3%	$9.32	2.9%	$1.0450	$0.9042	$1.1006	$0.9308
27	400	$200	$208	$408	$187	$166	$353	$210	$220	$429	$196	$167	$363	$21.85	5.4%	$10.37	2.9%	$1.0190	$0.8825	$1.0736	$0.9085
28	500	$231	$260	$491	$219	$207	$426	$243	$275	$518	$230	$209	$439	$26.63	5.4%	$12.47	2.9%	$0.9825	$0.8523	$1.0358	$0.8772
29	600	$263	$312	$575	$250	$249	$499	$277	$330	$606	$263	$250	$514	$31.42	5.5%	$14.57	2.9%	$0.9582	$0.8321	$1.0106	$0.8564
30	700	$294	$364	$659	$282	$290	$572	$310	$385	$695	$297	$292	$589	$36.21	5.5%	$16.67	2.9%	$0.9408	$0.8177	$0.9926	$0.8415
31	800	$326	$416	$742	$314	$332	$645	$343	$440	$783	$330	$334	$664	$41.00	5.5%	$18.76	2.9%	$0.9278	$0.8069	$0.9791	$0.8303
32	900	$358	$468	$826	$345	$373	$719	$377	$495	$872	$364	$376	$739	$45.79	5.5%	$20.86	2.9%	$0.9177	$0.7984	$0.9686	$0.8216
33	1,000	$389	$520	$910	$377	$415	$792	$410	$550	$960	$397	$417	$815	$50.58	5.6%	$22.96	2.9%	$0.9096	$0.7917	$0.9602	$0.8147
34	1,250	$469	$650	$1,119	$456	$518	$975	$494	$687	$1,181	$481	$522	$1,003	$62.55	5.6%	$28.21	2.9%	$0.8950	$0.7796	$0.9450	$0.8022
35	1,500	$548	$780	$1,328	$535	$622	$1,157	$578	$825	$1,402	$565	$626	$1,191	$74.53	5.6%	$33.46	2.9%	$0.8853	$0.7715	$0.9350	$0.7938

Estimated Bill Percentiles

Line		Use per Month	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Current Winter	Summer	Proposed Winter	Summer
38	Winter - 25%	70	$90	$36	$127				$94	$38	$133				$5.77	4.5%			$1.8122		$1.8946	
39	Winter - 50%	200	$136	$104	$240				$143	$110	$253				$12.27	5.1%			$1.2013		$1.2626	
40	Winter - 75%	500	$231	$260	$491				$243	$275	$518				$26.63	5.4%			$0.9825		$1.0358	
41	Summer - 25%	0				$57	$0	$57				$59	$0	$59			$1.79	3.1%		$0.0000		$0.0000
42	Summer - 50%	8				$61	$3	$65				$63	$3	$67			$2.03	3.1%		$8.0684		$8.3222
43	Summer - 75%	45				$75	$19	$93				$78	$19	$96			$2.91	3.1%		$2.0768		$2.1416

Estimated Bill Percentiles per 2010 MCS

II-502R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-42 : COMMERCIAL/INDUSTRIAL - MEDIUM ANNUAL USE, HIGH WINTER USE

Line

Present Rates	Winter	Summer		Proposed Rates	Winter	Summer
Cost of Gas	$0.4724	$0.3669		Cost of Gas	$0.5018	$0.3694
LDAC	$0.0478	$0.0478		LDAC	$0.0479	$0.0479
Customer charge	$172.39			Customer charge	$177.76	
Sales rate				Sales rate		
First Block Size	1000	400		First Block Size	1000	400
Block 1	$0.4284	$0.4284		Block 1	$0.4553	$0.4553
Block 2	$0.2855	$0.2855		Block 2	$0.3034	$0.3034

Line numbers 1–11 correspond to the rate boxes above.

Line	Use per Month (therms)	Monthly Bills at Present Rates — Winter Base Rates	COG / LDAC	TOTAL	Summer Base Rates	COG / LDAC	TOTAL	Monthly Bills at Proposed Rates — Winter Base Rates	COG / LDAC	TOTAL	Summer Base Rates	COG / LDAC	TOTAL	Change in Monthly Bill — Winter $	%	Summer $	%	Unit Costs — Current Winter	Summer	Proposed Winter	Summer
16	0	$172	$0	$172	$172	$0	$172	$178	$0	$178	$178	$0	$178	$5.37	3.1%	$5.37	3.1%	$0.0000	$0.0000	$0.0000	$0.0000
17	10	$177	$5	$182	$177	$4	$181	$182	$5	$188	$182	$4	$186	$5.94	3.3%	$5.67	3.1%	$18.1878	$18.0823	$18.7814	$18.6490
18	25	$183	$13	$196	$183	$10	$193	$189	$14	$203	$189	$10	$200	$6.78	3.5%	$6.11	3.2%	$7.8443	$7.7388	$8.1156	$7.9832
19	50	$194	$26	$220	$194	$21	$215	$201	$27	$228	$201	$21	$221	$8.19	3.7%	$6.85	3.2%	$4.3964	$4.2909	$4.5603	$4.4279
20	75	$205	$39	$244	$205	$31	$236	$212	$41	$253	$212	$31	$243	$9.61	3.9%	$7.59	3.2%	$3.2472	$3.1417	$3.3752	$3.2428
21	100	$215	$52	$267	$215	$41	$257	$223	$55	$278	$223	$42	$265	$11.02	4.1%	$8.33	3.2%	$2.6725	$2.5670	$2.7827	$2.6503
22	150	$237	$78	$315	$237	$62	$299	$246	$82	$329	$246	$63	$309	$13.84	4.4%	$9.80	3.3%	$2.0979	$1.9924	$2.1901	$2.0577
23	200	$258	$104	$362	$258	$83	$341	$269	$110	$379	$269	$83	$352	$16.66	4.6%	$11.28	3.3%	$1.8106	$1.7051	$1.8939	$1.7615
24	250	$279	$130	$410	$279	$104	$383	$292	$137	$429	$292	$104	$396	$19.48	4.8%	$12.76	3.3%	$1.6382	$1.5327	$1.7161	$1.5837
25	300	$301	$156	$457	$301	$124	$425	$314	$165	$479	$314	$125	$440	$22.31	4.9%	$14.24	3.3%	$1.5232	$1.4177	$1.5976	$1.4652
26	350	$322	$182	$504	$322	$145	$467	$337	$192	$530	$337	$146	$483	$25.13	5.0%	$15.71	3.4%	$1.4412	$1.3357	$1.5130	$1.3806
27	400	$344	$208	$552	$344	$166	$510	$360	$220	$580	$360	$167	$527	$27.95	5.1%	$17.19	3.4%	$1.3796	$1.2741	$1.4495	$1.3171
28	500	$387	$260	$647	$372	$207	$580	$405	$275	$680	$390	$209	$599	$33.60	5.2%	$19.25	3.3%	$1.2934	$1.1593	$1.3606	$1.1978
29	750	$494	$390	$884	$444	$311	$755	$519	$412	$932	$466	$313	$779	$47.71	5.4%	$24.39	3.2%	$1.1785	$1.0063	$1.2421	$1.0388
30	1,000	$601	$520	$1,121	$515	$415	$930	$633	$550	$1,183	$542	$417	$959	$61.82	5.5%	$29.53	3.2%	$1.1210	$0.9297	$1.1828	$0.9593
31	1,500	$744	$780	$1,524	$658	$622	$1,280	$785	$825	$1,609	$694	$626	$1,320	$85.55	5.6%	$39.81	3.1%	$1.0159	$0.8532	$1.0729	$0.8798
32	2,000	$886	$1,040	$1,927	$801	$829	$1,630	$937	$1,099	$2,036	$845	$835	$1,680	$109.29	5.7%	$50.10	3.1%	$0.9633	$0.8150	$1.0180	$0.8400
33	3,000	$1,172	$1,561	$2,732	$1,086	$1,244	$2,330	$1,240	$1,649	$2,889	$1,149	$1,252	$2,401	$156.75	5.7%	$70.66	3.0%	$0.9108	$0.7767	$0.9630	$0.8002
34	4,000	$1,457	$2,081	$3,538	$1,371	$1,659	$3,030	$1,543	$2,199	$3,742	$1,452	$1,669	$3,121	$204.22	5.8%	$91.23	3.0%	$0.8845	$0.7576	$0.9356	$0.7804
35	5,000	$1,743	$2,601	$4,344	$1,657	$2,074	$3,730	$1,847	$2,749	$4,595	$1,756	$2,087	$3,842	$251.68	5.8%	$111.79	3.0%	$0.8687	$0.7461	$0.9191	$0.7684

Estimated Bill Percentiles

Line		Use per Month (therms)	Winter Base Rates	COG / LDAC	TOTAL	Summer Base Rates	COG / LDAC	TOTAL	Winter Base Rates	COG / LDAC	TOTAL	Summer Base Rates	COG / LDAC	TOTAL	Winter $	%	Summer $	%	Current Winter	Summer	Proposed Winter	Summer
38	Winter - 25%	1,300	$686	$676	$1,363				$724	$715	$1,439				$76.06	5.6%			$1.0482		$1.1067	
39	Winter - 50%	2,000	$886	$1,040	$1,927				$937	$1,099	$2,036				$109.29	5.7%			$0.9633		$1.0180	
40	Winter - 75%	3,500	$1,314	$1,821	$3,135				$1,392	$1,924	$3,316				$180.49	5.8%			$0.8958		$0.9473	
41	Summer - 25%	45				$192	$19	$210				$198	$19	$217			$6.70	3.2%		$4.6740		$4.8230
42	Summer - 50%	350				$322	$145	$467				$337	$146	$483			$15.71	3.4%		$1.3357		$1.3806
43	Summer - 75%	750				$444	$311	$755				$466	$313	$779			$24.39	3.2%		$1.0063		$1.0388

Estimated Bill Percentiles per 2010 MCS

II-503R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-43 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, HIGH WINTER USE

Present Rates	Winter	Summer		Proposed Rates	Winter	Summer
Cost of Gas	$0.4724	$0.3669		Cost of Gas	$0.5018	$0.3694
LDAC	$0.0478	$0.0478		LDAC	$0.0479	$0.0479
Customer charge	$739.83			Customer charge	$762.89	
Sales rate				Sales rate		
First Block Size				First Block Size		
Block 1	$0.2633	$0.1204		Block 1	$0.2837	$0.1297
Block 2	$0.2633	$0.1204		Block 2	$0.2837	$0.1297

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
16	200	$793	$104	$897	$764	$83	$847	$820	$110	$930	$789	$83	$872	$33.03	3.7%	$25.44	3.0%	$4.4827	$4.2343	$4.6479	$4.3615
17	500	$872	$260	$1,132	$800	$207	$1,007	$905	$275	$1,180	$828	$209	$1,036	$48.00	4.2%	$29.02	2.9%	$2.2632	$2.0148	$2.3592	$2.0728
18	1,000	$1,003	$520	$1,523	$860	$415	$1,275	$1,047	$550	$1,596	$893	$417	$1,310	$72.95	4.8%	$34.99	2.7%	$1.5234	$1.2749	$1.5963	$1.3099
19	1,250	$1,069	$650	$1,719	$890	$518	$1,409	$1,118	$687	$1,805	$925	$522	$1,447	$85.42	5.0%	$37.98	2.7%	$1.3754	$1.1270	$1.4437	$1.1574
20	1,500	$1,135	$780	$1,915	$920	$622	$1,542	$1,188	$825	$2,013	$957	$626	$1,583	$97.90	5.1%	$40.96	2.7%	$1.2768	$1.0283	$1.3420	$1.0556
21	1,750	$1,201	$910	$2,111	$951	$726	$1,676	$1,259	$962	$2,221	$990	$730	$1,720	$110.37	5.2%	$43.95	2.6%	$1.2063	$0.9579	$1.2694	$0.9830
22	2,000	$1,267	$1,040	$2,307	$981	$829	$1,810	$1,330	$1,099	$2,430	$1,022	$835	$1,857	$122.84	5.3%	$46.93	2.6%	$1.1535	$0.9050	$1.2149	$0.9285
23	2,500	$1,398	$1,301	$2,699	$1,041	$1,037	$2,078	$1,472	$1,374	$2,846	$1,087	$1,043	$2,131	$147.79	5.5%	$52.90	2.5%	$1.0795	$0.8310	$1.1386	$0.8522
24	3,000	$1,530	$1,561	$3,090	$1,101	$1,244	$2,345	$1,614	$1,649	$3,263	$1,152	$1,252	$2,404	$172.74	5.6%	$58.87	2.5%	$1.0302	$0.7817	$1.0877	$0.8013
25	3,500	$1,662	$1,821	$3,482	$1,161	$1,451	$2,613	$1,756	$1,924	$3,680	$1,217	$1,461	$2,678	$197.69	5.7%	$64.84	2.5%	$0.9949	$0.7465	$1.0514	$0.7650
26	4,000	$1,793	$2,081	$3,874	$1,221	$1,659	$2,880	$1,898	$2,199	$4,097	$1,282	$1,669	$2,951	$222.64	5.7%	$70.81	2.5%	$0.9685	$0.7201	$1.0242	$0.7378
27	4,500	$1,925	$2,341	$4,266	$1,282	$1,866	$3,148	$2,040	$2,474	$4,513	$1,347	$1,878	$3,225	$247.58	5.8%	$76.78	2.4%	$0.9480	$0.6995	$1.0030	$0.7166
28	5,000	$2,057	$2,601	$4,658	$1,342	$2,074	$3,415	$2,181	$2,749	$4,930	$1,411	$2,087	$3,498	$272.53	5.9%	$82.75	2.4%	$0.9315	$0.6831	$0.9860	$0.6996
29	6,000	$2,320	$3,121	$5,441	$1,462	$2,488	$3,950	$2,465	$3,298	$5,764	$1,541	$2,504	$4,045	$322.43	5.9%	$94.69	2.4%	$0.9068	$0.6584	$0.9606	$0.6742
30	7,000	$2,583	$3,641	$6,225	$1,583	$2,903	$4,486	$2,749	$3,848	$6,597	$1,671	$2,921	$4,592	$372.32	6.0%	$106.63	2.4%	$0.8892	$0.6408	$0.9424	$0.6560
31	8,000	$2,847	$4,162	$7,008	$1,703	$3,318	$5,021	$3,033	$4,398	$7,430	$1,801	$3,339	$5,139	$422.22	6.0%	$118.56	2.4%	$0.8760	$0.6276	$0.9288	$0.6424
32	9,000	$3,110	$4,682	$7,792	$1,823	$3,732	$5,556	$3,316	$4,948	$8,264	$1,930	$3,756	$5,686	$472.11	6.1%	$130.50	2.3%	$0.8657	$0.6173	$0.9182	$0.6318
33	10,000	$3,373	$5,202	$8,575	$1,944	$4,147	$6,091	$3,600	$5,497	$9,097	$2,060	$4,173	$6,233	$522.01	6.1%	$142.44	2.3%	$0.8575	$0.6091	$0.9097	$0.6233
34	15,000	$4,690	$7,803	$12,493	$2,546	$6,221	$8,766	$5,019	$8,246	$13,264	$2,709	$6,260	$8,969	$771.49	6.2%	$202.14	2.3%	$0.8329	$0.5844	$0.8843	$0.5979
35	20,000	$6,007	$10,404	$16,411	$3,148	$8,294	$11,442	$6,437	$10,995	$17,432	$3,357	$8,347	$11,704	$1,020.96	6.2%	$261.83	2.3%	$0.8205	$0.5721	$0.8716	$0.5852

Estimated Bill Percentiles

Line		Use per Month (therms)	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
38	Winter - 25%	9,000	$3,110	$4,682	$7,792				$3,316	$4,948	$8,264				$472.11	6.1%			$0.8657		$0.9182	
39	Winter - 50%	15,000	$4,690	$7,803	$12,493				$5,019	$8,246	$13,264				$771.49	6.2%			$0.8329		$0.8843	
40	Winter - 75%	25,000	$7,323	$13,005	$20,328				$7,856	$13,743	$21,599				$1,270.44	6.2%			$0.8131		$0.8640	
41	Summer - 25%	450				$794	$187	$981				$821	$188	$1,009			$28.43	2.9%		$2.1792		$2.2424
42	Summer - 50%	3,500				$1,161	$1,451	$2,613				$1,217	$1,461	$2,678			$64.84	2.5%		$0.7465		$0.7650
43	Summer - 75%	10,000				$1,944	$4,147	$6,091				$2,060	$4,173	$6,233			$142.44	2.3%		$0.6091		$0.6233

Estimated Bill Percentiles per 2010 MCS

II-504R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-51 : COMMERCIAL/INDUSTRIAL - LOW ANNUAL USE, LOW WINTER USE

Present Rates	Winter	Summer		Proposed Rates	Winter	Summer
Cost of Gas	$0.4792	$0.3786		Cost of Gas	$0.5086	$0.3811
LDAC	$0.0478	$0.0478		LDAC	$0.0479	$0.0479
Customer charge	$57.46			Customer charge	$59.25	
Sales rate				Sales rate		
First Block Size	100	100		First Block Size	100	100
Block 1	$0.2839	$0.2839		Block 1	$0.3105	$0.3105
Block 2	$0.1846	$0.1846		Block 2	$0.2019	$0.2019

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
16	0	$57	$0	$57	$57	$0	$57	$59	$0	$59	$59	$0	$59	$1.79	3.1%	$1.79	3.1%	$0.0000	$0.0000	$0.0000	$0.0000
17	10	$60	$5	$66	$60	$4	$65	$62	$6	$68	$62	$4	$67	$2.35	3.6%	$2.08	3.2%	$6.5567	$6.4561	$6.7918	$6.6643
18	25	$65	$13	$78	$65	$11	$75	$67	$14	$81	$67	$11	$78	$3.19	4.1%	$2.52	3.4%	$3.1092	$3.0086	$3.2369	$3.1094
19	50	$72	$26	$98	$72	$21	$93	$75	$28	$103	$75	$21	$96	$4.60	4.7%	$3.25	3.5%	$1.9601	$1.8595	$2.0520	$1.9245
20	75	$79	$40	$118	$79	$32	$111	$83	$42	$124	$83	$32	$115	$6.00	5.1%	$3.98	3.6%	$1.5770	$1.4764	$1.6570	$1.5295
21	100	$86	$53	$139	$86	$43	$128	$90	$56	$146	$90	$43	$133	$7.40	5.3%	$4.71	3.7%	$1.3855	$1.2849	$1.4595	$1.3320
22	150	$95	$79	$174	$95	$64	$159	$100	$83	$184	$100	$64	$165	$9.74	5.6%	$5.71	3.6%	$1.1609	$1.0603	$1.2258	$1.0983
23	200	$104	$105	$210	$104	$85	$190	$110	$111	$222	$110	$86	$196	$12.08	5.8%	$6.70	3.5%	$1.0486	$0.9480	$1.1090	$0.9815
24	250	$114	$132	$245	$114	$107	$220	$121	$139	$260	$121	$107	$228	$14.42	5.9%	$7.70	3.5%	$0.9812	$0.8806	$1.0389	$0.9114
25	300	$123	$158	$281	$123	$128	$251	$131	$167	$298	$131	$129	$259	$16.76	6.0%	$8.69	3.5%	$0.9363	$0.8357	$0.9921	$0.8646
26	350	$132	$184	$316	$132	$149	$281	$141	$195	$336	$141	$150	$291	$19.10	6.0%	$9.69	3.4%	$0.9042	$0.8036	$0.9587	$0.8312
27	400	$141	$211	$352	$141	$171	$312	$151	$223	$373	$151	$172	$322	$21.44	6.1%	$10.68	3.4%	$0.8801	$0.7795	$0.9337	$0.8062
28	500	$160	$264	$423	$160	$213	$373	$171	$278	$449	$171	$215	$386	$26.12	6.2%	$12.67	3.4%	$0.8464	$0.7458	$0.8987	$0.7712
29	600	$178	$316	$494	$178	$256	$434	$191	$334	$525	$191	$257	$449	$30.80	6.2%	$14.66	3.4%	$0.8239	$0.7233	$0.8753	$0.7478
30	700	$197	$369	$566	$197	$298	$495	$211	$390	$601	$211	$300	$512	$35.48	6.3%	$16.65	3.4%	$0.8079	$0.7073	$0.8586	$0.7311
31	800	$215	$422	$637	$215	$341	$556	$232	$445	$677	$232	$343	$575	$40.16	6.3%	$18.64	3.4%	$0.7959	$0.6953	$0.8461	$0.7186
32	900	$234	$474	$708	$234	$384	$617	$252	$501	$753	$252	$386	$638	$44.84	6.3%	$20.63	3.3%	$0.7865	$0.6859	$0.8363	$0.7088
33	1,000	$252	$527	$779	$252	$426	$678	$272	$557	$829	$272	$429	$701	$49.53	6.4%	$22.63	3.3%	$0.7790	$0.6784	$0.8285	$0.7010
34	1,250	$298	$659	$957	$298	$533	$831	$323	$696	$1,018	$323	$536	$859	$61.23	6.4%	$27.60	3.3%	$0.7655	$0.6649	$0.8145	$0.6870
35	1,500	$344	$791	$1,135	$344	$640	$984	$373	$835	$1,208	$373	$644	$1,017	$72.93	6.4%	$32.58	3.3%	$0.7566	$0.6560	$0.8052	$0.6777

Estimated Bill Percentiles

Line		Use per Month (therms)	Present Winter Base	COG/LDAC	TOTAL	Present Summer Base	COG/LDAC	TOTAL	Proposed Winter Base	COG/LDAC	TOTAL	Proposed Summer Base	COG/LDAC	TOTAL	Winter $	%	Summer $	%	Current Winter	Current Summer	Proposed Winter	Proposed Summer
38	Winter - 25%	45	$70	$24	$94				$73	$25	$98				$4.31	4.6%			$2.0878		$2.1837	
39	Winter - 50%	175	$100	$92	$192				$105	$97	$203				$10.91	5.7%			$1.0967		$1.1591	
40	Winter - 75%	450	$150	$237	$388				$161	$250	$411				$23.78	6.1%			$0.8614		$0.9142	
41	Summer - 25%	6				$59	$3	$62				$61	$3	$64			$1.97	3.2%		$10.2865		$10.6141
42	Summer - 50%	60				$74	$26	$100				$78	$26	$104			$3.54	3.5%		$1.6680		$1.7270
43	Summer - 75%	250				$114	$107	$220				$121	$107	$228			$7.70	3.5%		$0.8806		$0.9114

Estimated Bill Percentiles per 2010 MCS

II-505R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-52 : COMMERCIAL/INDUSTRIAL - MEDIUM ANNUAL USE, LOW WINTER USE

Line

Present Rates	Winter	Summer
Cost of Gas	$0.4792	$0.3786
LDAC	$0.0478	$0.0478
Customer charge	$172.39	
Sales rate		
First Block Size	1000	1000
Block 1	$0.2439	$0.1767
Block 2	$0.1624	$0.1004

Proposed Rates	Winter	Summer
Cost of Gas	$0.5086	$0.3811
LDAC	$0.0479	$0.0479
Customer charge	$177.76	
Sales rate		
First Block Size	1000	1000
Block 1	$0.2664	$0.1930
Block 2	$0.1774	$0.1097

Lines 1–11

		Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Use per	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Month	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
	(therms)																				
	200	$221	$105	$327	$208	$85	$293	$231	$111	$342	$216	$86	$302	$15.78	4.8%	$9.16	3.1%	$1.6328	$1.4650	$1.7117	$1.5108
	300	$246	$158	$404	$225	$128	$353	$258	$167	$425	$236	$129	$364	$20.99	5.2%	$11.06	3.1%	$1.3455	$1.1777	$1.4155	$1.2146
	400	$270	$211	$481	$243	$171	$414	$284	$223	$507	$255	$172	$427	$26.19	5.4%	$12.95	3.1%	$1.2019	$1.0341	$1.2673	$1.0664
	500	$294	$264	$558	$261	$213	$474	$311	$278	$589	$274	$215	$489	$31.40	5.6%	$14.84	3.1%	$1.1157	$0.9479	$1.1784	$0.9776
	600	$319	$316	$635	$278	$256	$534	$338	$334	$672	$294	$257	$551	$36.60	5.8%	$16.74	3.1%	$1.0582	$0.8904	$1.1192	$0.9183
	700	$343	$369	$712	$296	$298	$595	$364	$390	$754	$313	$300	$613	$41.81	5.9%	$18.63	3.1%	$1.0171	$0.8494	$1.0769	$0.8760
	800	$367	$422	$789	$314	$341	$655	$391	$445	$836	$332	$343	$675	$47.01	6.0%	$20.53	3.1%	$0.9864	$0.8186	$1.0451	$0.8442
	900	$392	$474	$866	$331	$384	$715	$418	$501	$918	$351	$386	$738	$52.22	6.0%	$22.42	3.1%	$0.9624	$0.7946	$1.0204	$0.8195
	1,000	$416	$527	$943	$349	$426	$775	$444	$557	$1,001	$371	$429	$800	$57.42	6.1%	$24.32	3.1%	$0.9433	$0.7755	$1.0007	$0.7998
	1,100	$433	$580	$1,012	$359	$469	$828	$462	$612	$1,074	$382	$472	$854	$61.87	6.1%	$25.51	3.1%	$0.9202	$0.7529	$0.9764	$0.7761
	1,200	$449	$632	$1,081	$369	$512	$881	$480	$668	$1,147	$393	$515	$908	$66.33	6.1%	$26.70	3.0%	$0.9010	$0.7340	$0.9562	$0.7563
	1,300	$465	$685	$1,150	$379	$554	$934	$497	$723	$1,221	$404	$558	$961	$70.78	6.2%	$27.89	3.0%	$0.8847	$0.7181	$0.9391	$0.7395
	1,400	$481	$738	$1,219	$389	$597	$986	$515	$779	$1,294	$415	$601	$1,015	$75.23	6.2%	$29.08	2.9%	$0.8707	$0.7044	$0.9245	$0.7252
	1,500	$497	$791	$1,288	$399	$640	$1,039	$533	$835	$1,368	$426	$644	$1,069	$79.68	6.2%	$30.27	2.9%	$0.8586	$0.6926	$0.9118	$0.7128
	1,750	$538	$922	$1,460	$424	$746	$1,171	$577	$974	$1,551	$453	$751	$1,204	$90.82	6.2%	$33.24	2.8%	$0.8345	$0.6689	$0.8864	$0.6879
	2,000	$579	$1,054	$1,633	$450	$853	$1,302	$622	$1,113	$1,735	$480	$858	$1,339	$101.95	6.2%	$36.22	2.8%	$0.8163	$0.6512	$0.8673	$0.6693
	2,500	$660	$1,318	$1,977	$500	$1,066	$1,566	$710	$1,391	$2,102	$535	$1,073	$1,608	$124.21	6.3%	$42.17	2.7%	$0.7910	$0.6263	$0.8406	$0.6432
	3,000	$741	$1,581	$2,322	$550	$1,279	$1,829	$799	$1,670	$2,469	$590	$1,287	$1,877	$146.47	6.3%	$48.12	2.6%	$0.7740	$0.6097	$0.8229	$0.6257
	4,000	$903	$2,108	$3,011	$650	$1,706	$2,356	$976	$2,226	$3,202	$700	$1,716	$2,416	$191.00	6.3%	$60.02	2.5%	$0.7529	$0.5890	$0.8006	$0.6040
	5,000	$1,066	$2,635	$3,701	$751	$2,132	$2,883	$1,154	$2,783	$3,936	$810	$2,145	$2,955	$235.52	6.4%	$71.92	2.5%	$0.7402	$0.5766	$0.7873	$0.5909

Estimated Bill Percentiles

	Use per Month	Base Rates (W)	COG/LDAC (W)	TOTAL (W)	Base Rates (S)	COG/LDAC (S)	TOTAL (S)	Base Rates (PW)	COG/LDAC (PW)	TOTAL (PW)	Base Rates (PS)	COG/LDAC (PS)	TOTAL (PS)	$ (W)	% (W)	$ (S)	% (S)	Cur W	Cur S	Prop W	Prop S
Winter - 25%	1,040	$423	$548	$971				$451	$579	$1,030				$59.20	6.1%			$0.9335		$0.9904	
Winter - 50%	2,000	$579	$1,054	$1,633				$622	$1,113	$1,735				$101.95	6.2%			$0.8163		$0.8673	
Winter - 75%	3,500	$822	$1,845	$2,667				$888	$1,948	$2,836				$168.74	6.3%			$0.7619		$0.8102	
Summer - 25%	700				$296	$298	$595				$313	$300	$613			$18.63	3.1%		$0.8494		$0.8760
Summer - 50%	1,040				$353	$443	$797				$375	$446	$821			$24.79	3.1%		$0.7659		$0.7898
Summer - 75%	2,000				$450	$853	$1,302				$480	$858	$1,339			$36.22	2.8%		$0.6512		$0.6693

Estimated Bill Percentiles per 2010 MCS

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-53 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, LOAD FACTOR LESS THAN 90%

Line									
1	**Present Rates**	Winter	Summer			**Proposed Rates**	Winter	Summer	
2	Cost of Gas	$0.4792	$0.3786			Cost of Gas	$0.5086	$0.3811	
3	LDAC	$0.0478	$0.0478			LDAC	$0.0479	$0.0479	
4									
5	Customer charge	$761.39				Customer charge	$785.12		
6	Sales rate					Sales rate			
7	First Block Size					First Block Size			
8	Block 1	$0.1705	$0.0818			Block 1	$0.1899	$0.0911	
9	Block 2	$0.1705	$0.0818			Block 2	$0.1899	$0.0911	

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
13/14		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
16	1,000	$932	$527	$1,459	$843	$426	$1,270	$975	$557	$1,532	$876	$429	$1,305	$72.66	5.0%	$35.66	2.8%	$1.4589	$1.2696	$1.5315	$1.3052
17	2,500	$1,188	$1,318	$2,505	$966	$1,066	$2,032	$1,260	$1,391	$2,651	$1,013	$1,073	$2,085	$146.07	5.8%	$53.57	2.6%	$1.0020	$0.8127	$1.0605	$0.8342
18	5,000	$1,614	$2,635	$4,249	$1,170	$2,132	$3,302	$1,735	$2,783	$4,517	$1,241	$2,145	$3,386	$268.42	6.3%	$83.41	2.5%	$0.8497	$0.6604	$0.9034	$0.6771
19	7,500	$2,040	$3,953	$5,992	$1,375	$3,198	$4,573	$2,209	$4,174	$6,383	$1,468	$3,218	$4,686	$390.76	6.5%	$113.25	2.5%	$0.7990	$0.6097	$0.8511	$0.6248
20	10,000	$2,466	$5,270	$7,736	$1,579	$4,264	$5,843	$2,684	$5,565	$8,249	$1,696	$4,290	$5,986	$513.11	6.6%	$143.10	2.4%	$0.7736	$0.5843	$0.8249	$0.5986
21	12,500	$2,892	$6,588	$9,480	$1,783	$5,330	$7,113	$3,159	$6,957	$10,115	$1,924	$5,363	$7,286	$635.46	6.7%	$172.94	2.4%	$0.7584	$0.5691	$0.8092	$0.5829
22	15,000	$3,318	$7,905	$11,223	$1,988	$6,396	$8,384	$3,633	$8,348	$11,981	$2,151	$6,435	$8,587	$757.80	6.8%	$202.78	2.4%	$0.7482	$0.5589	$0.7987	$0.5724
23	20,000	$4,171	$10,540	$14,711	$2,397	$8,528	$10,925	$4,583	$11,131	$15,713	$2,607	$8,581	$11,187	$1,002.50	6.8%	$262.47	2.4%	$0.7355	$0.5462	$0.7857	$0.5594
24	25,000	$5,023	$13,175	$18,198	$2,806	$10,660	$13,466	$5,532	$13,913	$19,445	$3,062	$10,726	$13,788	$1,247.19	6.9%	$322.15	2.4%	$0.7279	$0.5386	$0.7778	$0.5515
25	30,000	$5,875	$15,810	$21,685	$3,214	$12,792	$16,006	$6,481	$16,696	$23,177	$3,517	$12,871	$16,388	$1,491.88	6.9%	$381.84	2.4%	$0.7228	$0.5335	$0.7726	$0.5463
26	35,000	$6,728	$18,445	$25,173	$3,623	$14,924	$18,547	$7,431	$19,478	$26,909	$3,973	$15,016	$18,989	$1,736.58	6.9%	$441.52	2.4%	$0.7192	$0.5299	$0.7688	$0.5425
27	40,000	$7,580	$21,080	$28,660	$4,032	$17,056	$21,088	$8,380	$22,261	$30,641	$4,428	$17,161	$21,589	$1,981.27	6.9%	$501.21	2.4%	$0.7165	$0.5272	$0.7660	$0.5397
28	45,000	$8,432	$23,715	$32,147	$4,441	$19,188	$23,629	$9,330	$25,044	$34,373	$4,884	$19,306	$24,190	$2,225.96	6.9%	$560.89	2.4%	$0.7144	$0.5251	$0.7639	$0.5376
29	50,000	$9,285	$26,350	$35,635	$4,850	$21,320	$26,170	$10,279	$27,826	$38,105	$5,339	$21,451	$26,790	$2,470.65	6.9%	$620.58	2.4%	$0.7127	$0.5234	$0.7621	$0.5358
30	55,000	$10,137	$28,985	$39,122	$5,259	$23,452	$28,711	$11,228	$30,609	$41,837	$5,794	$23,596	$29,391	$2,715.35	6.9%	$680.26	2.4%	$0.7113	$0.5220	$0.7607	$0.5344
31	60,000	$10,989	$31,620	$42,609	$5,667	$25,584	$31,251	$12,178	$33,392	$45,569	$6,250	$25,742	$31,991	$2,960.04	6.9%	$739.95	2.4%	$0.7102	$0.5209	$0.7595	$0.5332
32	75,000	$13,546	$39,525	$53,071	$6,894	$31,980	$38,874	$15,026	$41,739	$56,765	$7,616	$32,177	$39,793	$3,694.12	7.0%	$919.00	2.4%	$0.7076	$0.5183	$0.7569	$0.5306
33	100,000	$17,808	$52,700	$70,508	$8,938	$42,640	$51,578	$19,773	$55,653	$75,426	$9,893	$42,903	$52,795	$4,917.58	7.0%	$1,217.43	2.4%	$0.7051	$0.5158	$0.7543	$0.5280
34	150,000	$26,331	$79,050	$105,381	$13,026	$63,960	$76,986	$29,267	$83,479	$112,746	$14,447	$64,354	$78,801	$7,364.51	7.0%	$1,814.28	2.4%	$0.7025	$0.5132	$0.7516	$0.5253
35	200,000	$34,854	$105,400	$140,254	$17,115	$85,280	$102,395	$38,761	$111,305	$150,066	$19,001	$85,805	$104,806	$9,811.44	7.0%	$2,411.13	2.4%	$0.7013	$0.5120	$0.7503	$0.5240

Estimated Bill Percentiles

Line		Use per Month (therms)	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	Base Rates	COG/LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
38	Winter - 25%	10,000	$2,466	$5,270	$7,736				$2,684	$5,565	$8,249				$513.11	6.6%			$0.7736		$0.8249	
39	Winter - 50%	15,000	$3,318	$7,905	$11,223				$3,633	$8,348	$11,981				$757.80	6.8%			$0.7482		$0.7987	
40	Winter - 75%	30,000	$5,875	$15,810	$21,685				$6,481	$16,696	$23,177				$1,491.88	6.9%			$0.7228		$0.7726	
41	Summer - 25%	5,000				$1,170	$2,132	$3,302				$1,241	$2,145	$3,386			$83.41	2.5%		$0.6604		$0.6771
42	Summer - 50%	15,000				$1,988	$6,396	$8,384				$2,151	$6,435	$8,587			$202.78	2.4%		$0.5589		$0.5724
43	Summer - 75%	20,000				$2,397	$8,528	$10,925				$2,607	$8,581	$11,187			$262.47	2.4%		$0.5462		$0.5594

Estimated Bill Percentiles per 2010 MCS

II-507R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES
RATE G-54 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, LOAD FACTOR GREATER THAN 90%

Line						
1	**Present Rates**	Winter	Summer	**Proposed Rates**	Winter	Summer
2	Cost of Gas	$0.4792	$0.3786	Cost of Gas	$0.5086	$0.3811
3	LDAC	$0.0478	$0.0478	LDAC	$0.0479	$0.0479
4						
5	Customer charge	$761.39		Customer charge	$785.12	
6	Sales rate			Sales rate		
7	First Block Size			First Block Size		
8	Block 1	$0.0650	$0.0353	Block 1	$0.0830	$0.0450
9	Block 2	$0.0650	$0.0353	Block 2	$0.0830	$0.0450

Line		Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
12																						
13	Use per	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Month	Base	COG /		Base	COG /		Base	COG /		Base	COG /									
14	(therms)	Rates	LDAC	TOTAL	Rates	LDAC	TOTAL	Rates	LDAC	TOTAL	Rates	LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
15																					
16	1,000	$826	$527	$1,353	$797	$426	$1,223	$868	$557	$1,425	$830	$429	$1,259	$71.20	5.3%	$36.08	3.0%	$1.3534	$1.2231	$1.4246	$1.2592
17	2,500	$924	$1,318	$2,242	$850	$1,066	$1,916	$993	$1,391	$2,384	$898	$1,073	$1,970	$142.41	6.4%	$54.62	2.9%	$0.8966	$0.7662	$0.9536	$0.7881
18	5,000	$1,087	$2,635	$3,722	$938	$2,132	$3,070	$1,200	$2,783	$3,983	$1,010	$2,145	$3,155	$261.10	7.0%	$85.52	2.8%	$0.7443	$0.6140	$0.7965	$0.6311
19	7,500	$1,249	$3,953	$5,202	$1,026	$3,198	$4,224	$1,408	$4,174	$5,582	$1,123	$3,218	$4,340	$379.79	7.3%	$116.42	2.8%	$0.6936	$0.5632	$0.7442	$0.5787
20	10,000	$1,412	$5,270	$6,682	$1,114	$4,264	$5,378	$1,615	$5,565	$7,180	$1,235	$4,290	$5,525	$498.47	7.5%	$147.32	2.7%	$0.6682	$0.5378	$0.7180	$0.5525
21	12,500	$1,574	$6,588	$8,162	$1,202	$5,330	$6,532	$1,823	$6,957	$8,779	$1,348	$5,363	$6,711	$617.16	7.6%	$178.22	2.7%	$0.6530	$0.5226	$0.7023	$0.5368
22	15,000	$1,737	$7,905	$9,642	$1,291	$6,396	$7,687	$2,030	$8,348	$10,378	$1,460	$6,435	$7,896	$735.85	7.6%	$209.12	2.7%	$0.6428	$0.5124	$0.6919	$0.5264
23	20,000	$2,062	$10,540	$12,602	$1,467	$8,528	$9,995	$2,445	$11,131	$13,576	$1,685	$8,581	$10,266	$973.22	7.7%	$270.91	2.7%	$0.6301	$0.4997	$0.6788	$0.5133
24	25,000	$2,388	$13,175	$15,563	$1,643	$10,660	$12,303	$2,860	$13,913	$16,773	$1,910	$10,726	$12,636	$1,210.59	7.8%	$332.71	2.7%	$0.6225	$0.4921	$0.6709	$0.5054
25	30,000	$2,713	$15,810	$18,523	$1,820	$12,792	$14,612	$3,275	$16,696	$19,971	$2,135	$12,871	$15,006	$1,447.96	7.8%	$394.51	2.7%	$0.6174	$0.4871	$0.6657	$0.5002
26	35,000	$3,038	$18,445	$21,483	$1,996	$14,924	$16,920	$3,690	$19,478	$23,168	$2,360	$15,016	$17,376	$1,685.34	7.8%	$456.31	2.7%	$0.6138	$0.4834	$0.6620	$0.4965
27	40,000	$3,363	$21,080	$24,443	$2,172	$17,056	$19,228	$4,105	$22,261	$26,366	$2,586	$17,161	$19,747	$1,922.71	7.9%	$518.10	2.7%	$0.6111	$0.4807	$0.6591	$0.4937
28	45,000	$3,688	$23,715	$27,403	$2,349	$19,188	$21,537	$4,520	$25,044	$29,564	$2,811	$19,306	$22,117	$2,160.08	7.9%	$579.90	2.7%	$0.6090	$0.4786	$0.6570	$0.4915
29	50,000	$4,014	$26,350	$30,364	$2,525	$21,320	$23,845	$4,935	$27,826	$32,761	$3,036	$21,451	$24,487	$2,397.46	7.9%	$641.70	2.7%	$0.6073	$0.4769	$0.6552	$0.4897
30	55,000	$4,339	$28,985	$33,324	$2,702	$23,452	$26,154	$5,350	$30,609	$35,959	$3,261	$23,596	$26,857	$2,634.83	7.9%	$703.50	2.7%	$0.6059	$0.4755	$0.6538	$0.4883
31	60,000	$4,664	$31,620	$36,284	$2,878	$25,584	$28,462	$5,765	$33,392	$39,156	$3,486	$25,742	$29,227	$2,872.20	7.9%	$765.29	2.7%	$0.6047	$0.4744	$0.6526	$0.4871
32	75,000	$5,640	$39,525	$45,165	$3,407	$31,980	$35,387	$7,010	$41,739	$48,749	$4,161	$32,177	$36,338	$3,584.32	7.9%	$950.68	2.7%	$0.6022	$0.4718	$0.6500	$0.4845
33	100,000	$7,266	$52,700	$59,966	$4,289	$42,640	$46,929	$9,085	$55,653	$64,737	$5,286	$42,903	$48,189	$4,771.19	8.0%	$1,259.67	2.7%	$0.5997	$0.4693	$0.6474	$0.4819
34	150,000	$10,518	$79,050	$89,568	$6,053	$63,960	$70,013	$13,234	$83,479	$96,713	$7,537	$64,354	$71,890	$7,144.92	8.0%	$1,877.64	2.7%	$0.5971	$0.4668	$0.6448	$0.4793
35	200,000	$13,771	$105,400	$119,171	$7,817	$85,280	$93,097	$17,384	$111,305	$128,689	$9,787	$85,805	$95,592	$9,518.66	8.0%	$2,495.62	2.7%	$0.5959	$0.4655	$0.6434	$0.4780
36																					

Estimated Bill Percentiles

Line			Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	$	%	$	%	Winter	Summer	Winter	Summer
38	Winter - 25%	4,000	$1,022	$2,108	$3,130				$1,117	$2,226	$3,343				$213.62	6.8%			$0.7824		$0.8358	
39	Winter - 50%	30,000	$2,713	$15,810	$18,523				$3,275	$16,696	$19,971				$1,447.96	7.8%			$0.6174		$0.6657	
40	Winter - 75%	100,000	$7,266	$52,700	$59,966				$9,085	$55,653	$64,737				$4,771.19	8.0%			$0.5997		$0.6474	
41	Summer - 25%	15,000				$1,291	$6,396	$7,687				$1,460	$6,435	$7,896			$209.12	2.7%		$0.5124		$0.5264
42	Summer - 50%	50,000				$2,525	$21,320	$23,845				$3,036	$21,451	$24,487			$641.70	2.7%		$0.4769		$0.4897
43	Summer - 75%	80,000				$3,583	$34,112	$37,695				$4,386	$34,322	$38,708			$1,012.48	2.7%		$0.4712		$0.4838

Estimated Bill Percentiles per 2010 MCS

II-508R

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

1 **Winter Season (Jan. - Apr., Nov. - Dec.)** | **Summer Season (May - Oct.)**
2 **Residential Non-Heating (R1)**
3 **PROPOSED**

	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter		May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
5 average Usage (Therms)	20	26	27	26	23	19	140		14	11	9	9	11	13	69	209
7 **Winter:**																
8 Cust. Chg	$15.98	$15.98	$15.98	$15.98	$15.98	$15.98	$95.88									
9 Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00									
10 Tailblock	$8.01	$10.45	$11.11	$10.63	$9.36	$7.63	$57.18									
11 HB Threshold																
13 **Summer:**																
14 Cust. Chg									$15.98	$15.98	$15.98	$15.98	$15.98	$15.98	$95.88	$191.76
15 Headblock									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
16 Tailblock									$5.90	$4.66	$3.78	$3.87	$4.31	$5.46	$27.97	$85.15
17 HB Threshold																
19 Total Base Rate Amount	$23.98	$26.43	$27.09	$26.61	$25.34	$23.61	$153.06		$21.88	$20.64	$19.76	$19.85	$20.29	$21.44	$123.85	$276.91
21 COG Rate - (Winter)	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031									
22 COG amount - Winter	$9.88	$12.89	$13.70	$13.12	$11.54	$9.41	$70.54									
24 COG Rate - (Summer)									$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.4607
25 COG amount - Summer									$5.41	$4.27	$3.46	$3.55	$3.95	$5.00	$25.65	$96.19
27 LDAC	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311		$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311
28 LDAC amount	$0.61	$0.80	$0.85	$0.81	$0.71	$0.58	$4.36		$0.45	$0.36	$0.29	$0.30	$0.33	$0.42	$2.13	$6.50
30 **Total Bill**	**$34.47**	**$40.12**	**$41.64**	**$40.54**	**$37.59**	**$33.59**	**$227.96**		**$27.75**	**$25.26**	**$23.51**	**$23.69**	**$24.57**	**$26.85**	**$151.63**	**$379.60**

31 **Winter Season (Jan. - Apr., Nov. - Dec.)** | **Summer Season (May - Oct.)**
32 **Residential Non-Heating (R1)**
33 **CURRENT**

	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter		May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
35 average Usage (Therms)	20	26	27	26	23	19	140		14	11	9	9	11	13	69	209
37 **Winter:**																
38 Cust. Chg	$15.50	$15.50	$15.50	$15.50	$15.50	$15.50	$92.98									
39 Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00									
40 Tailblock	$7.58	$9.89	$10.51	$10.07	$8.86	$7.22	$54.12									
41 HB Threshold																
43 **Summer:**																
44 Cust. Chg									$15.50	$15.50	$15.50	$15.50	$15.50	$15.50	$92.98	$185.96
45 Headblock									$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
46 Tailblock									$5.59	$4.41	$3.58	$3.66	$4.08	$5.16	$26.47	$80.60
47 HB Threshold																
49 Total Base Rate Amount	$23.07	$25.39	$26.01	$25.56	$24.35	$22.71	$147.10		$21.08	$19.91	$19.07	$19.16	$19.58	$20.66	$119.45	$266.56
51 COG Rate - (Winter)	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737									
52 COG amount - Winter	$9.30	$12.14	$12.90	$12.35	$10.87	$8.86	$66.42									
54 COG Rate - (Summer)									$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.4401
55 COG amount - Summer									$5.38	$4.24	$3.44	$3.52	$3.93	$4.97	$25.48	$91.90
57 LDAC	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310		$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310
58 LDAC amount	$0.61	$0.79	$0.84	$0.81	$0.71	$0.58	$4.35		$0.45	$0.35	$0.29	$0.29	$0.33	$0.41	$2.13	$6.47
60 **Total Bill**	**$32.98**	**$38.32**	**$39.76**	**$38.72**	**$35.93**	**$32.15**	**$217.87**		**$26.91**	**$24.50**	**$22.80**	**$22.97**	**$23.83**	**$26.04**	**$147.06**	**$364.93**
62 **DIFFERENCE:**																
63 **Total Bill**	**$1.49**	**$1.80**	**$1.88**	**$1.82**	**$1.66**	**$1.44**	**$10.10**		**$0.84**	**$0.76**	**$0.71**	**$0.71**	**$0.74**	**$0.81**	**$4.57**	**$14.67**
64 % Change	**4.52%**	**4.69%**	**4.73%**	**4.70%**	**4.62%**	**4.49%**	**4.63%**		**3.11%**	**3.11%**	**3.11%**	**3.11%**	**3.11%**	**3.11%**	**3.11%**	**4.02%**
66 **Base Rate**	$0.91	$1.04	$1.08	$1.05	$0.98	$0.89	$5.96		$0.80	$0.73	$0.68	$0.69	$0.71	$0.77	$4.39	$10.35
67 % Change	3.95%	4.10%	4.14%	4.11%	4.04%	3.92%	4.05%		3.79%	3.68%	3.59%	3.60%	3.64%	3.75%	3.68%	3.88%
69 **COG & LDAC**	$0.58	$0.76	$0.80	$0.77	$0.68	$0.55	$4.14		$0.04	$0.03	$0.02	$0.02	$0.03	$0.04	$0.18	$4.32
70 % Change	5.85%	5.85%	5.85%	5.85%	5.85%	5.85%	5.85%		0.65%	0.65%	0.65%	0.65%	0.65%	0.65%	0.65%	4.39%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Line No		**Winter Season (Jan. - Apr., Nov. - Dec.)**							**Summer Season (May - Oct.)**							
71	**Winter Season (Jan. - Apr., Nov. - Dec.)**															
72	**Residential Heating (R3)**															
73	**PROPOSED**															
74		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
75	average Usage (Therms)	83	122	145	139	105	62	657	33	18	13	14	18	38	134	791
76																
77	**Winter:**															
78	Cust. Chg	$15.98	$15.98	$15.98	$15.98	$15.98	$15.98	$95.88								
79	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
80	Tailblock	$47.14	$69.01	$82.30	$78.41	$59.67	$35.35	$371.88								
81	HB Threshold															
82																
83	**Summer:**															
84	Cust. Chg								$15.98	$15.98	$15.98	$15.98	$15.98	$15.98	$95.88	$191.76
85	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
86	Tailblock								$18.73	$10.11	$7.58	$7.71	$10.01	$21.76	$75.90	$447.78
87	HB Threshold															
88																
89	Total Base Rate Amount	$63.12	$84.99	$98.28	$94.39	$75.65	$51.33	$467.76	$34.71	$26.09	$23.56	$23.69	$25.99	$37.74	$171.77	$639.53
90																
91	COG Rate - (Winter)	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031								
92	COG amount - Winter	$41.89	$61.34	$73.14	$69.69	$53.03	$31.42	$330.52								
93																
94	COG Rate - (Summer)								$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.4812
95	COG amount - Summer								$12.38	$6.68	$5.01	$5.10	$6.61	$14.38	$50.14	$380.67
96																
97	LDAC	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311
98	LDAC amount	$2.59	$3.79	$4.53	$4.31	$3.28	$1.94	$20.45	$1.03	$0.56	$0.42	$0.42	$0.55	$1.20	$4.17	$24.62
99																
100	**Total Bill**	**$107.60**	**$150.13**	**$175.95**	**$168.40**	**$131.96**	**$84.69**	**$818.73**	**$48.12**	**$33.32**	**$28.98**	**$29.21**	**$33.15**	**$53.31**	**$226.09**	**$1,044.82**
101	**Winter Season (Jan. - Apr., Nov. - Dec.)**								**Summer Season (May - Oct.)**							
102	**Residential Heating (R3)**															
103	**CURRENT**															
104		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
105	average Usage (Therms)	83	122	145	139	105	62	657	33	18	13	14	18	38	134	791
106																
107	**Winter:**															
108	Cust. Chg	$15.50	$15.50	$15.50	$15.50	$15.50	$15.50	$92.98								
109	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
110	Tailblock	$47.28	$69.22	$82.55	$78.65	$59.85	$35.46	$373.01								
111	HB Threshold															
112																
113	**Summer:**															
114	Cust. Chg								$15.50	$15.50	$15.50	$15.50	$15.50	$15.50	$92.98	$185.96
115	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
116	Tailblock								$18.79	$10.14	$7.60	$7.74	$10.04	$21.83	$76.13	$449.14
117	HB Threshold															
118																
119	Total Base Rate Amount	$62.78	$84.72	$98.04	$94.15	$75.35	$50.96	$465.99	$34.28	$25.64	$23.10	$23.23	$25.54	$37.32	$169.11	$635.10
120																
121	COG Rate - (Winter)	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737								
122	COG amount - Winter	$39.45	$57.75	$68.87	$65.62	$49.93	$29.58	$311.21								
123																
124	COG Rate - (Summer)								$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.4564
125	COG amount - Summer								$12.29	$6.63	$4.97	$5.06	$6.57	$14.28	$49.81	$361.02
126																
127	LDAC	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310
128	LDAC amount	$2.58	$3.78	$4.51	$4.29	$3.27	$1.94	$20.37	$1.03	$0.55	$0.41	$0.42	$0.55	$1.19	$4.16	$24.52
129																
130	**Total Bill**	**$104.80**	**$146.25**	**$171.42**	**$164.06**	**$128.55**	**$82.47**	**$797.56**	**$47.60**	**$32.82**	**$28.48**	**$28.72**	**$32.65**	**$52.79**	**$223.07**	**$1,020.64**
131																
132	**DIFFERENCE:**															
133	**Total Bill**	**$2.80**	**$3.87**	**$4.53**	**$4.33**	**$3.41**	**$2.22**	**$21.17**	**$0.51**	**$0.50**	**$0.50**	**$0.50**	**$0.50**	**$0.52**	**$3.02**	**$24.18**
134	% Change	**2.67%**	**2.65%**	**2.64%**	**2.64%**	**2.66%**	**2.69%**	**2.65%**	**1.08%**	**1.52%**	**1.74%**	**1.72%**	**1.53%**	**0.98%**	**1.35%**	**2.37%**
135																
136	**Base Rate**	$0.34	$0.27	$0.23	$0.24	$0.30	$0.38	$1.77	$0.43	$0.45	$0.46	$0.46	$0.45	$0.42	$2.67	$4.44
137	% Change	0.54%	0.32%	0.24%	0.26%	0.40%	0.74%	0.38%	1.24%	1.76%	1.99%	1.98%	1.77%	1.12%	1.58%	0.70%
138																
139	**COG & LDAC**	$2.46	$3.60	$4.29	$4.09	$3.11	$1.84	$19.40	$0.09	$0.05	$0.04	$0.04	$0.05	$0.10	$0.35	$19.75
140	% Change	5.85%	5.85%	5.85%	5.85%	5.85%	5.85%	5.85%	0.65%	0.65%	0.65%	0.65%	0.65%	0.65%	0.65%	5.12%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Line No		Winter Season (Jan. - Apr., Nov. - Dec.)							Summer Season (May - Oct.)							
141	**Winter Season (Jan. - Apr., Nov. - Dec.)**								**Summer Season (May - Oct.)**							
142	**Low Income Residential Heating (R4)**															
143	**PROPOSED**															
144		**Nov-20**	**Dec-20**	**Jan-21**	**Feb-21**	**Mar-21**	**Apr-21**	**Winter**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**	**Oct-21**	**Summer**	**Total**
145	average Usage (Therms)	81	118	140	133	103	62	636	33	18	14	14	18	38	134	770
146																
147	**Winter:**															
148	Cust. Chg	$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$38.35								
149	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
150	Tailblock	$18.23	$26.70	$31.80	$30.11	$23.22	$13.97	$144.03								
151	HB Threshold															
152																
153	**Summer:**															
154	Cust. Chg								$6.39	$6.39	$6.39	$6.39	$6.39	$6.39	$38.35	$76.70
155	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
156	Tailblock								$7.43	$4.17	$3.13	$3.18	$3.99	$8.50	$30.40	$174.43
157	HB Threshold															
158																
159	Total Base Rate Amount	$24.62	$33.09	$38.19	$36.50	$29.61	$20.36	$182.39	$13.82	$10.56	$9.52	$9.57	$10.39	$14.89	$68.75	$251.14
160																
161	COG Rate - (Winter)	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031	$0.5031								
162	COG amount - Winter	$40.51	$59.33	$70.66	$66.90	$51.60	$31.04	$320.04								
163																
164	COG Rate - (Summer)								$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.3740	$0.4806
165	COG amount - Summer								$12.28	$6.88	$5.17	$5.25	$6.60	$14.04	$50.21	$370.25
166																
167	LDAC	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311	$0.0311
168	LDAC amount	$2.51	$3.67	$4.37	$4.14	$3.19	$1.92	$19.80	$1.02	$0.57	$0.43	$0.44	$0.55	$1.17	$4.18	$23.98
169																
170	**Total Bill**	**$67.64**	**$96.09**	**$113.23**	**$107.54**	**$84.40**	**$53.32**	**$522.22**	**$27.12**	**$18.02**	**$15.12**	**$15.26**	**$17.53**	**$30.10**	**$123.15**	**$645.37**
171	**Winter Season (Jan. - Apr., Nov. - Dec.)**								**Summer Season (May - Oct.)**							
172	**Low Income Residential Heating (R4)**															
173	**CURRENT**															
174		**Nov-20**	**Dec-20**	**Jan-21**	**Feb-21**	**Mar-21**	**Apr-21**	**Winter**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**	**Oct-21**	**Summer**	**Total**
175	average Usage (Therms)	81	118	140	133	103	62	636	33	18	14	14	18	38	134	770
176																
177	**Winter:**															
178	Cust. Chg	$6.20	$6.20	$6.20	$6.20	$6.20	$6.20	$37.19								
179	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
180	Tailblock	$18.29	$26.79	$31.90	$30.20	$23.30	$14.01	$144.50								
181	HB Threshold															
182																
183	**Summer:**															
184	Cust. Chg								$6.20	$6.20	$6.20	$6.20	$6.20	$6.20	$37.19	$74.38
185	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
186	Tailblock								$7.46	$4.18	$3.14	$3.19	$4.01	$8.53	$30.50	$175.00
187	HB Threshold															
188																
189	Total Base Rate Amount	$24.49	$32.99	$38.10	$36.40	$29.50	$20.21	$181.69	$13.65	$10.38	$9.34	$9.39	$10.20	$14.72	$67.69	$249.38
190																
191	COG Rate - (Winter)	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737	$0.4737								
192	COG amount - Winter	$38.14	$55.86	$66.53	$62.99	$48.58	$29.23	$301.33								
193																
194	COG Rate - (Summer)								$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.3715	$0.4559
195	COG amount - Summer								$12.19	$6.84	$5.14	$5.22	$6.55	$13.94	$49.88	$351.21
196																
197	LDAC	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310	$0.0310
198	LDAC amount	$2.50	$3.66	$4.35	$4.12	$3.18	$1.91	$19.72	$1.02	$0.57	$0.43	$0.44	$0.55	$1.16	$4.16	$23.88
199																
200	**Total Bill**	**$65.12**	**$92.50**	**$108.99**	**$103.51**	**$81.26**	**$51.35**	**$502.74**	**$26.87**	**$17.79**	**$14.90**	**$15.04**	**$17.30**	**$29.83**	**$121.73**	**$624.48**
201																
202	**DIFFERENCE:**															
203	**Total Bill**	**$2.51**	**$3.59**	**$4.24**	**$4.02**	**$3.15**	**$1.97**	**$19.48**	**$0.26**	**$0.23**	**$0.22**	**$0.22**	**$0.23**	**$0.26**	**$1.41**	**$20.89**
204	% Change	**3.86%**	**3.88%**	**3.89%**	**3.89%**	**3.87%**	**3.84%**	**3.87%**	**0.95%**	**1.28%**	**1.47%**	**1.46%**	**1.31%**	**0.89%**	**1.16%**	**3.35%**
205																
206	**Base Rate**	$0.13	$0.11	$0.09	$0.10	$0.12	$0.15	$0.70	$0.17	$0.18	$0.18	$0.18	$0.18	$0.17	$1.06	$1.76
207	% Change	0.55%	0.33%	0.24%	0.26%	0.40%	0.73%	0.38%	1.24%	1.73%	1.96%	1.95%	1.77%	1.13%	1.57%	0.70%
208																
209	**COG & LDAC**	$2.38	$3.48	$4.15	$3.93	$3.03	$1.82	$18.78	$0.09	$0.05	$0.04	$0.04	$0.05	$0.10	$0.35	$19.13
210	% Change	5.85%	5.85%	5.85%	5.85%	5.85%	5.85%	5.85%	0.65%	0.65%	0.65%	0.65%	0.65%	0.65%	0.65%	5.10%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Line No

211 Winter Season (Jan. - Apr., Nov. - Dec.)   Summer Season (May - Oct.)
212 Commercial/Industrial - Low Annual Use, High Winter Use (G-41)

213 PROPOSED

Line		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
215	average Usage (Therms)	272	423	521	496	364	196	2,273	91	39	26	26	40	108	330	2,603
216																
217	Winter:															
218	Cust. Chg	$59.25	$59.25	$59.25	$59.25	$59.25	$59.25	$355.51								
219	Headblock	$49.85	$49.85	$49.85	$49.85	$49.85	$49.85	$299.08								
220	Tailblock	$57.65	$108.13	$141.10	$132.57	$88.53	$32.11	$560.08								
221	HB Threshold															
222																
223	Summer:															
224	Cust. Chg								$59.25	$59.25	$59.25	$59.25	$59.25	$59.25	$355.51	$711.01
225	Headblock								$9.97	$9.97	$9.97	$9.97	$9.97	$9.97	$59.82	$358.90
226	Tailblock								$23.69	$6.38	$1.90	$2.17	$6.65	$29.44	$70.24	$630.32
227	HB Threshold															
228																
229	Total Base Rate Amount	$166.75	$217.23	$250.20	$241.66	$197.63	$141.21	$1,214.67	$92.91	$75.60	$71.12	$71.39	$75.87	$98.66	$485.56	$1,700.23
230																
231	COG Rate - (Winter)	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018								
232	COG amount - Winter	$136.58	$212.23	$261.65	$248.85	$182.85	$98.30	$1,140.46								
233																
234	COG Rate - (Summer)								$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.4850
235	COG amount - Summer								$33.53	$14.43	$9.49	$9.78	$14.73	$39.87	$121.82	$1,262.28
236																
237	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
238	LDAC amount	$13.04	$20.27	$24.99	$23.77	$17.46	$9.39	$108.92	$4.35	$1.87	$1.23	$1.27	$1.91	$5.17	$15.80	$124.73
239																
240	Total Bill	$316.37	$449.72	$536.84	$514.29	$397.94	$248.89	$2,464.05	$130.79	$91.90	$81.84	$82.44	$92.51	$143.70	$623.18	$3,087.23

241 Winter Season (Jan. - Apr., Nov. - Dec.)   Summer Season (May - Oct.)
242 Commercial/Industrial - Low Annual Use, High Winter Use (G-41)

243 CURRENT

Line		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
245	average Usage (Therms)	272	423	521	496	364	196	2,273	91	39	26	26	40	108	330	2,603
246																
247	Winter:															
248	Cust. Chg	$57.46	$57.46	$57.46	$57.46	$57.46	$57.46	$344.76								
249	Headblock	$47.11	$47.11	$47.11	$47.11	$47.11	$47.11	$282.67								
250	Tailblock	$54.49	$102.20	$133.36	$125.29	$83.67	$30.35	$529.36								
251	HB Threshold															
252																
253	Summer:															
254	Cust. Chg								$57.46	$57.46	$57.46	$57.46	$57.46	$57.46	$344.76	$689.53
255	Headblock								$9.42	$9.42	$9.42	$9.42	$9.42	$9.42	$56.53	$339.21
256	Tailblock								$22.39	$6.03	$1.80	$2.05	$6.29	$27.82	$66.38	$595.74
257	HB Threshold															
258																
259	Total Base Rate Amount	$159.06	$206.77	$237.94	$229.87	$188.24	$134.92	$1,156.80	$89.28	$72.91	$68.68	$68.93	$73.17	$94.71	$467.68	$1,624.48
260																
261	COG Rate - (Winter)	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724								
262	COG amount - Winter	$128.58	$199.79	$246.32	$234.27	$172.14	$92.54	$1,073.64								
263																
264	COG Rate - (Summer)								$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.4590
265	COG amount - Summer								$33.30	$14.33	$9.42	$9.72	$14.63	$39.60	$120.99	$1,194.63
266																
267	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
268	LDAC amount	$13.01	$20.22	$24.92	$23.71	$17.42	$9.36	$108.64	$4.34	$1.87	$1.23	$1.27	$1.91	$5.16	$15.76	$124.40
269																
270	Total Bill	$300.65	$426.78	$509.18	$487.85	$377.80	$236.82	$2,339.08	$126.91	$89.11	$79.33	$79.91	$89.70	$139.46	$604.44	$2,943.51
271																
272	DIFFERENCE:															
273	Total Bill	$15.72	$22.94	$27.66	$26.44	$20.14	$12.07	$124.98	$3.88	$2.79	$2.51	$2.53	$2.81	$4.24	$18.74	$143.72
274	% Change	5.23%	5.38%	5.43%	5.42%	5.33%	5.10%	5.34%	3.05%	3.13%	3.16%	3.16%	3.13%	3.04%	3.10%	4.88%
275																
276	Base Rate	$7.69	$10.46	$12.27	$11.80	$9.38	$6.29	$57.88	$3.64	$2.69	$2.44	$2.46	$2.70	$3.95	$17.88	$75.75
277	% Change	4.83%	5.06%	5.16%	5.13%	4.98%	4.66%	5.00%	4.07%	3.69%	3.56%	3.56%	3.69%	4.17%	3.82%	4.66%
278																
279	COG & LDAC	$8.04	$12.49	$15.39	$14.64	$10.76	$5.78	$67.10	$0.24	$0.10	$0.07	$0.07	$0.10	$0.28	$0.87	$67.97
280	% Change	5.68%	5.68%	5.68%	5.68%	5.68%	5.68%	5.68%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	5.15%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Line No																
281	**Winter Season (Jan. - Apr., Nov. - Dec.)**							**Summer Season (May - Oct.)**							
282	**Commercial/Industrial - Medium Annual Use, High Winter Use (G-42)**															
283	**PROPOSED**															
284		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
285	average Usage (Therms)	2,568	3,796	4,442	4,284	3,296	2,004	20,390	1,039	507	350	368	548	1,203	4,014	24,404
286																
287	**Winter:**															
288	Cust. Chg	$177.76	$177.76	$177.76	$177.76	$177.76	$177.76	$1,066.58								
289	Headblock	$455.33	$455.33	$455.33	$455.33	$455.33	$455.33	$2,731.98								
290	Tailblock	$475.66	$848.44	$1,044.47	$996.29	$696.50	$304.77	$4,366.13								
291	HB Threshold															
292																
293	**Summer:**															
294	Cust. Chg								$177.76	$177.76	$177.76	$177.76	$177.76	$177.76	$1,066.58	$2,133.17
295	Headblock								$182.13	$182.13	$159.15	$167.66	$182.13	$182.13	$1,055.35	$3,787.33
296	Tailblock								$193.90	$32.36	$0.00	$0.00	$44.76	$243.62	$514.64	$4,880.77
297	HB Threshold															
298																
299	Total Base Rate Amount	$1,108.76	$1,481.53	$1,677.57	$1,629.38	$1,329.59	$937.87	$8,164.69	$553.79	$392.25	$336.92	$345.43	$404.66	$603.52	$2,636.57	$10,801.26
300																
301	COG Rate - (Winter)	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018								
302	COG amount - Winter	$1,288.49	$1,905.01	$2,229.22	$2,149.53	$1,653.71	$1,005.86	$10,231.83								
303																
304	COG Rate - (Summer)								$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.4800
305	COG amount - Summer								$383.83	$187.15	$129.12	$136.02	$202.26	$444.37	$1,482.75	$11,714.58
306																
307	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
308	LDAC amount	$123.06	$181.94	$212.90	$205.29	$157.94	$96.07	$977.20	$49.80	$24.28	$16.75	$17.65	$26.24	$57.65	$192.37	$1,169.57
309																
310	**Total Bill**	**$2,520.30**	**$3,568.49**	**$4,119.69**	**$3,984.20**	**$3,141.24**	**$2,039.79**	**$19,373.72**	**$987.42**	**$603.69**	**$482.79**	**$499.10**	**$633.15**	**$1,105.55**	**$4,311.69**	**$23,685.41**

Line No																
311	**Winter Season (Jan. - Apr., Nov. - Dec.)**							**Summer Season (May - Oct.)**							
312	**Commercial/Industrial - Medium Annual Use, High Winter Use (G-42)**															
313	**CURRENT**															
314		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
315	average Usage (Therms)	2,568	3,796	4,442	4,284	3,296	2,004	20,390	1,039	507	350	368	548	1,203	4,014	24,404
316																
317	**Winter:**															
318	Cust. Chg	$172.39	$172.39	$172.39	$172.39	$172.39	$172.39	$1,034.35								
319	Headblock	$428.41	$428.41	$428.41	$428.41	$428.41	$428.41	$2,570.44								
320	Tailblock	$447.54	$798.27	$982.71	$937.37	$655.31	$286.75	$4,107.96								
321	HB Threshold															
322																
323	**Summer:**															
324	Cust. Chg								$172.39	$172.39	$172.39	$172.39	$172.39	$172.39	$1,034.35	$2,068.71
325	Headblock								$171.36	$171.36	$149.74	$157.75	$171.36	$171.36	$992.94	$3,563.38
326	Tailblock								$182.43	$30.44	$0.00	$0.00	$42.11	$229.22	$484.21	$4,592.17
327	HB Threshold															
328																
329	Total Base Rate Amount	$1,048.33	$1,399.07	$1,583.51	$1,538.17	$1,256.11	$887.55	$7,712.75	$526.19	$374.20	$322.13	$330.14	$385.87	$572.97	$2,511.50	$10,224.25
330																
331	COG Rate - (Winter)	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724								
332	COG amount - Winter	$1,212.99	$1,793.40	$2,098.62	$2,023.59	$1,556.83	$946.93	$9,632.35								
333																
334	COG Rate - (Summer)								$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.4550
335	COG amount - Summer								$381.23	$185.89	$128.24	$135.10	$200.89	$441.37	$1,472.72	$11,105.07
336																
337	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
338	LDAC amount	$122.74	$181.47	$212.35	$204.76	$157.53	$95.82	$974.65	$49.67	$24.22	$16.71	$17.60	$26.17	$57.50	$191.87	$1,166.52
339																
340	**Total Bill**	**$2,384.07**	**$3,373.93**	**$3,894.47**	**$3,766.52**	**$2,970.46**	**$1,930.29**	**$18,319.75**	**$957.09**	**$584.30**	**$467.09**	**$482.85**	**$612.93**	**$1,071.84**	**$4,176.09**	**$22,495.84**
341																
342	**DIFFERENCE:**															
343	**Total Bill**	**$136.23**	**$194.55**	**$225.22**	**$217.68**	**$170.78**	**$109.50**	**$1,053.97**	**$30.33**	**$19.38**	**$15.70**	**$16.25**	**$20.23**	**$33.70**	**$135.60**	**$1,189.57**
344	% Change	**5.71%**	**5.77%**	**5.78%**	**5.78%**	**5.75%**	**5.67%**	**5.75%**	**3.17%**	**3.32%**	**3.36%**	**3.37%**	**3.30%**	**3.14%**	**3.25%**	**5.29%**
345																
346	**Base Rate**	$60.42	$82.46	$94.06	$91.21	$73.48	$50.32	$451.95	$27.61	$18.05	$14.78	$15.29	$18.79	$30.55	$125.07	$577.01
347	% Change	5.76%	5.89%	5.94%	5.93%	5.85%	5.67%	5.86%	5.25%	4.82%	4.59%	4.63%	4.87%	5.33%	4.98%	5.64%
348																
349	**COG & LDAC**	$75.81	$112.09	$131.16	$126.47	$97.30	$59.18	$602.02	$2.73	$1.33	$0.92	$0.97	$1.44	$3.16	$10.54	$612.56
350	% Change	5.68%	5.68%	5.68%	5.68%	5.68%	5.68%	5.68%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	4.99%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

351 Winter Season (Jan. - Apr., Nov. - Dec.) — **Summer Season (May - Oct.)**

352 Commercial/Industrial - High Annual Use, High Winter Use (G-43)

353 PROPOSED

Line		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
355	average Usage (Therms)	23,661	31,955	31,276	29,903	24,765	17,078	158,638	11,030	6,524	5,278	6,059	7,044	12,595	48,531	207,169
357	**Winter:**															
358	Cust. Chg	$762.89	$762.89	$762.89	$762.89	$762.89	$762.89	$4,577.32								
359	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
360	Tailblock	$6,713.01	$9,066.16	$8,873.42	$8,483.80	$7,026.20	$4,845.28	$45,007.88								
361	HB Threshold															
363	**Summer:**															
364	Cust. Chg								$762.89	$762.89	$762.89	$762.89	$762.89	$762.89	$4,577.32	$9,154.65
365	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
366	Tailblock								$1,430.77	$846.34	$684.67	$786.00	$913.81	$1,633.84	$6,295.43	$51,303.31
367	HB Threshold															
369	Total Base Rate Amount	$7,475.90	$9,829.04	$9,636.31	$9,246.69	$7,789.09	$5,608.17	$49,585.20	$2,193.66	$1,609.23	$1,447.56	$1,548.89	$1,676.70	$2,396.72	$10,872.75	$60,457.96
371	COG Rate - (Winter)	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018	$0.5018								
372	COG amount - Winter	$11,873.16	$16,035.11	$15,694.22	$15,005.12	$12,427.09	$8,569.75	$79,604.44								
374	COG Rate - (Summer)								$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.3694	$0.4708
375	COG amount - Summer								$4,074.36	$2,410.09	$1,949.72	$2,238.27	$2,602.23	$4,652.63	$17,927.30	$97,531.74
377	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
378	LDAC amount	$1,133.96	$1,531.45	$1,498.90	$1,433.08	$1,186.86	$818.46	$7,602.72	$528.60	$312.68	$252.95	$290.39	$337.61	$603.62	$2,325.84	$9,928.56
380	**Total Bill**	$20,483.02	$27,395.61	$26,829.43	$25,684.89	$21,403.04	$14,996.38	$136,792.37	$6,796.61	$4,332.00	$3,650.24	$4,077.55	$4,616.53	$7,652.97	$31,125.89	$167,918.26

381 Winter Season (Jan. - Apr., Nov. - Dec.) — **Summer Season (May - Oct.)**

382 Commercial/Industrial - High Annual Use, High Winter Use (G-43)

383 CURRENT

Line		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
385	average Usage (Therms)	23,661	31,955	31,276	29,903	24,765	17,078	158,638	11,030	6,524	5,278	6,059	7,044	12,595	48,531	207,169
387	**Winter:**															
388	Cust. Chg	$739.83	$739.83	$739.83	$739.83	$739.83	$739.83	$4,439.00								
389	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
390	Tailblock	$6,231.03	$8,415.22	$8,236.32	$7,874.68	$6,521.73	$4,497.40	$41,776.36								
391	HB Threshold															
393	**Summer:**															
394	Cust. Chg								$739.83	$739.83	$739.83	$739.83	$739.83	$739.83	$4,439.00	$8,878.01
395	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
396	Tailblock								$1,328.04	$785.57	$635.51	$729.57	$848.20	$1,516.53	$5,843.42	$47,619.78
397	HB Threshold															
399	Total Base Rate Amount	$6,970.86	$9,155.05	$8,976.15	$8,614.51	$7,261.56	$5,237.23	$46,215.36	$2,067.87	$1,525.41	$1,375.35	$1,469.40	$1,588.03	$2,256.36	$10,282.43	$56,497.79
401	COG Rate - (Winter)	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724	$0.4724								
402	COG amount - Winter	$11,177.52	$15,095.63	$14,774.71	$14,125.98	$11,698.99	$8,067.65	$74,940.49								
404	COG Rate - (Summer)								$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.3669	$0.4477
405	COG amount - Summer								$4,046.78	$2,393.78	$1,936.53	$2,223.12	$2,584.62	$4,621.14	$17,805.97	$92,746.46
407	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
408	LDAC amount	$1,131.00	$1,527.46	$1,494.99	$1,429.34	$1,183.77	$816.33	$7,582.89	$527.22	$311.86	$252.29	$289.63	$336.73	$602.05	$2,319.77	$9,902.66
410	**Total Bill**	$19,279.38	$25,778.13	$25,245.85	$24,169.84	$20,144.32	$14,121.21	$128,738.74	$6,641.87	$4,231.05	$3,564.17	$3,982.15	$4,509.37	$7,479.55	$30,408.17	$159,146.91
412	**DIFFERENCE:**															
413	**Total Bill**	$1,203.64	$1,617.47	$1,583.58	$1,515.06	$1,258.72	$875.17	$8,053.63	$154.73	$100.95	$86.07	$95.39	$107.16	$173.42	$717.72	$8,771.35
414	% Change	6.24%	6.27%	6.27%	6.27%	6.25%	6.20%	6.26%	2.33%	2.39%	2.41%	2.40%	2.38%	2.32%	2.36%	5.51%
416	**Base Rate**	$505.04	$673.99	$660.16	$632.18	$527.53	$370.94	$3,369.84	$125.78	$83.82	$72.21	$79.49	$88.66	$140.36	$590.33	$3,960.17
417	% Change	7.25%	7.36%	7.35%	7.34%	7.26%	7.08%	7.29%	6.08%	5.49%	5.25%	5.41%	5.58%	6.22%	5.74%	7.01%
419	**COG & LDAC**	$698.60	$943.48	$923.42	$882.87	$731.19	$504.23	$4,683.78	$28.95	$17.13	$13.86	$15.91	$18.49	$33.06	$127.39	$4,811.18
420	% Change	5.68%	5.68%	5.68%	5.68%	5.68%	5.68%	5.68%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	0.63%	4.69%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Line No																
421	**Winter Season (Jan. - Apr., Nov. - Dec.)**							**Summer Season (May - Oct.)**							
422	**Commercial/Industrial - Low Annual Use, Low Winter Use (G-51)**															
423	**PROPOSED**															
424		**Nov-20**	**Dec-20**	**Jan-21**	**Feb-21**	**Mar-21**	**Apr-21**	**Winter**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**	**Oct-21**	**Summer**	**Total**
425	average Usage (Therms)	279	339	379	366	317	261	1,942	225	194	173	191	195	212	1,190	3,133
426																
427	**Winter:**															
428	Cust. Chg	$59.25	$59.25	$59.25	$59.25	$59.25	$59.25	$355.49								
429	Headblock	$31.05	$31.05	$31.05	$31.05	$31.05	$31.05	$186.31								
430	Tailblock	$36.21	$48.29	$56.42	$53.70	$43.84	$32.56	$271.03								
431	HB Threshold															
432																
433	**Summer:**															
434	Cust. Chg								$59.25	$59.25	$59.25	$59.25	$59.25	$59.25	$355.49	$710.97
435	Headblock								$31.05	$31.05	$31.05	$31.05	$31.05	$31.05	$186.31	$372.62
436	Tailblock								$25.22	$19.06	$14.74	$18.41	$19.22	$22.57	$119.21	$390.24
437	HB Threshold															
438																
439	Total Base Rate Amount	$126.51	$138.59	$146.72	$144.00	$134.14	$122.86	$812.82	$115.52	$109.36	$105.04	$108.71	$109.52	$112.86	$661.00	$1,473.82
440																
441	COG Rate - (Winter)	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086								
442	COG amount - Winter	$142.07	$172.49	$192.98	$186.13	$161.29	$132.88	$987.84								
443																
444	COG Rate - (Summer)								$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.4602
445	COG amount - Summer								$85.71	$74.08	$65.93	$72.85	$74.39	$80.70	$453.66	$1,441.50
446																
447	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
448	LDAC amount	$13.39	$16.25	$18.18	$17.54	$15.20	$12.52	$93.08	$10.78	$9.32	$8.29	$9.16	$9.36	$10.15	$57.05	$150.13
449																
450	**Total Bill**	**$281.97**	**$327.34**	**$357.88**	**$347.66**	**$310.62**	**$268.26**	**$1,893.74**	**$212.00**	**$192.76**	**$179.25**	**$190.72**	**$193.27**	**$203.71**	**$1,171.71**	**$3,065.45**

Line No																
451	**Winter Season (Jan. - Apr., Nov. - Dec.)**							**Summer Season (May - Oct.)**							
452	**Commercial/Industrial - Low Annual Use, Low Winter Use (G-51)**															
453	**CURRENT**															
454		**Nov-20**	**Dec-20**	**Jan-21**	**Feb-21**	**Mar-21**	**Apr-21**	**Winter**	**May-21**	**Jun-21**	**Jul-21**	**Aug-21**	**Sep-21**	**Oct-21**	**Summer**	**Total**
455	average Usage (Therms)	279	339	379	366	317	261	1,942	225	194	173	191	195	212	1,190	3,133
456																
457	**Winter:**															
458	Cust. Chg	$57.46	$57.46	$57.46	$57.46	$57.46	$57.46	$344.74								
459	Headblock	$28.39	$28.39	$28.39	$28.39	$28.39	$28.39	$170.36								
460	Tailblock	$33.11	$44.16	$51.59	$49.11	$40.09	$29.77	$247.83								
461	HB Threshold															
462																
463	**Summer:**															
464	Cust. Chg								$57.46	$57.46	$57.46	$57.46	$57.46	$57.46	$344.74	$689.49
465	Headblock								$28.39	$28.39	$28.39	$28.39	$28.39	$28.39	$170.36	$340.73
466	Tailblock								$23.06	$17.43	$13.48	$16.83	$17.58	$20.63	$109.01	$356.84
467	HB Threshold															
468																
469	Total Base Rate Amount	$118.96	$130.01	$137.44	$134.96	$125.94	$115.63	$762.94	$108.91	$103.28	$99.33	$102.68	$103.43	$106.48	$624.12	$1,387.05
470																
471	COG Rate - (Winter)	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792								
472	COG amount - Winter	$133.86	$162.52	$181.82	$175.37	$151.96	$125.20	$930.73								
473																
474	COG Rate - (Summer)								$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.4410
475	COG amount - Summer								$85.14	$73.60	$65.49	$72.38	$73.90	$80.17	$450.68	$1,381.42
476																
477	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
478	LDAC amount	$13.35	$16.21	$18.14	$17.49	$15.16	$12.49	$92.84	$10.75	$9.29	$8.27	$9.14	$9.33	$10.12	$56.90	$149.74
479																
480	**Total Bill**	**$266.18**	**$308.74**	**$337.41**	**$327.82**	**$293.06**	**$253.31**	**$1,786.51**	**$204.80**	**$186.17**	**$173.09**	**$184.20**	**$186.66**	**$196.78**	**$1,131.70**	**$2,918.21**
481																
482	**DIFFERENCE:**															
483	**Total Bill**	**$15.79**	**$18.59**	**$20.48**	**$19.85**	**$17.56**	**$14.95**	**$107.23**	**$7.20**	**$6.59**	**$6.16**	**$6.52**	**$6.61**	**$6.93**	**$40.01**	**$147.24**
484	% Change	**5.93%**	**6.02%**	**6.07%**	**6.05%**	**5.99%**	**5.90%**	**6.00%**	**3.51%**	**3.54%**	**3.56%**	**3.54%**	**3.54%**	**3.52%**	**3.54%**	**5.05%**
485																
486	**Base Rate**	**$7.55**	**$8.58**	**$9.28**	**$9.04**	**$8.20**	**$7.23**	**$49.88**	**$6.61**	**$6.08**	**$5.71**	**$6.02**	**$6.09**	**$6.38**	**$36.89**	**$86.77**
487	% Change	6.34%	6.60%	6.75%	6.70%	6.51%	6.26%	6.54%	6.07%	5.89%	5.75%	5.87%	5.89%	5.99%	5.91%	6.26%
488																
489	**COG & LDAC**	**$8.25**	**$10.01**	**$11.20**	**$10.80**	**$9.36**	**$7.71**	**$57.35**	**$0.59**	**$0.51**	**$0.45**	**$0.50**	**$0.51**	**$0.56**	**$3.12**	**$60.47**
490	% Change	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	3.95%

491 Winter Season (Jan. - Apr., Nov. - Dec.)   **Summer Season (May - Oct.)**

492 Commercial/Industrial - Medium Annual Use, Low Winter Use (G-52)

493 PROPOSED

Line		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter		May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
495	average Usage (Therms)	2,236	2,594	2,953	2,830	2,492	2,049	15,155		1,655	1,433	1,349	1,430	1,501	1,720	9,088	24,242
496																	
497	Winter:																
498	Cust. Chg	$177.76	$177.76	$177.76	$177.76	$177.76	$177.76	$1,066.58									
499	Headblock	$266.40	$266.40	$266.40	$266.40	$266.40	$266.40	$1,598.38									
500	Tailblock	$219.27	$282.81	$346.50	$324.74	$264.74	$186.07	$1,624.12									
501	HB Threshold																
502																	
503	Summer:																
504	Cust. Chg									$177.76	$177.76	$177.76	$177.76	$177.76	$177.76	$1,066.58	$2,133.17
505	Headblock									$193.00	$193.00	$193.00	$193.00	$193.00	$193.00	$1,158.02	$2,756.40
506	Tailblock									$71.90	$47.48	$38.32	$47.17	$54.92	$78.93	$338.73	$1,962.85
507	HB Threshold																
508																	
509	Total Base Rate Amount	$663.43	$726.97	$790.66	$768.90	$708.90	$630.23	$4,289.08		$442.67	$418.25	$409.09	$417.94	$425.69	$449.70	$2,563.33	$6,852.42
510																	
511	COG Rate - (Winter)	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086									
512	COG amount - Winter	$1,137.19	$1,319.36	$1,501.94	$1,439.54	$1,267.56	$1,042.01	$7,707.60									
513																	
514	COG Rate - (Summer)									$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.4608
515	COG amount - Summer									$630.88	$546.06	$514.23	$544.97	$571.90	$655.32	$3,463.37	$11,170.97
516																	
517	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479		$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
518	LDAC amount	$107.16	$124.32	$141.53	$135.65	$119.44	$98.19	$726.28		$79.34	$68.67	$64.67	$68.53	$71.92	$82.41	$435.53	$1,161.82
519																	
520	Total Bill	$1,907.77	$2,170.65	$2,434.13	$2,344.09	$2,095.91	$1,770.42	$12,722.97		$1,152.88	$1,032.99	$987.99	$1,031.44	$1,069.50	$1,187.44	$6,462.24	$19,185.21

521 Winter Season (Jan. - Apr., Nov. - Dec.)   **Summer Season (May - Oct.)**

522 Commercial/Industrial - Medium Annual Use, Low Winter Use (G-52)

523 CURRENT

Line		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter		May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
525	average Usage (Therms)	2,236	2,594	2,953	2,830	2,492	2,049	15,155		1,655	1,433	1,349	1,430	1,501	1,720	9,088	24,242
526																	
527	Winter:																
528	Cust. Chg	$172.39	$172.39	$172.39	$172.39	$172.39	$172.39	$1,034.35									
529	Headblock	$243.87	$243.87	$243.87	$243.87	$243.87	$243.87	$1,463.23									
530	Tailblock	$200.73	$258.90	$317.20	$297.28	$242.36	$170.33	$1,486.80									
531	HB Threshold																
532																	
533	Summer:																
534	Cust. Chg									$172.39	$172.39	$172.39	$172.39	$172.39	$172.39	$1,034.35	$2,068.71
535	Headblock									$176.68	$176.68	$176.68	$176.68	$176.68	$176.68	$1,060.11	$2,523.33
536	Tailblock									$65.82	$43.47	$35.08	$43.18	$50.28	$72.26	$310.09	$1,796.89
537	HB Threshold																
538																	
539	Total Base Rate Amount	$616.99	$675.16	$733.47	$713.54	$658.62	$586.60	$3,984.38		$414.90	$392.55	$384.16	$392.26	$399.35	$421.34	$2,404.55	$6,388.93
540																	
541	COG Rate - (Winter)	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792									
542	COG amount - Winter	$1,071.45	$1,243.09	$1,415.12	$1,356.33	$1,194.29	$981.78	$7,262.06									
543																	
544	COG Rate - (Summer)									$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.4415
545	COG amount - Summer									$626.74	$542.48	$510.86	$541.40	$568.15	$651.02	$3,440.65	$10,702.71
546																	
547	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478		$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
548	LDAC amount	$106.88	$124.00	$141.16	$135.29	$119.13	$97.93	$724.39		$79.13	$68.49	$64.50	$68.35	$71.73	$82.19	$434.40	$1,158.79
549																	
550	Total Bill	$1,795.32	$2,042.25	$2,289.75	$2,205.17	$1,972.04	$1,666.30	$11,970.83		$1,120.77	$1,003.52	$959.51	$1,002.01	$1,039.23	$1,154.56	$6,279.59	$18,250.42
551																	
552	DIFFERENCE:																
553	Total Bill	$112.45	$128.40	$144.38	$138.92	$123.87	$104.12	$752.14		$32.12	$29.47	$28.47	$29.43	$30.27	$32.88	$182.64	$934.78
554	% Change	6.26%	6.29%	6.31%	6.30%	6.28%	6.25%	6.28%		2.87%	2.94%	2.97%	2.94%	2.91%	2.85%	2.91%	5.12%
555																	
556	Base Rate	$46.44	$51.81	$57.19	$55.35	$50.28	$43.63	$304.70		$27.77	$25.71	$24.93	$25.68	$26.33	$28.37	$158.79	$463.49
557	% Change	7.53%	7.67%	7.80%	7.76%	7.63%	7.44%	7.65%		6.69%	6.55%	6.49%	6.55%	6.59%	6.73%	6.60%	7.25%
558																	
559	COG & LDAC	$66.02	$76.59	$87.19	$83.57	$73.58	$60.49	$447.44		$4.35	$3.76	$3.54	$3.75	$3.94	$4.51	$23.86	$471.29
560	% Change	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%		0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	3.97%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Line No																

561 Winter Season (Jan. - Apr., Nov. - Dec.)   Summer Season (May - Oct.)
562 Commercial/Industrial - High Annual Use, Load Factor Less Than 90% (G-53)

Line	PROPOSED	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
563	**PROPOSED**															
564		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
565	average Usage (Therms)	27,160	31,349	35,590	32,054	29,450	24,278	179,882	21,519	19,047	19,313	21,119	19,654	22,956	123,608	303,490
566																
567	**Winter:**															
568	Cust. Chg	$785.12	$785.12	$785.12	$785.12	$785.12	$785.12	$4,710.72								
569	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
570	Tailblock	$5,157.15	$5,952.57	$6,757.79	$6,086.34	$5,591.98	$4,609.89	$34,155.72								
571	HB Threshold															
572																
573	**Summer:**															
574	Cust. Chg								$785.12	$785.12	$785.12	$785.12	$785.12	$785.12	$4,710.72	$9,421.44
575	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
576	Tailblock								$1,959.87	$1,734.78	$1,759.02	$1,923.52	$1,790.01	$2,090.81	$11,258.02	$45,413.74
577	HB Threshold															
578																
579	Total Base Rate Amount	$5,942.27	$6,737.69	$7,542.91	$6,871.46	$6,377.10	$5,395.01	$38,866.44	$2,744.99	$2,519.90	$2,544.14	$2,708.64	$2,575.13	$2,875.93	$15,968.74	$54,835.18
580																
581	COG Rate - (Winter)	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086								
582	COG amount - Winter	$13,813.68	$15,944.27	$18,101.09	$16,302.58	$14,978.40	$12,347.82	$91,487.84								
583																
584	COG Rate - (Summer)								$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.4567
585	COG amount - Summer								$8,200.70	$7,258.86	$7,360.31	$8,048.62	$7,489.97	$8,748.63	$47,107.10	$138,594.93
586																
587	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
588	LDAC amount	$1,301.65	$1,502.42	$1,705.65	$1,536.18	$1,411.40	$1,163.53	$8,620.83	$1,031.27	$912.83	$925.59	$1,012.15	$941.90	$1,100.18	$5,923.93	$14,544.76
589																
590	**Total Bill**	$21,057.60	$24,184.38	$27,349.65	$24,710.22	$22,766.91	$18,906.36	$138,975.11	$11,976.96	$10,691.60	$10,830.05	#########	#########	$12,724.74	$68,999.76	$207,974.87

591 Winter Season (Jan. - Apr., Nov. - Dec.)   Summer Season (May - Oct.)
592 Commercial/Industrial - High Annual Use, Load Factor Less Than 90% (G-53)

Line	CURRENT	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
593	**CURRENT**															
594		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
595	average Usage (Therms)	27,160	31,349	35,590	32,054	29,450	24,278	179,882	21,519	19,047	19,313	21,119	19,654	22,956	123,608	303,490
596																
597	**Winter:**															
598	Cust. Chg	$761.39	$761.39	$761.39	$761.39	$761.39	$761.39	$4,568.37								
599	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
600	Tailblock	$4,629.87	$5,343.97	$6,066.86	$5,464.06	$5,020.25	$4,138.57	$30,663.58								
601	HB Threshold															
602																
603	**Summer:**															
604	Cust. Chg								$761.39	$761.39	$761.39	$761.39	$761.39	$761.39	$4,568.37	$9,136.73
605	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
606	Tailblock								$1,759.49	$1,557.41	$1,579.18	$1,726.86	$1,607.00	$1,877.05	$10,106.98	$40,770.55
607	HB Threshold															
608																
609	Total Base Rate Amount	$5,391.26	$6,105.36	$6,828.26	$6,225.46	$5,781.64	$4,899.96	$35,231.94	$2,520.88	$2,318.81	$2,340.57	$2,488.25	$2,368.39	$2,638.44	$14,675.34	$49,907.28
610																
611	COG Rate - (Winter)	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792								
612	COG amount - Winter	$13,015.17	$15,022.60	$17,054.74	$15,360.19	$14,112.57	$11,634.05	$86,199.31								
613																
614	COG Rate - (Summer)								$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.4382
615	COG amount - Summer								$8,146.91	$7,211.24	$7,312.03	$7,995.82	$7,440.84	$8,691.23	$46,798.08	$132,997.39
616																
617	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
618	LDAC amount	$1,298.26	$1,498.50	$1,701.20	$1,532.17	$1,407.72	$1,160.49	$8,598.35	$1,028.58	$910.45	$923.18	$1,009.51	$939.44	$1,097.31	$5,908.47	$14,506.82
619																
620	**Total Bill**	$19,704.69	$22,626.46	$25,584.20	$23,117.82	$21,301.93	$17,694.50	$130,029.60	$11,696.37	$10,440.50	$10,575.78	#########	#########	$12,426.98	$67,381.89	$197,411.49
621																
622	**DIFFERENCE:**															
623	**Total Bill**	$1,352.91	$1,557.92	$1,765.45	$1,592.39	$1,464.98	$1,211.86	$8,945.51	$280.59	$251.09	$254.27	$275.83	$258.33	$297.75	$1,617.87	$10,563.37
624	% Change	6.87%	6.89%	6.90%	6.89%	6.88%	6.85%	6.88%	2.40%	2.40%	2.40%	2.40%	2.40%	2.40%	2.40%	5.35%
625																
626	**Base Rate**	$551.00	$632.33	$714.66	$646.00	$595.46	$495.05	$3,634.50	$224.11	$201.09	$203.57	$220.39	$206.74	$237.49	$1,293.39	$4,927.89
627	% Change	10.22%	10.36%	10.47%	10.38%	10.30%	10.10%	10.32%	8.89%	8.67%	8.70%	8.86%	8.73%	9.00%	8.81%	9.87%
628																
629	**COG & LDAC**	$801.91	$925.59	$1,050.80	$946.39	$869.52	$716.81	$5,311.01	$56.49	$50.00	$50.70	$55.44	$51.59	$60.26	$324.47	$5,635.48
630	% Change	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	3.82%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
Bill Impact Analysis - Cost of Gas Filing Methodology

Winter Season (Jan. - Apr., Nov. - Dec.) | **Summer Season (May - Oct.)**

Commercial/Industrial - High Annual Use, Load Factor Greater Than 90% (G-54)

Line No	PROPOSED	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
635	average Usage (Therms)	61,794	48,201	46,759	46,199	40,987	48,188	292,128	58,766	61,809	64,600	68,379	65,031	64,466	383,051	675,179
637	Winter:															
638	Cust. Chg	$785.12	$785.12	$785.12	$785.12	$785.12	$785.12	$4,710.72								
639	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
640	Tailblock	$5,128.59	$4,000.48	$3,880.80	$3,834.34	$3,401.73	$3,999.38	$24,245.32								
641	HB Threshold															
643	Summer:															
644	Cust. Chg								$785.12	$785.12	$785.12	$785.12	$785.12	$785.12	$4,710.72	$9,421.44
645	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
646	Tailblock								$2,645.05	$2,782.05	$2,907.65	$3,077.76	$2,927.04	$2,901.63	$17,241.17	$41,486.49
647	HB Threshold															
649	Total Base Rate Amount	$5,913.71	$4,785.60	$4,665.92	$4,619.46	$4,186.85	$4,784.50	$28,956.04	$3,430.17	$3,567.17	$3,692.77	$3,862.88	$3,712.16	$3,686.75	$21,951.89	$50,907.93
651	COG Rate - (Winter)	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086	$0.5086								
652	COG amount - Winter	$31,428.20	$24,515.08	$23,781.71	$23,496.98	$20,845.96	$24,508.32	$148,576.24								
654	COG Rate - (Summer)								$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.3811	$0.4363
655	COG amount - Summer								$22,395.57	$23,555.53	$24,619.00	$26,059.30	$24,783.18	$24,568.05	$145,980.64	$294,556.88
657	LDAC	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479	$0.0479
658	LDAC amount	$2,961.46	$2,310.04	$2,240.93	$2,214.10	$1,964.30	$2,309.40	$14,000.23	$2,816.34	$2,962.21	$3,095.95	$3,277.07	$3,116.59	$3,089.54	$18,357.71	$32,357.94
660	Total Bill	$40,303.37	$31,610.71	$30,688.57	$30,330.54	$26,997.11	$31,602.22	$191,532.52	$28,642.08	$30,084.90	$31,407.72	########	########	$31,344.35	$186,290.24	$377,822.75

Winter Season (Jan. - Apr., Nov. - Dec.) | **Summer Season (May - Oct.)**

Commercial/Industrial - High Annual Use, Load Factor Greater Than 90% (G-54)

Line No	CURRENT	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Summer	Total
665	average Usage (Therms)	61,794	48,201	46,759	46,199	40,987	48,188	292,128	58,766	61,809	64,600	68,379	65,031	64,466	383,051	675,179
667	Winter:															
668	Cust. Chg	$761.39	$761.39	$761.39	$761.39	$761.39	$761.39	$4,568.37								
669	Headblock	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00								
670	Tailblock	$4,019.42	$3,135.29	$3,041.49	$3,005.08	$2,666.03	$3,134.42	$19,001.73								
671	HB Threshold															
673	Summer:															
674	Cust. Chg								$761.39	$761.39	$761.39	$761.39	$761.39	$761.39	$4,568.37	$9,136.73
675	Headblock								$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
676	Tailblock								$2,073.00	$2,180.37	$2,278.80	$2,412.12	$2,294.00	$2,274.09	$13,512.38	$32,514.12
677	HB Threshold															
679	Total Base Rate Amount	$4,780.81	$3,896.68	$3,802.89	$3,766.47	$3,427.43	$3,895.82	$23,570.10	$2,834.39	$2,941.76	$3,040.20	$3,173.52	$3,055.40	$3,035.48	$18,080.75	$41,650.85
681	COG Rate - (Winter)	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792	$0.4792								
682	COG amount - Winter	$29,611.47	$23,097.96	$22,407.00	$22,138.72	$19,640.94	$23,091.60	$139,987.68								
684	COG Rate - (Summer)								$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.3786	$0.4221
685	COG amount - Summer								$22,248.66	$23,401.00	$24,457.50	$25,888.36	$24,620.61	$24,406.89	$145,023.01	$285,010.70
687	LDAC	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478
688	LDAC amount	$2,953.73	$2,304.01	$2,235.09	$2,208.33	$1,959.18	$2,303.38	$13,963.71	$2,809.00	$2,954.48	$3,087.87	$3,268.52	$3,108.47	$3,081.48	$18,309.83	$32,273.54
690	Total Bill	$37,346.02	$29,298.66	$28,444.97	$28,113.52	$25,027.54	$29,290.79	$177,521.50	$27,892.04	$29,297.25	$30,585.57	########	########	$30,523.85	$181,413.59	$358,935.08
692	DIFFERENCE:															
693	Total Bill	$2,957.35	$2,312.06	$2,243.60	$2,217.02	$1,969.57	$2,311.42	$14,011.02	$750.04	$787.65	$822.14	$868.85	$827.47	$820.49	$4,876.65	$18,887.67
694	% Change	7.92%	7.89%	7.89%	7.89%	7.87%	7.89%	7.89%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	2.69%	5.26%
696	Base Rate	$1,132.90	$888.92	$863.04	$852.99	$759.43	$888.68	$5,385.94	$595.78	$625.40	$652.57	$689.36	$656.76	$651.27	$3,871.14	$9,257.08
697	% Change	23.70%	22.81%	22.69%	22.65%	22.16%	22.81%	22.85%	21.02%	21.26%	21.46%	21.72%	21.50%	21.46%	21.41%	22.23%
699	COG & LDAC	$1,824.46	$1,423.14	$1,380.56	$1,364.04	$1,210.14	$1,422.75	$8,625.08	$154.26	$162.25	$169.58	$179.50	$170.71	$169.22	$1,005.51	$9,630.59
700	% Change	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	5.60%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	3.04%

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