# Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Step 2 Adjustment List of Projects

(per Order No. 26,676 based on DOE recommendation filed 8/24/22 - Revised per Audit Adjustments and Depreciation Study)

	(a)	(b)	(c)		(d)		(e)	(f)		(g)		(h)	(i)	(i)
				C	04/08/2022		8/15/2022	9/1/2022		8/19/2022		9/1/2022		
Line	Project Number	<u>Project Name</u>	<u>Priority</u>		<u>Filing</u>	Aud	lit Adjustments	<u>Proposal</u>	DO	E Adjustments	D	OE Proposal	In service Date	<u>FERC</u>
1	8840-2011	Main Replacement LPP-Restoration	<ol><li>Mandated</li></ol>	\$	2,045,661	\$	- 9	2,045,661	\$	-	\$	2,045,661	various	367
2	8840-2024	Nashua Paving	5. Discretionary	\$	531,719	\$	(531,719)	-	\$	-	\$	-	various	367
3	8840-2102	Meter Protection Program	2. Mandated	\$	484,378	\$	- 9	484,378	\$	-	\$	484,378	12/31/2021	381
4	8840-2103	Cathodic Protection Program	2. Mandated	\$	511,291	\$	- 9	511,291	\$	-	\$	511,291	12/31/2021	376
5	8840-2105	Replacement Services Random	2. Mandated	\$	605,038	\$	- 9	605,038	\$	-	\$	605,038	various	380
6	8840-2110	Leak Repairs	2. Mandated	\$	1,325,264	\$	(3,330)	1,321,934	\$	-	\$	1,321,934	12/31/21	367
7	8840-2111	Main Replacement LPP	2. Mandated	\$	8,128,528	\$	- 9	8,128,528	\$	-	\$	8,128,528	various	367
8	8840-2113	Main Replacement Fitting LPP	5. Discretionary	\$	560,975	\$	- 9	560,975	\$	-	\$	560,975	12/31/21	367
9	8840-2114	K Meter Replacement Program	5. Discretionary	\$	380,282	\$	- 9	380,282	\$	-	\$	380,282	12/31/21	381
10	8840-2115	Aldyl-A Replacement Program	5. Discretionary	\$	110,184	\$	- 9	110,184	\$	-	\$	110,184	10/11/21	367
11	8840-2116	Main Replacement Reactive	5. Discretionary	\$	350,593	\$	- 9	350,593	\$	-	\$	350,593	various	367
12	8840-2118	Purchase Misc Capital Equipment & Tools	1. Safety	\$	247,679	\$	- 9	247,679	\$	(247,679)	\$	-	12/31/2021	394
13	8840-2123	Main Replacement City/State Construction	2. Mandated	\$	7,864,636	\$	- 9	7,864,636	\$	-	\$	7,864,636	various	367
14	8840-2125	Service Replacement Fitting City/State Construction	2. Mandated	\$	549,782	\$	- 9	549,782	\$	-	\$	549,782	12/31/21	367
15	8840-2131	Gas System Planning & Reliability	5. Discretionary	\$	959,389	\$	- 9	959,389	\$	-	\$	959,389	various	367
16	8840-2138	IT	5. Discretionary	\$	351,408	\$	(287,893)	63,515	\$	(63,515)	\$	-	12/31/2021	303
17	8840-2190	Transportation	5. Discretionary	\$	970,393	\$	- \$	970,393	\$	(970,393)	\$	-	12/31/2021	392
18	8840-2191	Meters	2. Mandated	\$	1,541,057	\$	(308,211)	1,232,846	\$	(1,232,846)	\$	-	various	381
19	8843-1819	Keene Expansion CNG Phase I Expansion*	5. Discretionary	\$	659,613	\$	- 9	659,613	\$	-	\$	659,613	2019	367
20			,	\$	28,177,868	\$	(1,131,152.98)	27,046,715	\$	(2,514,432)	\$	24,532,283		

<sup>22 \*</sup>Keene Phase I CNG expansion costs are recovered according to a risk sharing mechanism.

21

23

The \$660K includes investment made in 2017-2019 related to installation of the temporary CNG facility, but deferred for recovery

<sup>24</sup> purposes until the second step adjustment.

## Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty

#### Step 2 Adjustment - Revenue Requirement

(per Order No. 26,676 based on DOE recommendation filed 8/24/22 - Revised per Audit Adjustments and Depreciation Study)

FERC Account ending ax Calculation d diation Rate reciation @ 0.00% epreciation	\$ \$ \$\$	303 - MACRS5 20.00% - -		367 22,551,295 MACRS20 3.75%	\$	376 511,291 MACRS20 3.75%	\$	380 605,038 MACRS20 3.75%	\$	381 864,659 MACRS20 3.75%	\$	392 - MACRS5 20.00%	\$	394 - MACRS7 14.29%	\$	24,532,28
ax Calculation Indication Rate reciation @ 0.00% expreciation	\$		<b>S</b>	MACRS20 3.75%		MACRS20		MACRS20	\$	MACRS20	\$		\$		\$	24,532,28
i iiation Rate reciation @ 0.00% epreciation	\$		\$	3.75%	\$		¢									
reciation Rate reciation @ 0.00% repreciation	\$		\$	3.75%	\$		¢									
reciation @ 0.00% epreciation	\$	20.00%	\$		\$	3.75%	¢	3.75%		3.75%		20.00%		14.29%		
preciation siation - Federal	\$	-	·	-	\$	-	Φ									
iation - Federal	\$	-	\$				φ	-	\$	-	\$	-	\$	-	\$	-
iation - Federal	\$	_		22,551,295	\$	511,291	Φ	605,038	Ф	864,659	\$		\$		\$	24,532,2
iation - Federal	•		\$	845,674		19.173		22,689		32,425		-	φ \$	-	φ \$	24,532,2 919.9
	•		Ψ	043,074	Ψ	15,175	Ψ	22,003	Ψ	32,423	Ψ		Ψ		Ψ	313,3
iation - State	\$	-	\$	845,674	\$	19,173	\$	22,689	\$	32,425	\$	-	\$	-	\$	919,9
	\$	-	\$	845,674	\$	19,173	\$	22,689	\$	32,425	\$	-	\$	-	\$	919,9
eciation Rate		20.00%		1.92%		1.92%		3.20%		3.33%		20.00%		5.26%		
eciation	\$	-	\$	432,985	\$	9,817	\$	19,361	\$	28,793	\$	-	\$	-	\$	490,9
nder) Book - Federal	\$	_	\$	412.689	\$	9.357	\$	3.328	\$	3.632	\$	-	\$	_	\$	429.0
nder) Book - State		0		412,689		9,357		3,328		3,632		0		0		429,0
axes - Federal @ 21.00%		0		86,665		1,965		699		763		0		0		90,0
axes - State @ 7.60%		0		31,364		711		253		276		0		0		32,6
ax Balance @ 0.00%	\$	-	\$	118,029	\$	2,676	\$	952	\$	1,039	\$	=	\$	<u> </u>	\$	122,6
	_															
	\$	-	\$		\$		\$		\$		\$	-	\$	-		24,532,2
		-														(490,9
				· · ·			_	. ,	_	,				0		(122,6
Rate Base	\$	-	\$	22,000,281	\$	498,798	\$	584,725	\$	834,827	\$	-	\$	<del>-</del>	\$	23,918,6
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	Þ	- 0	Ф		Ф		Ф		Ф		Ф	- 0	Ф	- 0		2,095, 490.9
•														-		161,9
	Ś	-	Ś		Ś		Ś		Ś		Ś	-	Ś	-	Ś	2,748,2
	nder) Book - Federal nder) Book - State axes - Federal @ 21.00% axes - State @ 7.60% ax Balance @ 0.00%  Calculation rvice ad Depreciation ax Balance Rate Base equirement Calculation Rate Base @ 8.76% in Expense ax @ \$6.60 per \$1000 renue Requirement	Name	Name	Inder   Book - State	Note   Note	Note   Note	nder) Book - State         0         412,689         9,357           axes - Federal @ 21.00% axes - State @ 7.60%         0         86,665         1,965           axes - State @ 7.60%         0         31,364         711           ax Balance @ 0.00%         \$         -         \$ 118,029         2,676           Calculation           rvice         \$         -         \$ 22,551,295         \$ 511,291           rd Depreciation         0         (432,985)         (9,817)           ax Balance         0         (118,029)         (2,676)           Rate Base         \$         -         \$ 22,000,281         \$ 498,798           equirement Calculation         Rate Base @ 8.76%         \$         -         \$ 1,927,335         \$ 43,697           n Expense         0         432,985         9,817         9,817           ax @ \$6.60 per \$1000         0         148,839         3,375           renue Requirement         \$         -         \$ 2,509,158         \$ 56,888	Note   Note	Inder) Book - State         0         412,689         9,357         3,328           axes - Federal @ 21.00%         0         86,665         1,965         699           axes - State @ 7.60%         0         31,364         711         253           ax Balance @ 0.00%         \$ - \$ 118,029         \$ 2,676         \$ 952           Calculation           roice         \$ - \$ 22,551,295         \$ 511,291         \$ 605,038           roice         \$ 0         (432,985)         (9,817)         (19,361)           ax Balance         0         (118,029)         (2,676)         (952)           Rate Base         \$ - \$ 22,000,281         \$ 498,798         \$ 584,725           equirement Calculation           Rate Base @ 8.76%         \$ - \$ 1,927,335         \$ 43,697         \$ 51,225           n Expense         0         432,985         9,817         19,361           ax @ \$6.60 per \$1000         0         148,839         3,375         3,993           renue Requirement         \$ - \$ 2,509,158         \$ 56,888         74,579	Inder) Book - State         0         412,689         9,357         3,328           axes - Federal @ 21.00%         0         86,665         1,965         699           axes - State @ 7.60%         0         31,364         711         253           ax Balance @ 0.00%         \$ -         \$ 118,029         \$ 2,676         \$ 952         \$           Calculation rice         \$ -         \$ 22,551,295         \$ 511,291         \$ 605,038         \$           rice         \$ -         \$ 22,551,295         \$ 511,291         \$ 605,038         \$           ad Depreciation ax Balance         0         (432,985)         (9,817)         (19,361)           ax Balance         0         (118,029)         (2,676)         (952)           Rate Base         \$ -         \$ 22,000,281         \$ 498,798         \$ 584,725         \$           equirement Calculation         Rate Base @ 8.76%         \$ -         \$ 1,927,335         \$ 43,697         \$ 51,225         \$           n Expense         0         432,985         9,817         19,361         \$           ax @ \$6.60 per \$1000         0         148,839         3,375         3,993         \$           renue Requirement         \$ -         \$ 2,509,158<	Name	Name	Inder   Book - State   0	Name   Book - State   0	Name   Book - State   0	Inder   Book - State   0

Rate of Return Calculation*	Capital Structure	Cost of Capital	Weighted Cost of Capital	Tax Rate	Pre-Tax WACC
Equity Debt	52.0%	9.30%	4.84%	27.004%	6.63%
Debt	48.0%	4.42%	2.12%		2.12%
	100.0%	13.72%	6.96%	_	8.76%

<sup>\*</sup>As approved in the Settlement Agreement in Docket No. DG 20-105 with exception of the effective tax rate

## Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty Step 2 Rate Calculation

Γ		Non Heat	MEP Non Heat	Heat	MEP Heat	Low Annual	MEP Low Annual	Medium Annual	MEP Medium Annual	High Annual	MEP High Annual	Low Annual	MEP Low Annual	Medium Annual	MEP Medium Annual	High Annual	MEP High Annual	High Annual	MEP High Annual
		R-1	R-5	R-3/R-4	R-6/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
. L	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(0)	(P)	(Q)	(R)	(S)
	A. TY revenues Winter					1		Ti .								Ti .		I	
3	Rates																		
4	Customer charge	\$15.39	\$20.01	\$15.39	\$20.01	\$57.06	\$74.18	\$171.19	\$222.55	\$734.69	\$955.10	\$57.06	\$74.18	\$171.19	\$222.55	\$756.10	\$982.93	\$756.10	\$982.93
5	Headblock	\$0.384	\$0.500	\$0.563	\$0.732	\$0.469	\$0.609	\$0.426	\$0.554	\$0.262	\$0.341	\$0.282	\$0.366	\$0.243	\$0.316	\$0.170	\$0.221	\$0.065	\$0.084
6	Tailblock	\$0.384	\$0.500	\$0.563	\$0.732	\$0.315	\$0.409	\$0.284	\$0.369	\$0.262	\$0.341	\$0.183	\$0.238	\$0.162	\$0.210	\$0.170	\$0.221	\$0.065	\$0.084
7 8	TY Quantities (w/ EOY adjustment)	00.500	321	477 440	886	57.400	16	0.505	30	332	07	7.806	40	2.374	•	207	•	162	6
9	Customers Headblock	20,569 480,581	321 11,918	477,410 52,125,602	886 136,395	57,400 4,760,423	1,312	8,565 8,153,718	30 29,152	332 8,788,188	27 0	7,806 547,547	18 693	2,374 2,290,320	0	6,233,247	0	7,866,954	163,520
0	Tailblock	0	0	0	0	16,976,813	7,131	20,939,418	78,004	0,700,100	0	1,977,978	2,318	3,700,373	0	0,233,247	0	0	0
1	Summer					.,,.		.,,	-,			, , , , , ,	,-	.,,.				-	
2	Rates																		
13	Customer charge	\$15.39	\$20.01	\$15.39	\$20.01	\$57.06	\$74.18	\$171.19	\$222.55	\$734.69	\$955.10	\$57.06	\$74.18	\$171.19	\$222.55	\$756.10	\$982.93	\$756.10	\$982.93
5	Headblock	\$0.384 \$0.384	\$0.500	\$0.563 \$0.563	\$0.732 \$0.732	\$0.469	\$0.609 \$0.409	\$0.426	\$0.554	\$0.120	\$0.156	\$0.282 \$0.183	\$0.366	\$0.176	\$0.229 \$0.130	\$0.081 \$0.081	\$0.106	\$0.035	\$0.046
16	Tailblock TY Quantities (w/ EOY adjustment)	φυ.304	\$0.500	φυ.303	φυ./ 3∠	\$0.315	φυ. <del>4</del> υ9	\$0.284	\$0.369	\$0.120	\$0.156	φυ.103	\$0.238	\$0.100	φυ. 130	φυ.υο ι	\$0.106	\$0.035	\$0.046
7	Customers	20,892	379	480,333	1,126	56,024	16	8,666	33	318	39	7,918	18	2,424	0	203	0	159	6
8	Headblock	238,935	3,635	10,768,507	30,580	677,493	279	2,364,147	10,153	2,573,105	0	483,696	402	2,027,375	Ö	4,192,201	Ö	10,136,028	115,234
9	Tailblock	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
0.1	Revenues	PG20 470	614.004	¢14.744.000	640.050	fic 470 070	60.074	¢2.040.005	612.004	£477.070	¢62.007	£907.400	<b>#0.700</b>	6004 450	60	6240 524	40	¢0.42.044	¢11.050
!1 !2	Customer Volumetric	\$638,178 \$276,556	\$14,001 \$7,771	\$14,741,922 \$35,424,180	\$40,258 \$122,260	\$6,472,076 \$8,661,249	\$2,374 \$4,454	\$2,949,835 \$11,405,663	\$13,991 \$56,535	\$477,379 \$2,610,567	\$63,037 \$0	\$897,192 \$852,576	\$2,708 \$980	\$821,458 \$1,675,738	\$0 \$0	\$310,531 \$1,399,474	\$0 \$0	\$243,011 \$866,002	\$11,959 \$19,036
3	Total	\$914,734	\$21,772	\$50,166,102	\$162,518	\$15,133,324	\$6,828	\$14,355,498	\$70,526	\$3,087,946	\$63,037	\$1,749,768	\$3,688	\$2,497,195	\$0 \$0	\$1,710,005	\$0 \$0	\$1,109,013	\$30,995
24	Combined	\$936,507	<del></del>	\$50,328,620	<b>*</b> · · · · · · · · · · · · · · · · · · ·	\$15,140,152	**,***	\$14,426,024	* ,	\$3,150,983	400,000	\$1,753,456	**,***	\$2,497,195	**	\$1,710,005	**	\$1,140,008	400,000
25																			
	Class requirements (combined)																		
27	Step Share	1%		55%		17%		16%		3%		2%		3%		2%		1%	
28 29	Set changes (X="no increment")	170		3376		17 70		1076		370		270		370		270		1 70	
30	Customer	X		X	X														
31	Volumetric																		
32	Revenue ratios																		
33	From RATES-5 Customer	70%		29%		43%		21%		17%		51%		33%		18%		22%	
34 35	Volumetric	70% 30%		29% 71%		43% 57%		79%		17% 83%		49%		33% 67%		18% 82%		22% 78%	
36	Adjusted share	0070		7170		0170		1370		0070		4370		0170		0270		7070	
37	Customer	0%		0%		43%		21%		17%		51%		33%		18%		22%	
38	Volumetric	100%		100%		57%		79%		83%		49%		67%		82%		78%	
39 40	Incremental class revenue requirement	\$0		\$0		\$146,863		#07 000		640.050		600 440		\$18,634		\$7,044		\$5,784	
41	Customer Volumetric	\$0 \$21,243		\$0 \$1.141.631		\$146,863 \$196.569		\$67,230 \$260.003		\$12,259 \$59.217		\$20,413 \$19.362		\$18,634 \$38.012		\$7,044 \$31.745		\$5,784 \$20.076	
42	Volumento	Ψ21,210		ψ1,111,001		ψ.00,000		Ψ200,000		<b>\$60,217</b>		Ų 10,00 <u>2</u>		\$00,01L		ψοι,, ιο		Ψ20,010	
43 lı	ncremental charge																		
14	Customers - 2021	40.404	004	070.000	4.646	445 450	461	47.500	07	007		45.007	40	4.640		447		24.1	40
15 16	Bill count Bills allocator	42,101 43,302	924	979,006 984,221	4,012	115,459 115,708	191	17,529 17,656	97	697 783	66	15,627 15,690	48	4,949 4,949	0	417 417	0	314 330	12
17	Base (non-MEP) rate	\$0.00		\$0.00		\$1.27		\$3.81		\$15.66		\$1.30		\$3.77		\$16.88		\$17.54	
18	Incremental rate	\$0.00	\$0.00	\$0.00	\$0.00	\$1.27	\$1.65	\$3.81	\$4.95	\$15.66	\$20.36	\$1.30	\$1.69	\$3.77	\$4.89	\$16.88	\$21.95	\$17.54	\$22.81
9						· ·													
50	Volumes - 2021					4,561,858	6,611	7,983,157	44,765	9,563,203	1	518,832	1,054	2,246,152	0	5,946,038	0	7,703,088	122,528
51	Winter	550 424	16 004	51 857 200	178 006			1,500,107		9,563,203	0	1,904,222	2.675	3.036.500	0	5,946,038	0	7,703,088	0
51 52	Winter Headblock volumes	559,431 0	16,904 0	51,857,298 0	178,096 0			20 825 525	163 071			1,007,222	2,010	3,000,000					
51 52 53 54	Winter	559,431 0	16,904 0	51,857,298 0	178,096 0	16,717,662	18,295	20,825,525	163,071	O						-	Ü	U	
i1 i2 i3 i4 i5	Winter Headblock volumes Tailblock volumes Summer Headblock volumes	0 242,642	0 4,538	0 10,570,040	0 37,225	16,717,662 668,437	18,295 582	2,283,483	13,639	2,618,686	2	459,811	798	1,867,958	0	3,987,281	0	9,234,988	106,592
1 2 3 4 5 6	Winter Headblock volumes Tailblock volumes Summer Headblock volumes Tailblock volumes	0	0	0	0	16,717,662	18,295				2 0	459,811 957,689	798 761	1,867,958 1,294,404	0	3,987,281 0	-		
i1 i2 i3 i4 i5 i6	Winter Headblock volumes Tailblock volumes Summer Headblock volumes Tailblock volumes Rate change	0 242,642 0	0 4,538 0	0 10,570,040 0	0 37,225 0	16,717,662 668,437 2,246,854	18,295 582 1,191	2,283,483 2,966,606	13,639 19,754	2,618,686 0	0	957,689	761	1,294,404	0	0	0	9,234,988	106,592 0
1 2 3 4 5 6 7 8	Winter Headblock volumes Tailblock volumes Summer Headblock volumes Tailblock volumes Rate change Total volumes	0 242,642 0 802,072	0 4,538	0 10,570,040 0 62,427,339	0 37,225	16,717,662 668,437 2,246,854 24,194,811	18,295 582	2,283,483 2,966,606 34,058,771	13,639	2,618,686 0 12,181,888		957,689 3,840,553		1,294,404 8,445,014	-	9,933,319	0	9,234,988 0 16,938,076	106,592
51 52 53 54 55 56 57 58	Winter Headblock volumes Tailblock volumes Summer Headblock volumes Tailblock volumes Rate change Total volumes Volumes	0 242,642 0 802,072 829,947	0 4,538 0	0 10,570,040 0 62,427,339 62,707,256	0 37,225 0	16,717,662 668,437 2,246,854 24,194,811 24,229,494	18,295 582 1,191	2,283,483 2,966,606 34,058,771 34,372,369	13,639 19,754	2,618,686 0 12,181,888 12,181,892	0	957,689 3,840,553 3,847,427	761	1,294,404 8,445,014 8,445,014	0	0 9,933,319 9,933,319	0	9,234,988 0 16,938,076 17,235,932	106,592 0
i1 i2 i3 i4 i5 i6 i7 i8	Winter Headblock volumes Tailblock volumes Summer Headblock volumes Tailblock volumes Rate change Total volumes	0 242,642 0 802,072	0 4,538 0	0 10,570,040 0 62,427,339	0 37,225 0	16,717,662 668,437 2,246,854 24,194,811	18,295 582 1,191	2,283,483 2,966,606 34,058,771	13,639 19,754	2,618,686 0 12,181,888	0	957,689 3,840,553	761	1,294,404 8,445,014	0	9,933,319	0	9,234,988 0 16,938,076	106,592 0

## Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty Step 2 Rate Calculation

ſ		Non Heat	MEP Non Heat	Heat	MEP Heat	Low Annual	MEP Low	Medium	MEP Medium	High Annual	MEP High	Low Annual	MEP Low	Medium	MEP Medium	High Annual	MEP High	High Annual	MEP High
		R-1	R-5	R-3/R-4	R-6/R-7	G-41	Annual G-44	Annual G-42	Annual G-45	G-43	Annual G-46	G-51	Annual G-55	Annual G-52	Annual G-56	G-53	Annual G-57	G-54	Annual G-58
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)
63	ncremental revenue proof	\_/	\-/	\-/	\-/	(- /	(-/	(/	(-)	(-/	(/	\-/	()	(/	(-/	V- /	\-/	(* -/	(-/
64	Customer																	I	
65	Customers	42,101	924	979,006	4,012	115,459	191	17,529	97	697	66	15,627	48	4,949	0	417	0	314	12
66	Incremental rate	\$0.00	\$0.00	\$0.00	\$0.00	\$1.27	\$1.65	\$3.81	\$4.95	\$15.66	\$20.36	\$1.30	\$1.69	\$3.77	\$4.89	\$16.88	\$21.95	\$17.54	\$22.81
67 68	Incremental revenues	\$0	\$0	\$0	\$0	\$146,548	\$315	\$66,748	\$482	\$10,915	\$1,344	\$20,331	\$82	\$18,634	\$0	\$7,044	\$0	\$5,506	\$277
69	Winter																		
70	Headblock volumes	559.431	16,904	51.857.298	178.096	4.561.858	6.611	7.983.157	44.765	9.563.203	1	518,832	1.054	2.246.152	0	5.946.038	0	7.703.088	122.528
71	Headblock incremental charge	\$0.026	\$0.033	\$0.018	\$0.024	\$0.008	\$0.011	\$0.008	\$0.010	\$0.005	\$0.006	\$0.005	\$0.007	\$0.005	\$0.006	\$0.003	\$0.004	\$0.001	\$0.002
72	Headblock incremental revenues	\$14,319	\$562	\$944,099	\$4,215	\$36,951	\$70	\$60,387	\$440	\$46,487	\$0	\$2,594	\$7	\$10,110	\$0	\$19,002	\$0	\$8,972	\$186
73	T-364-4-4-4-4-4		0	0	0	40 747 000	40.005	00 005 505	400.074	0	0	4.004.000	0.075	0.000.500	0	0	0		0
74 75	Tailblock volumes Tailblock incremental charge	0 \$0.026	0 \$0.033	0 \$0.018	0 \$0.024	16,717,662 \$0.008	18,295 \$0.011	20,825,525 \$0.008	163,071 \$0.010	0 \$0.005	0 \$0.006	1,904,222 \$0.005	2,675 \$0.007	3,036,500 \$0.005	0 \$0.006	0 \$0.003	0 \$0.004	0 \$0.001	0 \$0.002
76	Tailblock incremental revenues	\$0.020	\$0.033 \$0	\$0.018	\$0.024	\$135,413	\$193	\$157,531	\$1.604	\$0.003	\$0.000	\$9.521	\$17	\$13.668	\$0.000 \$0	\$0.003	\$0.004	\$0.001	\$0.002
77		**	4-5	4-2	**	<b>*</b> ,	*	*****	* 1,122	, ,	**	40,0	***	*,	*-	**	**	**	**
78	Summer																		
79	Headblock volumes	242,642	4,538	10,570,040	37,225	668,437	582	2,283,483	13,639	2,618,686	2	459,811	798	1,867,958	0	3,987,281	0	9,234,988	106,592
80 81	Headblock incremental charge Headblock incremental revenues	\$0.026 \$6,211	\$0.033 \$151	\$0.018 \$192,435	\$0.024 \$881	\$0.008 \$5,414	\$0.011 \$6	\$0.008 \$17,273	\$0.010 \$134	\$0.005 \$12,730	\$0.006 \$0	\$0.005 \$2,299	\$0.007 \$5	\$0.005 \$8.408	\$0.006 \$0	\$0.003 \$12,743	\$0.004 \$0	\$0.001 \$10,757	\$0.002 \$161
82	Headblock inclemental revenues	\$0,211	\$151	\$192,433	φ001	φ5,414	φυ	\$17,273	φ134	\$12,730	ΨU	\$2,299	φυ	\$0,400	φυ	\$12,743	ΦΟ	\$10,737	\$101
83	Tailblock volumes	0	0	0	0	2,246,854	1,191	2,966,606	19,754	0	0	957,689	761	1,294,404	0	0	0	0	0
84	Tailblock incremental charge	\$0.026	\$0.033	\$0.018	\$0.024	\$0.008	\$0.011	\$0.008	\$0.010	\$0.005	\$0.006	\$0.005	\$0.007	\$0.005	\$0.006	\$0.003	\$0.004	\$0.001	\$0.002
85	Tailblock incremental revenues	\$0	\$0	\$0	\$0	\$18,200	\$13	\$22,440	\$194	\$0	\$0	\$4,788	\$5	\$5,826	\$0	\$0	\$0	\$0	\$0
86 87	Totals																		
88	Customer revenues	\$0	\$0	\$0	\$0	\$146,548	\$315	\$66,748	\$482	\$10,915	\$1,344	\$20,331	\$82	\$18.634	\$0	\$7.044	\$0	\$5.506	\$277
89	Volumetric revenues	\$20,530	\$713	\$1,136,535	\$5,096	\$195,978	\$281	\$257,631	\$2,372	\$59,217	\$0	\$19,203	\$34	\$38,012	\$0	\$31,745	\$0	\$19,729	\$347
90	Total	\$20,530	\$713	\$1,136,535	\$5,096	\$342,526	\$596	\$324,379	\$2,854	\$70,132	\$1,344	\$39,534	\$116	\$56,645	\$0	\$38,789	\$0	\$25,235	\$624
91	Check																		
92 93	2-4																		
94	Rate impacts Customer			\$8.47	\$11.01	i						1						r	
95	Proposed + Step 1	\$15.39	\$20.01	\$15.39	\$20.01	\$62.03	\$80.64	\$186.03	\$241.83	\$796.32	\$1,035.22	\$62.08	\$80.70	\$185.80	\$241.54	\$821.64	\$1,068.14	\$821.65	\$1.068.14
96	Step 2	\$15.39	\$20.01	\$15.39	\$20.01	\$63.30	\$82.29	\$189.84	\$246.78	\$811.98	\$1,055.58	\$63.38	\$82.39	\$189.57	\$246.43	\$838.52	\$1,090.08	\$839.19	\$1,090.95
97	Change	0%	0%	0%	0%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
98	Winter volumetric			#0.0F0F	<b>60 4004</b>														
99 100	Headblock Proposed + Step 1	\$0.4873	\$0.6335	\$0.3585 \$0.6337	\$0.4661 \$0.8238	\$0.5007	\$0.6509	\$0.4558	\$0.5925	\$0.2814	\$0.3658	\$0.3020	\$0.3927	\$0.2602	\$0.3383	\$0.1819	\$0.2365	\$0.0693	\$0.0901
101	Step 2	\$0.5129	\$0.6668	\$0.6519	\$0.8475	\$0.5088	\$0.6614	\$0.4634	\$0.6023	\$0.2863	\$0.3722	\$0.3070	\$0.3992	\$0.2647	\$0.3442	\$0.1851	\$0.2407	\$0.0705	\$0.0916
102	Change	5%	5%	3%	3%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%
103	Tailblock																		
104	Proposed + Step 1					\$0.3469	\$0.4510	\$0.3136	\$0.4077			\$0.2034	\$0.2645	\$0.1791	\$0.2328				
105 106	Step 2 Change					\$0.3550 2%	\$0.4614 2%	\$0.3212 2%	\$0.4175 2%			\$0.2084 2%	\$0.2710 2%	\$0.1836 3%	\$0.2387 3%				
106	Summer volumetric					∠ /0	∠ /0	2 /0	2 /0			2 /0	∠ /0	3 /0	3 /0				
108	Headblock																		
109	Proposed + Step 1	\$0.4873	\$0.6335	\$0.6337	\$0.8238	\$0.5007	\$0.6509	\$0.4558	\$0.5925	\$0.1392	\$0.1810	\$0.3020	\$0.3927	\$0.1933	\$0.2513	\$0.0936	\$0.1217	\$0.0397	\$0.0516
110	Step 2	\$0.5129	\$0.6668	\$0.6519	\$0.8475	\$0.5088	\$0.6614	\$0.4634	\$0.6023	\$0.1441	\$0.1873	\$0.3070	\$0.3992	\$0.1978	\$0.2572	\$0.0968	\$0.1259	\$0.0409	\$0.0531
111 112	Change	5%	5%	3%	3%	2%	2%	2%	2%	4%	4%	2%	2%	2%	2%	3%	3%	3%	3%
113	Tailblock Proposed + Step 1					\$0.3469	\$0.4510	\$0.3136	\$0.4077			\$0.2034	\$0.2645	\$0.1174	\$0.1526				
114	Step 2					\$0.3550	\$0.4614	\$0.3212	\$0.4077			\$0.2084	\$0.2710	\$0.1174	\$0.1585				
115	Change					2%	2%	2%	2%			2%	2%	4%	4%				

Line No	(a) (b)	(c)		(d)	(e)	(f)	(g)	(h) = d + e + f	(i)	(j) = h + i	(k) = -e	(I) = j + k
1	Rate		C	Current	\$4M Increase for 12-mo delayed First Step effective 8/1/22-7/31/23	\$4M Increase for First Step effective 8/1/2022 - until next rate case	Calculated LDAC & COG	Proposed Rate Effective 8/1/22 (includes delayed step 1 collection and step 1 adjustment)	\$2.1M Increase for Second Step adjustment effective 9/1/2022 - until next rate case	Proposed Rate Effective 9/1/22 including step 2 adjustment	\$4M Decrease for delayed first step full recovery effective 8/1/23	
2 3 4	R1 Customer Charge  Winter  LDAC Charge	e Charge for 1st Therms	<b>\$</b> \$ \$	15.39 0.3844 0.1318	\$ - \$ 0.0515	\$ - \$ 0.0515	\$ 0.1382	\$ 15.39 \$ 0.4873		\$ 15.39 \$ 0.5129	\$ - \$ (0.0515)	\$ 15.39 \$ 0.4614
5 6	Energy Charge Block Size	Charge for Therms over 1st Cutoff for First Block	\$	0.3844	\$ 0.0515	\$ 0.0515	\$ 0.1302	\$ 0.4873	\$ 0.0256	\$ 0.5129	\$ (0.0515)	\$ 0.4614
7 8	Cost of Gas Summer	Cost of Gas Rate Charge for 1st Therms	\$	1.1829 0.3844	\$ 0.0515	\$ 0.0515	\$ 1.2102	\$ 0.4873	\$ 0.0256	\$ 0.5129	\$ (0.0515)	\$ 0.4614
9 10	LDAC Charge Energy Charge	Charge for Therms over 1st	\$	0.1318 0.3844	\$ 0.0515	\$ 0.0515	\$ 0.1382	\$ 0.4873	\$ 0.0256	\$ 0.5129	\$ (0.0515)	\$ 0.4614
11 12	Block Size Cost of Gas	Cutoff for First Block Cost of Gas Rate	\$	0.6984			\$ 0.7009	-		\$ -		
13 14	R3 Customer Charge Winter	e Charge for 1st Therms	\$	15.39 0.5632	\$ - \$ 0.0352	\$ - \$ 0.0352		\$ 15.39 \$ 0.6337	\$ - \$ 0.0182	\$ 15.39 \$ 0.6519	\$ - \$ (0.0352)	\$ 15.39 \$ 0.6167
15 16	LDAC Charge Energy Charge	Charge for Therms over 1st	\$	0.1318 0.5632	\$ 0.0352	\$ 0.0352	\$ 0.1382	\$ 0.6337	\$ 0.0182		\$ (0.0352)	
17 18	Block Size Cost of Gas	Cutoff for First Block Cost of Gas Rate	\$	1.1829	0.0002	0.0002	\$ 1.2102	-	0.0702	- 0.0079	(0.0332)	5 0.0107
19 20	Summer LDAC Charge	Charge for 1st Therms	\$	0.5632 0.1318	\$ 0.0352	\$ 0.0352	\$ 0.1382	\$ 0.6337	\$ 0.0182	\$ 0.6519	\$ (0.0352)	\$ 0.6167
21 22	Energy Charge Block Size	Cutoff for First Block	\$	0.5632	\$ 0.0352	\$ 0.0352		\$ 0.6337	\$ 0.0182	\$ 0.6519 \$ -	\$ (0.0352)	\$ 0.6167
23	Cost of Gas	Cost of Gas Rate	\$	0.6984			\$ 0.7009					
24 25	R4 Winter Customer Summer Custom		\$	8.47 15.39	\$ - \$ -			\$ 8.47 \$ 15.39		\$ 8.47 \$ 15.39	\$ - \$ -	\$ 8.47 \$ 15.39
26	Winter	Charge for 1st Therms	\$	0.3098	\$ 0.0194	\$ 0.0194		\$ 0.3485		\$ 0.3585	\$ (0.0194)	
27	LDAC Charge		\$	0.1318			\$ 0.1382				, ,	
28 29	Energy Charge Block Size	Charge for Therms over 1st Cutoff for First Block	\$	0.3098	\$ 0.0194	\$ 0.0194		\$ 0.3485	\$ 0.0100	\$ 0.3585 \$ -	\$ (0.0194)	\$ 0.3392
30 31 32	Cost of Gas <u>Summer</u> LDAC Charge	Cost of Gas Rate Charge for 1st Therms	\$ \$ \$	0.6506 0.5632 0.1318	\$ 0.0352	\$ 0.0352	\$ 0.1382	\$ 0.6337	\$ 0.0182	\$ 0.6519	\$ (0.0352)	\$ 0.6167
33 34	Energy Charge Block Size	Charge for Therms over 1st Cutoff for First Block		0.1316	\$ 0.0352	\$ 0.0352	\$ 0.1302	\$ 0.6337	\$ 0.0182	\$ 0.6519 \$	\$ (0.0352)	\$ 0.6167
35	Cost of Gas	Cost of Gas Rate	\$	0.6984								
36	41 Customer Charge		\$	57.06	\$ 2.48			\$ 62.03	\$ 1.27	\$ 63.30	\$ (2.48)	
37 38	<u>Winter</u> LDAC Charge	Charge for 1st Therms	\$	0.4688 0.0991	\$ 0.0160	\$ 0.0160	\$ 0.1055	\$ 0.5007	\$ 0.0081	\$ 0.5088	\$ (0.0160)	\$ 0.4928
39 40	Energy Charge Block Size	Charge for Therms over 1st Cutoff for First Block	\$	0.3149 100	\$ 0.0160	\$ 0.0160		\$ 0.3469 100	\$ 0.0081	\$ 0.3550 100	\$ (0.0160)	\$ 0.3390
41 42	Cost of Gas Summer	Cost of Gas Rate Charge for 1st Therms	\$	1.1831 0.4688	\$ 0.0160	\$ 0.0160	\$ 1.2104	\$ 0.5007	\$ 0.0081	\$ 0.5088	\$ (0.0160)	\$ 0.4928
43 44	LDAC Charge Energy Charge	-	\$	0.0991	\$ 0.0160	\$ 0.0160	\$ 0.1055	\$ 0.3469	\$ 0.0081	\$ 0.3550	\$ (0.0160)	
45 46	Block Size Cost of Gas	Cutoff for First Block Cost of Gas Rate	\$	20 0.6991	0.0100	0.0700	\$ 0.7016	20	0.0007	20	(0.0700)	ŷ 0.3330
46	42 Customer Charge		\$	171.19	\$ 7.42	\$ 7.42	\$ 0.7016	\$ 186.03	\$ 3.81	\$ 189.84	\$ (7.42)	\$ 182.42
48 49	Winter LDAC Charge	Charge for 1st Therms	\$	0.4261 0.0991	\$ 0.0149	\$ 0.0149	\$ 0.1055	\$ 0.4558			\$ (0.0149)	
50 51	Energy Charge Block Size	Charge for Therms over 1st Cutoff for First Block	\$	0.2839	\$ 0.0149	\$ 0.0149	3.7000	\$ 0.3136 1,000	\$ 0.0076	\$ 0.3212 1,000	\$ (0.0149)	\$ 0.3063
52 53	Cost of Gas Summer	Cost of Gas Rate Charge for 1st Therms	\$	1.1831 0.4261	\$ 0.0149	\$ 0.0149	\$ 1.2104	\$ 0.4558	\$ 0.0076	\$ 0.4634	\$ (0.0149)	\$ 0.4485
54 55	LDAC Charge Energy Charge	Charge for Therms over 1st	\$	0.0991 0.2839	\$ 0.0149		\$ 0.1055	\$ 0.3136			\$ (0.0149)	
56	Block Size	Cutoff for First Block		400				400		400	, , , , ,	
57	Cost of Gas	Cost of Gas Rate	\$	0.6991			\$ 0.7016					

(a) (b)	(c)		(d)	(e)	(f)	(g)	(h) = d + e + f	(i)	(j) = h + i	(k) = -e	(1) = j + k
Rate		С	urrent	\$4M Increase for 12-mo delayed First Step effective 8/1/22-7/31/23	\$4M Increase for First Step effective 8/1/2022 - until next rate case	Calculated LDAC & COG	Proposed Rate Effective 8/1/22 (includes delayed step 1 collection and step 1 adjustment)	\$2.1M Increase for Second Step adjustment effective 9/1/2022 - until next rate case	Proposed Rate Effective 9/1/22 including step 2 adjustment	\$4M Decrease for delayed first step full recovery effective 8/1/23	Proposed Rate Effective 8/1/2
3 Customer Char	ge	\$	734.69	\$ 30.82	\$ 30.82		\$ 796.32	\$ 15.66	\$ 811.98	\$ (30.82)	\$ 781.1
Winter	Charge for 1st Therms	\$	0.2620	\$ 0.0097	\$ 0.0097		\$ 0.2814	\$ 0.0049	\$ 0.2863	\$ (0.0097)	\$ 0.276
LDAC Charge		\$	0.0991			\$ 0.1055					
Energy Charge	Charge for Therms over 1st	\$	0.2620	\$ 0.0097	\$ 0.0097		\$ 0.2814	\$ 0.0049	\$ 0.2863	\$ (0.0097)	\$ 0.276
Block Size	Cutoff for First Block	1	_				_		_	,	,
Cost of Gas	Cost of Gas Rate	\$	1.1831			\$ 1.2104					
Summer	Charge for 1st Therms	\$	0.1198	\$ 0.0097	\$ 0.0097	0	\$ 0.1392	\$ 0.0049	\$ 0.1441	\$ (0.0097)	\$ 0.134
LDAC Charge	Charge for for monito	\$	0.0991	0.0001	0.0007	\$ 0.1055	0.7002	0.0070		(0.0007)	0.10
Energy Charge	Charge for Therms over 1st	-	0.1198	\$ 0.0097	\$ 0.0097	0.7000	\$ 0.1392	\$ 0.0049	\$ 0.1441	\$ (0.0097)	\$ 0.134
Block Size	Cutoff for First Block	_	-	0.0001	0.0007		5.7552	0.0070	-	(0.0007)	0.131
Cost of Gas	Cost of Gas Rate	\$	0.6991			\$ 0.7016					
1 Customer Char		\$	57.06	\$ 2.51	\$ 2.51	\$ 0.7010	\$ 62.08	\$ 1.30	\$ 63.38	\$ (2.51)	\$ 60.8
Winter	Charge for 1st Therms	\$	0.2819	\$ 0.0101	\$ 0.0101			\$ 0.0050	\$ 0.3070	\$ (0.0101)	
LDAC Charge	Charge for 13t Therms	\$	0.0991	0.0101	0.0101	\$ 0.1055	0.3020	0.0030	0.3070	(0.0101)	\$ 0.237
Energy Charge	Charge for Therms over 1st	\$	0.1833	\$ 0.0101	\$ 0.0101	\$ 0.1055	\$ 0.2034	\$ 0.0050	\$ 0.2084	\$ (0.0101)	\$ 0.198
Block Size	Cutoff for First Block	Ψ	100	0.0101	0.0101		100	0.0030	100	(0.0101)	\$ 0.136
Cost of Gas	Cost of Gas Rate	\$	1.1814			\$ 1.2087	100		100		
Summer	Charge for 1st Therms	\$	0.2819	\$ 0.0101	\$ 0.0101	\$ 1.2007	\$ 0.3020	\$ 0.0050	\$ 0.3070	\$ (0.0101)	\$ 0.297
LDAC Charge	Charge for 1st memis	\$	0.2819	\$ 0.0101	0.0101	\$ 0.1055	\$ 0.3020	5 0.0030	0.3070	(0.0101)	\$ 0.237
Energy Charge	Charge for Thorms over 1st	\$	0.1833	\$ 0.0101	\$ 0.0101	\$ 0.1055	\$ 0.2034	\$ 0.0050	\$ 0.2084	\$ (0.0101)	\$ 0.198
		Ф	100	\$ 0.0101	\$ 0.0101			\$ 0.0050		\$ (0.0101)	\$ 0.198
Block Size	Cutoff for First Block Cost of Gas Rate		0.6975			\$ 0.7000	100		100		
Cost of Gas		\$		\$ 7.30	r 7.00	\$ 0.7000	¢ 405.00	6 277	6 400.57	¢ (7.00)	ć 402.2
Customer Char		-	171.19	7	\$ 7.30 \$ 0.0087		\$ 185.80		\$ 189.57	\$ (7.30)	
Winter	Charge for 1st Therms	\$	0.2428	\$ 0.0087	\$ 0.0087	0 0 1055	\$ 0.2602	\$ 0.0045	\$ 0.2647	\$ (0.0087)	\$ 0.256
LDAC Charge	0, 1, 7, 1,	3	0.0991			\$ 0.1055	0.4704	0.0045		(0.0007)	4 0474
Energy Charge		\$	0.1617	\$ 0.0087	\$ 0.0087		*	\$ 0.0045		\$ (0.0087)	\$ 0.174
Block Size	Cutoff for First Block		1,000				1,000		1,000		
Cost of Gas	Cost of Gas Rate	\$	1.1814		l	\$ 1.2087			l		
Summer	Charge for 1st Therms	\$	0.1759	\$ 0.0087	\$ 0.0087		\$ 0.1933	\$ 0.0045	\$ 0.1978	\$ (0.0087)	\$ 0.189
LDAC Charge		\$	0.0991			\$ 0.1055					
Energy Charge		\$	0.1000	\$ 0.0087	\$ 0.0087		\$ 0.1174	\$ 0.0045		\$ (0.0087)	\$ 0.113
Block Size	Cutoff for First Block		1,000				1,000		1,000		
Cost of Gas	Cost of Gas Rate	\$	0.6975			\$ 0.7000					
Customer Char	•	\$	756.10	\$ 32.77	\$ 32.77		*	\$ 16.88	\$ 838.52	\$ (32.77)	
Winter	Charge for 1st Therms	\$	0.1697	\$ 0.0061	\$ 0.0061		\$ 0.1819	\$ 0.0032	\$ 0.1851	\$ (0.0061)	\$ 0.179
LDAC Charge		\$	0.0991			\$ 0.1055					
Energy Charge		\$	0.1697	\$ 0.0061	\$ 0.0061		\$ 0.1819	\$ 0.0032	\$ 0.1851	\$ (0.0061)	\$ 0.179
Block Size	Cutoff for First Block		-				=		-		
Cost of Gas	Cost of Gas Rate	\$	1.1814			\$ 1.2087					
Summer	Charge for 1st Therms	\$	0.0814	\$ 0.0061	\$ 0.0061		\$ 0.0936	\$ 0.0032	\$ 0.0968	\$ (0.0061)	\$ 0.090
LDAC Charge		\$	0.0991			\$ 0.1055					
Energy Charge		\$	0.0814	\$ 0.0061	\$ 0.0061		\$ 0.0936	\$ 0.0032	\$ 0.0968	\$ (0.0061)	\$ 0.090
Block Size	Cutoff for First Block		-				-		-		
Cost of Gas	Cost of Gas Rate	\$	0.6975			\$ 0.7000					
Customer Char	•	\$	756.10	Ŧ··			\$ 821.64				
Winter	Charge for 1st Therms	\$	0.0648	\$ 0.0023	\$ 0.0023		\$ 0.0693	\$ 0.0012	\$ 0.0705	\$ (0.0023)	\$ 0.068
LDAC Charge		\$	0.0991			\$ 0.1055					1
Energy Charge		\$	0.0648	\$ 0.0023	\$ 0.0023		\$ 0.0693	\$ 0.0012	\$ 0.0705	\$ (0.0023)	\$ 0.068
Block Size	Cutoff for First Block		-				-		-		1
Cost of Gas	Cost of Gas Rate	\$	1.1814			\$ 1.2087				]	I
Summer	Charge for 1st Therms	\$	0.0352	\$ 0.0023	\$ 0.0023		\$ 0.0397	\$ 0.0012	\$ 0.0409	\$ (0.0023)	\$ 0.038
LDAC Charge	Charge for fat Hierina	\$	0.0332	0.5025	0.0023	\$ 0.1055	0.0397	0.0012	0.0409	(0.0023)	0.0300
Energy Charge	Charge for Therms over 1st	-	0.0991	\$ 0.0023	\$ 0.0023	φ U.1U55	\$ 0.0397	\$ 0.0012	\$ 0.0409	\$ (0.0023)	\$ 0.038
Block Size	Cutoff for First Block	à	0.0352	Ψ 0.0023	φ 0.0023		φ 0.0397	0.0012	φ 0.0409	φ (0.0023)	ψ. U.U381
		\$	0.6975			¢ 0.7000	-		_		1
Cost of Gas	Cost of Gas Rate	Ъ	0.0975			\$ 0.7000					1

Line No	(a) (b)	(c)	(d)		(e)	(f)	(g)	(h) = d + e + f	(i)	(j) = h + i	(k) = -e	(I) = j + k
					\$4M Increase for 12-mo	\$4M Increase for First	Calculated	Proposed Rate Effective 8/1/22	\$2.1M Increase for Second Step	Proposed Rate Effective	\$4M Decrease for	
					delayed First Step effective	Step effective 8/1/2022 -	LDAC &	(includes delayed step 1	adjustment effective 9/1/2022 -	9/1/22 including step 2	delayed first step full	Proposed Rate
1	Rate		Curre	nt	8/1/22-7/31/23	until next rate case	COG	collection and step 1 adjustment)	until next rate case	adjustment	recovery effective 8/1/23	Effective 8/1/23
113	R5 Customer Charge			0.01	\$ -	\$ -		\$ 20.01		\$ 20.01	\$ -	\$ 20.01
114		or 1st Therms		1997	\$ 0.0669	\$ 0.0669		\$ 0.6335			\$ (0.0669)	
115	LDAC Charge		\$ 0.	1318							, ,	
116	Energy Charge Charge for	or Therms over 1st		1997	\$ 0.0669	\$ 0.0669		\$ 0.6335	\$ 0.0333	\$ 0.6668	\$ (0.0669)	\$ 0.5999
117		First Block		-				-		-		
118	Cost of Gas Cost of Ga	as Rate	\$ 1.	1829								
119	Summer Charge for	or 1st Therms	\$ 0.	1997	\$ 0.0669	\$ 0.0669		\$ 0.6335	\$ 0.0333	\$ 0.6668	\$ (0.0669)	\$ 0.5999
120	LDAC Charge			1318								
121	Energy Charge Charge for	or Therms over 1st	\$ 0.	1997	\$ 0.0669	\$ 0.0669		\$ 0.6335	\$ 0.0333	\$ 0.6668	\$ (0.0669)	\$ 0.5999
122		First Block		-				-		-		
123	Cost of Gas Cost of Ga	as Rate		984								
124	R6 Customer Charge			0.01	\$ -	\$ -		\$ 20.01	\$ -	\$ 20.01	\$ -	\$ 20.01
125		or 1st Therms		7322	\$ 0.0458	\$ 0.0458		\$ 0.8238	\$ 0.0237	\$ 0.8475	\$ (0.0458)	\$ 0.8017
126	LDAC Charge			1318	_							,
127		or Therms over 1st	\$ 0.	7322	\$ 0.0458	\$ 0.0458		\$ 0.8238	\$ 0.0237	\$ 0.8475	\$ (0.0458)	\$ 0.8017
128		First Block		-				-		-		
129	Cost of Gas Cost of Ga			1829	\$ 0.0458	0.0450		¢ 0.000	¢ 0.007	6 0.0475	¢ (0.0450)	ć 0.0017
130 131				7322 1318	\$ 0.0458	\$ 0.0458		\$ 0.8238	\$ 0.0237	\$ 0.8475	\$ (0.0458)	\$ 0.8017
131	LDAC Charge			7322	\$ 0.0458	\$ 0.0458		\$ 0.8238	\$ 0.0237	\$ 0.8475	\$ (0.0458)	\$ 0.8017
133		or Therms over 1st First Block	<b>\$</b> 0.	322	0.0456	\$ 0.0458		ŷ U.0230	\$ 0.0237	\$ 0.8475	\$ (0.0456)	\$ 0.8017
134	Cost of Gas Cost of Ga		\$ 0.	5984				-		-		
135	R7 Winter Customer Charge	as itale		1.01	\$ -	\$ -		\$ 11.01	\$ -	\$ 11.01	\$ -	\$ 11.01
136	Summer Customer Charge			0.01	\$ -	\$ -			\$ -		\$ -	\$ 20.01
137				1027	\$ 0.0252	\$ 0.0252			\$ 0.0130		\$ (0.0252)	
138	LDAC Charge			1318	0.0202	0.0202		0.1001	0.0700	0.7007	(0.0202)	0.7703
139				1027	\$ 0.0252	\$ 0.0252		\$ 0.4531	\$ 0.0130	\$ 0.4661	\$ (0.0252)	\$ 0.4409
140		First Block		-				_		-	( , , ,	,
141	Cost of Gas Cost of Ga	as Rate	\$ 0.	5506								
142	Summer Charge for	or 1st Therms	\$ 0.	7322	\$ 0.0458	\$ 0.0458		\$ 0.8238	\$ 0.0237	\$ 0.8475	\$ (0.0458)	\$ 0.8017
143	LDAC Charge		\$ 0.	1318								
144		or Therms over 1st	\$ 0.	7322	\$ 0.0458	\$ 0.0458		\$ 0.8238	\$ 0.0237	\$ 0.8475	\$ (0.0458)	\$ 0.8017
145		First Block		-				-		-		
146	Cost of Gas Cost of Ga	as Rate		984								
147	44 Customer Charge			4.18	\$ 3.23	\$ 3.23			\$ 1.65	\$ 82.29	\$ (3.23)	
148				6094	\$ 0.0208	\$ 0.0208		\$ 0.6509	\$ 0.0105	\$ 0.6614	\$ (0.0208)	\$ 0.6407
149	LDAC Charge			991								
150			\$ 0.	1094	\$ 0.0208	\$ 0.0208			\$ 0.0105		\$ (0.0208)	\$ 0.4406
151 152		First Block		100				100		100		
152	Cost of Gas Cost of Ga			1831 3094	\$ 0.0208	\$ 0.0208		\$ 0.6509	\$ 0.0105	\$ 0.6614	\$ (0.0208)	\$ 0.6407
153	Summer Charge for LDAC Charge			094	φ 0.0208	φ 0.0208		0.6509	0.0105	φ 0.0014	φ (0.0208)	φ U.04U/
154		or Therms over 1st		1094	\$ 0.0208	\$ 0.0208		\$ 0.4510	\$ 0.0105	\$ 0.4614	\$ (0.0208)	\$ 0.4406
156		First Block	Ψ 0.	20	Ψ 0.0200	0.0200		20	0.0703	20	ψ (0.0200)	\$ 0.4400
157	Cost of Gas Cost of Ga		\$ 0.	5991				20		20		
158	45 Customer Charge			2.55	\$ 9.64	\$ 9.64		\$ 241.83	\$ 4.95	\$ 246.78	\$ (9.64)	\$ 237.14
159		or 1st Therms		5539	\$ 0.0193			\$ 0.5925			\$ (0.0193)	
160	LDAC Charge			991	-						(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
161		or Therms over 1st		3691	\$ 0.0193	\$ 0.0193		\$ 0.4077	\$ 0.0098	\$ 0.4175	\$ (0.0193)	\$ 0.3982
162	Block Size Cutoff for	First Block	1	,000				1,000		1,000		
163	Cost of Gas Cost of Ga	as Rate	\$ 1.	1831								
164				5539	\$ 0.0193	\$ 0.0193		\$ 0.5925	\$ 0.0098	\$ 0.6023	\$ (0.0193)	\$ 0.5830
165	LDAC Charge			991								
166		or Therms over 1st	\$ 0.	3691	\$ 0.0193	\$ 0.0193		\$ 0.4077	\$ 0.0098		\$ (0.0193)	\$ 0.3982
167		First Block		400				400		400		
168	Cost of Gas Cost of Ga	as Rate	\$ 0.	3991								

Line No	(a)	(b)	(c)		(d)	(e)	(f)	(g)	(h) = d + e + f	(i)	(j) = h + i	(k) = -e	(1) = j + k
						\$4M Increase for 12-mo	\$4M Increase for First	Calculated	Proposed Rate Effective 8/1/22	\$2.1M Increase for Second Step	Proposed Rate Effective	\$4M Decrease for	
						delayed First Step effective	Step effective 8/1/2022 -	LDAC &	(includes delayed step 1	adjustment effective 9/1/2022 -	9/1/22 including step 2	delayed first step full	Proposed Rate
1	Rate				urrent	8/1/22-7/31/23	until next rate case	COG	collection and step 1 adjustment)	until next rate case	adjustment	recovery effective 8/1/23	
169	46	Customer Charge		\$	955.10	\$ 40.06	\$ 40.06		\$ 1,035.22 \$ 0.3658		\$ 1,055.58	\$ (40.06)	
170 171		Winter LDAC Charge	Charge for 1st Therms	\$	0.3406 0.0991	\$ 0.0126	\$ 0.0126		\$ 0.3658	\$ 0.0063	\$ 0.3722	\$ (0.0126)	\$ 0.3596
171		Energy Charge	Charge for Therms over 1st	\$	0.3406	\$ 0.0126	\$ 0.0126		\$ 0.3658	\$ 0.0063	\$ 0.3722	\$ (0.0126)	\$ 0.3596
173		Block Size	Cutoff for First Block	Ť	-	0.0120	0.0720		-	0.000	- 0.0722	(0.0120)	ŷ 0.5550
174		Cost of Gas	Cost of Gas Rate	\$	1.1831								
175		Summer	Charge for 1st Therms	\$	0.1557	\$ 0.0126	\$ 0.0126		\$ 0.1810	\$ 0.0063	\$ 0.1873	\$ (0.0126)	\$ 0.1747
176		LDAC Charge		\$	0.0991					_			
177		Energy Charge	Charge for Therms over 1st	\$	0.1557	\$ 0.0126	\$ 0.0126		\$ 0.1810	\$ 0.0063	\$ 0.1873	\$ (0.0126)	\$ 0.1747
178 179		Block Size Cost of Gas	Cutoff for First Block Cost of Gas Rate	\$	0.6991				-		-		
180	55	Customer Charge		\$	74.18	\$ 3.26	\$ 3.26		\$ 80.70	\$ 1.69	\$ 82.39	\$ (3.26)	\$ 79.13
181		Winter	Charge for 1st Therms	\$	0.3665	\$ 0.0100	\$ 0.0100			\$ 0.0065		\$ (0.0100)	
182		LDAC Charge		\$	0.0991								
183		Energy Charge		\$	0.2383	\$ 0.0131	\$ 0.0131		\$ 0.2645	\$ 0.0065		\$ (0.0131)	\$ 0.2579
184		Block Size	Cutoff for First Block	_	100				100		100		
185 186		Cost of Gas	Cost of Gas Rate Charge for 1st Therms	\$	1.1814 0.3665	\$ 0.0131	\$ 0.0131		\$ 0.3927	\$ 0.0065	\$ 0.3992	\$ (0.0131)	\$ 0.3861
187		Summer LDAC Charge	Charge for 1st Therms	\$	0.0991	5 0.0131	\$ 0.0131		\$ 0.3921	\$ 0.0065	\$ 0.3992	\$ (0.0131)	\$ 0.3801
188		Energy Charge	Charge for Therms over 1st		0.2383	\$ 0.0131	\$ 0.0131		\$ 0.2645	\$ 0.0065	\$ 0.2710	\$ (0.0131)	\$ 0.2579
189		Block Size	Cutoff for First Block	ľ	100	•			100		100	, , , ,	,
190		Cost of Gas	Cost of Gas Rate	\$	0.6975								
191	56	Customer Charge		\$	222.55	\$ 9.49			\$ 241.54	\$ 4.89	\$ 246.43	\$ (9.49)	
192		Winter	Charge for 1st Therms	\$	0.3157	\$ 0.0113	\$ 0.0113		\$ 0.3383	\$ 0.0059	\$ 0.3442	\$ (0.0113)	\$ 0.3328
193 194		LDAC Charge Energy Charge	Charge for Therms over 1st	\$	0.0991 0.2102	\$ 0.0113	\$ 0.0113		\$ 0.2328	\$ 0.0059	\$ 0.2387	\$ (0.0113)	\$ 0.2274
195		Block Size	Cutoff for First Block	φ	1,000	0.0113	\$ 0.0113		1,000	ÿ 0.003 <del>9</del>	1,000	\$ (0.0113)	3 0.2274
196		Cost of Gas	Cost of Gas Rate	\$	1.1814				1,000		1,000		
197		Summer	Charge for 1st Therms	\$	0.2287	\$ 0.0113	\$ 0.0113		\$ 0.2513	\$ 0.0059	\$ 0.2572	\$ (0.0113)	\$ 0.2458
198		LDAC Charge		\$	0.0991								
199		Energy Charge		\$	0.1300	\$ 0.0113	\$ 0.0113		\$ 0.1526	\$ 0.0059		\$ (0.0113)	\$ 0.1472
200 201		Block Size Cost of Gas	Cutoff for First Block Cost of Gas Rate	\$	1,000 0.6975				1,000		1,000		
201	57	Customer Charge		\$	982.93	\$ 42.60	\$ 42.60		\$ 1,068.14	\$ 21.95	\$ 1,090.08	\$ (42.60)	\$ 1,047.48
203	01	Winter Winter	Charge for 1st Therms	\$	0.2207	\$ 0.0079			\$ 0.2365			\$ (0.0079)	
204		LDAC Charge	g	\$	0.0991	-	,				*	()	,
205		Energy Charge	Charge for Therms over 1st	\$	0.2207	\$ 0.0079	\$ 0.0079		\$ 0.2365	\$ 0.0042	\$ 0.2407	\$ (0.0079)	\$ 0.2327
206		Block Size	Cutoff for First Block						-		-		
207 208		Cost of Gas	Cost of Gas Rate	\$	1.1814 0.1059	\$ 0.0079	\$ 0.0079		\$ 0.1217	\$ 0.0042	\$ 0.1259	\$ (0.0079)	\$ 0.1179
208		Summer LDAC Charge	Charge for 1st Therms	\$	0.1059	5 0.0079	\$ 0.0079		\$ 0.1217	\$ 0.0042	\$ 0.1259	\$ (0.0079)	\$ 0.1179
210		Energy Charge	Charge for Therms over 1st	-	0.1059	\$ 0.0079	\$ 0.0079		\$ 0.1217	\$ 0.0042	\$ 0.1259	\$ (0.0079)	\$ 0.1179
211		Block Size	Cutoff for First Block		-	-	,		-		-	()	,
212		Cost of Gas	Cost of Gas Rate	\$	0.6975								
213	58	Customer Charge		\$	982.93	•	\$ 42.61		\$ 1,068.14			\$ (42.61)	
214		Winter	Charge for 1st Therms	\$	0.0842	\$ 0.0029	\$ 0.0029		\$ 0.0901	\$ 0.0015	\$ 0.0916	\$ (0.0029)	\$ 0.0887
215 216		LDAC Charge Energy Charge	Charge for Therms over 1st	\$	0.0991 0.0842	\$ 0.0029	\$ 0.0029		\$ 0.0901	\$ 0.0015	\$ 0.0916	\$ (0.0029)	\$ 0.0887
216		Block Size	Cutoff for First Block	à	0.0042	φ 0.0029	φ 0.0029		0.0901	ŷ 0.0015	φ 0.0916	φ (U.UU29)	φ U.Uδδ/
218		Cost of Gas	Cost of Gas Rate	\$	1.1814								
219		Summer	Charge for 1st Therms	\$	0.0457	\$ 0.0029	\$ 0.0029		\$ 0.0516	\$ 0.0015	\$ 0.0531	\$ (0.0029)	\$ 0.0502
220		LDAC Charge		\$	0.0991								
221		Energy Charge	Charge for Therms over 1st	\$	0.0457	\$ 0.0029	\$ 0.0029		\$ 0.0516	\$ 0.0015	\$ 0.0531	\$ (0.0029)	\$ 0.0502
222		Block Size	Cutoff for First Block	s	- 0.6975				-		-		
223		Cost of Gas	Cost of Gas Rate	Þ	0.0975								

R1	}	<b>Nov-22</b> 20	<b>Dec-22</b> 26	<b>Jan-23</b> 27	<b>Feb-23</b> 26	Mar-23 23	<b>Apr-23</b>	Winter 140	-	<b>May-23</b>	<b>Jun-23</b>	<b>Jul-23</b>	<b>Aug-23</b>	<b>Sep-22</b>	Oct-22 13	Summer 69	<b>Tot</b> 209
_CST _RATE1w _RATE2w _BLOCKw	\$15.39 \$0.5129 \$0.5129	\$15.39 \$0.00 \$10.07	\$15.39 \$0.00 \$13.14	\$15.39 \$0.00 \$13.97	\$15.39 \$0.00 \$13.37	\$15.39 \$0.00 \$11.77	\$15.39 \$0.00 \$9.59	\$92.35 \$0.00 \$71.92									
_CST _RATE1s _RATE2s _BLOCKs	\$15.39 \$0.5129 \$0.5129									\$15.39 \$0.00 \$7.42	\$15.39 \$0.00 \$5.86	\$15.39 \$0.00 \$4.75	\$15.39 \$0.00 \$4.86	\$15.39 \$0.00 \$5.42	\$15.39 \$0.00 \$6.86	\$92.35 \$0.00 \$35.18	\$18 \$0 \$10
		\$25.46	\$28.54	\$29.36	\$28.77	\$27.16	\$24.98	\$164.27		\$22.82	\$21.25	\$20.14	\$20.26	\$20.81	\$22.25	\$127.53	\$29
_COGw	\$1.1747	\$1.1747 \$23.06	\$1.1747 \$30.11	\$1.1747 \$32.00	\$1.1747 \$30.63	\$1.1747 \$26.95	\$1.1747 \$21.97	\$1.1747 \$164.71									
_COGs	\$0.6984									\$0.6984 \$10.11	\$0.6984 \$7.98	\$0.6984 \$6.47	\$0.6984 \$6.62	\$0.6984 \$7.38	\$0.6984 \$9.34	\$0.6984 \$47.90	\$1.0 \$21
_LDACw	\$0.1318	\$0.1318 \$2.59	\$0.1318 \$3.38	\$0.1318 \$3.59	\$0.1318 \$3.44	\$0.1318 \$3.02	\$0.1318 \$2.46	\$0.1318 \$18.48	_LDACs \$0.1318	\$0.1318 \$1.91	\$0.1318 \$1.51	\$0.1318 \$1.22	\$0.1318 \$1.25	\$0.1318 \$1.39	\$0.1318 \$1.76	\$0.1318 \$9.04	\$0.1 \$27
		\$51.11	\$62.02	\$64.95	\$62.84	\$57.13	\$49.41	\$347.46		\$34.83	\$30.73	\$27.83	\$28.13	\$29.59	\$33.36	\$184.47	\$53
R1	}	<b>Nov-22</b> 20	<b>Dec-22</b> 26	<b>Jan-23</b> 27	<b>Feb-23</b> 26	Mar-23 23	<b>Apr-23</b> 19	Winter 140		<b>May-23</b> 14	<b>Jun-23</b> 11	<b>Jul-23</b> 9	<b>Aug-23</b>	<b>Sep-22</b> 11	Oct-22 13	Summer 69	T 2
_CST _RATE1w _RATE2w _BLOCKw	\$15.39 \$0.3844 \$0.3844	\$15.39 \$0.00 \$7.55	\$15.39 \$0.00 \$9.85	\$15.39 \$0.00 \$10.47	\$15.39 \$0.00 \$10.02	\$15.39 \$0.00 \$8.82	\$15.39 \$0.00 \$7.19	\$92.34 \$0.00 \$53.90									
_CST _RATE1s _RATE2s _BLOCKs	\$15.39 \$0.3844 \$0.3844									\$15.39 \$0.00 \$5.56	\$15.39 \$0.00 \$4.39	\$15.39 \$0.00 \$3.56	\$15.39 \$0.00 \$3.65	\$15.39 \$0.00 \$4.06	\$15.39 \$0.00 \$5.14	\$92.34 \$0.00 \$26.36	\$18 \$0 \$8
		\$22.94	\$25.24	\$25.86	\$25.41	\$24.21	\$22.58	\$146.24		\$20.95	\$19.78	\$18.95	\$19.04	\$19.45	\$20.53	\$118.70	\$26
	\$1.1747	\$1.1747 \$23.06	\$1.1747 \$30.11	\$1.1747 \$32.00	\$1.1747 \$30.63	\$1.1747 \$26.95	\$1.1747 \$21.97	\$1.1747 \$164.71									
_COGs	\$0.6984								I DACe	\$0.6984 \$10.11	\$0.6984 \$7.98	\$0.6984 \$6.47	\$0.6984 \$6.62	\$0.6984 \$7.38	\$0.6984 \$9.34	\$0.6984 \$47.90	\$1.0 \$21
_LDACW	\$0.1318	\$0.1318 \$2.59	\$0.1318 \$3.38	\$0.1318 \$3.59	\$0.1318 \$3.44	\$0.1318 \$3.02	\$0.1318 \$2.46	\$0.1318 \$18.48	\$0.1318	\$0.1318 \$1.91	\$0.1318 \$1.51	\$0.1318 \$1.22	\$0.1318 \$1.25	\$0.1318 \$1.39	\$0.1318 \$1.76	\$0.1318 \$9.04	\$0. \$2
		\$48.58	\$58.73	\$61.45	\$59.48	\$54.18	\$47.01	\$329.43	] [	\$32.97	\$29.26	\$26.64	\$26.91	\$28.22	\$31.64	\$175.64	\$50
									, ,								
		\$2.52 5.19%	\$3.30 5.61%	\$3.50 5.70%	\$3.35 5.64%	\$2.95 5.45%	\$2.41 5.12%	\$18.03 5.47%		\$1.86 5.65%	\$1.47 5.02%	\$1.19 4.48%	\$1.22 4.54%	\$1.36 4.82%	\$1.72 5.44%	\$8.83 5.03%	\$26 5.3
	1																1
		\$2.52 11.00%	\$3.30 13.06%	\$3.50 13.54%	\$3.35 13.19%	\$2.95 12.19%	\$2.41 10.65%	\$18.03 12.33%		\$1.86 8.89%	\$1.47 7.43%	\$1.19 6.29%	\$1.22 6.41%	\$1.36 6.99%	\$1.72 8.38%	\$8.83 7.44%	\$26 10.
	RATE1WRATE2WBLOCKWCSTRATE1SRATE2SBLOCKSCOGWCOGSLDACWCTATERATE1WRATE2WBLOCKWCSTRATE1SRATE2SBLOCKSCOGSCOGSCOGSCOGSCOGSCTATE1SRATE2SRATE2SRATE2SRATE2SRATE2SROCKSCOGSCOGSCOGSCOGSCOGSCOGSCTATE1SRATE2SRATE2SROCKSCOG		CST	CST	CST	CST	CST \$15.39 \$15.3	CST \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$0.00 \$	CST \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$2.35	CST	CST \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$0.00	CST \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$2.35 \$2.35 \$2.2	CST \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$15.39 \$30.00 \$0.0	CST \$16.30 \$15.30 \$15.30 \$15.30 \$16.3	CST \$15.50 \$16.90 \$61.00 \$50.00 \$0.0	CST \$15.39 \$15.3	CST \$15.00 \$15.00 \$10.00 \$0.00

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Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty
Bill Impact Analysis - Cost of Gas Filing Methodology
Summer Season (May - Oct.)

Line No							_			ortn Natural ( ost of Gas Filin	
71	Winter Season (Jan Apr	Nov - Dec )						ын шрасі	Analysis - Co	ost of Gas Filli	g we
72	Residential Heating (R3)	., 1101 200.)									
73	PROPOSED										7
74	Prop	R3		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
75	average Usage (Therms)		Ī	83	122	145	139	105	62	657	
76											
77	Winter:										
78	Cust. Chg	_CST	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.35	
79	Headblock	_RATE1w	\$0.6519	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
80	Tailblock	_RATE2w	\$0.6519	\$54.28	\$79.48	\$94.78	\$90.30	\$68.72	\$40.71	\$428.28	
81	HB Threshold	_BLOCKw	-								
82											
83	Summer:										
84	Cust. Chg	_CST	\$15.39								
85	Headblock	_RATE1s	\$0.6519								
86	Tailblock	_RATE2s	\$0.6519								
87	HB Threshold	_BLOCKs	-								
88											
89	Total Base Rate Amount			\$69.68	\$94.87	\$110.17	\$105.70	\$84.11	\$56.10	\$520.63	
90											
91	COG Rate - (Winter)	_COGw	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	
92	COG amount - Winter			\$97.82	\$143.22	\$170.79	\$162.72	\$123.83	\$73.36	\$771.74	
93											
94	COG Rate - (Summer)	_COGs	\$0.6984								
95	COG amount - Summer										
96											14
97	LDAC	_LDACW	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0
98	LDAC amount			\$10.98	\$16.07	\$19.16	\$18.26	\$13.89	\$8.23	\$86.59	
99											
100	Total Bill			\$178.47	\$254.16	\$300.12	\$286.68	\$221.83	\$137.70	\$1,378.96	╝

101 Winter Season (Jan. - Apr., Nov. - Dec.)

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	33	18	13	14	18	38	134	791
	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.35	\$184.71
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$21.57	\$11.64	\$8.72	\$8.88	\$11.53	\$25.06	\$87.40	\$515.68
	\$36.96	\$27.03	\$24.12	\$24.28	\$26.92	\$40.45	\$179.76	\$700.39
	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$1.0940
	\$23.11	\$12.47	\$9.35	\$9.52	\$12.35	\$26.85	\$93.64	\$865.38
ACs	+-2	¥ ·=· · ·		72.02	Ţ	<del>+</del> =3.00	123.01	7110.00
318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318
	\$4.36	\$2.35	\$1.76	\$1.80	\$2.33	\$5.07	\$17.67	\$104.26
		***	***	***	***			44 070 00
	\$64.43	\$41.86	\$35.23	\$35.59	\$41.60	\$72.37	\$291.07	\$1,670.03

102											
103	CURRENT										
104	Cur_	R3		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
105	average Usage (Therms)			83	122	145	139	105	62	657	
106											
107	Winter:										
108	Cust. Chg	_CST	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	
109	Headblock	_RATE1w	\$0.5678	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
110	Tailblock	_RATE2w	\$0.5678	\$47.28	\$69.23	\$82.55	\$78.65	\$59.85	\$35.46	\$373.03	
111	HB Threshold	_BLOCKw	-								
112											
113	Summer:										
114	Cust. Chg	_CST	\$15.50								
115	Headblock	RATE1s	\$0.5678								
116	Tailblock	_RATE2s	\$0.5678								
117	HB Threshold	_BLOCKs	-								
118											
119	Total Base Rate Amount			\$62.78	\$84.73	\$98.05	\$94.15	\$75.35	\$50.96	\$466.03	
120											
121	COG Rate - (Winter)		\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	\$1.1747	
122	COG amount - Winter			\$97.82	\$143.22	\$170.79	\$162.72	\$123.83	\$73.36	\$771.74	
123											
124	COG Rate - (Summer)	COGs	\$0.6984								
125	COG amount - Summer	_									
126											LDA
127	LDAC	LDACw	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.13
128	LDAC amount	_		\$10.98	\$16.07	\$19.16	\$18.26	\$13.89	\$8.23	\$86.59	1
129										·	
130	Total Bill			\$171.58	\$244.02	\$288.00	\$275.14	\$213.08	\$132.55	\$1,324.35	
131											
132	DIFFERENCE:										
133	Total Bill			\$6.90	\$10.15	\$12.12	\$11.54	\$8.76	\$5.14	\$54.61	1
134	% Change			4.02%	4.16%	4.21%	4.20%	4.11%	3.88%	4.12%	
135	- 3										
136	Base Rate			\$6.90	\$10.15	\$12.12	\$11.54	\$8.76	\$5.14	\$54.61	1
137	% Change			10.98%	11.97%	12.36%	12.26%	11.62%	10.10%	11.72%	
138				. 2.3070		0070					
139	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	1
140	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	check			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	_

May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
33	18	13	14	18	38	134	791
\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$186.00
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$18.79	\$10.14	\$7.60	\$7.74	\$10.04	\$21.83	\$76.13	\$449.15
\$34.29	\$25.64	\$23.10	\$23.24	\$25.54	\$37.33	\$169.13	\$635.15
<b>#0.0004</b>	<b>*</b> 0.0004	<b>#0.0004</b>	<b>#0.0004</b>	<b>#0.0004</b>	<b>#0.0004</b>	<b>#0.0004</b>	<b>#4.0040</b>
\$0.6984 \$23.11	\$0.6984 \$12.47	\$0.6984 \$9.35	\$0.6984 \$9.52	\$0.6984 \$12.35	\$0.6984 \$26.85	\$0.6984 \$93.64	\$1.0940 \$865.38
φ23.11	φ12.47	φυ.33	φ <del>υ</del> .52	φ12.33	φ20.00	φ93.04	φουσ.30
\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318
\$4.36	\$2.35	\$1.76	\$1.80	\$2.33	\$5.07	\$17.67	\$104.26

Summer Season (May - Oct.)

\$2.68	\$1.39	\$1.02	\$1.04	\$1.38	\$3.13	\$10.63	\$65.24
4.33%	3.45%	2.98%	3.01%	3.43%	4.51%	3.79%	4.07%
\$2.68	\$1.39	\$1.02	\$1.04	\$1.38	\$3.13	\$10.63	\$65.24
7.80%	5.44%	4.41%	4.47%	5.40%	8.37%	6.29%	10.27%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

143	PROPOSED										
144	Prop_	R4		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
145	average Usage (Therms)			81	118	140	133	103	62	636	
146											
147	Winter:										
148	Cust. Chg	_CST	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$50.79	
149	Headblock	_RATE1w	\$0.3585	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
150	Tailblock	_RATE2w	\$0.3585	\$28.87	\$42.28	\$50.36	\$47.68	\$36.77	\$22.12	\$228.08	
151	HB Threshold	_BLOCKw	-								
152											
153	Summer:										
154	Cust. Chg	_CST	\$15.39								
155	Headblock	_RATE1s	\$0.6519								
156	Tailblock	_RATE2s	\$0.6519								
157	HB Threshold	_BLOCKs	-								
158											
159	Total Base Rate Amount			\$37.33	\$50.75	\$58.83	\$56.14	\$45.24	\$30.59	\$278.88	
160											
161	COG Rate - (Winter)	_COGw	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	
162	COG amount - Winter			\$52.02	\$76.19	\$90.75	\$85.91	\$66.26	\$39.86	\$411.00	
163	000 0 / /0 )	000	00.0004								
164	COG Rate - (Summer)	_COGs	\$0.6984								
165	COG amount - Summer										
166	1540	1040	00.4040	00.4040	00 1010	00 1010	00 1010	00.4040	00.4040	00 1010	_
167	LDAC	_LDACw	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0
168	LDAC amount			\$10.61	\$15.54	\$18.51	\$17.53	\$13.52	\$8.13	\$83.84	1
169	Total Bill			\$99.97	\$142.48	\$168.09	\$159.58	\$125.02	\$78.58	6772 72	1
170	Total Bill			<b>ФВВ.97</b>	₹14Z.48	\$108.U9	\$109.58	<b>⊅1∠5.U</b> 2	₹/0.58	\$773.72	

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	33	18	14	14	18	38	134	770
	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.35	\$143.15
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$21.40	\$12.00	\$9.01	\$9.15	\$11.50	\$24.47	\$87.53	\$315.61
	\$36.79	\$27.39	\$24.41	\$24.54	\$26.89	\$39.86	\$179.88	\$458.76
	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6552
	\$22.92	\$12.85	\$9.66	\$9.81	\$12.32	\$26.21	\$93.77	\$504.77
ACs							,	
318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318
	\$4.33	\$2.43	\$1.82	\$1.85	\$2.32	\$4.95	\$17.70	\$101.54
	\$64.04	\$42.67	\$35.88	\$36.20	\$41.53	\$71.02	\$291.35	\$1,065.07
	₩U-7.U4	Ψ-72.01	ψυJ.00	ψ50.20	ψ-1.33	Ψ11.02	Ψ201.33	ψ1,005.01

3 CURRENT									
4 Cur_	R4		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
5 average Usage (Therms)	)		81	118	140	133	103	62	636
6									
7 Winter:									
8 Cust. Chg	_CST	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$50.82
9 Headblock	_RATE1w	\$0.3098	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Tailblock	_RATE2w	\$0.3098	\$24.94	\$36.53	\$43.51	\$41.19	\$31.77	\$19.11	\$197.07
1 HB Threshold	_BLOCKw	-							
2									
3 Summer:		l							
4 Cust. Chg	_CST	\$15.39							
5 Headblock	_RATE1s	\$0.5632							
6 Tailblock	_RATE2s	\$0.5632							
7 HB Threshold	_BLOCKs	-							
3									
9 Total Base Rate Amount			\$33.41	\$45.00	\$51.98	\$49.66	\$40.24	\$27.58	\$247.89
0									
1 COG Rate - (Winter)		\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461	\$0.6461
2 COG amount - Winter			\$52.02	\$76.19	\$90.75	\$85.91	\$66.26	\$39.86	\$411.00
3									
4 COG Rate - (Summer)	_COGs	\$0.6984							
5 COG amount - Summer									
6									
7 LDAC	_LDACw	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	\$0.1318	0.1318
B LDAC amount			\$10.61	\$15.54	\$18.51	\$17.53	\$13.52	\$8.13	\$83.84
9									
Total Bill			\$96.05	\$136.74	\$161.24	\$153.10	\$120.03	\$75.58	\$742.74
1									
2 DIFFERENCE:									
3 Total Bill			\$3.92	\$5.74	\$6.84	\$6.48	\$5.00	\$3.00	\$30.98
4 % Change			4.08%	4.20%	4.24%	4.23%	4.16%	3.97%	4.17%
5									
Base Rate			\$3.92	\$5.74	\$6.84	\$6.48	\$5.00	\$3.00	\$30.98
7 % Change		l	11.73%	12.76%	13.16%	13.04%	12.41%	10.89%	12.50%
8									
9 COG & LDAC		l	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
check			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Summer Season	(May	- Oct.)
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\$2.91

4.77%

\$2.91

8.60%

\$0.00

0.00%

\$1.63

3.98%

\$1.63

6.35%

\$0.00

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\$1.23

3.55%

\$1.23

5.30%

\$0.00

0.00%

\$1.25

3.57%

\$1.25

5.36%

\$0.00

0.00%

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	33	18	14	14	18	38	134	770
	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34	\$143.16
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$18.49	\$10.37	\$7.79	\$7.91	\$9.93	\$21.14	\$75.62	\$272.69
	\$33.88	\$25.76	\$23.18	\$23.30	\$25.32	\$36.53	\$167.96	\$415.85
	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6984	\$0.6552
	\$22.92	\$12.85	\$9.66	\$9.81	\$12.32	\$26.21	\$93.77	\$504.77
s	CO 4040	CO 4040	60 4040	CO 4040	60 4040	00.4040	00 4040	00 4040
3	\$0.1318 \$4.33	\$0.1318 \$2.43	\$0.1318 \$1.82	\$0.1318 \$1.85	\$0.1318 \$2.32	\$0.1318 \$4.95	\$0.1318 \$17.70	\$0.1318 \$101.54
	φ4.33	φ∠.43	φ1.02	φ1.00	φ2.32	φ4.95	φ17.70	φ101.54
	\$61.12	\$41.04	\$34.65	\$34.95	\$39.96	\$67.69	\$279.42	\$1,022.16

\$1.57

3.92%

\$1.57

6.19%

\$0.00

0.00%

\$3.33 4.92%

\$3.33

9.12%

\$0.00

0.00%

\$0.00

\$11.92

4.27%

\$11.92

7.10%

\$0.00

0.00%

\$42.91 4.20%

\$42.91

10.32%

\$0.00

0.00%

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Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty
Bill Impact Analysis - Cost of Gas Filing Methodology
Summer Season (May - Oct.)

INO								Dill lilipaci	Analysis - Co	ist of Gas Filling	g wetno
211	Winter Season (Jan Apr.,	, Nov Dec.)						-	-		_
212	Commercial/Industrial - Lo	w Annual Use,	<b>High Winte</b>	r Use (G-41)							
213	PROPOSED										
214	Prop_	41		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
215	average Usage (Therms)			272	423	521	496	364	196	2,273	
216											
217	Winter:										
218	Cust. Chg	_CST	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$379.79	
219	Headblock	_RATE1w	\$0.5088	\$50.88	\$50.88	\$50.88	\$50.88	\$50.88	\$50.88	\$305.28	
220	Tailblock	_RATE2w	\$0.3550	\$61.12	\$114.64	\$149.60	\$140.55	\$93.86	\$34.04	\$593.82	
221	HB Threshold	_BLOCKw	100								
222											
223	Summer:										
224	Cust. Chg	_CST	\$63.30								
225	Headblock	_RATE1s	\$0.5088								
226	Tailblock	_RATE2s	\$0.3550								
227	HB Threshold	_BLOCKs	20								
228											
229	Total Base Rate Amount			\$175.30	\$228.82	\$263.78	\$254.73	\$208.04	\$148.22	\$1,278.90	
230											
231	COG Rate - (Winter)	_COGw	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	
232	COG amount - Winter			\$319.78	\$496.90	\$612.61	\$582.66	\$428.13	\$230.16	\$2,670.24	
233											
234	COG Rate - (Summer)	_COGs	\$0.6991								
235	COG amount - Summer										
236											_LDAC
237	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
238	LDAC amount			\$26.97	\$41.91	\$51.67	\$49.15	\$36.11	\$19.41	\$225.23	
239											
240	Total Bill			\$522.06	\$767.64	\$928.07	\$886.54	\$672.28	\$397.79	\$4,174.37	

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	91	39	26	26	40	108	330	2,603
	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$63.30	\$379.79	\$759.59
	\$10.18	\$10.18	\$10.18	\$10.18	\$10.18	\$10.18	\$61.06	\$366.34
	\$25.12	\$6.76	\$2.02	\$2.30	\$7.05	\$31.21	\$74.47	\$668.29
	\$98.59	\$80.24	\$75.49	\$75.78	\$80.53	\$104.69	\$515.32	\$1,794.21
	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$1.1146
	\$63.45	\$27.30	\$17.95	\$18.51	\$27.87	\$75.45	\$230.54	\$2,900.78
ACs								
991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
	\$8.99	\$3.87	\$2.55	\$2.62	\$3.95	\$10.70	\$32.68	\$257.91
	\$171.04	\$111.41	\$95.99	\$96.91	\$112.35	\$190.83	\$778.54	\$4.952.90
	φ111.U4	φιι1.41	φ <b>σ</b> υ. <b>3</b> 3	φ <b>30.91</b>	φ11Z.35	φ13U.03	φιι0.54	φ <del>4</del> ,352.90

242	Commercial/Industrial - Lov	w Annual Use,	<b>High Winte</b>	r Use (G-41)						
	CURRENT									
	Cur_	41		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
245	average Usage (Therms)			272	423	521	496	364	196	2,273
246										
	Winter:									
	Cust. Chg	_CST	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36
	Headblock	_RATE1w	\$0.4711	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$282.66
	Tailblock	_RATE2w	\$0.3165	\$54.49	\$102.21	\$133.38	\$125.31	\$83.68	\$30.35	\$529.42
	HB Threshold	_BLOCKw	100							
252										
	Summer:									
254	Cust. Chg	_CST	\$57.06							
	Headblock	_RATE1s	\$0.4688							
	Tailblock	_RATE2s	\$0.3149							
	HB Threshold	_BLOCKs	20							
258										
259	Total Base Rate Amount			\$158.66	\$206.38	\$237.55	\$229.48	\$187.85	\$134.52	\$1,154.44
260										
261	COG Rate - (Winter)		\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749
	COG amount - Winter			\$319.78	\$496.90	\$612.61	\$582.66	\$428.13	\$230.16	\$2,670.24
263										
	COG Rate - (Summer)	_COGs	\$0.6991							
265	COG amount - Summer									
266										
	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
	LDAC amount			\$26.97	\$41.91	\$51.67	\$49.15	\$36.11	\$19.41	\$225.23
269										
	Total Bill			\$505.42	\$745.20	\$901.83	\$861.29	\$652.09	\$384.09	\$4,049.91
271										
	DIFFERENCE:									
	Total Bill			\$16.64	\$22.44	\$26.23	\$25.25	\$20.19	\$13.70	\$124.45
274	% Change			3.29%	3.01%	2.91%	2.93%	3.10%	3.57%	3.07%
275	[									
	Base Rate			\$16.64	\$22.44	\$26.23	\$25.25	\$20.19	\$13.70	\$124.45
	% Change			10.49%	10.87%	11.04%	11.00%	10.75%	10.19%	10.78%
278	1									
	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	(\$0.00)
280	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	check			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	91	39	26	26	40	108	330	2,603
	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36	\$684.72
	\$9.38 \$22.28	\$9.38 \$6.00	\$9.38 \$1.79	\$9.38 \$2.04	\$9.38 \$6.26	\$9.38 \$27.69	\$56.26 \$66.06	\$338.92 \$595.48
	\$88.72	\$72.44	\$68.23	\$68.48	\$72.69	\$94.12	\$464.67	\$1,619.11
	\$0.6991	\$0.6991	\$0.6991	\$0.6991	£0.6004	\$0.6991	¢0 6001	\$1,1146
LDACs	\$63.45	\$27.30	\$17.95	\$18.51	\$0.6991 \$27.87	\$75.45	\$0.6991 \$230.54	\$2,900.78
0.0991	\$0.0991 \$8.99	\$0.0991 \$3.87	\$0.0991 \$2.55	\$0.0991 \$2.62	\$0.0991 \$3.95	\$0.0991 \$10.70	\$0.0991 \$32.68	\$0.0991 \$257.91

\$9.88 6.13%	\$7.80 7.53%	\$7.27 8.19%	\$7.30 8.14%	\$7.84 7.50%	\$10.56 5.86%	\$50.65 6.96%	\$175.10 3.66%	
\$9.88	\$7.80	\$7.27	\$7.30	\$7.84	\$10.56	\$50.65	\$175.10	
11.13%	10.77%	10.65%	10.66%	10.78%	11.22%	10.90%	10.81%	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

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Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty Bill Impact Analysis - Cost of Gas Filing Methodology Summer Season (May - Oct.)

Line No 281 Winter Season (Jan. - Apr., Nov. - Dec.) Commercial/Industrial - Medium Annual Use, High Winter Use (G-42) 282 283 PROPOSED 284 Prop Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 Winter 285 average Usage (Therms) 20,390 2,568 3,296 3,796 4,442 4.284 2.004 286 287 Winter: 288 Cust. Chg CST \$189.84 \$189.84 \$189.84 \$189.84 \$189.84 \$189.84 \$189.84 \$1,139.03 RATE1w 289 Headblock \$0,4634 \$463.40 \$463.40 \$463.40 \$463.40 \$463.40 \$463.40 \$2,780,40 290 Tailblock RATE2w \$0.3212 \$503.55 \$898.19 \$1,105.72 \$1,054.71 \$737.34 \$322.65 \$4,622.15 291 HB Threshold BLOCKw 1,000 292 293 Summer: 294 Cust. Chg Headblock CST \$189.84 \_RATE1s \$0.4634 295 296 Tailblock \_RATE2s \$0.3212 297 HB Threshold BLOCKs 400 298 299 Total Base Rate Amount \$1,156.79 \$1,551.43 \$1,758.95 \$1,707.94 \$1,390.57 \$975.88 \$8,541.57 300 301 COG Rate - (Winter) COGw \$1.1749 \$1.1749 \$1.1749 \$1.1749 \$1.1749 \$1.1749 \$1.1749 \$1.1749 \$3,016.82 \$5,032.85 302 COG amount - Winter \$4,460.34 \$3,871.96 \$2,355.09 \$23,956.50 \$5,219.44 303 304 COG Rate - (Summer) COGs \$0.699 305 COG amount - Summer 306 307 LDAC \_LDACw \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 308 LDAC amount \$254.46 \$376.22 \$440.25 \$424.51 \$326.59 \$198.65 \$2,020.67 309 Total Bill \$4,428.08 \$6,387.99 \$7,418.64 \$7,165.30 \$5,589.12 \$3,529.62 \$34,518.75 310 311 Winter Season (Jan. - Apr., Nov. - Dec.) 312 Commercial/Industrial - Medium Annual Use, High Winter Use (G-42)

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	1,039	507	350	368	548	1,203	4,014	24,404
	\$189.84	\$189.84	\$189.84	\$189.84	\$189.84	\$189.84	\$1,139.03	\$2,278.05
	\$185.36	\$185.36	\$161.97	\$170.64	\$185.36	\$185.36	\$1,074.05	\$3,854.45
	\$205.27	\$34.25	\$0.00	\$0.00	\$47.39	\$257.91	\$544.82	\$5,166.96
	\$580.46	\$409.45	\$351.81	\$360.47	\$422.58	\$633.11	\$2,757.89	\$11,299.47
	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$1.0966
1010	\$726.41	\$354.20	\$244.36	\$257.43	\$382.78	\$840.99	\$2,806.15	\$26,762.66
_LDACs \$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
ψυ.υσσ1	\$102.97	\$50.21	\$34.64	\$36.49	\$54.26	\$119.21	\$397.78	\$2,418.46
	\$1,409.84	\$813.86	\$630.81	\$654.39	\$859.62	\$1,593.31	\$5,961.83	\$40,480.58

312	Commercial/Industrial - Me	dium Annual l	Jse, High W	/inter Use (G-	42)					
313	CURRENT		·	•						
	Cur_	42		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
315	average Usage (Therms)			2,568	3,796	4,442	4,284	3,296	2,004	20,390
316										
317	Winter:									
318	Cust. Chg	_CST	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$1,027.14
319	Headblock	_RATE1w	\$0.4261	\$426.10	\$426.10	\$426.10	\$426.10	\$426.10	\$426.10	\$2,556.60
320	Tailblock	_RATE2w	\$0.2839	\$445.08	\$793.89	\$977.31	\$932.23	\$651.71	\$285.18	\$4,085.39
321	HB Threshold	_BLOCKw	1,000							
322										
	Summer:									
	Cust. Chg	_CST	\$171.19							
	Headblock	_RATE1s	\$0.4261							
	Tailblock	_RATE2s	\$0.2839							
327	HB Threshold	_BLOCKs	400							
328										
329	Total Base Rate Amount			\$1,042.37	\$1,391.18	\$1,574.60	\$1,529.52	\$1,249.00	\$882.47	\$7,669.13
330										
	COG Rate - (Winter)		\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749
	COG amount - Winter			\$3,016.82	\$4,460.34	\$5,219.44	\$5,032.85	\$3,871.96	\$2,355.09	\$23,956.50
333										
	COG Rate - (Summer)	_COGs	\$0.6991							
335	COG amount - Summer									
336										
	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
	LDAC amount			\$254.46	\$376.22	\$440.25	\$424.51	\$326.59	\$198.65	\$2,020.67
339	T-4-1 Bill			64 040 05	60 007 70	67.004.00	60 000 00	<b>65 447 55</b>	60 400 00	600 040 04
340 341	Total Bill			\$4,313.65	\$6,227.73	\$7,234.29	\$6,986.88	\$5,447.55	\$3,436.20	\$33,646.31
	DIFFERENCE:									
	Total Bill			\$114.42	\$160.25	\$184.35	\$178.43	\$141.57	\$93.42	\$872.44
344	% Change			2.65%	2.57%	2.55%	2.55%	2.60%	2.72%	2.59%
345	70 Change			2.0070	2.07 /0	2.0070	2.0070	2.0070	2.12/0	2.00 /0
	Base Rate			\$114.42	\$160.25	\$184.35	\$178.43	\$141.57	\$93.42	\$872.44
	% Change			10.98%	11.52%	11.71%	11.67%	11.33%	10.59%	11.38%
348	70 Onlango			10.3070	11.5270	11.7170	11.0770	11.5570	10.0070	11.5070
	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
550	check			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
				·	+	+				T

L	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	1,039	507	350	368	548	1,203	4,014	24,404
	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$1,027.14	\$2,054.28
	\$170.44	\$170.44	\$148.94	\$156.90	\$170.44	\$170.44	\$987.60	\$3,544.20
	\$181.43	\$30.28	\$0.00	\$0.00	\$41.88	\$227.96	\$481.55	\$4,566.94
	\$523.06	\$371.91	\$320.13	\$328.09	\$383.51	\$569.59	\$2,496.29	\$10,165.42
	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$1.0966
	\$726.41	\$354.20	\$244.36	\$257.43	\$382.78	\$840.99	\$2,806.15	\$26,762.66
_LDACs	<b>60 0004</b>	<b>#0.0004</b>	<b>60 0004</b>	<b>#0.0004</b>	eo ooo4	<b>#0.0004</b>	#0.0004	#0.0004
\$0.0991	\$0.0991 \$102.97	\$0.0991 \$50.21	\$0.0991 \$34.64	\$0.0991 \$36.49	\$0.0991 \$54.26	\$0.0991 \$119.21	\$0.0991 \$397.78	\$0.0991 \$2,418.46

Summer Season (May - Oct.)

	\$57.40 4.24%	\$37.55 4.84%	\$31.69 5.29%	\$32.38 5.21%	\$39.07 4.76%	\$63.52 4.15%	\$261.61 4.59%	\$1,134.05 2.88%	
	\$57.40	\$37.55	\$31.69	\$32.38	\$39.07	\$63.52	\$261.61	\$1,134.05	
	10.97%	10.10%	9.90%	9.87%	10.19%	11.15%	10.48%	11.16%	
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	ı
Ī	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	-

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Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty
Bill Impact Analysis - Cost of Gas Filing Methodology
Summer Season (May - Oct.)

INO								Dill illipaci	Analysis - Co	St of Gas Filling	g ivie
351	Winter Season (Jan Apr.,	Nov Dec.)									
352	Commercial/Industrial - Hig	jh Annual Use	High Wint	er Use (G-43)							
353	PROPOSED										1
354	Prop_	43		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
355	average Usage (Therms)			23,661	31,955	31,276	29,903	24,765	17,078	158,638	1
356											
357	Winter:										
358	Cust. Chg	_CST	\$811.98		\$811.98	\$811.98	\$811.98	\$811.98	\$811.98	\$4,871.91	
359	Headblock	_RATE1w	\$0.2863	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
360	Tailblock	_RATE2w	\$0.2863	\$6,774.18	\$9,148.77	\$8,954.28	\$8,561.11	\$7,090.22	\$4,889.44	\$45,418.00	
361	HB Threshold	_BLOCKw	-								
362											
363	Summer:										
364	Cust. Chg	_CST	\$811.98								
365	Headblock	_RATE1s	\$0.1441								
366	Tailblock	_RATE2s	\$0.1441								
367	HB Threshold	_BLOCKs	-								
368											
369	Total Base Rate Amount			\$7,586.17	\$9,960.75	\$9,766.26	\$9,373.10	\$7,902.21	\$5,701.42	\$50,289.91	
370											
371	COG Rate - (Winter)	_COGw	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	
372	COG amount - Winter			\$27,799.47	\$37,544.14	\$36,746.00	\$35,132.55	\$29,096.42	\$20,064.96	\$186,383.54	
373											
374	COG Rate - (Summer)	_COGs	\$0.6991								
375	COG amount - Summer										
376											_l
377	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0
378	LDAC amount			\$2,344.82	\$3,166.76	\$3,099.44	\$2,963.35	\$2,454.21	\$1,692.43	\$15,721.01	
379											
380	Total Bill			\$37,730.46	\$50,671.66	\$49,611.70	\$47,468.99	\$39,452.84	\$27,458.81	\$252,394.45	1

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
•	11,030	6,524	5,278	6,059	7,044	12,595	48,531	207,169
	\$811.98 \$0.00 \$1,589.37	\$811.98 \$0.00 \$940.16	\$811.98 \$0.00 \$760.57	\$811.98 \$0.00 \$873.13	\$811.98 \$0.00 \$1,015.11	\$811.98 \$0.00 \$1,814.95	\$4,871.91 \$0.00 \$6,993.30	\$9,743.81 \$0.00 \$52,411.30
	\$2,401.36	\$1,752.14	\$1,572.56	\$1,685.12	\$1,827.09	\$2,626.94	\$11,865.20	\$62,155.11
Cs	\$0.6991 \$7,710.83	\$0.6991 \$4,561.17	\$0.6991 \$3,689.91	\$0.6991 \$4,235.99	\$0.6991 \$4,924.79	\$0.6991 \$8,805.23	\$0.6991 \$33,927.92	\$1.0634 \$220,311.46
91	\$0.0991 \$1,093.04	\$0.0991 \$646.56	\$0.0991 \$523.06	\$0.0991 \$600.47	\$0.0991 \$698.11	\$0.0991 \$1,248.17	\$0.0991 \$4,809.41	\$0.0991 \$20,530.41
	\$11,205.23	\$6,959.88	\$5,785.52	\$6,521.57	\$7.449.99	\$12,680.34	\$50.602.53	\$302,996.98

Summer Season (May - Oct.)

\$345.32

3.18%

\$345.32

16.80%

\$0.00

0.00%

\$235.84

3.51%

\$235.84

15.55%

\$0.00

0.00%

\$0.00

\$205.55

3.68%

\$205.55

15.04%

\$0.00

0.00%

\$224.53

3.57%

\$224.53

15.37%

\$0.00

0.00%

\$248.48

3.45%

\$248.48

15.74%

\$0.00

0.00%

\$0.00

\$383.36

3.12%

\$383.36

17.09%

\$0.00

0.00%

\$0.00

\$1,643.07

3.36%

\$1,643.07

16.07%

\$0.00

0.00%

\$5,961.73

2.01%

\$5,961.73

10.61%

\$0.00

0.00%

382	Commercial/Industrial - Hig	ıh Annual Use,	<b>High Wint</b>	er Use (G-43)						
	CURRENT									
	Cur_	43		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
	average Usage (Therms)			23,661	31,955	31,276	29,903	24,765	17,078	158,638
386										
	Winter:									
388	Cust. Chg	_CST	\$734.69	\$734.69	\$734.69	\$734.69	\$734.69	\$734.69	\$734.69	\$4,408.14
389	Headblock	_RATE1w	\$0.2620	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
390	Tailblock	RATE2w	\$0.2620	\$6,199.22	\$8,372.26	\$8,194.27	\$7,834.48	\$6,488.43	\$4,474.44	\$41,563.10
391	HB Threshold	_BLOCKw	-							
392										
393	Summer:									
394	Cust. Chg	CST	\$734.69							
395	Headblock	RATE1s	\$0.1198							
396	Tailblock	RATE2s	\$0.1198							
397	HB Threshold	BLOCKs	-							
398		_								
399	Total Base Rate Amount			\$6,933.91	\$9,106.95	\$8,928.96	\$8,569.17	\$7,223.12	\$5,209.13	\$45,971.24
400										
401	COG Rate - (Winter)		\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749	\$1.1749
402	COG amount - Winter			\$27,799.47	\$37,544.14	\$36,746.00	\$35,132.55	\$29,096.42	\$20,064.96	\$186,383.54
403										
404	COG Rate - (Summer)	COGs	\$0.6991							
405	COG amount - Summer	_								
406										
407	LDAC	LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
408	LDAC amount	_		\$2,344.82	\$3,166.76	\$3,099.44	\$2,963.35	\$2,454.21	\$1,692.43	\$15,721.01
409										
410	Total Bill			\$37,078.20	\$49,817.85	\$48,774.40	\$46,665.06	\$38,773.76	\$26,966.52	\$248,075.79
411										
412	DIFFERENCE:									
413	Total Bill			\$652.26	\$853.81	\$837.30	\$803.93	\$679.08	\$492.29	\$4,318.67
414	% Change			1.76%	1.71%	1.72%	1.72%	1.75%	1.83%	1.74%
415										
416	Base Rate			\$652.26	\$853.81	\$837.30	\$803.93	\$679.08	\$492.29	\$4,318.67
417	% Change			9.41%	9.38%	9.38%	9.38%	9.40%	9.45%	9.39%
418	1									
419	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
420	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	check			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	11,030	6,524	5,278	6,059	7,044	12,595	48,531	207,169
	A704.00	0704.00	<b>\$704.00</b>	<b>\$704.00</b>	<b>\$704.00</b>	<b>\$704.00</b>	24.400.44	*******
	\$734.69 \$0.00 \$1,321.35	\$734.69 \$0.00 \$781.62	\$734.69 \$0.00 \$632.31	\$734.69 \$0.00 \$725.89	\$734.69 \$0.00 \$843.93	\$734.69 \$0.00 \$1,508.89	\$4,408.14 \$0.00 \$5,814.00	\$8,816.28 \$0.00 \$47,377.10
	\$2,056.04	\$1,516.31	\$1,367.00	\$1,460.58	\$1,578.62	\$2,243.58	\$10,222.14	\$56,193.38
	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$0.6991	\$1.0634
LDACs	\$7,710.83	\$4,561.17	\$3,689.91	\$4,235.99	\$4,924.79	\$8,805.23	\$33,927.92	\$220,311.46
.0991	\$0.0991 \$1,093.04	\$0.0991 \$646.56	\$0.0991 \$523.06	\$0.0991 \$600.47	\$0.0991 \$698.11	\$0.0991 \$1,248.17	\$0.0991 \$4,809.41	\$0.0991 \$20,530.41
	\$10.859.91	\$6.724.04	\$5.579.97	\$6.297.04	\$7.201.51	\$12.296.99	\$48.959.46	\$297.035.25

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Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty
Bill Impact Analysis - Cost of Gas Filing Methodology
Summer Season (May - Oct.)

Summer Season (May - Oct.)

Line							L	liberty Utilitie	es (⊑nergyno	ortn Naturai (	∍as) a
No								Bill Impact	Analysis - Co	st of Gas Filin	g Meth
421	Winter Season (Jan Apr.	, Nov Dec.)									
422	Commercial/Industrial - Lo	w Annual Use,	Low Winte	r Use (G-51)							_
423	PROPOSED										
424	Prop_	51		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
425	average Usage (Therms)			279	339	379	366	317	261	1,942	
426											
427	Winter:										
428	Cust. Chg	CST	\$63.38	\$63.38	\$63.38	\$63.38	\$63.38	\$63.38	\$63.38	\$380.28	
429	Headblock	_RATE1w	\$0.3070	\$30.70	\$30.70	\$30.70	\$30.70	\$30.70	\$30.70	\$184.23	
430	Tailblock	_RATE2w	\$0.2084	\$37.37	\$49.84	\$58.23	\$55.43	\$45.25	\$33.61	\$279.73	
431	HB Threshold	_BLOCKw	100								
432											
433	Summer:										
434	Cust. Chg	_CST	\$63.38								
435	Headblock	_RATE1s	\$0.3070								
436	Tailblock	_RATE2s	\$0.2084								
437	HB Threshold	_BLOCKs	100								
438											
439	Total Base Rate Amount			\$131.46	\$143.92	\$152.32	\$149.51	\$139.33	\$127.69	\$844.23	
440	000 0 1 445 1 3	000	A4 4700	04.4700	04 4700	A4 4700	04 4700	A4 4700	04.4700	04.4700	
441	COG Rate - (Winter)	_COGw	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	
442	COG amount - Winter			\$327.72	\$397.90	\$445.15	\$429.34	\$372.04	\$306.51	\$2,278.66	
443	000 B-t- (0:)	000-	¢0.0075								
444	COG Rate - (Summer) COG amount - Summer	_COGs	\$0.6975								
445 446	COG amount - Summer										LDA
446	LDAC	L DA 0	\$0.0991	60 0004	<b>#0.0004</b>	<b>#0.0004</b>	<b>#0.0004</b>	<b>#0.0004</b>	60 0004	<b>#0.0004</b>	\$0.09
447	LDAC LDAC amount	_LDACw	\$0.0991	\$0.0991 \$27.68	\$0.0991 \$33.61	\$0.0991 \$37.60	\$0.0991 \$36.27	\$0.0991 \$31.43	\$0.0991	\$0.0991 \$192.48	\$0.09
448 449	LDAC amount			φ∠1.08	φ33.b1	φ37.00	φ30.27	ф31.43	\$25.89	φ192.48	
449	Total Bill			\$486.86	\$575.43	\$635.07	\$615.12	\$542.80	\$460.09	\$3.315.37	
450	I OLAI BIII			φ <del>4</del> 00.00	φυι 0.43	φυ <b>35.</b> 07	φυ 13.12	φυ <del>4</del> 2.00	\$400.09	φο,ο 15.3 <i>1</i>	

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
İ	225	194	173	191	195	212	1,190	3,133
	\$63.38	\$63.38	\$63.38	\$63.38	\$63.38	\$63.38	\$380.28	\$760.55
	\$30.70 \$26.03	\$30.70 \$19.67	\$30.70 \$15.21	\$30.70 \$19.00	\$30.70 \$19.84	\$30.70 \$23.29	\$184.23 \$123.04	\$368.46 \$402.77
	,	,	, -		,		,	, .
	\$120.11	\$113.76	\$109.30	\$113.08	\$113.92	\$117.37	\$687.54	\$1,531.78
						,	,	, , , , , ,
	40.0075	40.0075	40.0075	*******	40.0075	40.0075	40.0075	** ***
	\$0.6975 \$156.86	\$0.6975 \$135.59	\$0.6975 \$120.66	\$0.6975 \$133.34	\$0.6975 \$136.15	\$0.6975 \$147.70	\$0.6975 \$830.30	\$0.9924 \$3,108.97
DACs								
.0991	\$0.0991 \$22.29	\$0.0991 \$19.26	\$0.0991 \$17.14	\$0.0991 \$18.94	\$0.0991 \$19.34	\$0.0991 \$20.98	\$0.0991 \$117.97	\$0.0991 \$310.45
		,	·					
	\$299.26	\$268.61	\$247.10	\$265.37	\$269.42	\$286.06	\$1,635.81	\$4,951.19

452											
	CURRENT										
	Cur_	51	L	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
	average Usage (Therms)			279	339	379	366	317	261	1,942	
456											
	Winter:										
	Cust. Chg	_CST	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36	
	Headblock	_RATE1w	\$0.2819	\$28.19	\$28.19	\$28.19	\$28.19	\$28.19	\$28.19	\$169.14	
	Tailblock	_RATE2w	\$0.1813	\$32.51	\$43.36	\$50.66	\$48.22	\$39.36	\$29.24	\$243.35	
	HB Threshold	_BLOCKw	100								
462											
	Summer:										
	Cust. Chg	_CST	\$57.06								
	Headblock	_RATE1s	\$0.2819								
	Tailblock	_RATE2s	\$0.1813								
	HB Threshold	_BLOCKs	100								
468											
469	Total Base Rate Amount			\$117.76	\$128.61	\$135.91	\$133.47	\$124.61	\$114.49	\$754.85	
470											
471	COG Rate - (Winter)		\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	
472	COG amount - Winter			\$327.72	\$397.90	\$445.15	\$429.34	\$372.04	\$306.51	\$2,278.66	
473											
474	COG Rate - (Summer)	_COGs	\$0.6975								
475	COG amount - Summer										
476											
477	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	
478	LDAC amount			\$27.68	\$33.61	\$37.60	\$36.27	\$31.43	\$25.89	\$192.48	
479											
480	Total Bill			\$473.17	\$560.12	\$618.66	\$599.08	\$528.08	\$446.89	\$3,225.99	
481											
482	DIFFERENCE:										
483	Total Bill			\$13.69	\$15.32	\$16.41	\$16.04	\$14.72	\$13.20	\$89.38	
484	% Change			2.89%	2.73%	2.65%	2.68%	2.79%	2.95%	2.77%	
485	1										
486	Base Rate			\$13.69	\$15.32	\$16.41	\$16.04	\$14.72	\$13.20	\$89.38	
487	% Change			11.63%	11.91%	12.07%	12.02%	11.81%	11.53%	11.84%	
488	1										
489	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
490	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	

\$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$57.06 \$342.36 \$684. \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$338. \$22.64 \$17.11 \$13.23 \$16.53 \$17.26 \$20.26 \$107.04 \$3350. \$107.89 \$102.36 \$98.48 \$101.78 \$102.51 \$105.51 \$618.54 \$1,373 \$105.51 \$618.54 \$1,373 \$105.51 \$105.51 \$618.54 \$1,373 \$105.51 \$10		May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
\$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$38.19 \$338. \$338. \$350.		225	194	173	191	195	212	1,190	3,133
\$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$169.14 \$338. \$22.64 \$17.11 \$13.23 \$16.53 \$17.26 \$20.26 \$107.04 \$350. \$350. \$107.89 \$102.36 \$98.48 \$101.78 \$102.51 \$105.51 \$618.54 \$1,373 \$105.51 \$0.6975 \$0.6975 \$0.6975 \$156.86 \$135.59 \$120.66 \$133.34 \$136.15 \$147.70 \$830.30 \$3,108 \$102.50 \$0.0991 \$0.0									
\$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$28.19 \$338. \$338. \$350.									
\$22.64 \$17.11 \$13.23 \$16.53 \$17.26 \$20.26 \$107.04 \$350. \$107.89 \$102.36 \$98.48 \$101.78 \$102.51 \$105.51 \$618.54 \$1,373  \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$156.86 \$135.59 \$120.66 \$133.34 \$136.15 \$147.70 \$830.30 \$3,108 \$100.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991		\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$57.06	\$342.36	\$684.72
\$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.6975 \$0.99.  LDACs 1.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991									\$338.28 \$350.39
\$156.86 \$135.59 \$120.66 \$133.34 \$136.15 \$147.70 \$830.30 \$3,108 LDACs 0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991		\$107.89	\$102.36	\$98.48	\$101.78	\$102.51	\$105.51	\$618.54	\$1,373.39
\$156.86 \$135.59 \$120.66 \$133.34 \$136.15 \$147.70 \$830.30 \$3,108 LDACs 0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991		\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.9924
0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991	LDACs			\$120.66	\$133.34	\$136.15		\$830.30	\$3,108.97
\$22.29 \$19.26 \$17.14 \$18.94 \$19.34 \$20.98 \$117.97 \$310.		\$0.0991 \$22.29	\$0.0991 \$19.26	\$0.0991 \$17.14	\$0.0991 \$18.94	\$0.0991 \$19.34	\$0.0991 \$20.98	\$0.0991 \$117.97	\$0.0991 \$310.45

\$12.22 4.26%	\$11.39 4.43%	\$10.81 4.58%	\$11.30 4.45%	\$11.41 4.42%	\$11.86 4.33%	\$69.00 4.40%	\$158.38 3.30%
\$12.22	\$11.39	\$10.81	\$11.30	\$11.41	\$11.86	\$69.00	\$158.38
11.32%	11.13%	10.98%	11.11%	11.13%	11.24%	11.16%	11.53%
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

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I iherty Utilities (EnergyNorth Natural Gas) d/b/a Liberty Methodology Summer Season (May - Oct.)

Summer Season (May - Oct.)

Line							L	iberty Utiliti	es (EnergyNo	orth Natural G	as) d/b
No								Bill Impact	Analysis - Co	st of Gas Filing	Method
491	Winter Season (Jan Apr.,	, Nov Dec.)									
492	Commercial/Industrial - Me	dium Annual l	Jse, Low W	inter Use (G-	52)						
493	PROPOSED										
494	Prop_	52		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter	
495	average Usage (Therms)			2,236	2,594	2,953	2,830	2,492	2,049	15,155	
496											
497	Winter:										
498	Cust. Chg	_CST	\$189.57	\$189.57	\$189.57	\$189.57	\$189.57	\$189.57	\$189.57	\$1,137.39	
499	Headblock	_RATE1w	\$0.2647	\$264.70	\$264.70	\$264.70	\$264.70	\$264.70	\$264.70	\$1,588.20	
500	Tailblock	_RATE2w	\$0.1836	\$226.91	\$292.68	\$358.59	\$336.06	\$273.98	\$192.56	\$1,680.78	
501	HB Threshold	_BLOCKw	1,000								
502											
503	Summer:										
504	Cust. Chg	_CST	\$189.57								
505	Headblock	_RATE1s	\$0.1978								
506	Tailblock	_RATE2s	\$0.1219								
507	HB Threshold	_BLOCKs	1,000								
508											
509	Total Base Rate Amount			\$681.18	\$746.94	\$812.85	\$790.33	\$728.24	\$646.82	\$4,406.37	
510											
511	COG Rate - (Winter)	_COGw	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	
512	COG amount - Winter			\$2,623.18	\$3,043.39	\$3,464.57	\$3,320.63	\$2,923.92	\$2,403.63	\$17,779.32	
513											
514	COG Rate - (Summer)	_COGs	\$0.6975								
515	COG amount - Summer										
516											_LDAC
517	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
518	LDAC amount			\$221.58	\$257.07	\$292.65	\$280.49	\$246.98	\$203.03	\$1,501.82	
519											
520	Total Bill			\$3,525.94	\$4,047.41	\$4,570.08	\$4,391.45	\$3,899.14	\$3,253.49	\$23,687.50	J

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	1,655	1,433	1,349	1,430	1,501	1,720	9,088	24,242
	\$189.57	\$189.57	\$189.57	\$189.57	\$189.57	\$189.57	\$1,137.39	\$2,274.78
	\$197.80	\$197.80	\$197.80	\$197.80	\$197.80	\$197.80	\$1,186.80	\$2,775.00
	\$79.90	\$52.77	\$42.58	\$52.42	\$61.03	\$87.71	\$376.40	\$2,057.18
	\$467.26	\$440.13	\$429.95	\$439.78	\$448.39	\$475.08	\$2,700.60	\$7,106.96
	•		,	,		,	. ,	, ,
	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.9949
	\$1,154.65	\$999.42	\$941.16	\$997.42	\$1,046.70	\$1,199.39	\$6,338.75	\$24,118.07
ACs								
991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
	\$164.05	\$142.00	\$133.72	\$141.71	\$148.71	\$170.41	\$900.60	\$2,402.42
	\$1,785.97	\$1,581.55	\$1,504.83	\$1,578.91	\$1,643.81	\$1,844.88	\$9,939.95	\$33,627.45

S25         average Usage (Therms)         2,236         2,594         2,953         2,830         2,492         2,049           527         Winter:         Cust. Chg         CST         \$171.19 <th>Winter 15,155</th>	Winter 15,155
Cur	15,155
2,236	15,155
Signature   Sign	.,
Winter:   Cust. Chg	1 007 14
528         Cust. Chg         CST         \$171.19         \$171	1 007 14
Headblock RATE1w \$0.2428 \$242.80 \$242.80 \$242.80 \$242.80 \$242.80 \$242.80 \$242.80 \$350 Tailblock RATE2w \$0.1617 \$199.85 \$257.76 \$315.82 \$295.98 \$241.30 \$169.59 \$351 \$31 \$32 \$32 \$33 \$33 \$340 \$340 \$340 \$340 \$340 \$340 \$	
530 531 531 HB Threshold         Tailblock BLOCKw         Tailblock 1,000         \$199.85         \$257.76         \$315.82         \$295.98         \$241.30         \$169.59         \$315.32         \$315.82         \$295.98         \$241.30         \$169.59         \$315.32         \$315.82         \$295.98         \$241.30         \$169.59         \$315.32         \$315.82         \$295.98         \$241.30         \$169.59         \$315.82         \$315.82         \$295.98         \$241.30         \$169.59         \$315.82         \$315.82         \$295.98         \$241.30         \$169.59         \$315.82         \$315.82         \$295.98         \$241.30         \$169.59         \$315.82	
531 HB Threshold     BLOCKw     1,000       532 Summer:     Cust. Chg     _CST     \$171.19       535 Headblock     _RATE1s     \$0.1759       536 Tallblock     _RATE2s     \$0.1000       537 HB Threshold     _BLOCKs     1,000       538 Total Base Rate Amount     \$613.84     \$671.75     \$729.81     \$709.97     \$655.29     \$583.58       541 CGG Rate - (Winter)     \$1.1732	1,456.80
532 Summer:  Cust. Chg	1,480.29
Summer:   Cust. Chg	
Cust. Chg	
535         Headblock         _RATE1s         \$0.1759           536         Tailblock         _RATE2s         \$0.1000           537         HB Threshold         _BLOCKs         1,000           538         Total Base Rate Amount         \$613.84         \$671.75         \$729.81         \$709.97         \$655.29         \$583.58         \$3.50           540         COG Rate - (Winter)         \$1.1732 <td></td>	
536         Tailblock         _RATE2s         \$0.1000           537         HB Threshold         _BLOCKs         1,000           538         Total Base Rate Amount         \$613.84         \$671.75         \$729.81         \$709.97         \$655.29         \$583.58         \$360           541         COG Rate - (Winter)         \$1.1732         \$1.	
HB Threshold _BLOCKs 1,000	
538   Total Base Rate Amount   \$613.84  \$671.75  \$729.81  \$709.97  \$655.29  \$583.58  \$359	
539 Total Base Rate Amount 540 COG Rate - (Winter) 541 COG amount - Winter 542 COG amount - Summer 543 COG Gamount - Summer 544 COG amount - Summer 545 COG amount - Summer 546 LDAC 547 LDAC 548 S013.84 \$671.75 \$729.81 \$709.97 \$655.29 \$583.58 \$3.50 \$3.50 \$3.1732 \$1.1732	
540   COG Rate - (Winter)   \$1.1732	
541     COG Rate - (Winter)     \$1.1732     \$1.17	3,964.23
542 COG amount - Winter \$2,623.18 \$3,043.39 \$3,464.57 \$3,320.63 \$2,923.92 \$2,403.63 \$1 543 COG Rate - (Summer) _ COGs \$0.6975 COG amount - Summer 546	
543 COG Rate - (Summer)COGs \$0.6975 COG amount - Summer	\$1.1732
544 COG Rate - (Summer) _COGs \$0.6975 COG amount - Summer 546 LDAC _LDACw \$0.0991 \$0.0	17,779.32
545 COG amount - Summer 546 547 LDAC _LDACw \$0.0991 \$0	
546   547   LDAC	
547 LDAC _LDACw \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991 \$0.0991	
	\$0.0991
	1,501.82
549	
	23,245.37
551	
552 DIFFERENCE:	
	\$442.14
	1.90%
555	
	\$442.14
	11.15%
558	
	\$0.00
	0.00%
check         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00         \$0.00	\$0.00

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	1,655	1,433	1,349	1,430	1,501	1,720	9,088	24,242
	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$171.19	\$1,027.14	\$2,054.28
	\$175.90 \$65.54	\$175.90 \$43.29	\$175.90 \$34.93	\$175.90 \$43.00	\$175.90 \$50.07	\$175.90 \$71.96	\$1,055.40 \$308.78	\$2,512.20 \$1,789.07
	\$412.63	\$390.38	\$382.02	\$390.09	\$397.16	\$419.05	\$2,391.32	\$6,355.55
	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.9949
.DACs	\$1,154.65	\$999.42	\$941.16	\$997.42	\$1,046.70	\$1,199.39	\$6,338.75	\$24,118.07
.0991	\$0.0991 \$164.05	\$0.0991 \$142.00	\$0.0991 \$133.72	\$0.0991 \$141.71	\$0.0991 \$148.71	\$0.0991 \$170.41	\$0.0991 \$900.60	\$0.0991 \$2,402.42
	\$1,731.34	\$1,531.80	\$1,456.90	\$1,529.22	\$1,592.57	\$1,788.85	\$9,630.68	\$32,876.04

\$54.63 3.16%	\$49.75 3.25%	\$47.93 3.29%	\$49.69 3.25%	\$51.24 3.22%	\$56.03 3.13%	\$309.27 3.21%	\$751.41 2.29%	
\$54.63	\$49.75	\$47.93	\$49.69	\$51.24	\$56.03	\$309.27	\$751.41	
13.24%	12.75%	12.55%	12.74%	12.90%	13.37%	12.93%	11.82%	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	

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s) d/b/a Liberty Methodology Summer Season (May - Oct.)

	commercial/Industrial - Hig	jh Annual Use,	Load Fact	or Less Than	90% (G-53)						_
	ROPOSED	50									
	rop_	53		Nov-22 27.160	Dec-22 31.349	Jan-23 35.590	Feb-23 32.054	Mar-23 29.450	Apr-23 24.278	Winter	4
66	verage Usage (Therms)			27,160	31,349	35,590	32,054	29,450	24,278	179,882	
	Vinter:										
	Cust. Chg	_CST	\$838.52	\$838.52	\$838.52	\$838.52	\$838.52	\$838.52	\$838.52	\$5,031.13	
	leadblock	_RATE1w	\$0.1851	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	ailblock	_RATE2w	\$0.1851	\$5,027.35	\$5,802.76	\$6,587.71	\$5,933.16	\$5,451.24	\$4,493.87	\$33,296.10	
	IB Threshold	_BLOCKw	-								
2											
	Summer:										
	Cust. Chg	_CST	\$838.52								
	leadblock	_RATE1s	\$0.0968								
	ailblock	_RATE2s	\$0.0968								
	IB Threshold	_BLOCKs	-								
В											
	otal Base Rate Amount			\$5,865.88	\$6,641.28	\$7,426.24	\$6,771.69	\$6,289.77	\$5,332.39	\$38,327.24	
0											
	OG Rate - (Winter)	_COGw	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	
	OG amount - Winter			\$31,864.35	\$36,779.03	\$41,754.22	\$37,605.55	\$34,551.05	\$28,483.02	\$211,037.22	
3											
	OG Rate - (Summer)	_COGs	\$0.6975								
	OG amount - Summer										١.
6											_L
	DAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.
	DAC amount			\$2,691.58	\$3,106.72	\$3,526.97	\$3,176.53	\$2,918.52	\$2,405.96	\$17,826.28	
9											
) <b>T</b>	otal Bill			\$40,421.80	\$46,527.03	\$52,707.43	\$47,553.77	\$43,759.33	\$36,221.37	\$267,190.74	

May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
21,519	19,047	19,313	21,119	19,654	22,956	123,608	303,490
\$838.52	\$838.52	\$838.52	\$838.52	\$838.52	\$838.52	\$5,031.13	\$10,062.27
\$0.00 \$2,082.99	\$0.00 \$1,843.76	\$0.00 \$1,869.53	\$0.00 \$2,044.36	\$0.00 \$1,902.46	\$0.00 \$2,222.16	\$0.00 \$11,965.28	\$0.00 \$45,261.38
\$2,921.51	\$2,682.29	\$2,708.05	\$2,882.88	\$2,740.99	\$3,060.69	\$16,996.41	\$55,323.65
\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.9795
\$15,009.16 Cs	\$13,285.38	\$13,471.05	\$14,730.81	\$13,708.36	\$16,011.98	\$86,216.74	\$297,253.96
91 \$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
\$2,132.48	\$1,887.57	\$1,913.95	\$2,092.94	\$1,947.67	\$2,274.96	\$12,249.58	\$30,075.85
\$20.063.15	\$17.855.23	\$18.093.06	\$19.706.64	\$18.397.01	\$21.347.63	\$115.462.73	\$382.653.47

Summer Season (May - Oct.)

592	Commercial/Industrial - Hig	n Annuai Use,	Load Fact	or Less I nan	90% (G-53)					
	CURRENT	·			·	·	·			
594	Cur_	53		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
595	average Usage (Therms)			27,160	31,349	35,590	32,054	29,450	24,278	179,882
596										
597	Winter:									
598	Cust. Chg	_CST	\$756.10	\$756.10	\$756.10	\$756.10	\$756.10	\$756.10	\$756.10	\$4,536.60
599	Headblock	_RATE1w	\$0.1697	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
600	Tailblock	_RATE2w	\$0.1697	\$4,609.09	\$5,319.98	\$6,039.63	\$5,439.53	\$4,997.71	\$4,119.99	\$30,525.93
601	HB Threshold	_BLOCKw	-							
602										
603	Summer:									
	Cust. Chg	_CST	\$756.10							
605	Headblock	_RATE1s	\$0.0814							
606	Tailblock	_RATE2s	\$0.0814							
607	HB Threshold	_BLOCKs	-							
608										
609	Total Base Rate Amount			\$5,365.19	\$6,076.08	\$6,795.73	\$6,195.63	\$5,753.81	\$4,876.09	\$35,062.53
610										
	COG Rate - (Winter)		\$1.1732		\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732
	COG amount - Winter			\$31,864.35	\$36,779.03	\$41,754.22	\$37,605.55	\$34,551.05	\$28,483.02	\$211,037.22
613										
	COG Rate - (Summer)	_COGs	\$0.6975							
615	COG amount - Summer									
616										
	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
	LDAC amount			\$2,691.58	\$3,106.72	\$3,526.97	\$3,176.53	\$2,918.52	\$2,405.96	\$17,826.28
619										
	Total Bill			\$39,921.11	\$45,961.83	\$52,076.92	\$46,977.72	\$43,223.38	\$35,765.06	\$263,926.02
621	DIFFERENCE									
	DIFFERENCE: Total Bill			\$500.69	\$565.20	\$630.51	\$576.05	\$535.96	\$456.30	\$3,264.71
623 624	% Change			1.25%	1.23%	1.21%	1.23%	\$535.96 1.24%	1.28%	1.24%
625	% Change			1.25%	1.23%	1.2176	1.23%	1.24%	1.20%	1.24%
	Base Rate			\$500.69	\$565.20	\$630.51	\$576.05	\$535.96	\$456.30	\$3,264.71
626	% Change			9.33%	9.30%	9.28%	9.30%	9.31%	9.36%	9.31%
628	76 Change			9.33%	9.30%	9.28%	9.30%	9.31%	9.36%	9.51%
	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
630	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
030	% Change check			\$0.00%	\$0.00%	\$0.00%	\$0.00%	\$0.00%	\$0.00%	\$0.00%
	CHECK			φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ	φυ.υυ

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	21,519	19,047	19,313	21,119	19,654	22,956	123,608	303,490
	\$756.10 \$0.00 \$1,751.61	\$756.10 \$0.00 \$1,550.44	\$756.10 \$0.00 \$1,572.11	\$756.10 \$0.00 \$1,719.12	\$756.10 \$0.00 \$1,599.80	\$756.10 \$0.00 \$1,868.64	\$4,536.60 \$0.00 \$10,061.71	\$9,073.20 \$0.00 \$40,587.64
	\$2,507.71	\$2,306.54	\$2,328.21	\$2,475.22	\$2,355.90	\$2,624.74	\$14,598.31	\$49,660.84
	\$0.6975 \$15.009.16	\$0.6975 \$13.285.38	\$0.6975 \$13.471.05	\$0.6975 \$14.730.81	\$0.6975 \$13.708.36	\$0.6975 \$16.011.98	\$0.6975 \$86.216.74	\$0.9795 \$297.253.96
DACs .0991	\$0.0991 \$2,132.48	\$0.0991 \$1,887.57	\$0.0991 \$1,913.95	\$0.0991 \$2,092.94	\$0.0991 \$1,947.67	\$0.0991 \$2,274.96	\$0.0991 \$12,249.58	\$0.0991 \$30,075.85
	\$19.649.35	\$17,479.48	\$17,713.21	\$19,298.97	\$18,011.93	\$20,911.68	\$113,064.63	\$376.990.6

\$413.81 2.11%	\$375.75 2.15%	\$379.85 2.14%	\$407.66 2.11%	\$385.09 2.14%	\$435.95 2.08%	\$2,398.10 2.12%	\$5,662.81 1.50%	
\$413.81	\$375.75	\$379.85	\$407.66	\$385.09	\$435.95	\$2,398.10	\$5,662.81	
16.50%	16.29%	16.32%	16.47%	16.35%	16.61%	16.43%	11.40%	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	_

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Liberty Utilities (EnergyNorth Natural Gas) d/b/a Liberty Bill Impact Analysis - Cost of Gas Filing Methodology Summer Season (May - Oct.)

Summer Season (May - Oct.)

PROPOSED									
34 Prop_	54		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
35 average Usage (Therms)			61,794	48,201	46,759	46,199	40,987	48,188	292,128
36   37   Winter:									
37 Winter: 38 Cust. Chg	CST	\$839.19	\$839.19	\$839.19	\$839.19	\$839.19	\$839.19	\$839.19	\$5,035.14
89 Headblock	RATE1w	\$0.0705	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0 Tailblock	RATE2w	\$0.0705		\$3,398.18	\$3,296.52	\$3,257.05	\$2,889.58	\$3,397.24	\$20,595.02
1 HB Threshold	BLOCKW	\$0.0703	\$4,330.43	φ3,390.10	φ3,290.32	\$3,237.03	φ2,009.50	\$3,391.24	φ20,393.02
12	_BLOCKW	-							
3 Summer:									
4 Cust. Cha	CST	\$839.19							
5 Headblock	RATE1s	\$0.0409							
6 Tailblock	RATE2s	\$0.0409							
7 HB Threshold	BLOCKs	-							
8	_5200.10								
9 Total Base Rate Amount			\$5,195,63	\$4.237.37	\$4,135,71	\$4.096.24	\$3,728.77	\$4,236.43	\$25,630.15
50			***,	* .,==	* 1,12211	* .,	**,:=*:::	* .,====	4-0,000
1 COG Rate - (Winter)	COGw	\$1,1732	\$1,1732	\$1,1732	\$1,1732	\$1,1732	\$1,1732	\$1,1732	\$1,1732
2 COG amount - Winter			\$72,496.19	\$56.549.52	\$54.857.86	\$54,201,05	\$48.085.87	\$56.533.94	\$342,724,44
3			, ,						
4 COG Rate - (Summer)	COGs	\$0.6975							
5 COG amount - Summer	_								
56									
7 LDAC	LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
8 LDAC amount	_		\$6,123.74	\$4,776.73	\$4,633.83	\$4,578.35	\$4,061.81	\$4,775.41	\$28,949.87
59									
Total Bill			\$83,815.57	\$65,563.62	\$63,627.41	\$62,875.64	\$55,876.45	\$65,545.78	\$397,304.46

Line

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	58,766	61,809	64,600	68,379	65,031	64,466	383,051	675,179
	<b>****</b>	2000 40	2000 40	2000 40	2000 40	2000 40	45.005.44	040.070.07
	\$839.19 \$0.00	\$839.19 \$0.00	\$839.19 \$0.00	\$839.19 \$0.00	\$839.19 \$0.00	\$839.19 \$0.00	\$5,035.14 \$0.00	\$10,070.27 \$0.00
	\$2,403.51	\$2,528.00	\$2,642.13	\$2,796.71	\$2,659.75	\$2,636.67	\$15,666.78	\$36,261.79
	\$3,242,70	\$3,367.19	\$3,481.32	\$3,635.90	\$3,498.94	\$3,475.86	\$20,701.91	\$46,332.06
	ψο,Σ ιΣ σ	ψο,σστσ	ψο, το τ.ο2	ψ0,000.00	<b>Q</b> 0, 100.0 1	ψο, 17 0.00	Q20,701.01	Ų 10,002.00
	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.9033
	\$40,989.00	\$43,111.99	\$45,058.39	\$47,694.48	\$45,358.88	\$44,965.15	\$267,177.90	\$609,902.33
DACs 0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
0001	\$5,823.67	\$6,125.30	\$6,401.84	\$6,776.38	\$6,444.54	\$6,388.60	\$37,960.33	\$66,910.20
	\$50,055.38	\$52,604.48	\$54,941.56	\$58,106.75	\$55,302.36	\$54,829.60	\$325,840.14	\$723,144.60

	Commercial/Industrial - Hig	h Annual Use,	Load Fact	or Greater Th	an 90% (G-54	)				
	CURRENT									
	Cur_	54		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	Winter
	average Usage (Therms)			61,794	48,201	46,759	46,199	40,987	48,188	292,128
666										
667	Winter:									
668	Cust. Chg	_CST	\$756.10	\$756.10	\$756.10	\$756.10	\$756.10	\$756.10	\$756.10	\$4,536.60
	Headblock	_RATE1w	\$0.0648	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Tailblock	_RATE2w	\$0.0648	\$4,004.22	\$3,123.43	\$3,029.99	\$2,993.72	\$2,655.95	\$3,122.57	\$18,929.89
	HB Threshold	_BLOCKw	-							
672										
	Summer:									
	Cust. Chg	_CST	\$756.10							
	Headblock	_RATE1s	\$0.0352							
676	Tailblock	_RATE2s	\$0.0352							
	HB Threshold	_BLOCKs	-							
678										
679	Total Base Rate Amount			\$4,760.32	\$3,879.53	\$3,786.09	\$3,749.82	\$3,412.05	\$3,878.67	\$23,466.49
680										
681	COG Rate - (Winter)		\$1.1732		\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732	\$1.1732
682	COG amount - Winter			\$72,496.19	\$56,549.52	\$54,857.86	\$54,201.05	\$48,085.87	\$56,533.94	\$342,724.44
683										
	COG Rate - (Summer)	_COGs	\$0.6975							
685	COG amount - Summer									
686										
	LDAC	_LDACw	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
688	LDAC amount			\$6,123.74	\$4,776.73	\$4,633.83	\$4,578.35	\$4,061.81	\$4,775.41	\$28,949.87
689										
690	Total Bill			\$83,380.26	\$65,205.78	\$63,277.79	\$62,529.22	\$55,559.73	\$65,188.02	\$395,140.80
691										
	DIFFERENCE:									
	Total Bill			\$435.31	\$357.84	\$349.62	\$346.43	\$316.71	\$357.76	\$2,163.66
694	% Change			0.52%	0.55%	0.55%	0.55%	0.57%	0.55%	0.55%
695										
696	Base Rate			\$435.31	\$357.84	\$349.62	\$346.43	\$316.71	\$357.76	\$2,163.66
697	% Change			9.14%	9.22%	9.23%	9.24%	9.28%	9.22%	9.22%
698										
699	COG & LDAC			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
700	% Change			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	<del></del>									

	May-23	Jun-23	Jul-23	Aug-23	Sep-22	Oct-22	Summer	Total
	58,766	61,809	64,600	68,379	65,031	64,466	383,051	675,179
	<b>\$750.40</b>	2750.40	<b>2750.40</b>	<b>0750.40</b>	<b>2750.40</b>	0750.40	<b>\$4.500.00</b>	40.070.00
	\$756.10 \$0.00	\$756.10 \$0.00	\$756.10 \$0.00	\$756.10 \$0.00	\$756.10 \$0.00	\$756.10 \$0.00	\$4,536.60 \$0.00	\$9,073.20 \$0.00
	\$2,068.55	\$2,175.69	\$2,273.91	\$2,406.95	\$2,289.08	\$2,269.21	\$13,483.39	\$32,413.2
	\$2,824.65	\$2,931.79	\$3,030.01	\$3,163.05	\$3,045.18	\$3,025.31	\$18,019.99	\$41,486.4
	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.6975	\$0.9033
ACs	\$40,989.00	\$43,111.99	\$45,058.39	\$47,694.48	\$45,358.88	\$44,965.15	\$267,177.90	\$609,902.3
991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991	\$0.0991
	\$5,823.67	\$6,125.30	\$6,401.84	\$6,776.38	\$6,444.54	\$6,388.60	\$37,960.33	\$66,910.20
	\$49 637 32	\$52 169 08	\$54 490 25	\$57 633 90	\$54 848 60	\$54 379 05	\$323 158 21	\$718 299 0

\$418 0.84			T	\$453.76 0.83%	\$450.55 0.83%	\$2,681.92 0.83%	\$4,845.59 0.67%
\$418	05 \$435	.40 \$451.31	\$472.85	\$453.76	\$450.55	\$2.681.92	\$4.845.59
14.8			,		14.89%	14.88%	11.68%
\$0.0	0 \$0.0	00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
0.00				0.00%	0.00%	0.00%	0.00%