

LIBERTY UTILITIES - KEENE DIVISION

CONVERSION OF COSTS - GALLONS TO THERMS
WINTER PERIOD 2020 - 2021

	(1)	(2)	(3)	(4)	(5)	(6)
			<u>VOLUMES</u>		<u>UNIT COST</u>	
	<u>UNIT</u>	<u>CONVERSION FACTOR</u>	<u>GALLONS</u>	<u>THERMS</u>	<u>PER GALLON</u>	<u>PER THERM</u>
GAS FROM INVENTORY	GALLONS	0.91502			\$0.8369	\$0.9146
GAS FROM CNG	THERMS	N/A	N/A		N/A	

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LIBERTY UTILITIES - KEENE DIVISION

CALCULATION OF COST OF GAS RATE
SUPPLY / DEMAND BALANCE
WINTER PERIOD 2020 - 2021

	PRIOR	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	TOTAL
PROPANE COSTS								
1 PROPANE FIRM SENDOUT (therms)								
2 COMPANY USE (therms)								
3 TOTAL PROPANE SENDOUT (therms)								
4 COST PER THERM (WACOG)		\$0.8606	\$0.8923	\$0.9074	\$0.9161	\$0.9864	\$0.9414	
5 TOTAL CALCULATED COST OF PROPANE		\$120,436	\$180,805	\$212,874	\$176,615	\$152,296	\$85,128	\$928,154
6 PROPANE ADJUSTMENTS		\$0	\$0	\$0	\$0	\$0	\$0	\$0
7 TOTAL COST OF PROPANE		\$120,436	\$180,805	\$212,874	\$176,615	\$152,296	\$85,128	\$928,154
CNG COSTS								
8 CNG SENDOUT (therms)								
9 COST PER THERM (WACOG)								
10 TOTAL CALCULATED COST OF CNG								
11 CNG DEMAND CHARGES								
12 CNG ADJUSTMENTS -Demand Charges Aug 2017 - Sep 2019								
13 TOTAL CNG COSTS								
14 ACCOUNTING ADJUSTMENT		\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 FPO PREMIUM		(\$584)	(\$829)	(\$929)	(\$813)	(\$678)	(\$378)	(\$4,211)
16 TOTAL COSTS OF GAS								
17 RETURN ON INVENTORY		\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$14,126
REVENUES								
18 BILLED FPO SALES (therms)		0	0	0	0	0	0	
19 COG FPO RATE		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
		\$0	\$0	\$0	\$0	\$0	\$0	\$0
20 BILLED NON-FPO SALES PRIOR MONTH (therms)		0	0	0	0	0	0	
21 COG NON-FPO RATE PRIOR MONTH		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
		\$0	\$0	\$0	\$0	\$0	\$0	\$0
22 BILLED NON-FPO SALES CURRENT MONTH (therms)		153,781	218,228	244,463	213,913	178,455	99,579	1,108,419
23 COG NON-FPO RATE CURRENT MONTH		\$1,2100	\$1,2100	\$1,2100	\$1,2100	\$1,2100	\$1,2100	
		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,177
24 BILLED SALES OTHER PRIOR PERIODS		0	0	0	0	0	0	
25 COG OTHER PRIOR PERIODS BLENDED RATE		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
		\$0	\$0	\$0	\$0	\$0	\$0	\$0
26 TOTAL SALES		153,781	218,228	244,463	213,913	178,455	99,579	1,108,419
27 TOTAL BILLED REVENUES		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,178
28 UNBILLED REVENUES (NET)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
29 TOTAL REVENUES		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,178
30 (OVER)/UNDER COLLECTION		(\$14,078)	(\$12,657)	(\$1,614)	(\$8,731)	(\$3,789)	\$10,642	(\$30,225)
31 INTEREST AMOUNT		\$63	\$27	\$7	(\$7)	(\$24)	(\$14)	\$52
32 FINAL (OVER)/UNDER COLLECTION	\$30,171	(\$14,015)	(\$12,630)	(\$1,607)	(\$8,738)	(\$3,813)	\$10,628	(\$2)

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LIBERTY UTILITIES - KEENE DIVISION
CALCULATION OF PURCHASED GAS COSTS
WINTER PERIOD 2020 - 2021

LINE NO.		Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	TOTAL
1	TOTAL REQUIRED PURCHASES	[REDACTED]						
2	PROPANE PURCHASE STABILIZATION PLAN DELIVERIES							
3	THERMS	84,182	128,103	150,978	123,528	96,077	57,646	640,514
4	<u>RATES</u> - from Schedule D							
5	Contract Price	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058	
6	Broker Fee	incl.	incl.	incl.	incl.	incl.	incl.	
7	Pipeline Fee	incl.	incl.	incl.	incl.	incl.	incl.	
8	PERC Fee	incl.	incl.	incl.	incl.	incl.	incl.	
9	Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
10	COST PER THERM	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058	\$0.9058
11	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$76,250	\$116,032	\$136,752	\$111,888	\$87,024	\$52,214	\$580,160
12	AMHERST STORAGE PROPANE DELIVERIES							
13	THERMS	-	24,948	47,520	33,264	9,504	3,564	118,800
14	<u>RATES</u> - from Schedule F							
15	WACOG Price	\$0.0000	\$0.7186	\$0.7186	\$0.7186	\$0.7186	\$0.7186	
16	Trucking Fee	\$0.0000	\$0.0650	\$0.0650	\$0.0650	\$0.0650	\$0.0650	
17	COST PER THERM	\$0.0000	\$0.7836	\$0.7836	\$0.7836	\$0.7836	\$0.7836	\$0.7836
18	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$19,549	\$37,237	\$26,066	\$7,447	\$2,793	\$93,092
19	CNG DELIVERIES							
20	THERMS	[REDACTED]						
21	RATE	[REDACTED]						
22		[REDACTED]						
23		[REDACTED]						
24		[REDACTED]						
25		[REDACTED]						
26		[REDACTED]						
27	SPOT PURCHASES							
28	THERMS	[REDACTED]						
29	From Schedule E							
30	COST PER THERM	\$0.9544	\$0.9612	\$0.9721	\$0.9735	\$0.9564	\$0.9386	\$0.9595
31	TOTAL COST - Spot Purchases	[REDACTED]						
32	OTHER ITEMS							
33	Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	Refund of Deferred Revenue Surcharge over collection	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	TOTAL OTHER ITEMS	\$0	\$0	\$0	\$0	\$0	\$0	\$0
36	TOTAL							
37	THERMS FROM PROPANE	[REDACTED]						
38	COST	[REDACTED]						
39	THERMS FROM CNG	[REDACTED]						
40	COST	[REDACTED]						
41	COST PER THERM	\$1.0346	\$1.0161	\$1.0131	\$1.0322	\$1.0321	\$1.0710	\$1.0284

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LIBERTY UTILITIES - KEENE DIVISION

PRIOR PERIOD (OVER)/UNDER COLLECTION
WINTER PERIOD 2019-2020

	PRIOR	Actual Nov-19	Actual Dec-19	Actual Jan-20	Actual Feb-20	Actual Mar-20	Actual Apr-20	TOTAL
<u>PROPANE COSTS</u>								
1 PROPANE FIRM SENDOUT (therms)								
2 COMPANY USE (therms)								
3 TOTAL PROPANE SENDOUT (therms)								
4 COST PER THERM (WACOG)		\$0 8820	\$0 9404	\$0 9705	\$0.9633	\$0.9163	\$0.9249	
5 TOTAL CALCULATED COST OF PROPANE		\$137,953	\$193,134	\$198,631	\$177,980	\$124,364	\$88,913	\$920,975
6 PROPANE ADJUSTMENTS		\$3,209	\$11,602	(\$3,806)	(\$0)	(\$0)	(\$2,658)	\$8,347
7 TOTAL COST OF PROPANE		\$141,162	\$204,736	\$194,825	\$177,980	\$124,364	\$86,255	\$929,322
<u>CNG COSTS</u>								
8 TOTAL CNG SENDOUT (therms)								
9 CNG DEMAND CHARGES								
10 CNG COMMODITY CHARGES								
11 CNG ADJUSTMENTS								
12 TOTAL CNG COSTS								
13 ACCOUNTING ADJUSTMENT		\$0	\$0	\$0	\$0	\$0	\$0	\$0
14 TOTAL COSTS OF GAS								
15 FPO PREMIUM		\$0	\$0	\$0	\$0	\$0	\$0	\$0
16 RETURN ON NVENTORY		\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$14,126
<u>REVENUES</u>								
17 BILLED FPO SALES (therms)		1,130	15,187	17,503	14,648	15,626	10,836	74,930
18 COG FPO RATE		\$0 9692	\$0 9692	\$0 9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692
		\$1,095	\$14,719	\$16,964	\$14,197	\$15,145	\$10,502	\$72,622
19 BILLED NON-FPO SALES PRIOR MONTH (therms)		0	0	243,819	189,929	174,264	119,232	727,244
20 COG NON-FPO RATE PRIOR MONTH		\$0 9492	\$0 9492	\$0 9492	\$0.9686	\$0.9352	\$0.6906	\$0.9085
		\$0	\$0	\$231,433	\$183,965	\$162,972	\$82,342	\$660,711
21 BILLED NON-FPO SALES CURRENT MONTH (therms)		7,355	175,567	32,145	20,845	24,323	13,431	273,667
22 COG NON-FPO RATE CURRENT MONTH		\$0 9492	\$0 9492	\$0 9686	\$0.9352	\$0.6906	\$0.4408	\$0.9025
		\$6,981	\$166,649	\$31,136	\$19,495	\$16,797	\$5,920	\$246,978
23 BILLED SALES OTHER PRIOR PERIODS		0	0	0	(17,747)	(218)	92	(17,873)
24 COG OTHER PRIOR PERIODS BLENDED RATE		\$0 0000	\$0.4843	\$0.4843	\$0.9492	\$0.9586	\$0.9360	\$0.9494
		\$0	\$0	\$0	(\$16,845)	(\$209)	\$86	(\$16,968)
25 TOTAL SALES		8,485	190,754	293,467	207,675	213,995	143,591	1,057,968
26 TOTAL BILLED REVENUES		\$8,077	\$181,368	\$279,533	\$200,811	\$194,705	\$98,850	\$963,344
27 UNBILLED REVENUES (NET)		\$154,760	\$41,801	(\$9,693)	(\$15,563)	(\$86,915)	(\$43,789)	\$40,599
28 TOTAL REVENUES		\$162,836	\$223,169	\$269,839	\$185,248	\$107,789 64	\$55,061	\$1,003,943
29 (OVER)/UNDER COLLECTION		\$17,899	\$39,528	(\$25,322)	\$29,031	\$31,985	\$53,468	\$146,589
30 INTEREST AMOUNT		(\$630)	(\$525)	(\$510)	(\$373)	(\$383)	(\$141)	(\$2,562)
31 FINAL (OVER)/UNDER COLLECTION		(\$170,381)	\$17,269	\$39,003	(\$25,832)	\$28,658	\$31,601	(\$26,354)

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LIBERTY UTILITIES - KEENE DIVISION
Typical Residential Heating Bill - Fixed Price Option Program
Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$91.20	\$15.02	\$15.02	\$15.20	\$15.20	\$15.20	\$15.20	\$90.84	\$182.04
Delivery Charge:															
All therms @ \$0.5569 \$0.5502	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.26	\$9.90	\$5.01	\$3.90	\$4.46	\$6.68	\$49.21	\$298.15
Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.28	\$24.92	\$20.21	\$19.10	\$19.66	\$21.88	\$140.05	\$480.19
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$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
COG Rates	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.8928	
Cost of Gas Total	\$37.80	\$66.87	\$78.51	\$99.83	\$86.26	\$63.97	\$433.24	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$512.70
LDAC Rates	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	
LDAC Total	\$1.21	\$2.14	\$2.51	\$3.19	\$2.76	\$2.05	\$13.86	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87	\$19.73
Total Bill	\$76	\$123	\$141	\$176	\$154	\$118	\$787	\$75	\$44	\$29	\$25	\$24	\$28	\$225	\$1,013
12 MONTHS ENDED 04/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2020 7/1/2019 - 6/30/202	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.20	\$15.20	\$15.50	\$15.50	\$15.50	\$15.50	\$92.40	\$185.40
Delivery Charge:															
All therms @ \$0.5678 \$0.5569	\$22.14	\$39.18	\$45.99	\$58.48	\$50.53	\$37.47	\$253.79	\$19.49	\$10.02	\$5.11	\$3.97	\$4.54	\$6.81	\$49.94	\$303.73
Base Delivery Revenue Total	\$37.64	\$54.68	\$61.49	\$73.98	\$66.03	\$52.97	\$346.79	\$34.69	\$25.22	\$20.61	\$19.47	\$20.04	\$22.31	\$142.34	\$489.13
Seasonal Base Delivery Difference from previous year							\$6.65							\$2.29	\$8.94
Seasonal Percent Change from previous year							2.0%							1.6%	1.9%
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$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
COG Rates	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$0.6326	\$0.6816	\$0.7908	\$0.7908	\$0.7908	\$0.7908	\$0.7066	
Cost of Gas Total	\$47.97	\$84.87	\$99.63	\$126.69	\$109.47	\$81.18	\$549.81	\$22.14	\$12.27	\$7.12	\$5.54	\$6.33	\$9.49	\$62.89	\$612.70
Seasonal COG Difference from previous year							\$116.57							-\$16.57	\$100.00
Seasonal Percent Change from previous year							26.9%							-20.9%	19.5%
LDAC Rates	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	
LDAC Total	\$2.30	\$4.06	\$4.77	\$6.07	\$5.24	\$3.89	\$26.33	\$1.09	\$0.56	\$0.28	\$0.22	\$0.25	\$0.37	\$2.77	\$29.10
Seasonal LDAC Difference from previous year							\$12.47							-\$3.10	\$9.37
Seasonal Percent Change from previous year							90.0%							-52.8%	47.5%
Total Bill	\$88	\$144	\$166	\$207	\$181	\$138	\$923	\$58	\$38	\$28	\$25	\$27	\$32	\$208	\$1,131
Seasonal Total Bill Difference from previous year							\$135.69							-\$17.38	\$118.31
Seasonal Percent Change from previous year							17.2%							-7.7%	11.7%
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.)							0.8%							1.0%	0.9%
Seasonal Percent Change resulting from COG							14.8%							-7.4%	9.9%
Seasonal Percent Change resulting from LDAC							1.6%							-1.4%	0.9%

(1) Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

LIBERTY UTILITIES - KEENE DIVISION
Typical Residential Heating Bill - Non-Fixed Price Option Program
Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
12 MONTHS ENDED 04/2020															
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$91.20	\$15.02	\$15.02	\$15.20	\$15.20	\$15.20	\$15.20	\$90.84	\$182.04
Delivery Charge:															
All therms @ \$0.5569 \$0.5502	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.26	\$9.90	\$5.01	\$3.90	\$4.46	\$6.68	\$49.21	\$298.15
Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.28	\$24.92	\$20.21	\$19.10	\$19.66	\$21.88	\$140.05	\$480.19
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$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
COG Rates	\$0.9492	\$0.9492	\$0.9686	\$0.9352	\$0.6906	\$0.4408	\$0.8229	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.8928	
Cost of Gas Total	\$37.02	\$65.49	\$78.46	\$96.33	\$61.46	\$29.09	\$367.85	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$447.31
LDAC Rates	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	
LDAC Total	\$1.21	\$2.14	\$2.51	\$3.19	\$2.76	\$2.05	\$13.86	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87	\$19.73
Total Bill	\$75	\$121	\$141	\$172	\$129	\$83	\$722	\$75	\$44	\$29	\$25	\$24	\$28	\$225	\$947
12 MONTHS ENDED 04/2021															
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2020 7/1/2019 - 6/30/2020	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.20	\$15.20	\$15.50	\$15.50	\$15.50	\$15.50	\$92.40	\$185.40
Delivery Charge:															
All therms @ \$0.5678 \$0.5569	\$22.14	\$39.18	\$45.99	\$58.48	\$50.53	\$37.47	\$253.79	\$19.49	\$10.02	\$5.11	\$3.97	\$4.54	\$6.81	\$49.94	\$303.73
Base Delivery Revenue Total	\$37.64	\$54.68	\$61.49	\$73.98	\$66.03	\$52.97	\$346.79	\$34.69	\$25.22	\$20.61	\$19.47	\$20.04	\$22.31	\$142.34	\$489.13
Seasonal Base Delivery Difference from previous year							\$6.65							\$2.29	\$8.94
Seasonal Percent Change from previous year							2.0%							1.6%	1.9%
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$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
COG Rates	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$0.6326	\$0.6816	\$0.7908	\$0.7908	\$0.7908	\$0.7908	\$0.7066	
Cost of Gas Total	\$47.19	\$83.49	\$98.01	\$124.63	\$107.69	\$79.86	\$540.87	\$22.14	\$12.27	\$7.12	\$5.54	\$6.33	\$9.49	\$62.89	\$603.76
Seasonal COG Difference from previous year							\$173.02							-\$16.57	\$156.45
Seasonal Percent Change from previous year							47.0%							-20.9%	35.0%
LDAC Rates	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.03	
LDAC Total	\$2.30	\$4.06	\$4.77	\$6.07	\$5.24	\$3.89	\$26.33	\$1.09	\$0.56	\$0.28	\$0.22	\$0.25	\$0.37	\$2.77	\$29.10
Seasonal LDAC Difference from previous year							\$12.47							-\$3.10	-\$19.73
Seasonal Percent Change from previous year							3.4%							-3.9%	-4.4%
Total Bill	\$87	\$142	\$164	\$205	\$179	\$137	\$914	\$58	\$38	\$28	\$25	\$27	\$32	\$208	\$1,122
Seasonal Total Bill Difference from previous year							\$192.14							-\$17.38	\$174.76
Seasonal Percent Change from previous year							26.6%							-7.7%	18.4%
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.)							0.9%							1.0%	0.9%
Seasonal Percent Change resulting from COG							24.0%							-7.4%	16.5%
Seasonal Percent Change resulting from LDAC							1.7%							-1.4%	-2.1%

(1) Residential Heating Typical Usage: Residence using gas for heat, hot water and cooking.

LIBERTY UTILITIES - KEENE DIVISION
Typical Commercial Bill - Fixed Price Option Program
Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage - therms	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
Commercial G-41															
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$56.36	\$56.36	\$56.36	\$56.36	\$56.36	\$56.36	\$338.16	\$55.68	\$55.68	\$56.36	\$56.36	\$56.36	\$56.36	\$336.80	\$674.96
Delivery Charge:															
First 100 therms @ \$0.4621 \$0.4566	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$277.26	\$9.13	\$9.13	\$9.24	\$7.39	\$8.32	\$9.24	\$52.45	\$329.71
Over 100 therms @ \$0.3104 \$0.3067	\$10.24	\$46.25	\$64.25	\$94.05	\$82.88	\$50.28	\$347.95	\$33.12	\$11.04	\$0.62	\$0.00	\$0.00	\$1.86	\$46.64	\$394.59
Base Delivery Revenue Tota	\$112.81	\$148.82	\$166.82	\$196.62	\$185.45	\$152.85	\$963.37	\$97.93	\$75.85	\$66.22	\$63.75	\$64.68	\$67.46	\$435.89	\$1,399.26
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Tota	\$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
COG Rates	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.9405	
Cost of Gas Total	\$128.90	\$241.33	\$297.54	\$390.59	\$355.70	\$253.93	\$1,667.99	\$141.71	\$56.35	\$19.48	\$11.31	\$8.72	\$12.59	\$250.16	\$1,918.15
LDAC Rates	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	0.05153
LDAC Total	\$6.36	\$11.90	\$14.67	\$19.26	\$17.54	\$12.52	\$82.26	\$9.69	\$4.24	\$1.67	\$1.21	\$1.36	\$1.97	\$20.14	\$102.40
Total Bill	\$248	\$402	\$479	\$606	\$559	\$419	\$2,714	\$249	\$136	\$87	\$76	\$75	\$82	\$706	\$3,420
12 MONTHS ENDED 04/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage - therms	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
Commercial G-41															
Customer Charge 7/1/2020 7/1/2019 - 6/30/2020	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$344.76	\$56.36	\$56.36	\$57.46	\$57.46	\$57.46	\$57.46	\$342.56	\$687.32
Delivery Charge:															
First 100 therms @ \$0.4711 \$0.4621	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$282.66	\$9.24	\$9.24	\$9.42	\$7.54	\$8.48	\$9.42	\$53.34	\$336.00
Over 100 therms @ \$0.3165 \$0.3104	\$10.44	\$47.16	\$65.52	\$95.90	\$84.51	\$51.27	\$354.80	\$33.52	\$11.17	\$0.63	\$0.00	\$0.00	\$1.90	\$47.22	\$402.02
Base Delivery Revenue Tota	\$115.01	\$151.73	\$170.09	\$200.47	\$189.08	\$155.84	\$982.22	\$99.12	\$76.77	\$67.51	\$65.00	\$65.94	\$68.78	\$443.12	\$1,425.34
Seasonal Base Delivery Difference from previous year							\$18.85							\$7.23	\$26.08
Seasonal Percent Change from previous year							2.0%							1.7%	1.9%
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Tota	\$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
COG Rates	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$0.6326	\$0.6816	\$0.7908	\$0.7908	\$0.7908	\$0.7908	\$0.6917	
Cost of Gas Total	\$163.59	\$306.27	\$377.61	\$495.69	\$451.41	\$322.26	\$2,116.83	\$80.97	\$38.17	\$17.40	\$12.65	\$14.23	\$20.56	\$183.98	\$2,300.81
Seasonal COG Difference from previous year							\$448.84							-\$66.18	\$382.66
Seasonal Percent Change from previous year							26.9%							-26.5%	19.9%
LDAC Rates	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	
LDAC Total	\$7.38	\$13.82	\$17.04	\$22.37	\$20.37	\$14.54	\$95.52	\$6.12	\$2.68	\$1.05	\$0.76	\$0.86	\$1.24	\$12.71	\$108.23
Seasonal LDAC Difference from previous year							\$13.26							-\$7.43	\$382.66
Seasonal Percent Change from previous year							16.1%							-36.9%	19.9%
Total Bill	\$286	\$472	\$565	\$719	\$661	\$493	\$3,195	\$186	\$118	\$86	\$78	\$81	\$91	\$640	\$3,834
Seasonal Total Bill Difference from previous year							\$480.94							-\$66.38	\$414.57
Seasonal Percent Change from previous year							17.7%							-9.4%	12.1%
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.							0.7%							1.0%	0.8%
Seasonal Percent Change resulting from COG							16.5%							-9.4%	11.2%
Seasonal Percent Change resulting from LDAC							0.5%							-1.1%	11.2%

LIBERTY UTILITIES - KEENE DIVISION
Typical Commercial Bill - Non-Fixed Price Option Program
Forecasted 2020-2021 Winter Period vs. Actual 2019-2020 Winter Period

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage - therms	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
Commercial G-41															
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$56.36	\$56.36	\$56.36	\$56.36	\$56.36	\$56.36	\$338.16	\$55.68	\$55.68	\$56.36	\$56.36	\$56.36	\$56.36	\$336.80	\$674.96
Delivery Charge:															
First 100 therms @ \$0.4621 \$0.4566	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$46.21	\$277.26	\$9.13	\$9.13	\$9.24	\$7.39	\$8.32	\$9.24	\$52.45	\$329.71
Over 100 therms @ \$0.3104 \$0.3067	\$10.24	\$46.25	\$64.25	\$94.05	\$82.88	\$50.28	\$347.95	\$33.12	\$11.04	\$0.62	\$0.00	\$0.00	\$1.86	\$46.64	\$394.59
Base Delivery Revenue Total	\$112.81	\$148.82	\$166.82	\$196.62	\$185.45	\$152.85	\$963.37	\$97.93	\$75.85	\$66.22	\$63.75	\$64.68	\$67.46	\$435.89	\$1,399.26
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$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
COG Rates	\$0.9492	\$0.9492	\$0.9686	\$0.9352	\$0.6906	\$0.4408	\$0.8168	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.9405	
Cost of Gas Total	\$126.24	\$236.35	\$297.36	\$376.89	\$253.45	\$115.49	\$1,405.78	\$141.71	\$56.35	\$19.48	\$11.31	\$8.72	\$12.59	\$250.16	\$1,655.94
LDAC Rates	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	\$0.0757	-\$6.8260
LDAC Total	\$6.36	\$11.90	\$14.67	\$19.26	\$17.54	\$12.52	\$82.25	\$9.69	\$4.24	\$1.67	\$1.21	\$1.36	\$1.97	\$20.14	\$102.39
Total Bill	\$245	\$397	\$479	\$593	\$456	\$281	\$2,451	\$249	\$136	\$87	\$76	\$75	\$82	\$706	\$3,158
12 MONTHS ENDED 04/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage - therms	133	249	307	403	367	262	1,721	128	56	22	16	18	26	266	1,987
Commercial G-41															
Customer Charge 7/1/2020 7/1/2019 - 6/30/2020	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$57.46	\$344.76	\$56.36	\$56.36	\$57.46	\$57.46	\$57.46	\$57.46	\$342.56	\$687.32
Delivery Charge:															
First 100 therms @ \$0.4711 \$0.4621	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$47.11	\$282.66	\$9.24	\$9.24	\$9.42	\$7.54	\$8.48	\$9.42	\$53.34	\$336.00
Over 100 therms @ \$0.3165 \$0.3104	\$10.44	\$47.16	\$65.52	\$95.90	\$84.51	\$51.27	\$354.80	\$33.52	\$11.17	\$0.63	\$0.00	\$0.00	\$1.90	\$47.22	\$402.02
Base Delivery Revenue Total	\$115.01	\$151.73	\$170.09	\$200.47	\$189.08	\$155.84	\$982.22	\$99.12	\$76.77	\$67.51	\$65.00	\$65.94	\$68.78	\$443.12	\$1,425.34
Seasonal Base Delivery Difference from previous year							\$18.85							\$7.23	\$28.08
Seasonal Percent Change from previous year							2.0%							1.7%	1.9%
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$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
COG Rates	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$0.6326	\$0.6816	\$0.7908	\$0.7908	\$0.7908	\$0.7908	\$0.6917	
Cost of Gas Total	\$160.93	\$301.29	\$371.47	\$487.63	\$444.07	\$317.02	\$2,082.41	\$80.97	\$38.17	\$17.40	\$12.65	\$14.23	\$20.56	\$183.98	\$2,266.39
Seasonal COG Difference from previous year							\$676.63							-\$66.18	\$610.45
Seasonal Percent Change from previous year							48.1%							-26.5%	36.9%
LDAC Rates	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0555	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	\$0.0478	
LDAC Total	\$7.38	\$13.82	\$17.04	\$22.37	\$20.37	\$14.54	\$95.52	\$6.12	\$2.68	\$1.05	\$0.76	\$0.86	\$1.24	\$12.71	\$108.23
Seasonal LDAC Difference from previous year							\$13.27							-\$7.43	\$5.84
Seasonal Percent Change from previous year							16.1%							-36.9%	5.7%
Total Bill	\$283	\$467	\$559	\$710	\$654	\$487	\$3,160	\$186	\$118	\$86	\$78	\$81	\$91	\$640	\$3,800
Seasonal Total Bill Difference from previous year							\$708.75							-\$66.38	\$642.37
Seasonal Percent Change from previous year							28.9%							-9.4%	20.3%
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.)							0.8%							1.0%	0.8%
Seasonal Percent Change resulting from COG							0.5%							-9.4%	19.3%
Seasonal Percent Change resulting from LDAC							3.9%							-1.1%	0.2%