

LIBERTY UTILITIES - KEENE DIVISION

CALCULATION OF COST OF GAS RATE
SUPPLY / DEMAND BALANCE
SUMMER PERIOD 2021

	(1) PRIOR	(2) May-21	(3) Jun-21	(4) Jul-21	(5) Aug-21	(6) Sep-21	(7) Oct-21	(8) TOTAL
		Actual	Actual	Actual	Actual	Actual	Actual	
PROPANE COSTS								
1 PROPANE FIRM SENDOUT (therms)								
2 COMPANY USE (therms)								
3 TOTAL PROPANE SENDOUT (therms)								
4 COST PER THERM (WACOG)		\$1,1069	\$1,1869	\$1,3619	\$1,4048	\$1,4683	\$1,6086	
5 TOTAL CALCULATED COST OF PROPANE		\$62,060	\$44,436	\$48,722	\$51,179	\$56,747	\$91,851	\$354,995
6 PROPANE ADJUSTMENTS		(\$0)	(\$150)	\$149	\$0	(\$0)	\$0	(\$1)
7 TOTAL COST OF PROPANE		\$62,060	\$44,286	\$48,871	\$51,179	\$56,747	\$91,851	\$354,993
CNG COSTS								
8 CNG SENDOUT (therms)								
9 COMPANY USE (therms)								
10 TOTAL CNG SENDOUT (therms)								
11 COST PER THERM (WACOG)								
12 TOTAL CALCULATED COST OF CNG								
13 ACCOUNTING ADJUSTMENT		\$52	\$71	\$728	(\$569)	\$45	\$22	\$350
14 CNG DEMAND CHARGES								
15 TOTAL CALCULATED COST OF CNG								
FPO PREMIUM		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
16 TOTAL COSTS OF GAS								
17 RETURN ON INVENTORY		\$0	\$0	\$0	\$0	\$0	\$0	\$0
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	
20 TOTAL		\$0	\$0	\$0	\$0	\$0	\$0	\$0
21 BILLED NON-FPO SALES CURRENT MONTH (therms)		48,984	35,352	35,014	42,924	33,670	36,773	232,717
22 COG NON-FPO RATE CURRENT MONTH		\$1,1821	\$1,2665	\$1,4680	\$1,4680	\$1,3440	\$1,2389	
23 TOTAL		\$57,904	\$44,773	\$51,401	\$63,012	\$45,252	\$45,558	\$307,900
24 BILLED NON-FPO SALES PRIOR MONTH (therms)		0	20,254	10,455	0	11,164	13,695	
25 COG NON-FPO RATE PRIOR MONTH		\$0.0000	\$1,1821	\$1,2665	\$1,4680	\$1,4680	\$1,3440	
26 TOTAL		\$0	\$23,942	\$13,241	\$0	\$16,389	\$18,406	\$71,978
27 BILLED SALES OTHER PRIOR PERIODS		0	(1)	546	13	(31)	8	
28 COG OTHER PRIOR PERIODS BLENDED RATE		\$0.0000	\$0.8000	\$1,1821	\$1,2300	\$0.0000	\$1,3057	
29 TOTAL		\$0	(\$1)	\$645	\$16	(\$33)	\$11	\$638
30 TOTAL SALES		48,984	55,605	46,015	42,937	44,803	50,475	288,819
31 TOTAL BILLED REVENUES		\$57,904	\$68,715	\$65,287	\$63,028	\$61,608	\$63,974	\$380,517
32 UNBILLED REVENUES (NET)		\$18,316	(\$10,435)	\$6,034	\$2,302	\$3,649	\$18,461	\$38,328
33 TOTAL REVENUES		\$76,220	\$58,280	\$71,322	\$65,330	\$65,257	\$82,435	\$418,845
34 (OVER)/UNDER COLLECTION		\$483	(\$2,247)	(\$9,055)	(\$3,938)	\$4,508	\$26,904	\$16,653
35 INTEREST AMOUNT		(\$1)	(\$3)	(\$19)	(\$37)	(\$35)	\$7	(\$87)
36 FINAL (OVER)/UNDER COLLECTION	(\$488)	\$482	(\$2,250)	(\$9,074)	(\$3,975)	\$4,473	\$26,911	\$16,078

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

LINE NO.		actual May-21	actual Jun-21	actual Jul-21	actual Aug-21	actual Sep-21	actual Oct-21	TOTAL
1	TOTAL SENDOUT (therms)							
2	CHANGE TO ENDING INVENTORY BALANCE (therms)	-	-	-	-	7,385	-	7,385
3	TOTAL REQUIRED PURCHASES (therms)	70,296	48,050	47,055	46,132	57,383	70,940	339,856
4	<u>PROPANE PURCHASE STABILIZATION PLAN DELIVERIES</u>							
5	Therms	-	-	-	-	-	-	-
6	<u>RATES</u> - from Schedule D							
7	Contract Price	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
8	Broker Fee	incl.	incl.	incl.	incl.	incl.	incl.	
9	Pipeline Fee	incl.	incl.	incl.	incl.	incl.	incl.	
10	PERC Fee	incl.	incl.	incl.	incl.	incl.	incl.	
11	Trucking Fee	incl.	incl.	incl.	incl.	incl.	incl.	
12	COST PER GALLON	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
13	TOTAL COST - Propane Purchase Stabilization Plan Deliveries	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	<u>AMHERST STORAGE PROPANE DELIVERIES</u>							
15	Therms	-	-	-	-	109,927	-	109,927
16	<u>RATES</u> - from Schedule F							
17	WACOG Price	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
18	Trucking Fee	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
19	COST PER GALLON	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$1.4160	\$0.0000	
20	TOTAL COST - Amherst Storage Propane Deliveries	\$0	\$0	\$0	\$0	\$155,660	\$0	\$155,660
21	<u>CNG DELIVERIES</u>							
22	Therms							71,010
23	RATE							
24	PRICE							
25	COST PER Therm							
26	COST - CNG							
27	DEMAND FIXED							
28	COST PER Therm							
29	TOTAL CNG							
30	<u>SPOT PURCHASES</u>							
31	Therms	61,089	27,477	52,962	27,462	27,473	60,516	256,979
32	<u>RATES</u> - from Schedule C							
33	Mont Belvieu							
34	Broker Fee							
35	Pipeline Fee							
36	PERC Fee							
37	Supplier Charge							
38	Trucking Fee							
39	COST PER GALLON - Market Quotes							
40	COST PER THERM - Market Quotes							
41	TOTAL COST - Spot Purchases							
42	<u>OTHER ITEMS</u>							
43	Amherst propane	\$0	\$0	\$0	\$0	\$13,655	\$0	\$13,655
44	Refund of Deferred Revenue Surcharge over collection	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	TOTAL OTHER ITEMS	\$0	\$0	\$0	\$0	\$13,655	\$0	\$13,655
46	<u>TOTAL</u>							
47	THERMS	75,319	38,087	64,242	37,162	156,135	74,356	445,301
48	SENDOUT THERMS	70,296	48,050	47,055	46,132	49,998	70,940	332,471
49	COST	\$88,640	\$50,725	\$93,244	\$209,958	\$230,689	\$138,443	\$811,700
50	COST PER THERM	\$1.1769	\$1.3318	\$1.4515	\$5.6498	\$1.4775	\$1.8619	\$1.8228

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LIBERTY UTILITIES - KEENE DIVISION

PROPANE INVENTORY & WEIGHTED AVERAGE COST OF PROPANE CALCULATION
SUMMER PERIOD 2021

LINE NO.

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>CNG therms</u>	<u>Cost</u>	<u>Total Sendout</u>	<u>Total Cost</u>	<u>Therm Rate</u>
								(1)+(5)	(2)+(6)	(8) / (7)
1	May 2021 (actual)									
2	Beginning Balance	41,589	\$42,306	\$1.0172	\$0.9308					
3	Purchases Received	61,089	\$71,350	\$1.1680	\$1.0687					
4	Total Available	102,679	\$113,656	\$1.1069	\$1.0128					
5	Less Sendout	56,066	\$62,060	\$1.1069	\$1.0128					
6	Ending Balance	46,613	\$51,596	\$1.1069	\$1.0128					
7	June 2021 (actual)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>					
8	Beginning Balance	46,613	\$51,596	\$1.1069	\$1.0128					
9	Purchases Received	27,477	\$36,339	\$1.3225	\$1.2101					
10	Total Available	74,090	\$87,935	\$1.1869	\$1.0860					
11	Less Sendout	37,440	\$44,436	\$1.1869	\$1.0860					
12	Ending Balance	36,650	\$43,499	\$1.1869	\$1.0860					
13	July 2021 (actual)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>					
14	Beginning Balance	36,650	\$43,499	\$1.1869	\$1.0860					
15	Purchases Received	52,962	\$78,543	\$1.4830	\$1.3570					
16	Total Available	89,612	\$122,042	\$1.3619	\$1.2462					
17	Less Sendout	35,775	\$48,722	\$1.3619	\$1.2462					
18	Ending Balance	53,837	\$73,320	\$1.3619	\$1.2462					
19	August 2021 (actual)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>					
20	Beginning Balance	53,837	\$73,320	\$1.3619	\$1.2462					
21	Purchases Received	27,462	\$40,888	\$1.4889	\$1.3624					
22	Total Available	81,299	\$114,208	\$1.4048	\$1.2854					
23	Less Sendout	36,432	\$51,179	\$1.4048	\$1.2854					
24	Ending Balance	44,867	\$63,029	\$1.4048	\$1.2854					
25	September 2021 (actual)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>					
26	Beginning Balance	44,867	\$63,029	\$1.4048	\$1.2854					
27	Purchases Received	144,785	\$215,437	\$1.4880	\$1.3615					
28	Total Available	189,652	\$278,466	\$1.4683	\$1.3435					
29	Less Sendout	38,648	\$56,747	\$1.4683	\$1.3435					
30	Ending Balance	151,004	\$221,719	\$1.4683	\$1.3435					
31	October 2021 (forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>					
32	Beginning Balance	151,004	\$221,719	\$1.4683	\$1.3435					
33	Purchases Received	60,516	\$118,525	\$1.9586	\$1.7921					
34	Total Available	211,520	\$340,244	\$1.6086	\$1.4719					
35	Less Sendout	57,100	\$91,849	\$1.6086	\$1.4719					
36	Ending Balance	154,420	\$248,395	\$1.6086	\$1.4719					
37	AVERAGE SUMMER RATE - SENDOUT									

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LIBERTY UTILITIES - KEENE DIVISION

INCREMENTAL SAVINGS CNG VS. SPOT PROPANE SUMMER 2021

ACTUALS

	Actual May-21	Actual Jun-21	Actual Jul-21	Actual Aug-21	Actual Sep-21	Actual Oct-21	
<u>CNG PURCHASES</u>							
CNG Volumes (Schedule K Reconciliation)							
CNG Costs (Schedule C Reconciliation)							
Total Cost per Actual CNG Costs (Schedule K Reconciliation)							
CNG Cost Per Therm Actual							
<u>SPOT PROPANE PURCHASES</u>							
Spot Propane Volumes (Schedule K Reconciliation)							
Total Costs Spot Propane (Schedule K Reconciliation)							
Total Cost Spot Propane							
Spot Propane Cost Per Therm Actual	\$1.1680	\$1.3225	\$1.4830	\$1.4889	\$1.6788	\$1.9586	\$1.5245
CNG Volumes							
Price difference CNG vs Spot Propane							
Adj. for rounding							
Incremental Savings Propane							

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LIBERTY UTILITIES - KEENE DIVISION

CONVERSION OF COSTS - GALLONS TO THERMS
SUMMER PERIOD 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			\$1.3950	\$1.5245
GAS FROM CNG	THERMS	N/A	N/A		N/A	

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