# Northern Utilities, Inc. Calculation of Lost Revenue Rate (LRR) Effective November 1, 2018

Line	Sector			Reference
	Residential Classes- R5, R6, R10, R11			
1	Sector Ending Balance-October 31, 2018	\$	6,231	Page 2, Ln 2, Nov-2018
2	Lost Distribution Revenue-November 2018 through October 2019	\$	136,054	Page 2, Ln 12, Total
3	Interest- November 2018 through October 2019	\$	(992)	Page 2, Ln 25, Total
4	Total to be recovered	\$	141,293	Line 1+ Line 2+Line 3
5	Sector Sales - Therms- November 2018 through October 2019		19,742,687	Page 2, Line 15
6	Lost Revenue Rate (\$ per therm)		\$0.0072	Line 4 / Line 5
7 8 9	Commercial & Industrial Classes-G40, G50, G41, G51, G42, G-52  Sector Ending Balance-October 31, 2018  Lost Distribution Revenue-November 2018 through October 2019  Interest- November 2018 through October 2019	\$ <b>\$</b>	(5,050) 85,811 <b>(714)</b>	Page 2, Ln 29, Nov-2018 Page 2, Ln 40, Total Page 2, Ln 53, Total
10	Total to be recovered	\$	80,046	Line 7+Line 8+Line 9
11	Sector Sales - Therms- November 2018 through October 2019		55,326,580	Page 2, Line 43
12	Lost Revenue Rate (\$ per therm)		\$0.0014	Line 10 / Line 11

## Northern Utilities, Inc. Lost Revenue Reconciliation

2019

RESIDENTIAL Beginning Balance - (Over)/Under COSTS Incremental Annualized Savings Therms 1,415 1,546 134 267 390 524 657 791 925 1,058 1,181 1,315 10  Cumulative Savings Current Therms 1,415 2,961 3,095 3,362 3,752 4,276 4,934 5,725 6,649 7,707 8,889 10,204 62  Cumulative Baryings Prior Therms 14,388 15,934 16,067 16,334 16,725 17,249 17,906 18,697 19,622 20,680 21,861 23,176 218  Average Distribution Rate 5/Therm \$ 0,6655										2019							
Property		Costor / Dossription	l lmit														Tota
Page	e D		Unit		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Мау-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Tota
		Beginning Balance - (Over)/Under	\$'s	\$	6,231 \$	5,186 \$	(1,369) \$	(16,953) \$	(32,855) \$	(41,583) \$	(46,371) \$	(44,502) \$	(38,663) \$	(30,321) \$	(20,978) \$	(10,837)	
Completive Savings - Current   Therms		Incremental Annualized Savings	Therms		16,984	18,550	1,603	3,205	4,684	6,287	7,890	9,492	11,095	12,697	14,177	15,779	122
Computation Sarings   Prince		Incremental Monthly Savings	Therms		1,415	1,546	134	267	390	524	657	791	925	1,058	1,181	1,315	10
Computation Sarings   Prince																	
Compute tends believe   The Enrich   14,188   15,994   15,005   16,005   16,005   16,005   10,005		<del>-</del>			,		,			,	,		,				62
Part		Cumulative Savings - Prior									_						-
No.		Cumulative LBR Savings	Therms		14,388	15,934	16,067	16,334	16,725	17,249	17,906	18,697	19,622	20,680	21,861	23,176	218
Sector Siles   Therms		Average Distribution Rate									0.5880 \$					0.5880	
Section Sales   Therms		Lost Distribution Revenue	\$'s	\$	9,576 \$	10,605 \$	10,693 \$	10,871 \$	11,131 \$	11,480 \$	10,528 \$	10,993 \$	11,537 \$	12,159 \$	12,854 \$	13,627	\$ 136
Solition		REVENUE	_														
Revenue   St   S   10,868   S   17,094   S   26,206   S   26,648   S   19,683   S   16,678   S   8,471   S   4,996   S   3,007   S   2,727   S   2,669   S   3,040   S   14,140   COMPUNDER Recovery [Excinterest]   S   4,939   S   1,304   S   16,881   S   12,229   S   (14,407)   S   (46,182)   S   (44,341)   S   (38,305)   S   (30,193)   S   (20,889)   S   (10,793)   S   (85,005)   S   (10,793)   S   (10,793		Sector Sales															19,742
Note   Computed interest   S		Lost Revenue Rate				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·			
NTRREST		Revenue	\$'s	\$	10,868 \$	17,094 \$	26,206 \$	26,648 \$	19,683 \$	16,078 \$	8,471 \$	4,996 \$	3,067 \$	2,727 \$	2,669 \$	3,640	\$ 142
Average Monthly Ralaince   S.S.89   S. 1.84   S. 19,125   S. 124,841   S. 19,125   S. 10,006   S.0006   S.00		(Over)/Under-Recovery (Exc interest)		\$	4,939 \$	(1,304) \$	(16,881) \$	(32,729) \$	(41,407) \$	(46,182) \$	(44,314) \$	(38,505) \$	(30,193) \$	(20,889) \$	(10,793) \$	(850)	
True		INTEREST															
Computed Interest   S's   S   247   S   665   S   727   S   128   S   31   30   31   31   30   31   31   30   31		Average Monthly Balance	_	\$	5,585 \$	1,941 \$	(9,125) \$	(24,841) \$	(37,131) \$	(43,882) \$	(45,343) \$	(41,504) \$	(34,428) \$	(25,605) \$	(15,885) \$	(5,844)	
Computed Interest \$'s \$ 247 \$ (65) \$ (72) \$ (126) \$ (176) \$ (190) \$ (188) \$ (158) \$ (128) \$ (89) \$ (44) \$ (4) \$ (4) \$ \$ Eding Balance \$\$'s \$ 5,186 \$ (1,369) \$ (16,953) \$ (32,855) \$ (41,583) \$ (46,371) \$ (44,502) \$ (38,663) \$ (30,321) \$ (20,978) \$ (10,837) \$ (854) \$ \$ \$ \$ (5,050) \$ (4,337) \$ (4,725) \$ (8,137) \$ (11,154) \$ (12,017) \$ (11,107) \$ (11,107) \$ (10,901) \$ (8,570) \$ (6,033) \$ (3,248) \$ (34) \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Interest Rate-WSJ Prime Rate	Annual %		5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	Tota
Commercial Monthly Savings		Days per Month			30	31	31	28	31	30	31	30	31	31	30	31	
COSTS   COSTS   Commandated Savings   Therms   34,773   37,979   3,169   6,339   9,264   12,434   15,603   18,772   21,941   25,111   28,036   31,206   244   10,0000000000000000000000000000000000		Computed Interest	\$'s	\$	247 \$	(65) \$	(72) \$	(126) \$	(176) \$	(190) \$	(188) \$	(158) \$	(128) \$	(89) \$	(44) \$	(4)	\$
Reginning Balance - (Overl/Under   S's   S,050   S   (4,337)   S   (4,725)   S   (8,137)   S   (11,154)   S   (12,017)   S   (10,107)   S   (10,901)   S   (8,570)   S   (6,033)   S   (3,248)   S   (34)		•	\$'s	\$	5,186 \$	(1,369) \$	(16,953) \$	(32,855) \$	(41,583) \$	(46,371) \$	(44,502) \$	(38,663) \$	(30,321) \$	(20,978) \$	(10,837) \$	(854)	
Costs   Incremental Annualized Savings   Therms   34,773   37,979   3,169   6,339   9,264   12,434   15,603   18,772   21,941   25,111   28,036   31,206   244   245,000   245			41		(= 0=0) A	(4.00=) A	/+ === \ A	(0.40=) 4	(44.45.4)	(40.047) 4	(44.40=) 4	(40,004) 4	(0.550) 4	/s agg) A	(0.040) 4	(2.4)	
Incremental Annualized Savings   Therms   34,773   37,979   3,169   6,339   9,264   12,434   15,603   18,772   21,941   25,111   28,036   31,206   244   10,000   1,		Beginning Balance - (Over)/Under	Ş's	\$	(5,050) \$	(4,337) \$	(4,725) \$	(8,137) \$	(11,154) \$	(12,017) \$	(11,107) \$	(10,901) \$	(8,570) \$	(6,033) \$	(3,248) \$	(34)	
Incremental Annualized Savings   Therms		COSTS															
Cumulative Savings - Current   Therms			 Therms		34 773	37 979	3 169	6 339	9 264	12 434	15 603	18 772	21 941	25 111	28.036	31 206	24/
Cumulative Savings - Current Therms		•			- , -	- ,	,	-,	,	, -	,	-,	,	-,	,	,	
Cumulative Savings - Prior Therms 36,620 36,		meremental Monthly Savings	memis		2,030	3,103	204	320	,,,_	1,030	1,500	1,504	1,020	2,033	2,330	2,000	
Cumulative LBR Savings  Therms  39,518  42,683  42,947  43,475  44,447  45,283  46,583  48,148  49,976  52,069  54,405  57,005  566  Average Distribution Rate Lost Distribution Revenue  \$'\$ \$ 7,561 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1913 \$ 0.1182 \$ 0		Cumulative Savings - Current	Therms		2,898	6,063	6,327	6,855	7,627	8,663	9,963	11,528	13,356	15,449	17,785	20,386	126
Average Distribution Rate   S/Therm   S   0.1913   S   0.		Cumulative Savings - Prior	Therms		36,620	36,620	36,620	36,620	36,620	36,620	36,620	36,620	36,620	36,620	36,620	36,620	366
New Part		Cumulative LBR Savings	Therms		39,518	42,683	42,947	43,475	44,247	45,283	46,583	48,148	49,976	52,069	54,405	57,005	566
Computed Interest Revenue   S's   S   7,561   S   8,166   S   8,217   S   8,318   S   8,465   S   8,664   S   5,505   S   5,690   S   5,906   S   5,906   S   5,906   S   5,907   S   5,		Average Dietaily view Date	ć /Th	,	0.1013 4	0.4042 *	0.4043 *	0.4043 4	0.4043 *	0.1013 4	0.1403 *	0.1403 *	0.1403 *	0.1403 *	0.4403 *	0.4402	
REVENUE   Sector Sales		-															ė 01
Sector Sales   Therms		LOST DISTINUTION REVENUE	γs	ş	7,301 \$	9,100 \$	0,21/ \$	0,310 \$	0,403 \$	0,004 \$	5,505 \$	5,060,5	5,500 \$	0,133 \$	0,429 \$	0,737	8: د
Sector Sales   Therms		REVENUE															
Lost Revenue Rate \$/Therm \$0.0014 \$0.0			Therms		4,743,334	5,949,685	8,281,593	8,065,912	6,626,460	5,506,128	3,751,759	2,374,269	2,388,382	2,396,136	2,296,955	2,945,966	55,32
Covery/Under-Recovery (Exc interest)   S's   S   (4,130)   S   (4,500)   S   (8,103)   S   (11,112)   S   (11,966)   S   (11,062)   S   (10,854)   S   (8,535)   S   (6,007)   S   (3,234)   S   (34)   S   2,578																	,
Covery/Under-Recovery (Exc interest)   S's   S   (4,130)   S   (4,500)   S   (8,103)   S   (11,112)   S   (11,966)   S   (11,062)   S   (10,854)   S   (8,535)   S   (6,007)   S   (3,234)   S   (34)   S   2,578		Revenue	\$'s	\$	6,641 \$	8,330 \$	11,594 \$	11,292 \$	9,277 \$	7,709 \$	5,252 \$	3,324 \$	3,344 \$	3,355 \$	3,216 \$	4,124	\$ 7
NTEREST   Average Monthly Balance   \$ (4,590) \$ (4,418) \$ (6,414) \$ (9,624) \$ (11,560) \$ (11,539) \$ (10,981) \$ (9,718) \$ (7,289) \$ (4,634) \$ (1,641) \$ 1,272																•	
Average Monthly Balance \$ (4,590) \$ (4,418) \$ (6,414) \$ (9,624) \$ (11,560) \$ (11,539) \$ (10,981) \$ (9,718) \$ (7,289) \$ (4,634) \$ (1,641) \$ 1,272 Interest Rate-WSJ Prime Rate Annual \$ 5.00% \$		(Over)/Under-Recovery (Exc interest)	\$'s	\$	(4,130) \$	(4,500) \$	(8,103) \$	(11,112) \$	(11,966) \$	(11,062) \$	(10,854) \$	(8,535) \$	(6,007) \$	(3,234) \$	(34) \$	2,578	
Average Monthly Balance \$ (4,590) \$ (4,418) \$ (6,414) \$ (9,624) \$ (11,560) \$ (11,539) \$ (10,981) \$ (9,718) \$ (7,289) \$ (4,634) \$ (1,641) \$ 1,272 Interest Rate-WSJ Prime Rate Annual \$ 5.00% \$		INTEREST															
Interest Rate-WSJ Prime Rate Days per Month Solve Solv			_	\$	(4,590) \$	(4,418) \$	(6,414) \$	(9,624) \$	(11,560) \$	(11,539) \$	(10,981) \$	(9,718) \$	(7,289) \$	(4,634) \$	(1,641) \$	1,272	
Computed Interest \$'s \$ (207) \$ (225) \$ (34) \$ (43) \$ (51) \$ (45) \$ (46) \$ (35) \$ (26) \$ (14) \$ (0) \$ 11 \$		- ,	Annual %	•													Tota
Ending Balance \$'s \$ (4,337) \$ (4,725) \$ (8,137) \$ (11,154) \$ (12,017) \$ (11,107) \$ (10,901) \$ (8,570) \$ (6,033) \$ (3,248) \$ (34) \$ 2,589		Computed Interest	\$'s	\$	(207) \$	(225) \$	(34) \$	(43) \$	(51) \$	(45) \$	(46) \$	(35) \$	(26) \$	(14) \$	(0) \$	11	\$
		Ending Balance	\$'s	\$	(4,337) \$	(4,725) \$	(8,137) \$	(11,154) \$	(12,017) \$	(11,107) \$	(10,901) \$	(8,570) \$	(6,033) \$	(3,248) \$	(34) \$	2,589	

NOTES: Line 11 and Line 39, see page 3.

Line 4 and Line 32, see Page 4.

#### Northern Utilities, Inc.

#### Summary of Average Distribution Rate for Lost Revenue

				Calculation of Average	Distribution Rate	e for Lost Reven	ıe (Detail)						
	<u>(1)</u>	(2)	(3)=(1)X(2)	<u>(4)</u>		<u>(5</u>	1	$(6) = (4) \times (5)$	(7)		<u>(8)</u>		(9) = (7) X (8)
	Number of	Customer	Calculated Customer	Billing Determinants - Win	nter	Winter Distrib	ution Rates	Winter	Billing Determina	ants - Summer S	ummer Distribu	tion Rates	Summer
	Customers	<u>Charge</u>	Charge Revenue	First	Excess	First	Excess	Distribution	First	Excess	First	Excess	Distribution
				<u>Therms</u>	Therms	Therms \$/thm	Therms \$/thm	Revenue	<u>Therms</u>	Therms Th	erms \$/thm Th	erms \$/thm	<u>Revenue</u>
R-5 Residential, Heating	276,624	\$21.36	\$5,908,689	6,004,830	7,696,559	\$ 0.6660	\$ 0.6660	\$9,125,125	2,787,733	404,009 \$	0.5870 \$	0.5870	\$1,873,553
R-10 Residential Heating, Low Income	9,283	\$8.54	\$79,277	218,844	207,950	\$ 0.6660	\$ 0.6660	\$284,245	83,384	11,668 \$	0.5870 \$	0.5870	\$55,796
R-6 Residential, Non-Heating	16,385	\$21.36	\$349,984	54,507	97,776	\$ 0.6227	\$ 0.6227	\$94,827	55,088	36,667 \$	0.6227 \$	0.6227	\$57,136
Total Residential Service	302,292		\$6,337,949	6,278,181	8,002,285	i		\$9,504,197	2,895,717	452,344			\$1,986,484
G-40 Low Annual, High Winter Use	60,096	\$72.26	\$4,342,537	1,911,562	6,729,793	\$ 0.1795	\$ 0.1795	\$1,551,123	740,593	701,803 \$	0.1795 \$	0.1795	\$258,910
G-50 Low Annual, Low Winter Use	9,672	\$72.26	\$698,899	223,046	707,885	\$ 0.1795	\$ 0.1795	\$167,102	220,235	600,792 \$	0.1795 \$	0.1795	\$147,374
G-41 Medium Annual, High Winter Use	7,657	\$214.26	\$1,640,589	10,225,592		\$ 0.2334		\$2,386,653	2,464,309	\$	0.1824		\$449,490
G-51 Medium Annual, Low Winter Use	3,118	\$214.26	\$668,063	1,632,744	973,871	\$ 0.1648	\$ 0.1346	\$400,159	1,266,445	679,409 \$	0.1287 \$	0.1046	\$234,058
G-42 High Annual, High Winter Use	394	\$1,285.55	\$506,507	4,787,340		\$ 0.1909		\$913,903	1,601,048	\$	0.1161		\$185,882
G-52 High Annual, Low Winter Use	397	\$1,285.55	\$510,363	8,385,776		\$ 0.1655		\$1,387,846	7,095,551	\$	0.0762		\$540,681
Total General Service	81,334		\$8,366,957	27,166,060	8,411,549	1	•	\$6,806,787	13,388,181	1,982,004			\$1,816,395
Total Company	383,626		\$14,704,906	33,444,241	16,413,834			\$16,310,983	16,283,898	2,434,348			\$3,802,879

Notes:

Column (1),Column (4) and Column (7): 2017 actual billing determinants.

Column (2), Column (5) and Column (8): Winter and Summer distribution rates effective May 1, 2018.

R-11 Rate Class is closed May 1, 2017. R-11 Rate Class Customers migrated to R-6 Rate Class.

Calculation of Average Distribution Rate for Lost Revenue Winter and Summer (Summary)

Calculation of Average D	(10)=(3)	(11) = (6) + (9)	12=(10+(11)	(13)=(4)+(7)
	(10) (5)	122/ (0/ - (5/	12 (10.(11)	123/ (1/-1/-/
	Total	Total	Total	Total
	Calculated	Volumetric	Distribution	Annual
	Customer	Revenue	Revenue	<u>Therms</u>
R-5	\$5,908,689	\$10,998,678	\$16,907,366	16,893,131
R-10	\$79,277	\$340,040	\$419,317	521,846
	6240.004	6454.060	Ć504.046	244.020
R-6	\$349,984	\$151,962	\$501,946	244,038
Total Residential Service	\$6,337,949	\$11,490,680	\$17,828,629	17,659,015
G-40	\$4,342,537	\$1,810,033	\$6,152,570	10,083,751
G-50	\$698,899	\$314,476	\$1,013,375	1 751 050
G-50 G-41	,	\$314,476	\$1,013,375 \$4,476,732	1,751,958 12,689,901
G-41 G-51		\$2,836,143 \$634,217	\$1,302,280	4,552,469
0-31	\$000,003	\$054,217	\$1,502,280	4,552,469
G-42	¢500 507	Ć1 000 70F	¢1 coc 202	C 200 200
G-42	\$506,507	\$1,099,785	\$1,606,292	6,388,388
0.53	¢510.262	Ć1 020 F27	¢2 428 800	45 404 227
	\$510,363	\$1,928,527	\$2,438,890	15,481,327
Total General Service	\$8,366,957	\$8,623,182	\$16,990,139	50,947,794
Total Company	\$14,704,906	\$20,113,862	\$34,818,768	68,606,809

#### Based on Actual Billing Determinants for 2017 at Current Distribution Rates-Winter

	(1)	(2)	(3)=(1)/(2)
	Total Volumetric Revenue	Total Winter therms	Average Distribution Rate \$/therm
R-5	\$9,125,125	13,701,389	\$0.6660
R-10	\$284,245	426,794	\$0.6660
R-6	\$94,827	152,283	\$0.6227
Total Residential			
Service	\$9,504,197	14.280.466	\$0.6655
G-40	\$1,551,123	8,641,355	\$0.1795
G-50	\$167.102	930.931	\$0.1795
G-41	\$2,386,653	10,225,592	\$0.2334
G-51	\$400,159	2,606,615	\$0.1535
G-42	\$913,903	4,787,340	\$0.1909
G-52	\$1,387,846	8,385,776	\$0.1655
Service	\$6,806,787	35,577,609	\$0.1913

#### Based on Actual Billing Determinants for 2017 at Current Distribution Rates- Summe

Based on Actu	ai Billing Determinan	its for 2017 at Current	Distribution Rates- Summer
	(1)	(2)	(3)=(1)/(2)
	Total Volumetric		Average Distribution Rate
	Revenue	Total Summer therms	\$/therm
R-5	\$1,873,553	3,191,742	\$0.5870
R-10	\$55,796	95,052	\$0.5870
R-6	\$57,136	91,755	\$0.6227
Total			
Residential			
Service	\$1,986,484	3,378,549	\$0.5880
G-40	\$258,910	1,442,396	\$0.1795
G-50	\$147,374	821,027	\$0.1795
G-41	\$449,490	2,464,309	\$0.1824
G-51	\$234,058	1,945,854	\$0.1203
G-42	\$185,882	1,601,048	\$0.1161
G-52	\$540,681	7,095,551	\$0.0762
Total General			
Service	\$1,816,395	15,370,185	\$0.1182
Total	\$ 20,113,862	68,606,809	

## Northern Utilities, Inc. Gas Savings for LRR Calculation

		•
Plar	nned Gas Savings - 2019	Annual
1.	Residential Programs	Therms
2.	Home Energy Assistance	19,474
3.	EnergyStar® Homes	14,405
4.	Home Perf w/ EnergyStar®	16,552
5.	EnergyStar® Appliances	40,324
6.	Home Energy Reports	32,520
7.	Residential	123,275
8.		
9.	Commercial & Industrial Programs	
10.	Large Business Energy Solutions	161,503
11.	Small Business Energy Solutions	82,291
12.	Education (Gas)	
13.	Commercial & Industrial	243,794

REVISED (1)

F	1	ı	1														
LBR Savings Allocation		Estimate	Nov-18 to Oct-	Jan 19 to Dec-													
	Unit	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	19 Total	19 Total
14. Residential Programs		14.1%	15.4%	1.3%	2.6%	3.8%	5.1%	6.4%	7.7%	9.0%	10.3%	11.5%	12.8%	14.1%	15.4%	100.0%	100.0%
15. Annualized Therms (2)	Therms	16,984	18,550	1,603	3,205	4,684	6,287	7,890	9,492	11,095	12,697	14,177	15,779	17,382	18,984	122,443	123,275
16.																	
17. Monthly Incremental	Therms	1,415	1,546	134	267	390	524	657	791	925	1,058	1,181	1,315	1,448	1,582		
18. Monthly Cumulative	Therms	14,388	15,934	16,068	16,335	16,725	17,249	17,906	18,697	19,622	20,680	21,862	23,176	24,625	26,207	218,642	239,152
19.																	
20. Commercial & Industrial Program	าร	12%	25%	1.3%	2.6%	3.8%	5.1%	6.4%	7.7%	9.0%	10.3%	11.5%	12.8%	14.1%	15.4%		
21. Annualized Therms (3)	Therms	34,773	37,979	3,169	6,339	9,264	12,434	15,603	18,772	21,941	25,111	28,036	31,206	34,375	37,544	244,627	243,794
22.																	
23. Monthly Incremental	Therms	2,898	3,165	264	528	772	1,036	1,300	1,564	1,828	2,093	2,336	2,600	2,865	3,129		
24. Monthly Cumulative	Therms	39,518	42,683	42,947	43,475	44,247	45,283	46,583	48,148	49,976	52,069	54,405	57,006	59,870	62,999	566,339	607,007

#### Notes:

<sup>1)</sup> The Planned Savings - Therms were presented as MMBtu in the joint utilities' initial September 14, 2018 Core Energy Efficiency Filing.

<sup>2)</sup> The Residential Annualized Therm Savings were presented as MMBtu in the joint utilities' initial September 14, 2018 Core Energy Efficiency Filing. The resulting LBR was under-estimated by a magnitude of 10.

<sup>3)</sup> The Commercial & Industrial Annualized Therm Savings were incorrect in the joint utilities' initial September 14, 2018 Core Energy Efficiency Filing. The impact to savings was approximately 2,000 therms annually.

#### Northern Utilities, Inc. Lost Revenue Reconciliation 2018

Northern Utilities, Inc. New Hampshire Division

Page 5 of 6

Recast Recast Recast Recast Recast Recast Estimate Estimate Estimate Estimate Revised Schedule 16 - LRR Sector / Description Unit Aug-18 Line Jan-18 Feb-18 Mar-18 Apr-18 May-18 Jun-18 Jul-18 Sep-18 Oct-18 RESIDENTIAL 1 2 Beginning Balance - (Over)/Under \$'s \$ (1,945) \$ (9,971) \$ (15,078) \$ (18,309) \$ (20,467) \$ (18,979) \$ (15,464) \$ (11,002) \$ (5,884) \$ (86) 3 COSTS Therms 4,577 10,841 15,418 84,920 4 Incremental Annualized Savings 1,566 3,132 6,143 7,709 9,275 12,407 13,852 5 **Incremental Monthly Savings** Therms 131 261 381 512 642 773 903 1,034 1,154 1,285 7,077 6 131 392 773 1,285 1,927 2,700 3,604 4,638 5,792 7,077 28,317 7 Cumulative Savings - Current Therms 5,896 58,960 8 Cumulative Savings - Prior 5,896 5,896 5,896 5,896 5,896 5,896 5,896 5,896 5,896 Therms 9 6,027 7,823 8,596 9,500 10,534 11,688 12,973 **Cumulative LBR Savings** Therms 6,288 6,669 7,181 87,277 10 Average Distribution Rate 11 \$/Therm \$ 0.59030 0.59030 \$ 0.59030 \$ 0.59030 Ś 0.58797 0.58797 0.58797 0.58797 0.58797 0.58797 12 Lost Distribution Revenue (Actual thru June) \$'s \$ 3,557 \$ 3,712 \$ 3,937 \$ 4,239 \$ 4,600 \$ 5,054 \$ 5,585 \$ 6,193 \$ 6,872 \$ 7,628 51,377 13 14 REVENUE 15 Sector Sales Therms 4,123,832 3,131,798 2,560,049 2,284,269 1,103,933 546,360 385,426 375,540 383,364 477,483 15,372,054 \$0.0028 \$0.0028 \$0.0028 \$0.0028 \$0.0028 \$0.0028 \$0.0028 16 Lost Revenue Rate \$/Therm \$0.0028 \$0.0028 \$0.0028 17 Revenue Ś's \$ 11,548 \$ 8,769 \$ 7,167 \$ 6.395 Ś 3,090 \$ 1,525 \$ 1,079 \$ 1,052 \$ 1,073 \$ 1,337 43,035 18 (Over)/Under-Recovery (Exc interest) (85) \$ 19 (9,936) \$ (15,029) \$ (18,308) \$ (20,465) \$ (18,958) \$ (15,449) \$ (10,958) \$ (5,860) \$ 6,205 20 21 INTEREST (19,712) \$ 22 Average Monthly Balance (5,940) \$ (12,500) \$ (16,693) \$ (19,387) \$ (17,214) \$ (13,211) \$ (8,431) \$ (2,985) \$ 3,060 23 Interest Rate-WSJ Prime Rate Annual % 4.25% 4.25% 4.25% 4.50% 4.50% 4.50% 4.75% 4.75% 4.75% 5.00% Total 24 Days per Month 31 28 31 30 31 30 31 31 30 31 365 25 **Computed Interest** \$'s \$ (36) \$ (49) \$ (1) \$ (2) \$ (21) \$ (15) \$ (44) \$ (24) \$ (0) \$ 26 (166 26 27 (11,002) \$ (5,884) \$ 6,231 **Ending Balance** \$'s (9,971) \$ (15,078) \$ (18,309) \$ (20,467) \$ (18,979) \$ (15,464) \$ (86) \$ **COMMERCIAL & INDUSTRIAL** 28 29 Beginning Balance - (Over)/Under \$'s Ś (1,656) \$ (6,208) \$ (8,815) \$ (10,554) \$ (11,255) \$ (11,825) \$ (11,111) \$ (9,517) \$ (8,184) \$ (6,502)30 31 COSTS Incremental Annualized Savings Therms 3,206 9,371 18,990 22,196 25,402 32 6,412 12,578 15,784 28,361 31,567 173,867 **Incremental Monthly Savings** 267 534 781 1,048 1,583 1,850 2,117 2,363 2,631 14,489 33 1,315 Therms 34 35 Cumulative Savings - Current 267 802 1,582 2,631 3,946 5,528 7,378 9,495 11,858 14,489 57,976 Therms 36 Cumulative Savings - Prior Therms 22,131 22,131 22,131 22,131 22,131 22,131 22,131 22,131 22,131 22,131 221,310 37 26,077 27,659 29,509 31,626 33,989 **Cumulative LBR Savings** Therms 22,398 22,933 23,713 24,762 36,620 279,286 38 39 Average Distribution Rate \$/Therm 0.19530 0.19530 \$ 0.19530 0.19530 0.11818 0.11818 0.11818 0.11818 0.11818 \$ 0.11818 40 Lost Distribution Revenue \$'s \$ 4,374 \$ 4,479 \$ 4,631 \$ 4,836 3,082 3,269 \$ 3,487 \$ 3,737 \$ 4,017 \$ 4,328 40,240 Ś 41 42 REVENUE 8,903,349 5,547,153 4,641,583 2,514,296 1,855,055 2,371,702 2,309,983 2,853,901 44,401,371 43 Sector Sales Therms 7,066,648 6,337,701 44 Lost Revenue Rate \$/Therm \$0.0010 \$0.0010 \$0.0010 \$0.0010 \$0.0010 \$0.0010 \$0.0010 \$0.0010 \$0.0010 \$0.0010 45 Lost Distribution Revenue (Actual thru June) \$'s \$ 8,904 \$ 7,057 \$ 6,332 \$ 5,496 \$ 3,606 \$ 2,514 \$ 1,855 \$ 2,372 \$ 2,310 \$ 2,854 43,300 46 (5,029) 47 (Over)/Under-Recovery (Exc interest) \$'s (6,186) \$ (8,786) \$ (10,516) \$ (11,214) \$ (11,779) \$ (11,070) \$ (9,479) \$ (8,151) \$ (6,477) \$ \$ 48 49 INTEREST Average Monthly Balance 50 (3,921) \$ (7,497) \$ (9,665) \$ (10,884) \$ (11,517) \$ (11,447) \$ (10,295) \$ (8,834) \$ (7,331) \$ (5,766 Ś Interest Rate-WSJ Prime Rate 4.25% 4.25% 4.75% 4.75% 51 4.25% 4.50% 4.50% 4.50% 4.75% 5.00% Annual % Total 52 Days per Month 28 31 30 30 31 31 30 31 31 31 365 (22) \$ (29) \$ (38) \$ (45) \$ (38) \$ (25) \$ (21) 53 Computed Interest \$'s (41) \$ (41) \$ (33) \$ (334)Ś 54 55 **Ending Balance** \$'s (6,208) \$ (8,815) \$ (10,554) \$ (11,255) \$ (11,825) \$ (11,111) \$ (9,517) \$ (8,184) \$ (6,502) \$ (5,050

Note: Recast denotes change from accounting records. Savings recast to match original budget. Lost revenue is calculated based on original estimated savings. The final reconciliation using actual savings will be provided in the June 2019 filing. The Average Distribution rate for Residential and C&I Classes for the months of January thorugh April 2018 are from the 2017 Annual Report (LRR Page 4 of 22) in Docket No. DE 14-216 on June 1, 2018.

#### Calculation of Lost Revenues - Northern Utilities, Inc. Year 2019

Savings and lost revenues are estimated on a calendar year basis. Does not include prior cumulative savings.

REVISED (1)

	REVISED (1)	•												
	Annualized						"In	stalled" Savi						
	Therm Savings	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Residential														
Jan	1,603	134	134	134	134	134	134	134	134	134	134	134	134	1,603
Feb	3,205		267	267	267	267	267	267	267	267	267	267	267	2,938
Mar	4,684			390	390	390	390	390	390	390	390	390	390	3,904
Apr	6,287				524	524	524	524	524	524	524	524	524	4,715
May	7,890					657	657	657	657	657	657	657	657	5,260
Jun	9,492						791	791	791	791	791	791	791	5,537
Jul	11,095							925	925	925	925	925	925	5,547
Aug	12,697								1,058	1,058	1,058	1,058	1,058	5,291
Sep	14,177									1,181	1,181	1,181	1,181	4,726
Oct	15,779										1,315	1,315	1,315	3,945
Nov	17,382											1,448	1,448	2,897
Dec	18,984												1,582	1,582
Total	123,275	134	401	791	1,315	1,972	2,763	3,688	4,746	5,927	7,242	8,691	10,273	47,944
		134	534	1,325	2,640	4,613	7,376	11,064	15,810	21,738	28,980	37,671	47,944	
Proposed Dis	tribution Rate	\$ 0.6655	\$ 0.6655	\$ 0.6655	\$ 0.6655	\$ 0.5880	\$ 0.5880	\$ 0.5880	\$ 0.5880	0.5880	\$ 0.5880	\$ 0.6655	\$ 0.6655	1
Lost Revenue		\$ 89	\$ 356	\$ 882	\$ 1,757	\$ 2,712		\$ 6,505	\$ 9,296	\$ 12,781	\$ 17,039		\$ 31,908	\$ 112,734
				,	, , -	. ,	, ,	, -,	, -,	, , -	, ,	,-	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
C&I														
Jan	3,169	264	264	264	264	264	264	264	264	264	264	264	264	3,169
Feb	6,339		528	528	528	528	528	528	528	528	528	528	528	5,810
Mar	9,264			772	772	772	772	772	772	772	772	772	772	7,720
Apr	12,434				1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	1,036	9,325
May	15,603				2,000	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	10,402
Jun	18,772					2,500	1,564	1,564	1,564	1,564	1,564	1,564	1,564	10,950
Jul	21,941						2,50 .	1,828	1,828	1,828	1,828	1,828	1,828	10,971
Aug	25,111							1,020	2,093	2,093	2,093	2,093	2,093	10,463
Sep	28,036								2,033	2,336	2,336	2,336	2,336	9,345
Oct	31,206									2,330	2,600	2,600	2,600	7,801
Nov	34,375										2,000	2,865	2,865	5,729
Dec	37,544											2,803	3,129	3,129
Total	243,794	264	792	1,564	2,600	3,901	5,465	7,294	9,386	11,722	14,323	17,187	20,316	94,816
TOLAT	243,794													94,610
		264	1,056	2,621	5,221	9,122	14,587	21,881	31,267	42,989	57,312	74,499	94,816	
Dronged Die	stribution Dot-	¢ 0.1012	ć 0.1012	Ć 0 1012	ć 0.1012	Ć 0.1103	Ć 0.1103	ć 0.1103	ć 0.1103	ć 0 1103	Ć 0.1102	ć 0.1013	ć 0.1012	1
•	tribution Rate	\$ 0.1913	\$ 0.1913	\$ 0.1913	\$ 0.1913	\$ 0.1182		\$ 0.1182	\$ 0.1182		\$ 0.1182	•	\$ 0.1913	ć FF 002
Lost Revenue	:	\$ 51	\$ 202	\$ 501	\$ 999	\$ 1,078	\$ 1,724	\$ 2,586	\$ 3,695	\$ 5,080	\$ 6,773	\$ 14,253	\$ 18,140	\$ 55,083
<b>*</b>														<u> </u>
Total Lost Re	venue													\$ 167,816

#### Notes:

<sup>1)</sup> The Annualized Therm Savings were presented as MMBtu in the joint utilities' initial September 14, 2018 Core Energy Efficiency Filing.

#### Northern Utilities, Inc. New Hampshire Division Revised Schedule 8 Page 1 of 10

## **NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION**

Typical Residential Heating Bill - 754 therms/year Comparison of Winter 2018-2019 vs. Winter 2017-2018

									20.0							
1		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
2 Typical Usage: therms (*	)	56	95	135	138	111	83	618	45	28	16	14	15	18	136	754
3 Winter 2018 - 2019																
4 Customer Charge units @	\$ 21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$128.16								
5 First 50 units @	\$0.6660	\$33.30	\$33.30	\$33.30	\$33.30	\$33.30	\$33.30	\$120.10								
6 Over 50 units @	\$0.6660															
		\$4.00	\$29.97	\$56.61	\$58.61	\$40.63	\$21.98	\$211.79								
7 COG 1	\$0.8271	\$46.32						\$46.32								
8 COG 2	\$0.8271		\$78.57					\$78.57								
9 COG 3	\$0.8271			\$111.66				\$111.66								
10 COG 4	\$0.8271				\$114.14			\$114.14								
11 COG 5	\$0.8271					\$91.81		\$91.81								
12 COG 6	\$0.8271						\$68.65	\$68.65								
13 LDAC	\$0.0691	\$3.87	\$6.56	\$9.33	\$9.54	\$7.67	\$5.74	\$42.70								
14 Summer 2019							* -	,								
15 Customer Charge units @	\$ 21.36								\$ 21.36	\$21.36	\$21.36	\$21.36	21.36	\$21.36	\$128.16	
16 First 50 units @	\$0.5870								\$26.42	\$16.44	\$9.39	\$8.22	\$8.81	\$10.57	\$79.83	
17 Over 50 units @	\$0.5870								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
20 COG 1	\$0.3670								\$16.52						\$16.52	
21 COG 2	\$0.3670									\$10.28					\$10.28	
22 COG 3	\$0.3670										\$5.87				\$5.87	
23 COG 4	\$0.3670											\$5.14			\$5.14	
24 COG 5	\$0.3670												\$5.51		\$5.51	
25 COG 6	\$0.3670													\$6.61	\$6.61	
	\$0.3670													ψ0.01	ψ0.01	
26 Summer Period 2019 Weighted Avg. COG											4					
27 LDAC	\$ 0.0675								\$3.04	\$1.89	\$1.08	\$0.95	\$1.01	\$1.22	\$9.18	
28	TOTAL	\$108.84	\$169.77	\$232.26	\$236.94	\$194.76	\$151.02	\$1,093.60	\$67.33	\$49.96	\$37.70	\$35.66	\$36.68	\$39.75	\$267.08	\$1,360.68
Base Rate Change Winter 18-19 vs. Winter 17-	18 <b>Change</b>	\$1.76	\$6.94	\$12.25	\$12.65	\$9.06	\$5.34	\$47.99								
base Nate Change Willer 10-19 vs. Willer 17-	10 \$ Change	φ1.70	φ0.94	φ12.23	φ12.00	φ9.00	φυ.υ4	φ41.33								
	% Change	2%	5%	6%	6%	5%	4%	5%								
COG Change Winter 18-19 vs. Winter 17-18	\$ Change	\$6.54	\$11.10	\$15.77	-\$5.18	-\$4.16	-\$3.11	\$20.95								
COG Change Willer 16-19 vs. Willer 17-16					***		-									
	% Change	7%	7%	8%	-2%	-2%	-2%	2%								
LDAC Change Winter 40 40 Winter 47 40																
LDAC Change Winter 18-19 vs. Winter 17-18	\$ Change	\$0.73	\$1.24	\$1.77	\$1.81	\$1.45	\$1.09	\$8.10								
LDAC Change Winter 18-19 vs. Winter 17-18								\$8.10 1%								
LDAC Change Winter 18-19 vs. Winter 17-18	% Change	\$0.73 1%	\$1.24 1%	\$1.77 1%	\$1.81 1%	\$1.45 1%	\$1.09 1%									
		1%	1%	1%	1%	1%	1%	1%							_	
27		1% Nov	1% Dec	1% Jan	1%	1% Mar	1% <b>A</b> pr	1% Winter	May	June	July	August	Sept	October	Summer	Annual
27 28 Typical Usage: therms		1%	1%	1%	1%	1%	1%	1%	<b>May</b> 45	June 28	July 16	August 14	<b>Sept</b> 15	October 18	Summer 136	Annual 754
27 28 Typical Usage: therms		1% Nov	1% Dec	1% Jan	1%	1% Mar	1% <b>A</b> pr	1% Winter								
27 28 Typical Usage: therms 29 <b>Winter 2017 - 2018</b>	% Change	1% Nov 56	<b>Dec</b> 95	1% <b>Jan</b> 135	1% <b>Feb</b> 138	1% <b>Mar</b> 111	1% <b>Apr</b> 83	1% Winter 618								
27 28 Typical Usage: therms 29 Winter 2017 - 2018 30 Customer Charge units @	% Change \$ 21.36	Nov 56 \$21.36	Dec 95	Jan 135 \$21.36	1% Feb 138 \$21.36	1% <b>Mar</b> 111 \$21.36	1% <b>Apr</b> 83 \$21.36	1% Winter 618 \$128.16								
27 28	% Change \$ 21.36 \$0.6468	Nov 56 \$21.36 \$32.34	Dec 95 \$21.36 \$32.34	Jan 135 \$21.36 \$32.34	1%  Feb 138  \$21.36 \$32.34	1% Mar 111 \$21.36 \$32.34	Apr 83 \$21.36 \$32.34	1% Winter 618 \$128.16 \$194.04								
27 28	% Change \$ 21.36 \$0.6468 \$0.5332	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95	Jan 135 \$21.36	1% Feb 138 \$21.36	1% <b>Mar</b> 111 \$21.36	1% <b>Apr</b> 83 \$21.36	Winter 618 \$128.16 \$194.04 \$169.56								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103	Nov 56 \$21.36 \$32.34	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34	1%  Feb 138  \$21.36 \$32.34	1% Mar 111 \$21.36 \$32.34	Apr 83 \$21.36 \$32.34	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34	Jan 135 \$21.36 \$32.34 \$45.32	1%  Feb 138  \$21.36 \$32.34	1% Mar 111 \$21.36 \$32.34	Apr 83 \$21.36 \$32.34	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0,7103	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34	Feb 138 \$21.36 \$32.34 \$46.92	1% Mar 111 \$21.36 \$32.34	Apr 83 \$21.36 \$32.34	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34 \$45.32	1%  Feb 138  \$21.36 \$32.34	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34 \$45.32	Feb 138 \$21.36 \$32.34 \$46.92	1% Mar 111 \$21.36 \$32.34	1% Apr 83 \$21.36 \$32.34 \$17.60	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34 \$45.32	Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34 \$45.32	Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	1% Apr 83 \$21.36 \$32.34 \$17.60	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646	Nov 56 \$21.36 \$32.34 \$3.20	Dec 95 \$21.36 \$32.34 \$23.99	Jan 135 \$21.36 \$32.34 \$45.32	Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	1% Apr 83 \$21.36 \$32.34 \$17.60	Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76								
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.0560	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	45	28	16	14	15	18	136	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$0.0560 \$21.36	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	45 \$21.36	28 \$21.36	16 \$21.36	14 \$21.36	15 \$21.36	18 \$21.36	136 \$128.16	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42	28 \$21.36 \$16.44	16 \$21.36 \$9.39	\$21.36 \$8.22	\$21.36 \$8.81	\$21.36 \$10.57	136 \$128.16 \$79.83	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.05670 \$21.36 \$0.5870 \$0.5870	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	28 \$21.36	16 \$21.36	14 \$21.36	15 \$21.36	18 \$21.36	\$128.16 \$79.83 \$0.00	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$0.0560	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42	\$21.36 \$16.44 \$0.00	16 \$21.36 \$9.39	\$21.36 \$8.22	\$21.36 \$8.81	\$21.36 \$10.57	\$128.16 \$79.83 \$0.00 \$17.89	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$21.36 \$0.5870 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	28 \$21.36 \$16.44	\$21.36 \$9.39 \$0.00	\$21.36 \$8.22	\$21.36 \$8.81	\$21.36 \$10.57	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$0.0560	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	\$21.36 \$16.44 \$0.00	16 \$21.36 \$9.39	\$21.36 \$8.22	\$21.36 \$8.81	\$21.36 \$10.57	\$128.16 \$79.83 \$0.00 \$17.89	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$21.36 \$0.5870 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	\$21.36 \$16.44 \$0.00	\$21.36 \$9.39 \$0.00	\$21.36 \$8.22	\$21.36 \$8.81	\$21.36 \$10.57	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.865870 \$0.5870 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	\$21.36 \$16.44 \$0.00	\$21.36 \$9.39 \$0.00	\$21.36 \$8.22 \$0.00	\$21.36 \$8.81 \$0.00	\$21.36 \$10.57	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	\$21.36 \$16.44 \$0.00	\$21.36 \$9.39 \$0.00	\$21.36 \$8.22 \$0.00	\$21.36 \$8.81	\$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	\$21.36 \$16.44 \$0.00	\$21.36 \$9.39 \$0.00	\$21.36 \$8.22 \$0.00	\$21.36 \$8.81 \$0.00	\$21.36 \$10.57	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00 \$17.89	\$21.36 \$16.44 \$0.00 \$11.13	\$21.36 \$9.39 \$0.00 \$6.36	\$21.36 \$8.22 \$0.00	\$21.36 \$8.81 \$0.00	\$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1%  Feb 138 \$21.36 \$32.34 \$46.92	1%  Mar 111  \$21.36 \$32.34 \$32.53	Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.97 \$71.76	\$21.36 \$26.42 \$0.00	\$21.36 \$16.44 \$0.00	\$21.36 \$9.39 \$0.00	\$21.36 \$8.22 \$0.00	\$21.36 \$8.81 \$0.00	\$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96	
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	1%  Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	1%  Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1% Feb 138 \$21.36 \$32.34 \$46.92 \$1119.31	1%  Mar 111  \$21.36 \$32.34 \$32.53  \$95.97  \$6.22	1% Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.77 \$71.76	\$21.36 \$26.42 \$0.00 \$17.89	\$21.36 \$16.44 \$0.00 \$11.13	\$21.36 \$9.39 \$0.00 \$6.36	\$21.36 \$8.22 \$0.00 \$5.57	\$21.36 \$8.81 \$0.00 \$5.96 \$0.86	\$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16	754
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$32.20 \$39.78 \$3.14	1%  Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	1%  Jan 135 \$21.36 \$32.34 \$45.32 \$95.89  \$7.56	1% Feb 138 \$21.36 \$32.34 \$46.92 \$119.31 \$7.73	1%  Mar 111 \$21.36 \$32.34 \$32.53 \$95.97 \$6.22	1% Apr 83 \$21.36 \$32.34 \$17.60 \$71.76 \$4.65	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$57.89 \$119.31 \$95.97 \$71.76 \$34.61	\$21.36 \$26.42 \$0.00 \$17.89 \$2.59	\$21.36 \$16.44 \$0.00 \$11.13	\$21.36 \$9.39 \$0.00 \$6.36 \$0.92	\$21.36 \$8.22 \$0.00 \$5.57 \$0.81	\$21.36 \$8.81 \$0.00 \$5.96 \$0.86 \$36.99	\$21.36 \$10.57 \$0.00 \$7.16 \$1.04	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16 \$7.83	754 \$1,286.44
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$3.20 \$39.78	1%  Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	1%  Jan 135 \$21.36 \$32.34 \$45.32 \$95.89	1% Feb 138 \$21.36 \$32.34 \$46.92 \$1119.31	1%  Mar 111  \$21.36 \$32.34 \$32.53  \$95.97  \$6.22	1% Apr 83 \$21.36 \$32.34 \$17.60	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$67.48 \$95.89 \$119.31 \$95.77 \$71.76	\$21.36 \$26.42 \$0.00 \$17.89	\$21.36 \$16.44 \$0.00 \$11.13	\$21.36 \$9.39 \$0.00 \$6.36	\$21.36 \$8.22 \$0.00 \$5.57	\$21.36 \$8.81 \$0.00 \$5.96 \$0.86	\$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16	754
27 28	\$ 21.36 \$0.6468 \$0.5332 \$0.7103 \$0.7103 \$0.8646 \$0.8646 \$0.8646 \$0.7932 \$ 0.0560 \$ 21.36 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	Nov 56 \$21.36 \$32.34 \$32.20 \$39.78 \$3.14	1%  Dec 95 \$21.36 \$32.34 \$23.99 \$67.48	1%  Jan 135 \$21.36 \$32.34 \$45.32 \$95.89  \$7.56	1% Feb 138 \$21.36 \$32.34 \$46.92 \$119.31 \$7.73	1%  Mar 111 \$21.36 \$32.34 \$32.53 \$95.97 \$6.22	1% Apr 83 \$21.36 \$32.34 \$17.60 \$71.76 \$4.65	1% Winter 618 \$128.16 \$194.04 \$169.56 \$39.78 \$57.89 \$119.31 \$95.97 \$71.76 \$34.61	\$21.36 \$26.42 \$0.00 \$17.89 \$2.59	\$21.36 \$16.44 \$0.00 \$11.13	\$21.36 \$9.39 \$0.00 \$6.36 \$0.92	\$21.36 \$8.22 \$0.00 \$5.57 \$0.81	\$21.36 \$8.81 \$0.00 \$5.96 \$0.86 \$36.99	\$21.36 \$10.57 \$0.00 \$7.16 \$1.04	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16 \$7.83	754 \$1,286.44

<sup>\*-</sup>Note- Weighted by usage. Actual Weather Normalized.

Typical G-40 Commercial & Industrial Bill - 2,066 therms/year Comparison of Winter 2018-2019 vs. Winter 2017-2018

			-	mpariso	n or win	ter 2016-	2019 VS	winter 20	17-2016							
1		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
2 Typical Usage: therms (*)	)	145	265	390	407	327	237	1,771	112	58	30	26	31	38	295	2,066
3 Winter 2018 - 2019	•							·								•
4 Customer Charge units @	\$ 72.26	\$72.26	\$72.26	\$72.26	\$72.26	\$72.26	\$72.26	\$433.56								
5 First 75 units @	\$0.1795	\$13.46	\$13.46	\$13.46	\$13.46	\$13.46	\$13.46	\$80.78								
6 Over 75 units @	\$0.1795	\$12.57	\$34.11	\$56.54	\$59.59	\$45.23	\$29.08	\$237.12								
7 COG 1	\$0.8424	\$122.15						\$122.15								
8 COG 2	\$0.8424		\$223.24					\$223.24								
9 COG 3	\$0.8424			\$328.54				\$328.54								
10 COG 4	\$0.8424				\$342.86			\$342.86								
11 COG 5	\$0.8424					\$275.46		\$275.46								
12 COG 6	\$0.8424					•	\$199.65	\$199.65								
13 LDAC	\$0.0396	¢E 74	\$10.49	\$15.44	\$16.12	\$12.95	\$9.39	\$70.13								
	φυ.υ390	φ3.74	\$10.49	\$15.44	\$10.12	\$12.95	φ9.39	\$70.13								
14 Summer 2019																
15 Customer Charge units @	\$ 72.26								\$ 72.26	\$72.26	\$72.26	\$72.26	\$ 72.26	\$72.26	\$433.56	
16 First 75 units @	\$0.1795								\$13.46	\$10.41	\$5.39				\$29.26	
17 Over 75 units @	\$0.1795								\$6.64	\$0.00	\$0.00				\$6.64	
18 COG 1	\$0.3958								\$44.33	*****	*****				\$44.33	
19 COG 2	\$0.3958								Ψ11.00	\$22.96					\$22.96	
										φ22.90	644.07					
20 COG 3	\$0.3958										\$11.87	040.00			\$11.87	
21 COG 4	\$0.3958											\$10.29			\$10.29	
22 COG 5	\$0.3958												\$12.27		\$12.27	
23 COG 6	\$0.3958													\$15.04	\$15.04	
24 Summer Period 2019 Weighted Avg. COG	\$0.3958															
25 LDAC	\$ 0.0380								\$4.26	\$2.20	\$1.14	\$0.99	\$1.18	\$1.44	\$11.21	
26	TOTAL	\$226.18	\$353.56	\$486.25	\$504.29	\$419.37	\$323.84	\$2,313.48	\$140.95	\$107.83	\$90.66	\$83.54	\$85.71	\$88.74	\$597.43	\$2,910.91
Base Rate Change Winter 18-19 vs. Winter 17-	1: \$ Change	\$4.10	\$3.51	\$2.90	\$2.82	\$3.21	\$3.65	\$20.18								
	% Change	2%	1%	1%	1%	1%	1%	1%								
COG Change Winter 18-19 vs. Winter 17-18	\$ Change	\$17.23	\$31.48	\$46.33	-\$14.45	-\$11.61	-\$8.41	\$60.57								
	% Change	8%	10%	11%	-3%	-3%	-3%	3%								
LDAC Change Winter 19 10 vo. Winter 17 19	¢ Change	¢1 40	¢2.72	¢4.00	¢4.40	¢2.27	CO 44	640 24								
LDAC Change Winter 18-19 vs. Winter 17-18	\$ Change	\$1.49	\$2.73	\$4.02	\$4.19	\$3.37	\$2.44	\$18.24								
LDAC Change Winter 18-19 vs. Winter 17-18	\$ Change % Change	\$1.49 1%	\$2.73 1%	\$4.02 1%	\$4.19 1%	\$3.37 1%	\$2.44 1%	\$18.24 1%								
LDAC Change Winter 18-19 vs. Winter 17-18								-								
		1%	1%	1%	1%	1%	1%	1%	May	luno	lulv	August	Sont	Octobor	Summor	Annual
27		1% Nov	1% Dec	1% Jan	1% Feb	1% Mar	1% Apr	1% Winter	May	June	July	August	Sept	October	Summer	Annual
27 28 Typical Usage: therms		1%	1%	1%	1%	1%	1%	1%	<b>May</b> 112	June 58	July 30	August 26	<b>Sept</b> 31	October 38	Summer 295	<b>Annual</b> 2,066
27		1% Nov	1% Dec	1% Jan	1% Feb	1% Mar	1% Apr	1% Winter								
27 28 Typical Usage: therms		1% Nov	1% Dec	1% Jan	1% Feb	1% Mar	1% Apr	1% Winter								
27 28 Typical Usage: therms 29 Winter 2017 - 2018 30 Customer Charge units @	% Change \$ 67.45	Nov 145 \$67.45	1%  Dec 265  \$67.45	Jan 390 \$67.45	1% Feb 407 \$67.45	1% Mar 327 \$67.45	1% <b>Apr</b> 237 \$67.45	1% Winter 1,771 \$404.70								
27 28	% Change \$ 67.45 \$0.1844	Nov 145 \$67.45 \$13.83	Dec 265 \$67.45 \$13.83	Jan 390 \$67.45 \$13.83	Feb 407 \$67.45 \$13.83	1% Mar 327 \$67.45 \$13.83	Apr 237 \$67.45 \$13.83	Winter 1,771 \$404.70 \$82.98								
27 28	% Change \$ 67.45 \$0.1844 \$0.1844	Nov 145 \$67.45 \$13.83 \$12.91	1%  Dec 265  \$67.45	Jan 390 \$67.45	1% Feb 407 \$67.45	1% Mar 327 \$67.45	1% <b>Apr</b> 237 \$67.45	Winter 1,771 \$404.70 \$82.98 \$243.59								
27 28	% Change \$ 67.45 \$0.1844 \$0.1844 \$0.7236	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83	Feb 407 \$67.45 \$13.83	1% Mar 327 \$67.45 \$13.83	Apr 237 \$67.45 \$13.83	Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92								
27 28	\$ 67.45 \$0.1844 \$0.7236 \$0.7236	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83	Jan 390 \$67.45 \$13.83 \$58.09	Feb 407 \$67.45 \$13.83	1% Mar 327 \$67.45 \$13.83	Apr 237 \$67.45 \$13.83	1% Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75								
27 28	% Change \$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83	1% Feb 407 \$67.45 \$13.83 \$61.22	1% Mar 327 \$67.45 \$13.83	Apr 237 \$67.45 \$13.83	Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20								
27 28	\$ 67.45 \$0.1844 \$0.7236 \$0.7236	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83 \$58.09	Feb 407 \$67.45 \$13.83	1% Mar 327 \$67.45 \$13.83	Apr 237 \$67.45 \$13.83	1% Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75								
27 28	% Change \$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1% Mar 327 \$67.45 \$13.83	Apr 237 \$67.45 \$13.83	Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20								
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327  \$67.45 \$13.83 \$46.47	1% Apr 237 \$67.45 \$13.83 \$29.87	Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07								
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327  \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83	Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31								
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.88779	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06								
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779	Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	Dec 265 \$67.45 \$13.83 \$35.04	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327  \$67.45 \$13.83 \$46.47	1% Apr 237 \$67.45 \$13.83 \$29.87	Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07								
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$0.0293	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	112	58	30	26	31	38	295	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.88779	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06								
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$0.0293	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	112	58	30	26	31	38	295	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$0.0293	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	112	58 \$72.26	30 \$72.26	26 \$72.26	31 \$72.26 \$5.56	38 \$72.26	295 \$433.56	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$0.0293 \$72.26 \$0.1795	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41	\$72.26 \$5.39	\$72.26 \$4.67	31 \$72.26	\$72.26 \$6.82	295 \$433.56 \$46.31 \$6.64	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.1795 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39	\$72.26 \$4.67	31 \$72.26 \$5.56	\$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41	\$72.26 \$5.39 \$0.00	\$72.26 \$4.67	31 \$72.26 \$5.56	\$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$0.0293 \$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39	\$72.26 \$4.67 \$0.00	31 \$72.26 \$5.56	\$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76	
27 28	\$ 67.45 \$0.1844 \$0.1236 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39 \$0.00	\$72.26 \$4.67	\$72.26 \$5.56 \$0.00	\$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$0.0293 \$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	31 \$72.26 \$5.56	\$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	\$72.26 \$5.56 \$0.00	\$72.26 \$6.82 \$0.00	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.1884 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	\$72.26 \$5.56 \$0.00	\$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64 \$47.64	\$72.26 \$10.41 \$0.00 \$24.67	\$72.26 \$5.39 \$0.00 \$12.76	\$72.26 \$4.67 \$0.00	\$72.26 \$5.56 \$0.00	\$72.26 \$6.82 \$0.00	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$11.06 \$13.19 \$16.17	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.1884 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64	\$72.26 \$10.41 \$0.00	\$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	\$72.26 \$5.56 \$0.00	\$72.26 \$6.82 \$0.00	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1%  Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75 \$7.76	1%  Jan 390 \$67.45 \$13.83 \$58.09 \$282.20 \$11.43	1% Feb 407 \$67.45 \$13.83 \$61.22 \$357.31 \$11.93	1%  Mar 327 \$67.45 \$13.83 \$46.47  \$287.07 \$9.58	1% Apr 237 \$67.45 \$13.83 \$29.87 \$208.06 \$6.94	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06 \$51.89	\$72.26 \$13.46 \$6.64 \$47.64	\$72.26 \$10.41 \$0.00 \$24.67	\$72.26 \$5.39 \$0.00 \$12.76	\$72.26 \$4.67 \$0.00 \$11.06	\$72.26 \$5.56 \$0.00 \$13.19 \$0.96	\$72.26 \$6.82 \$0.00 \$16.17 \$1.17	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$11.76 \$11.06 \$13.19 \$16.17	2,066
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1% Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75 \$7.76	Jan 390 \$67.45 \$13.83 \$58.09	1% Feb 407 \$67.45 \$13.83 \$61.22	1%  Mar 327 \$67.45 \$13.83 \$46.47	Apr 237 \$67.45 \$13.83 \$29.87	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06	\$72.26 \$13.46 \$6.64 \$47.64	\$72.26 \$10.41 \$0.00 \$24.67	\$72.26 \$5.39 \$0.00 \$12.76	\$72.26 \$4.67 \$0.00	\$72.26 \$5.56 \$0.00	\$72.26 \$6.82 \$0.00	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$11.06 \$13.19 \$16.17	
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1%  Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75 \$7.76	1%  Jan 390 \$67.45 \$13.83 \$58.09 \$282.20 \$11.43	1% Feb 407 \$67.45 \$13.83 \$61.22 \$357.31 \$11.93	1%  Mar 327 \$67.45 \$13.83 \$46.47  \$287.07 \$9.58	1% Apr 237 \$67.45 \$13.83 \$29.87 \$208.06 \$6.94	1%  Winter 1,771  \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06 \$51.89	\$72.26 \$13.46 \$6.64 \$47.64	\$72.26 \$10.41 \$0.00 \$24.67	\$72.26 \$5.39 \$0.00 \$12.76	\$72.26 \$4.67 \$0.00 \$11.06	\$72.26 \$5.56 \$0.00 \$13.19 \$0.96	\$72.26 \$6.82 \$0.00 \$16.17 \$1.17	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$11.76 \$11.06 \$13.19 \$16.17	2,066
27 28	\$ 67.45 \$0.1844 \$0.1844 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8082 \$ 0.0293 \$ 72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	1%  Nov 145 \$67.45 \$13.83 \$12.91 \$104.92	1%  Dec 265 \$67.45 \$13.83 \$35.04 \$191.75  \$7.76	1%  Jan 390 \$67.45 \$13.83 \$58.09  \$282.20  \$11.43	1% Feb 407 \$67.45 \$13.83 \$61.22 \$357.31 \$11.93	1%  Mar 327 \$67.45 \$13.83 \$46.47  \$287.07 \$9.58	1% Apr 237 \$67.45 \$13.83 \$29.87 \$208.06 \$6.94	1%  Winter 1,771 \$404.70 \$82.98 \$243.59 \$104.92 \$191.75 \$282.20 \$357.31 \$287.07 \$208.06 \$51.89	\$72.26 \$13.46 \$6.64 \$47.64 \$3.46 \$143.47	\$72.26 \$10.41 \$0.00 \$24.67 \$1.79 \$109.14	\$72.26 \$5.39 \$0.00 \$12.76 \$0.93	\$72.26 \$4.67 \$0.00 \$11.06 \$0.80	\$72.26 \$5.56 \$0.00 \$13.19 \$0.96	\$72.26 \$6.82 \$0.00 \$16.17 \$1.17	\$433.56 \$46.31 \$6.64 \$47.64 \$12.76 \$11.06 \$13.19 \$16.17 \$9.12	2,066

<sup>\*-</sup>Note- Weighted by usage. Actual Weather Normalized.

Typical G-41 Commercial & Industrial Bill - 20,667 therms/year

					Comp	arison of	Winter 20	18-2019 v	s. Winter 2	2017-2018							
1			Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
2	Typical Usage:		1,665	2,567	3,605	3,735	3,064	2,162	16,798	1,219	755	443	412	451	589	3,869	20,667
3	Winter 2018 - 201	9															
4 Customer C		\$ 214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$1,285.56								
5 All	units @	\$0.2334	\$388.61	\$599.14	\$841.41	\$871.75	\$715.14	\$504.61	\$3,920.65								
6	COG 1	\$0.8424	\$1,402.60	<b>60 400 44</b>					\$1,402.60								
7 8	COG 2 COG 3	\$0.8424		\$2,162.44	\$3,036.85				\$2,162.44								
9	COG 4	\$0.8424 \$0.8424			\$3,036.85	\$3,146.36			\$3,036.85 \$3,146.36								
10	COG 4 COG 5	\$0.8424 \$0.8424				φ3,140.30	\$2,581.11		\$2,581.11								
11	COG 6	\$0.8424					Ψ2,501.11	\$1,821.27	\$1,821.27								
12	LDAC	\$0.0396	\$65.93	\$101.65	\$142.76	\$147.91	\$121.33	\$85.62	\$665.20								
13	Summer 2019							*	*****								
14 Customer C		\$ 214.26								\$ 214.26	\$214.26	\$214.26	\$214.26	\$ 214.26	\$214.26	\$1,285.56	
15 All	units @	\$0.1824								\$222.35	\$137.71	\$80.80	\$75.15	\$82.26	\$107.43	\$705.71	
16	COG 1	\$0.3958								\$482.48						\$482.48	
17	COG 2	\$0.3958									\$298.83					\$298.83	
18	COG 3	\$0.3958										\$175.34				\$175.34	
19	COG 4	\$0.3958											\$163.07	0.70.51		\$163.07	
20	COG 5	\$0.3958												\$178.51		\$178.51	
21	COG 6	\$0.3958													\$233.13	\$233.13	
	eriod 2019 Weighted Avg. C																
23	LDAC	\$ 0.0380								\$46.32	\$28.69	\$16.83	\$15.66	\$17.14	\$22.38	\$147.02	
24		TOTAL	\$2,071.40	\$3,077.49	\$4,235.28	\$4,380.28	\$3,631.85	\$2,625.75	\$20,022.05	\$965.41	\$679.49	\$487.24	\$468.13	\$492.17	\$577.20	\$3,669.64	\$23,691.69
Base Rate	Change Winter 18-19 vs. \	Ninte \$ Change	\$18.70	\$19.33	\$20.05	\$20.14	\$19.67	\$19.04	\$116.94								
	g	% Change	1%	1%	1%	0%	1%	1%	1%								
COG Chan	nge Winter 18-19 vs. Winte		\$197.80	\$304.96	\$428.27	-\$132.59	-\$108.77	-\$76.75	\$612.92								
ooc onan	ige viliter to to vo. vilite	% Change	11%	11%	11%	-3%	-3%	-3%	3%								
I DAC Char	nge Winter 18-19 vs. Winter		\$17.15	\$26.44	\$37.13	\$38.47	\$31.56	\$22.27	\$173.02								
EB/10 Onai	g	-															
25/10 01141		% Change	1%	1%	1%	1%	1%	1%	\$173.02 <b>1%</b>								
		-	1%	1%	1%	1%	1%	1%	1%	Mari	luna	lulu	August	Comt	Ostobor	S	Ammuni
25		% Change	1% Nov	1% Dec	1% Jan	1% Feb	1% Mar	1% Apr	1% Winter	May	June	July	August	Sept	October	Summer	Annual
25 26	Typical Usage:	% Change	1%	1%	1%	1%	1%	1%	1%	<b>May</b> 1,219	<b>June</b> 755	<b>July</b> 443	August 412	<b>Sept</b> 451	October 589	<b>Summer</b> 3,869	<b>Annual</b> 20,667
25 26 27	Typical Usage: Winter 2017 - 201	% Change therms	Nov 1,665	1% Dec 2,567	Jan 3,605	1% Feb 3,735	1% Mar 3,064	1% <b>Apr</b> 2,162	<b>Winter</b> 16,798								
25 26 27 28 Customer C	Typical Usage: Winter 2017 - 201 Charge units @	% Change therms 8 \$ 196.73	Nov 1,665 \$196.73	Dec 2,567 \$196.73	Jan 3,605 \$196.73	Feb 3,735 \$196.73	1% Mar 3,064 \$196.73	1% <b>Apr</b> 2,162 \$196.73	1% Winter 16,798 \$1,180.38								
25 26 27 28 Customer C 29 All	Typical Usage: Winter 2017 - 201 Charge units @ units @	% Change therms  \$ 196.73 \$ 0.2327	Nov 1,665 \$196.73 \$387.45	1% Dec 2,567	Jan 3,605	1% Feb 3,735	1% Mar 3,064	1% <b>Apr</b> 2,162	Winter 16,798 \$1,180.38 \$3,908.89								
25 26 27 28 Customer C 29 All 30	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1	% Change therms 8 \$ 196.73 \$0.2327 \$0.7236	Nov 1,665 \$196.73	Dec 2,567 \$196.73 \$597.34	Jan 3,605 \$196.73	Feb 3,735 \$196.73	1% Mar 3,064 \$196.73	1% <b>Apr</b> 2,162 \$196.73	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79								
25 26 27 28 Customer C 29 All 30 31	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2	% Change therms  \$ 196.73	Nov 1,665 \$196.73 \$387.45	Dec 2,567 \$196.73	Jan 3,605 \$196.73 \$838.88	Feb 3,735 \$196.73	1% Mar 3,064 \$196.73	1% <b>Apr</b> 2,162 \$196.73	1% Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48								
25 26 27 28 Customer C 29 All 30	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1	% Change therms  \$ 196.73 \$ 0.2327 \$ 0.7236 \$ 0.7236 \$ 0.7236	Nov 1,665 \$196.73 \$387.45	Dec 2,567 \$196.73 \$597.34	Jan 3,605 \$196.73	Feb 3,735 \$196.73	1% Mar 3,064 \$196.73	1% <b>Apr</b> 2,162 \$196.73	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79								
25 26 27 28 Customer C 29 All 30 31 32	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3	% Change therms  \$ 196.73	Nov 1,665 \$196.73 \$387.45	Dec 2,567 \$196.73 \$597.34	Jan 3,605 \$196.73 \$838.88	1% Feb 3,735 \$196.73 \$869.13	1% Mar 3,064 \$196.73	1% <b>Apr</b> 2,162 \$196.73	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58								
25 26 27 28 Customer C 29 All 30 31 32 33 34 35	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6	% Change therms  \$ 196.73 \$0.2327 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779	Nov 1,665 \$196.73 \$387.45	Dec 2,567 \$196.73 \$597.34	Jan 3,605 \$196.73 \$838.88	1% Feb 3,735 \$196.73 \$869.13	1% Mar 3,064 \$196.73 \$712.99	1% <b>Apr</b> 2,162 \$196.73	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96								
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Peric	Typical Usage: Winter 2017 - 201 Charge units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 dod 17-18 Weighted Avg. C	% Change therms  \$ 196.73 \$0.2327 \$0.7236 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 OG \$0.8059	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02								
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 COG 6 LDAC	% Change therms  \$ 196.73 \$0.2327 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779	Nov 1,665 \$196.73 \$387.45	Dec 2,567 \$196.73 \$597.34	Jan 3,605 \$196.73 \$838.88	1% Feb 3,735 \$196.73 \$869.13	1% Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$2,608.58 \$3,278.96 \$2,689.89								
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 38	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 iod 17-18 Weighted Avg. C LDAC Summer 2018	% Change therms  \$ 196.73 \$ 0.2327 \$ 0.7236 \$ 0.7236 \$ 0.8779 \$ 0.8779 \$ 0.8779 \$ 0.879 \$ 0.923 \$ 0.0293	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219	755	443	412	451	589	3,869	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 cod 17-18 Weighted Avg. C LDAC Summer 2018 Charge units @	% Change  therms  \$ 196.73 \$0.2327 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8879 \$0.8059 \$0.0293	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26	755 \$214.26	443 \$214.26	412 \$214.26	451 \$214.26	589 \$214.26	3,869 \$1,285.56	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Peric 37 38 39 Customer C 40 All	Typical Usage: Winter 2017 - 201 Charge units @	**Change**  **I 196.73	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755	443	412	451	589	3,869 \$1,285.56 \$705.71	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 iod 17-18 Weighted Avg. C LDAC Summer 2018 Charge units @ units @ COG 1	**Change**  therms  **196.73	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26	755 \$214.26 \$137.71	443 \$214.26	412 \$214.26	451 \$214.26	589 \$214.26	3,869 \$1,285.56 \$705.71 \$518.56	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Od 17-18 Weighted Avg. C Summer 2018 Charge units @ units @ units @ COG 1 COG 2	**Change**  **I 196.73 **\$0.2327 **\$0.7236 **\$0.7236 **\$0.7236 **\$0.8779 **\$0.8779 **\$0.8779 **OG** **\$0.8059 **\$0.0293  **\$214.26 **\$0.1824 *\$0.4254 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755 \$214.26	\$214.26 \$80.80	412 \$214.26	451 \$214.26	589 \$214.26	3,869 \$1,285.56 \$705.71 \$518.56 \$321.18	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43	Typical Usage: Winter 2017 - 201 Charge units @ units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  od 17-18 Weighted Avg. C LDAC Summer 2018 Charge units @ COG 1 COG 2 COG 3 COG 3 COG 4 COG 5 COG 6 COG 5 COG 6 COG 5 COG 6 COG 5 COG 6 COG 7 COG	therms  \$ 196.73 \$0.2327 \$0.7236 \$0.7236 \$0.7236 \$0.8779 \$0.8779 \$0.8779 \$0.8779 \$0.879 \$0.8059 \$ 214.26 \$0.1824 \$0.4254 \$0.4254 \$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755 \$214.26 \$137.71	443 \$214.26	\$214.26 \$75.15	451 \$214.26	589 \$214.26	3,869 \$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Peric 37 38 39 Customer C 40 All 41 42 43	Typical Usage: Winter 2017 - 201 Charge units @	**No Change**  **No C	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755 \$214.26 \$137.71	\$214.26 \$80.80	412 \$214.26	\$214.26 \$82.26	589 \$214.26	3,869 \$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45 \$188.45 \$1875.26	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43 44	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 iod 17-18 Weighted Avg. C LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6	**Change**  **I 196.73 **50.2327 **\$0.7236 **\$0.7236 **\$0.7236 **\$0.8779 **\$0.8779 **\$0.8779 **\$0.879 **\$0.8059 **\$0.0293  **\$214.26 **\$0.1824 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755 \$214.26 \$137.71	\$214.26 \$80.80	\$214.26 \$75.15	451 \$214.26	\$214.26 \$107.43	3,869 \$1,285.56 \$705.71 \$518.56 \$321.18 \$188.55 \$175.26 \$191.86	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43 44 45	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  iod 17-18 Weighted Avg. C LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  COG 6  COG 6  COG 6  COG 6	**Change**  **I 196.73 **\$0.2327 **\$0.7236 *\$0.7236 *\$0.7236 *\$0.8779 *\$0.8779 *\$0.8779 *\$0.879 *\$0.8059 *\$0.0293  **\$214.26 *\$0.1824 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755 \$214.26 \$137.71	\$214.26 \$80.80	\$214.26 \$75.15	\$214.26 \$82.26	589 \$214.26	3,869 \$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45 \$188.45 \$1875.26	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43 44 45 46 47 Summer Pe	Typical Usage: Winter 2017 - 201 Charge units @ units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Od 17-18 Weighted Avg. C  LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 eriod 2018 Wighted Avg. C	**Change**  **I 196.73 **\$0.2327 **\$0.7236 **\$0.7236 **\$0.7236 **\$0.8779 **\$0.8879 **\$0.8879 **\$0.8059 **\$0.0293  **\$214.26 **\$0.1824 **\$0.4254 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	\$214.26 \$222.35 \$518.56	\$214.26 \$137.71 \$321.18	\$214.26 \$80.80 \$188.45	\$214.26 \$75.15	\$214.26 \$82.26 \$191.86	\$214.26 \$107.43	\$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45 \$175.26 \$191.86 \$250.56	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43 44 45	Typical Usage: Winter 2017 - 201 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  iod 17-18 Weighted Avg. C LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  COG 6  COG 6  COG 6  COG 6	**Change**  **I 196.73 **\$0.2327 **\$0.7236 *\$0.7236 *\$0.7236 *\$0.8779 *\$0.8779 *\$0.8779 *\$0.879 *\$0.8059 *\$0.0293  **\$214.26 *\$0.1824 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	Apr 2,162 \$196.73 \$503.10 \$1,898.02	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	1,219 \$214.26 \$222.35	755 \$214.26 \$137.71	\$214.26 \$80.80	\$214.26 \$75.15	\$214.26 \$82.26	\$214.26 \$107.43	3,869 \$1,285.56 \$705.71 \$518.56 \$321.18 \$188.55 \$175.26 \$191.86	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43 44 45 46 47 Summer Pe	Typical Usage: Winter 2017 - 201 Charge units @ units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Od 17-18 Weighted Avg. C  LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 eriod 2018 Wighted Avg. C	**Change**  **I 196.73 **\$0.2327 **\$0.7236 **\$0.7236 **\$0.7236 **\$0.8779 **\$0.8879 **\$0.8879 **\$0.8059 **\$0.0293  **\$214.26 **\$0.1824 **\$0.4254 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58	1%  Feb 3,735 \$196.73 \$869.13	1%  Mar 3,064 \$196.73 \$712.99	1% Apr 2,162 \$196.73 \$503.10 \$1,898.02 \$63.35	Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02	\$214.26 \$222.35 \$518.56	\$214.26 \$137.71 \$321.18	\$214.26 \$80.80 \$188.45	\$214.26 \$75.15	\$214.26 \$82.26 \$191.86	\$214.26 \$107.43	\$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45 \$175.26 \$191.86 \$250.56	
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 38 39 Customer C 40 All 41 42 43 44 45 46 47 Summer Perio 48	Typical Usage: Winter 2017 - 201 Charge units @ units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Od 17-18 Weighted Avg. C  LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 eriod 2018 Wighted Avg. C	**Change**  **I 196.73 **\$0.2327 **\$0.7236 **\$0.7236 **\$0.8779 **\$0.8779 **\$0.8779 **\$0.8779 **\$0.8059 **\$0.0293  **\$214.26 **\$0.1824 **\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79 \$48.78	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48  \$75.21	1%  Jan 3,605 \$196.73 \$838.88 \$2,608.58 \$105.63	1% Feb 3,735 \$196.73 \$869.13 \$3,278.96 \$109.44	1%  Mar 3,064 \$196.73 \$712.99  \$2,689.89 \$89.78	1% Apr 2,162 \$196.73 \$503.10  \$1,898.02 \$63.35	1% Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02 \$492.18	\$214.26 \$222.35 \$518.56 \$37.67 \$992.84	\$214.26 \$137.71 \$321.18 \$23.33 \$696.48	\$214.26 \$80.80 \$188.45 \$13.69 \$497.20	\$214.26 \$75.15 \$175.26 \$12.73	\$214.26 \$82.26 \$191.86 \$13.94 \$502.31	\$214.26 \$107.43 \$250.56 \$18.20 \$590.45	\$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45 \$175.26 \$191.86 \$250.56 \$119.55	20,667
25 26 27 28 Customer C 29 All 30 31 32 33 34 35 36 Winter Perio 37 38 39 Customer C 40 All 41 42 43 44 45 46 47 Summer Perio	Typical Usage: Winter 2017 - 201 Charge units @ units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Od 17-18 Weighted Avg. C  LDAC Summer 2018 Charge units @ units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 eriod 2018 Wighted Avg. C	**Change**  **I 196.73 **\$0.2327 **\$0.7236 *\$0.7236 *\$0.7236 *\$0.8779 *\$0.8779 *\$0.8779 *\$0.8789 *\$0.0293  **\$214.26 *\$0.1824 *\$0.4254	Nov 1,665 \$196.73 \$387.45 \$1,204.79	1%  Dec 2,567 \$196.73 \$597.34 \$1,857.48	Jan 3,605 \$196.73 \$838.88 \$2,608.58 \$105.63	1% Feb 3,735 \$196.73 \$869.13 \$3,278.96	1%  Mar 3,064 \$196.73 \$712.99  \$2,689.89 \$89.78	1% Apr 2,162 \$196.73 \$503.10 \$1,898.02 \$63.35	1% Winter 16,798 \$1,180.38 \$3,908.89 \$1,204.79 \$1,857.48 \$2,608.58 \$3,278.96 \$2,689.89 \$1,898.02 \$492.18	\$214.26 \$222.35 \$518.56	\$214.26 \$137.71 \$321.18	\$214.26 \$80.80 \$188.45	\$214.26 \$75.15 \$175.26	\$214.26 \$82.26 \$191.86 \$13.94	\$214.26 \$107.43 \$250.56 \$18.20	\$1,285.56 \$705.71 \$518.56 \$321.18 \$188.45 \$175.26 \$191.86 \$250.56	20,667

<sup>\*-</sup>Note- Weighted by usage. Actual Weather Normalized.

Typical G-51 Commercial & Industrial Bill - 17,593 therms/year Comparison of Winter 2018-2019 vs. Winter 2017-2018

				Compania		1101 2010-	2013 VS. V	Vinter 201	7-2010							
1		Nov	Dec	Jan	Feb	Mar	Apr	Winter	May	June	July	August	Sept	October	Summer	Annual
2 Typical Usage: therms	(*)	1,369	1,582	1,899	1,882	1,798	1,517	10,047	1,393	1,305	1,186	1,207	1,171	1,284	7,546	17,593
3 Winter 2018 - 2019	( )	.,	.,	.,	.,	.,	.,	,	.,	.,	.,	-,	.,	.,	.,	,
4 Customer Charge units @	C 044.00	<b>CO440C</b>	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$1,285.56								
	\$ 214.26	\$214.26														
5 First 1,300 units @	\$0.1648	\$214.24	\$214.24	\$214.24	\$214.24	\$214.24	\$214.24	\$1,285.44								
6 Over 1,300 units @	\$0.1346	\$9.29	\$37.96	\$80.63	\$78.34	\$67.03	\$29.21	\$302.45								
7 COG 1	\$0.7254	\$993.07						\$993.07								
8 COG 2	\$0.7254		\$1,147.58					\$1,147.58								
9 COG 3	\$0.7254			\$1,377.53				\$1,377.53								
10 COG 4	\$0.7254				\$1,365.20			\$1,365.20								
11 COG 5	\$0.7254					\$1,304.27		\$1,304.27								
12 COG 6	\$0.7254					ψ1,004.27	\$1,100.43	\$1,100.43								
13 LDAC	\$0.0396	\$54.21	\$62.65	\$75.20	¢74 F2	¢74.20	\$60.07	\$397.86								
	\$0.0396	Φ34.∠1	Φ02.03	\$75.20	\$74.53	\$71.20	φου.υ7	φ391.00								
14 Summer 2019																
15 Customer Charge units @	\$ 214.26								\$ 214.26	\$214.26	\$214.26	\$214.26	\$ 214.26	\$214.26	\$1,285.56	
16 First 1,000 units @	\$0.1287								\$128.70	\$128.70	\$128.70				\$386.10	
17 Over 1,000 units @	\$0.1046								\$41.11	\$31.90	\$19.46				\$92.47	
18 COG 1	\$0.3269								\$455.37	*******	*				\$455.37	
19 COG 2	\$0.3269								ψ-100.01	\$426.60					\$426.60	
20 COG 2	\$0.3269									\$420.00	\$387.70				\$387.70	
21 COG 4											φ301.10	\$394.57				
	\$0.3269											\$394.57	<b>#</b> 000 00		\$394.57	
22 COG 5	\$0.3269												\$382.80		\$382.80	
23 COG 6	\$0.3269													\$419.74	\$419.74	
24 Summer Period 2019 Weighted Avg. COG	\$0.3269															
25 LDAC	\$ 0.0380								\$52.93	\$49.59	\$45.07	\$45.87	\$44.50	\$48.79	\$286.75	
													•			
26	TOTAL	\$1,485.07	\$1,676.69	\$1,961.86	\$1,946.57	\$1,871.00	\$1,618.21	\$10,559.40	\$892.37	\$851.06	\$795.19	\$654.69	\$641.56	\$682.79	\$4,517.66	\$15,077.06
Base Rate Change Winter 18-19 vs. Winter 17-	15 Change	\$3.57	\$0.99	-\$2.85	-\$2.64	-\$1.63	\$1.77	-\$0.79								
Dase Nate Change Willer 10-19 vs. Willer 17-	-							-								
	% Change	0%	0%	0%	0%	0%	0%	0%								
COG Change Winter 18-19 vs. Winter 17-18	\$ Change	\$141.01	\$162.95	\$195.60	-\$96.55	-\$92.24	-\$77.82	\$232.94								
	% Change	11%	11%	11%	-5%	-5%	-5%	2%								
LDAC Change Winter 18-19 vs. Winter 17-18		\$14.10					0,0									
LDAC Change Winter 10-13 vs. Winter 17-10	\$ Change		\$16.29	\$19.56	\$19.38	\$18.52	\$15.63	\$103.48								
EDAC Change Willer 10-19 vs. Willer 17-10	% Change	1%	\$16.29 1%	\$19.56 1%	\$19.38 1%	\$18.52 1%	\$15.63 1%	\$103.48 1%								
EDAG Griange Winter 10-13 vs. Winter 17-10	-															
27	-								May	June	July	August	Sept	October	Summer	Annual
27	-	1% Nov	1% Dec	1% Jan	1%	1% Mar	1% Apr	1% Winter	<b>May</b> 1,393		<b>July</b> 1,186					<b>Annual</b> 17.593
27 28 Typical Usage: therms	-	1%	1%	1%	1% Feb	1%	1%	1%	<b>May</b> 1,393	<b>June</b> 1,305		August 1,207	<b>Sept</b> 1,171	October 1,284	Summer 7,546	
27 28 Typical Usage: therms 29 <b>Winter 2017 - 2018</b>	% Change	Nov 1,369	1% Dec 1,582	1% Jan 1,899	1% Feb 1,882	1% <b>Mar</b> 1,798	1% <b>Apr</b> 1,517	1% Winter 10,047								
27 28 Typical Usage: therms 29 <b>Winter 2017 - 2018</b> 30 Customer Charge units @	% Change \$ 196.73	Nov 1,369 \$196.73	Dec 1,582 \$196.73	Jan 1,899 \$196.73	Feb 1,882 \$196.73	1% Mar 1,798 \$196.73	1% <b>Apr</b> 1,517 \$196.73	1% Winter 10,047 \$1,180.38								
27 28 Typical Usage: therms 29 <b>Winter 2017 - 2018</b> 30 Customer Charge units @ 31 First 1,300 units @	% Change \$ 196.73 \$0.1749	Nov 1,369 \$196.73 \$227.37	Dec 1,582 \$196.73 \$227.37	Jan 1,899 \$196.73 \$227.37	Feb 1,882 \$196.73 \$227.37	1% Mar 1,798 \$196.73 \$227.37	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22								
27 28	% Change \$ 196.73 \$0.1749 \$0.1467	Nov 1,369 \$196.73 \$227.37 \$10.12	Dec 1,582 \$196.73	Jan 1,899 \$196.73	Feb 1,882 \$196.73	1% Mar 1,798 \$196.73	1% <b>Apr</b> 1,517 \$196.73	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63								
27 28 Typical Usage: therms 29 <b>Winter 2017 - 2018</b> 30 Customer Charge units @ 31 First 1,300 units @	% Change \$ 196.73 \$0.1749	Nov 1,369 \$196.73 \$227.37	Dec 1,582 \$196.73 \$227.37	Jan 1,899 \$196.73 \$227.37	Feb 1,882 \$196.73 \$227.37	1% Mar 1,798 \$196.73 \$227.37	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22								
27 28	% Change \$ 196.73 \$0.1749 \$0.1467	Nov 1,369 \$196.73 \$227.37 \$10.12	Dec 1,582 \$196.73 \$227.37	Jan 1,899 \$196.73 \$227.37	Feb 1,882 \$196.73 \$227.37	1% Mar 1,798 \$196.73 \$227.37	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63								
27 28	% Change \$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224	Nov 1,369 \$196.73 \$227.37 \$10.12	1%  Dec 1,582  \$196.73 \$227.37 \$41.37	Jan 1,899 \$196.73 \$227.37 \$87.87	Feb 1,882 \$196.73 \$227.37	1% Mar 1,798 \$196.73 \$227.37	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224	Nov 1,369 \$196.73 \$227.37 \$10.12	1%  Dec 1,582  \$196.73 \$227.37 \$41.37	Jan 1,899 \$196.73 \$227.37	1% Feb 1,882 \$196.73 \$227.37 \$85.38	1% Mar 1,798 \$196.73 \$227.37	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.6224 \$0.7767	Nov 1,369 \$196.73 \$227.37 \$10.12	1%  Dec 1,582  \$196.73 \$227.37 \$41.37	Jan 1,899 \$196.73 \$227.37 \$87.87	Feb 1,882 \$196.73 \$227.37	1% Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767	Nov 1,369 \$196.73 \$227.37 \$10.12	1%  Dec 1,582  \$196.73 \$227.37 \$41.37	Jan 1,899 \$196.73 \$227.37 \$87.87	1% Feb 1,882 \$196.73 \$227.37 \$85.38	1% Mar 1,798 \$196.73 \$227.37	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767	Nov 1,369 \$196.73 \$227.37 \$10.12	1%  Dec 1,582  \$196.73 \$227.37 \$41.37	Jan 1,899 \$196.73 \$227.37 \$87.87	1% Feb 1,882 \$196.73 \$227.37 \$85.38	1% Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767	Nov 1,369 \$196.73 \$227.37 \$10.12	1%  Dec 1,582  \$196.73 \$227.37 \$41.37	Jan 1,899 \$196.73 \$227.37 \$87.87	1% Feb 1,882 \$196.73 \$227.37 \$85.38	1% Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25								
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25						1,284	7,546	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393	1,305	1,186 \$214.26	1,207	1,171 \$214.26	1,284 \$214.26	7,546 \$1,285.56	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7762 \$0.0293	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70	1,305 \$214.26 \$128.70	1,186 \$214.26 \$128.70	1,207 1,207 \$214.26 \$128.70	1,171 \$214.26 \$128.70	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767 \$0.7762 \$0.0293 \$ 214.26 \$0.1287 \$0.1046	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	1,305	1,186 \$214.26	1,207	1,171 \$214.26	1,284 \$214.26	7,546 \$1,285.56 \$772.20 \$161.71	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1287 \$0.1384	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70	1,207 1,207 \$214.26 \$128.70	1,171 \$214.26 \$128.70	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	1,305 \$214.26 \$128.70	1,186 \$214.26 \$128.70 \$19.46	1,207 1,207 \$214.26 \$128.70	1,171 \$214.26 \$128.70	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70	\$214.26 \$128.70 \$21.65	1,171 \$214.26 \$128.70	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70 \$19.46	1,207 1,207 \$214.26 \$128.70	1,171 \$214.26 \$128.70	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70 \$19.46	\$214.26 \$128.70 \$21.65	1,171 \$214.26 \$128.70	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1287 \$0.13543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70 \$19.46	\$214.26 \$128.70 \$21.65	\$214.26 \$128.70 \$17.89	1,284 \$214.26 \$128.70 \$29.71	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7762 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70 \$19.46	\$214.26 \$128.70 \$21.65	\$214.26 \$128.70 \$17.89	1,284 \$214.26 \$128.70	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7762 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	\$214.26 \$128.70 \$41.11 \$493.54	\$214.26 \$128.70 \$31.90 \$462.36	\$214.26 \$128.70 \$19.46 \$420.20	\$214.26 \$128.70 \$21.65	\$214.26 \$128.70 \$17.89	\$214.26 \$128.70 \$29.71	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7762 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	Jan 1,899 \$196.73 \$227.37 \$87.87 \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1%  Mar 1,798 \$196.73 \$227.37 \$73.06	1% Apr 1,517 \$196.73 \$227.37 \$31.83	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25	1,393 \$214.26 \$128.70 \$41.11	\$214.26 \$128.70 \$31.90	1,186 \$214.26 \$128.70 \$19.46	\$214.26 \$128.70 \$21.65	\$214.26 \$128.70 \$17.89	1,284 \$214.26 \$128.70 \$29.71	7,546 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	1%  Jan 1,899 \$196.73 \$227.37 \$87.87  \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1% Mar 1,798 \$196.73 \$227.37 \$73.06 \$1,396.51 \$52.68	1% Apr 1,517 \$196.73 \$227.37 \$31.83 \$1,178.25 \$44.45	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25 \$294.38	\$214.26 \$128.70 \$41.11 \$493.54	\$214.26 \$128.70 \$31.90 \$462.36	\$214.26 \$128.70 \$19.46 \$420.20	\$214.26 \$128.70 \$21.65 \$427.64	\$214.26 \$128.70 \$17.89 \$414.89	\$214.26 \$128.70 \$29.71 \$454.92 \$39.68	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92	17,593
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7762 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64  \$46.35	1%  Jan 1,899 \$196.73 \$227.37 \$87.87  \$1,181.94  \$55.64	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1% Mar 1,798 \$196.73 \$227.37 \$73.06 \$1,396.51 \$52.68	1% Apr 1,517 \$196.73 \$227.37 \$31.83 \$1,178.25 \$44.45	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25 \$294.38	\$214.26 \$128.70 \$41.11 \$493.54 \$43.04 \$920.65	\$214.26 \$128.70 \$31.90 \$462.36 \$40.32	\$214.26 \$128.70 \$19.46 \$420.20 \$36.65	\$214.26 \$128.70 \$21.65 \$427.64 \$37.30	\$214.26 \$128.70 \$17.89 \$414.89 \$36.18	\$214.26 \$128.70 \$29.71	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92	
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64	1%  Jan 1,899 \$196.73 \$227.37 \$87.87  \$1,181.94	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75	1% Mar 1,798 \$196.73 \$227.37 \$73.06 \$1,396.51 \$52.68	1% Apr 1,517 \$196.73 \$227.37 \$31.83 \$1,178.25 \$44.45	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25 \$294.38	\$214.26 \$128.70 \$41.11 \$493.54	\$214.26 \$128.70 \$31.90 \$462.36	\$214.26 \$128.70 \$19.46 \$420.20	\$214.26 \$128.70 \$21.65 \$427.64	\$214.26 \$128.70 \$17.89 \$414.89	\$214.26 \$128.70 \$29.71 \$454.92 \$39.68	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92	17,593
27 28	\$ 196.73 \$0.1749 \$0.1467 \$0.6224 \$0.6224 \$0.7767 \$0.7767 \$0.7022 \$ 0.0293 \$ 214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  Nov 1,369 \$196.73 \$227.37 \$10.12 \$852.07	1%  Dec 1,582 \$196.73 \$227.37 \$41.37 \$984.64  \$46.35	1%  Jan 1,899 \$196.73 \$227.37 \$87.87  \$1,181.94  \$55.64	1% Feb 1,882 \$196.73 \$227.37 \$85.38 \$1,461.75 \$55.14	1% Mar 1,798 \$196.73 \$227.37 \$73.06 \$1,396.51 \$52.68	1% Apr 1,517 \$196.73 \$227.37 \$31.83 \$1,178.25 \$44.45	1% Winter 10,047 \$1,180.38 \$1,364.22 \$329.63 \$852.07 \$984.64 \$1,181.94 \$1,461.75 \$1,396.51 \$1,178.25 \$294.38	\$214.26 \$128.70 \$41.11 \$493.54 \$43.04 \$920.65	\$214.26 \$128.70 \$31.90 \$462.36 \$40.32	\$214.26 \$128.70 \$19.46 \$420.20 \$36.65	\$214.26 \$128.70 \$21.65 \$427.64 \$37.30	\$214.26 \$128.70 \$17.89 \$414.89 \$36.18	\$214.26 \$128.70 \$29.71 \$454.92 \$39.68 \$867.26	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92 \$233.17 \$5,126.19	17,593 \$15,349.95

<sup>\*-</sup>Note- Weighted by usage. Actual Weather Normalized.

Impact of Rate Changes on Residential Heating Bills by Usage Level Forecast Winter 2018-2019 vs. Actual Winter 2017-2018

Residential Heating		
	Winter 2017-2018	Winter 2018- 2019
Customer Charge	\$21.36	\$21.36
First 50 Therms	\$0.6468	\$0.6660
Over 50 therms	\$0.5332	\$0.6660
LDAC	\$0.0560	\$0.0691
CGA	\$0.7932	\$0.8271

	Usage (Therms)	Winter 2017-2018 Bill Amount	Winter 2018-2019 Bill Amount	Total	Bill	Base I	Rate	CG	A	LDA	\C
	5	\$28.84	\$29.17	\$0.33	1.1%	\$0.10	0.3%	\$0.17	0.6%	\$0.07	0.2%
	10	\$36.32	\$36.98	\$0.66	1.8%	\$0.19	0.5%	\$0.34	0.9%	\$0.13	0.4%
	20	\$51.28	\$52.60	\$1.32	2.6%	\$0.38	0.7%	\$0.68	1.3%	\$0.26	0.5%
	25	\$58.76	\$60.42	\$1.66	2.8%	\$0.48	0.8%	\$0.85	1.4%	\$0.33	0.6%
	30	\$66.24	\$68.23	\$1.99	3.0%	\$0.58	0.9%	\$1.02	1.5%	\$0.39	0.6%
	45	\$88.68	\$91.66	\$2.98	3.4%	\$0.86	1.0%	\$1.53	1.7%	\$0.59	0.7%
	50	\$96.16	\$99.47	\$3.31	3.4%	\$0.96	1.0%	\$1.70	1.8%	\$0.66	0.7%
	75	\$130.72	\$138.53	\$7.81	6.0%	\$4.28	3.3%	\$2.54	1.9%	\$0.98	0.7%
Average Monthly	125	\$199.84	\$216.64	\$16.80	8.4%	\$10.92	5.5%	\$4.24	2.1%	\$1.64	0.8%
	150	\$234.40	\$255.69	\$21.29	9.1%	\$14.24	6.1%	\$5.09	2.2%	\$1.97	0.8%
	200	\$303.52	\$333.80	\$30.28	10.0%	\$20.88	6.9%	\$6.78	2.2%	\$2.62	0.9%

Typical Residential Heating Bill - 136 therms/Summer Comparison of Summer 2019 vs. Summer 2018

1			May	June	July	August	Sept	October	Summer
2	Typical Usage: therms(*)		45	28	16	14	15	18	136
3									
_	Customer Charge units @	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$128.16
	First 50 units @	\$0.5870	\$26.42	\$16.44	\$9.39	\$8.22	\$8.81	\$10.57	\$79.83
6	Over 50 units @	\$0.5870	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7	COG 1	\$0.3670	\$16.52						\$16.52
8	COG 2	\$0.3670		\$10.28					\$10.28
9	COG 3	\$0.3670			\$5.87				\$5.87
10		\$0.3670				\$5.14			\$5.14
11	COG 5	\$0.3670					\$5.51		\$5.51
12	COG 6	\$0.3670						\$6.61	\$6.61
13	Summer Period 2019 Avg. COG	\$0.3670	•						
14	LDAC	\$0.0675	\$3.04	\$1.89	\$1.08	\$0.95	\$1.01	\$1.22	\$9.18
15		TOTAL	\$67.33	\$49.96	\$37.70	\$35.66	\$36.68	\$39.75	\$267.08
	Base Rate Change Winter 18-19 vs. Winter 17-18	\$ Change	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	-	% Change	0%	0%	0%	0%	0%	0%	0%
	COG Change Winter 18-19 vs. Winter 17-18	\$ Change	-\$1.37	-\$0.85	-\$0.49	-\$0.43	-\$0.46	-\$0.55	-\$4.15
	-	% Change	-2%	-2%	-1%	-1%	-1%	-1%	-2%
	LDAC Change Winter 18-19 vs. Winter 17-18	\$ Change	\$0.45	\$0.28	\$0.16	\$0.14	\$0.15	\$0.18	\$1.35
			Ψυτυ						
	EBNO Ondrige William To To Vo. William The	% Change	1%	1%	0%	0%	0%	0%	0%
	ED/10 Ghange William 10 10 vo. William 17 10								
16			1% <b>May</b>	1% June			0% Sept		0% Summer
16 17	Typical Usage: therms		1%	1%	0%	0%	0%	0%	0%
17 18	Typical Usage: therms Summer 2018	% Change	1% <b>May</b>	1% June	0% July	0% August	0% Sept	0% October	0% Summer
17 18 19	Typical Usage: therms Summer 2018 Customer Charge units @	% Change \$21.36	1%  May 45  \$21.36	June 28 \$21.36	0% July 16 \$21.36	0% August 14 \$21.36	0% Sept 15 \$21.36	0% October 18 \$21.36	0% Summer 136 \$128.16
17 18 19 20	Typical Usage: therms Summer 2018 Customer Charge units @ First 50 units @	% Change \$21.36 \$0.5870	1%  May 45  \$21.36 \$26.42	June 28 \$21.36 \$16.44	July 16 \$21.36 \$9.39	0% August 14 \$21.36 \$8.22	9% Sept 15 \$21.36 \$8.81	0% October 18 \$21.36 \$10.57	0%  Summer 136  \$128.16 \$79.83
17 18 19 20 21	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @	\$21.36 \$0.5870 \$0.5870	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36	0% July 16 \$21.36	0% August 14 \$21.36	0% Sept 15 \$21.36	0% October 18 \$21.36	0%  Summer 136  \$128.16 \$79.83 \$0.00
17 18 19 20 21 22	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1	\$21.36 \$0.5870 \$0.5870 \$0.3975	1%  May 45  \$21.36 \$26.42	June 28 \$21.36 \$16.44 \$0.00	July 16 \$21.36 \$9.39	0% August 14 \$21.36 \$8.22	9% Sept 15 \$21.36 \$8.81	0% October 18 \$21.36 \$10.57	0%  Summer 136  \$128.16 \$79.83 \$0.00 \$17.89
17 18 19 20 21 22 23	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36 \$16.44	30%  July 16  \$21.36 \$9.39 \$0.00	0% August 14 \$21.36 \$8.22	9% Sept 15 \$21.36 \$8.81	0% October 18 \$21.36 \$10.57	0%  Summer 136  \$128.16 \$79.83 \$0.00 \$17.89 \$11.13
17 18 19 20 21 22 23 24	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36 \$16.44 \$0.00	July 16 \$21.36 \$9.39	0%  August 14  \$21.36 \$8.22 \$0.00	9% Sept 15 \$21.36 \$8.81	0% October 18 \$21.36 \$10.57	0%  Summer 136  \$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36
17 18 19 20 21 22 23 24 25	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36 \$16.44 \$0.00	30%  July 16  \$21.36 \$9.39 \$0.00	0% August 14 \$21.36 \$8.22	9% Sept 15 \$21.36 \$8.81 \$0.00	0% October 18 \$21.36 \$10.57	0%  Summer 136  \$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57
17 18 19 20 21 22 23 24 25 26	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36 \$16.44 \$0.00	30%  July 16  \$21.36 \$9.39 \$0.00	0%  August 14  \$21.36 \$8.22 \$0.00	9% Sept 15 \$21.36 \$8.81	0%  October 18 \$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96
17 18 19 20 21 22 23 24 25 26 27	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36 \$16.44 \$0.00	30%  July 16  \$21.36 \$9.39 \$0.00	0%  August 14  \$21.36 \$8.22 \$0.00	9% Sept 15 \$21.36 \$8.81 \$0.00	0% October 18 \$21.36 \$10.57	0%  Summer 136  \$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57
17 18 19 20 21 22 23 24 25 26 27 28	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6 Summer Period 2018 Avg. COG	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00 \$17.89	June 28 \$21.36 \$16.44 \$0.00 \$11.13	9% July 16 \$21.36 \$9.39 \$0.00 \$6.36	\$21.36 \$8.22 \$0.00	\$ept 15 \$21.36 \$8.81 \$0.00 \$5.96	0%  October 18  \$21.36 \$10.57 \$0.00  \$7.16	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16
17 18 19 20 21 22 23 24 25 26 27	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975	1%  May 45  \$21.36 \$26.42 \$0.00	June 28 \$21.36 \$16.44 \$0.00	30%  July 16  \$21.36 \$9.39 \$0.00	0%  August 14  \$21.36 \$8.22 \$0.00	9% Sept 15 \$21.36 \$8.81 \$0.00	0%  October 18 \$21.36 \$10.57 \$0.00	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96
17 18 19 20 21 22 23 24 25 26 27 28	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.0576	1%  May 45  \$21.36 \$26.42 \$0.00 \$17.89	June 28 \$21.36 \$16.44 \$0.00 \$11.13	9% July 16 \$21.36 \$9.39 \$0.00 \$6.36	\$21.36 \$8.22 \$0.00	\$ept 15 \$21.36 \$8.81 \$0.00 \$5.96	0%  October 18 \$21.36 \$10.57 \$0.00  \$7.16 \$1.04 \$40.12	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16 \$7.83
17 18 19 20 21 22 23 24 25 26 27 28 29	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.0576	1%  May 45  \$21.36 \$26.42 \$0.00 \$17.89	1%  June 28  \$21.36 \$16.44 \$0.00 \$11.13	9%  July 16  \$21.36 \$9.39 \$0.00  \$6.36	9% August 14 \$21.36 \$8.22 \$0.00 \$5.57	\$21.36 \$8.81 \$0.00 \$5.96	0%  October 18 \$21.36 \$10.57 \$0.00  \$7.16 \$1.04	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16
17 18 19 20 21 22 23 24 25 26 27 28 29	Typical Usage: therms  Summer 2018  Customer Charge units @ First 50 units @ Over 50 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	\$21.36 \$0.5870 \$0.5870 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.3975 \$0.0576	\$21.36 \$26.42 \$0.00 \$17.89 \$2.59	1%  June 28  \$21.36 \$16.44 \$0.00 \$11.13	9%  July 16  \$21.36 \$9.39 \$0.00  \$6.36	\$21.36 \$8.22 \$0.00 \$5.57 \$0.81	\$21.36 \$8.81 \$0.00 \$5.96 \$0.86	0%  October 18 \$21.36 \$10.57 \$0.00  \$7.16 \$1.04 \$40.12	\$128.16 \$79.83 \$0.00 \$17.89 \$11.13 \$6.36 \$5.57 \$5.96 \$7.16 \$7.83

Typical G-40 Commercial & Industrial Bill - 295 therms/Summer Comparison of Summer 2019 vs. Summer 2018

1		May	June	July	August	Sept	October	<u>Summer</u>
2 Typical Usage:	therms(*)	112	58	30	26	31	38	<u>295</u>
3 <b>Summer 2019</b>								
4 Customer Charge units @	\$72.26	\$72.26	\$72.26	\$72.26	\$72.26	\$72.26	\$72.26	\$433.56
5 First 75 units @	\$0.1795	\$13.46	\$10.41	\$5.39	\$4.67	\$5.56	\$6.82	\$46.31
6 Over 75 units @	\$0.1795	\$6.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6.64
7 COG 1	\$0.3958	\$44.33						\$44.33
8 COG 2	\$0.3958		\$22.96	<b>.</b>				\$22.96
9 COG 3	\$0.3958			\$11.87				\$11.87
10 COG 4	\$0.3958				\$10.29	<b>0.40.07</b>		\$10.29
11 COG 5	\$0.3958					\$12.27	<b>.</b>	\$12.27
12 COG 6	\$0.3958						\$15.04	\$15.04
13 Summer Period 2019 Avg. COG	\$0.3958 *							
14 LDAC	\$0.0380	\$4.26	\$2.20	\$1.14	\$0.99	\$1.18	\$1.44	\$11.21
15	TOTAL	\$140.95	\$107.83	\$90.66	\$88.21	\$91.27	\$95.57	<u>\$614.48</u>
Base Rate Change Winter 18-19 vs. V	_	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	% Change	0%	0%	0%	0%	0%	0%	0%
COG Change Winter 18-19 vs. Winte	\$ Change	-\$3.32	-\$1.72	-\$0.89	-\$0.77	-\$0.92	-\$1.12	-\$8.73
	% Change	-2%	-2%	-1%	-1%	-1%	-1%	-1%
LDAC Change Winter 18-19 vs. Winter	\$ Change	\$0.80	\$0.41	\$0.21	\$0.18	\$0.22	\$0.27	\$2.09
	% Change	1%	0%	0%	0%	0%	0%	0%
	% Change	1%	0%	0%	0%	0%	0%	0%
16	% Change							
16 17 Typical Usage:		May	June	July	August	Sept	October	Summer
17 Typical Usage:								
Typical Usage: 8 Summer 2018	therms	<b>May</b> 112	<b>June</b> 58	July 30	August 26	Sept 31	October 38	<u>Summer</u> 295
Typical Usage:  18 Summer 2018  19 Customer Charge units @	therms \$72.26	<b>May</b> 112	<b>June</b> 58	July 30 \$72.26	August 26 \$72.26	<b>Sept</b> 31 \$72.26	October 38 \$72.26	<u>Summer</u> <u>295</u> \$433.56
Typical Usage:  18 Summer 2018  19 Customer Charge units @ 20 First 75 units @	\$72.26 \$0.1795	<b>May</b> 112 \$72.26 \$13.46	<b>June</b> 58 \$72.26 \$10.41	July 30 \$72.26 \$5.39	August 26 \$72.26 \$4.67	<b>Sept</b> 31 \$72.26 \$5.56	October 38 \$72.26 \$6.82	<u>Summer</u> <u>295</u> \$433.56 \$46.31
Typical Usage:  18 Summer 2018  19 Customer Charge units @ 20 First 75 units @	therms \$72.26	<b>May</b> 112	<b>June</b> 58	July 30 \$72.26	August 26 \$72.26	<b>Sept</b> 31 \$72.26	October 38 \$72.26	<u>Summer</u> <u>295</u> \$433.56
Typical Usage:  18 Summer 2018  19 Customer Charge units @ 20 First 75 units @ 21 Over 75 units @	\$72.26 \$0.1795 \$0.1795	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41	July 30 \$72.26 \$5.39	August 26 \$72.26 \$4.67	<b>Sept</b> 31 \$72.26 \$5.56	October 38 \$72.26 \$6.82	Summer 295 \$433.56 \$46.31 \$6.64
Typical Usage:  18 Summer 2018  19 Customer Charge units @ 20 First 75 units @ 21 Over 75 units @ 22 COG 1	\$72.26 \$0.1795 \$0.1795 \$0.4254	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41 \$0.00	July 30 \$72.26 \$5.39	August 26 \$72.26 \$4.67	<b>Sept</b> 31 \$72.26 \$5.56	October 38 \$72.26 \$6.82	Summer 295 \$433.56 \$46.31 \$6.64 \$47.64
Typical Usage:  18 Summer 2018  19 Customer Charge units @ 20 First 75 units @ 21 Over 75 units @ 22 COG 1 23 COG 2	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41 \$0.00	30 \$72.26 \$5.39 \$0.00	August 26 \$72.26 \$4.67	<b>Sept</b> 31 \$72.26 \$5.56	October 38 \$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76
Typical Usage:  18 Summer 2018  19 Customer Charge units @ 20 First 75 units @ 21 Over 75 units @ 22 COG 1 23 COG 2 24 COG 3	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41 \$0.00	30 \$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	<b>Sept</b> 31 \$72.26 \$5.56	October 38 \$72.26 \$6.82	Summer 295 \$433.56 \$46.31 \$6.64 \$47.64 \$24.67
Typical Usage:  18	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41 \$0.00	30 \$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	\$ept 31 \$72.26 \$5.56 \$0.00	972.26 \$6.82 \$0.00	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19
Typical Usage:  18	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41 \$0.00	<b>July</b> 30 \$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	\$ept 31 \$72.26 \$5.56 \$0.00	October 38 \$72.26 \$6.82	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06
Typical Usage:  18	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254	<b>May</b> 112 \$72.26 \$13.46 \$6.64	<b>June</b> 58 \$72.26 \$10.41 \$0.00	<b>July</b> 30 \$72.26 \$5.39 \$0.00	\$72.26 \$4.67 \$0.00	\$ept 31 \$72.26 \$5.56 \$0.00	972.26 \$6.82 \$0.00	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19
17	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.0309	\$72.26 \$13.46 \$6.64 \$47.64	June 58 \$72.26 \$10.41 \$0.00 \$24.67	July 30 \$72.26 \$5.39 \$0.00 \$12.76	\$72.26 \$4.67 \$0.00 \$11.06	\$ept 31 \$72.26 \$5.56 \$0.00 \$13.19	972.26 \$6.82 \$0.00 \$16.17 \$1.17	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19 \$16.17
17	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.0309	\$72.26 \$13.46 \$6.64 \$47.64 \$3.46	\$72.26 \$10.41 \$0.00 \$24.67 \$1.79	July 30 \$72.26 \$5.39 \$0.00 \$12.76 \$0.93	\$72.26 \$4.67 \$0.00 \$11.06 \$0.80 \$88.79	\$ept 31 \$72.26 \$5.56 \$0.00 \$13.19 \$0.96 \$91.97	\$72.26 \$6.82 \$0.00 \$16.17 \$1.17 \$96.42	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19 \$16.17 \$9.12
17	\$72.26 \$0.1795 \$0.1795 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.4254 \$0.0309	\$72.26 \$13.46 \$6.64 \$47.64	June 58 \$72.26 \$10.41 \$0.00 \$24.67	July 30 \$72.26 \$5.39 \$0.00 \$12.76	\$72.26 \$4.67 \$0.00 \$11.06	\$ept 31 \$72.26 \$5.56 \$0.00 \$13.19	972.26 \$6.82 \$0.00 \$16.17 \$1.17	\$433.56 \$46.31 \$6.64 \$47.64 \$24.67 \$12.76 \$11.06 \$13.19 \$16.17

<sup>\*-</sup>Note- Weighted by usage. Actual Weather Normalized.

Typical G-41 Commercial & Industrial Bill - 3,869 therms/Summer Comparison of Summer 2019 vs. Summer 2018

1	-	May	June	July	August	Sept	October	Summer
2 Typical Usage:	therms(1)	1,219	755	443	412	451	589	3,869
3 Summer 2019	<u> </u>						•	
4 Customer Charge units @	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$1,285.56
5 All units @	\$0.1824	\$222.35	\$137.71	\$80.80	\$75.15	\$82.26	\$107.43	\$705.71
6 COG 1	\$0.3958	\$482.48						\$482.48
7 COG 2	\$0.3958		\$298.83					\$298.83
8 COG 3	\$0.3958			\$175.34	<b>#</b> 400.07			\$175.34
9 COG 4	\$0.3958				\$163.07	<b>0470.54</b>		\$163.07
10 COG 5	\$0.3958					\$178.51	<b>#</b> 000 40	\$178.51
11 COG 6	\$0.3958						\$233.13	\$233.13
12 Summer Period 2019 Avg. COG	\$0.3958 *	<b>£46.22</b>	<b>#</b> 20.00	<b>#46.00</b>	<b>\$45.00</b>	<b>64744</b>	<b>#</b> 00.00	<b>64.47.00</b>
13 LDAC	\$0.0380	\$46.32	\$28.69	\$16.83	\$15.66	\$17.14	\$22.38	\$147.02
14	TOTAL	\$965.41	\$679.49	\$487.24	\$468.13	\$492.17	\$577.20	<u>\$3,669.64</u>
Base Rate Change Winter 18-19 vs. \	\$ Change	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	% Change	0%	0%	0%	0%	0%	0%	0%
COG Change Winter 18-19 vs. Winte	\$ Change	-\$36.08	-\$22.35	-\$13.11	-\$12.20	-\$13.35	-\$17.43	-\$114.52
	% Change	-4%	-3%	-3%	-3%	-3%	-3%	-3%
LDAC Change Winter 18-19 vs. Winter	\$ Change	\$8.65	\$5.36	\$3.15	\$2.93	\$3.20	\$4.18	\$27.47
	% Change	1%	1%	1%	1%	1%	1%	1%
15		May	June	July	August	Sept	October	Summer
16 Typical Usage:	therms	1,219	755	443	412	451	589	3,869
17 Summer 2018	<u> </u>							
18 Customer Charge units @	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$1,285.56
19 All units @	\$0.1824	\$222.35	\$137.71	\$80.80	\$75.15	\$82.26	\$107.43	\$705.71
20 COG 1	\$0.4254	\$518.56						\$518.56
21 COG 2	\$0.4254		\$321.18	<b>0400.45</b>				\$321.18
22 COG 3	\$0.4254			\$188.45	<b>0475.00</b>			\$188.45
23 COG 4	\$0.4254				\$175.26	<b>0.404.00</b>		\$175.26
24 COG 5	\$0.4254					\$191.86	0050 5	\$191.86
25 COG 6	\$0.4254						\$250.56	\$250.56
26 Summer Period 2018 Avg. COG	\$0.4254 *	<b>^</b>			<b>A.</b>			<b></b>
		\$37.67	\$23.33	\$13.69	\$12.73	\$13.94	\$18.20	\$119.55
27 LDAC	\$0.0309						1	
	TOTAL	\$992.84	\$696.48	\$497.20	\$477.40	\$502.31	\$590.45	\$3,756.69
27 LDAC	TOTAL		\$696.48 -\$16.99	\$497.20 -\$9.97	\$477.40 -\$9.27	\$502.31 -\$10.15	\$590.45 - <b>\$13.25</b>	\$3,756.69 -\$87.05
27 LDAC 28		\$992.84						

Typical G-51 Commercial & Industrial Bill - 7,546 therms/Summer Comparison of Summer 2019 vs. Summer 2018

1			May	June	July	August	Sept	October	Summer
2	71 3	therms(1)	1,393	1,305	1,186	1,207	1,171	1,284	7,546
3									
4	Customer Charge units @	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$214.26	\$1,285.56
	First 1,000 units @	\$0.1287	\$128.70	\$128.70	\$128.70	\$128.70	\$128.70	\$128.70	\$772.20
6	1,000	\$0.1046	\$41.11	\$31.90	\$19.46	\$21.65	\$17.89	\$29.71	\$161.71
7	COG 1	\$0.3269	\$455.37						\$455.37
8		\$0.3269		\$426.60					\$426.60
9		\$0.3269			\$387.70	<b>***</b>			\$387.70
10		\$0.3269				\$394.57	<b>#</b> 000 00		\$394.57
11	COG 5	\$0.3269					\$382.80	0440.74	\$382.80
12		\$0.3269						\$419.74	\$419.74
13 14		\$0.3269 * \$0.0380	\$52.93	\$49.59	\$45.07	\$45.87	\$44.50	\$48.79	\$286.75
15		TOTAL	\$892.37	\$851.06	\$795.19	\$805.05	\$788.14	\$841.20	\$4,973.01
	Base Rate Change Winter 18-19 vs. Winter 17-18	\$ Change	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
		% Change	0%	0%	0%	0%	0%	0%	0%
	COG Change Winter 18-19 vs. Winter 17-18	\$ Change	-\$38.17	-\$35.76	-\$32.50	-\$33.07	-\$32.09	-\$35.18	-\$206.76
		% Change	-4%	-4%	-4%	-4%	-4%	-4%	-4%
	LDAC Change Winter 18-19 vs. Winter 17-18	\$ Change	\$9.89	\$9.27	\$8.42	\$8.57	\$8.31	\$9.12	\$53.58
	EB/(8 Ghange Winter 16 16 Vs. Winter 17 16	ψ Onlange	Ψ0.00	* -		*		* -	400.00
	EDITO CHANGE VIIILEI TO TO VO. VIIILEI TI TO	% Change	1%	1%	1%	1%	1%	1%	1%
16	·		1%	1%	1%	1%	1%	1%	1%
16 17		% Change	1%	1% June	1% July	1% August	1% Sept	1% October	1% <u>Summer</u>
	Typical Usage:	% Change	1%	1%	1%	1%	1%	1%	1%
17 18	Typical Usage:	% Change	1%	1% June	1% July	1% August	1% Sept	1% October	1% <u>Summer</u>
17 18 19	Typical Usage: Summer 2018	% Change	1% May 1,393	1% June 1,305	1% July 1,186	1% August 1,207	1% <b>Sept</b> 1,171	1% October 1,284	1% <u>Summer</u> <u>7,546</u>
17 18 19 20 21	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @	% Change therms \$214.26	1%  May 1,393	June 1,305 \$214.26	1%  July 1,186  \$214.26	1% August 1,207 \$214.26	1% Sept 1,171 \$214.26	1% October 1,284 \$214.26	1% <u>Summer</u> <u>7,546</u> \$1,285.56
17 18 19 20 21 22	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1	% Change therms \$214.26 \$0.1287 \$0.1046 \$0.3543	1%  May 1,393  \$214.26 \$128.70	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70	1% August 1,207 \$214.26 \$128.70	1% Sept 1,171 \$214.26 \$128.70	1% October 1,284 \$214.26 \$128.70	\$\frac{\summer}{7,546}\$\$ \$1,285.56 \$772.20 \$161.71 \$493.54
17 18 19 20 21 22 23	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2	% Change therms \$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70	July 1,186 \$214.26 \$128.70 \$19.46	1% August 1,207 \$214.26 \$128.70	1% Sept 1,171 \$214.26 \$128.70	1% October 1,284 \$214.26 \$128.70	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36
17 18 19 20 21 22 23 24	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3	% Change therms \$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70	1%  August 1,207  \$214.26 \$128.70 \$21.65	1% Sept 1,171 \$214.26 \$128.70	1% October 1,284 \$214.26 \$128.70	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20
17 18 19 20 21 22 23 24 25	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4	\$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70 \$19.46	1% August 1,207 \$214.26 \$128.70	\$ept 1,171 \$214.26 \$128.70 \$17.89	1% October 1,284 \$214.26 \$128.70	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64
17 18 19 20 21 22 23 24	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5	% Change therms \$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70 \$19.46	1%  August 1,207  \$214.26 \$128.70 \$21.65	1% Sept 1,171 \$214.26 \$128.70	1% October 1,284 \$214.26 \$128.70	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20
17 18 19 20 21 22 23 24 25	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5	\$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70 \$19.46	1%  August 1,207  \$214.26 \$128.70 \$21.65	\$ept 1,171 \$214.26 \$128.70 \$17.89	1% October 1,284 \$214.26 \$128.70	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64
17 18 19 20 21 22 23 24 25 26	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6	\$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70 \$19.46	1%  August 1,207  \$214.26 \$128.70 \$21.65	\$ept 1,171 \$214.26 \$128.70 \$17.89	1%  October 1,284  \$214.26 \$128.70 \$29.71	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89
17 18 19 20 21 22 23 24 25 26 27	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	\$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11	June 1,305 \$214.26 \$128.70 \$31.90	July 1,186 \$214.26 \$128.70 \$19.46	1%  August 1,207  \$214.26 \$128.70 \$21.65	\$ept 1,171 \$214.26 \$128.70 \$17.89	1%  October 1,284  \$214.26 \$128.70 \$29.71	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89
17 18 19 20 21 22 23 24 25 26 27 28	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	**Change** therms  \$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11 \$493.54	June 1,305 \$214.26 \$128.70 \$31.90 \$462.36	July 1,186 \$214.26 \$128.70 \$19.46 \$420.20	1% August 1,207 \$214.26 \$128.70 \$21.65	\$ept 1,171 \$214.26 \$128.70 \$17.89	1%  October 1,284  \$214.26 \$128.70 \$29.71  \$454.92	\$1,285.56 \$7,72.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92
17 18 19 20 21 22 23 24 25 26 27 28 29	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	**Change**  **Section**  **Sect	1%  May 1,393  \$214.26 \$128.70 \$41.11 \$493.54	1%  June 1,305  \$214.26 \$128.70 \$31.90  \$462.36	July 1,186 \$214.26 \$128.70 \$19.46 \$420.20	1%  August 1,207  \$214.26 \$128.70 \$21.65  \$427.64	\$ept 1,171 \$214.26 \$128.70 \$17.89 \$414.89	1%  October 1,284  \$214.26 \$128.70 \$29.71  \$454.92 \$39.68	\$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92 \$233.17
17 18 19 20 21 22 23 24 25 26 27 28 29	Typical Usage:  Summer 2018  Customer Charge units @ First 1,000 units @ Over 1,000 units @ COG 1 COG 2 COG 3 COG 4 COG 5 COG 6  Summer Period 2018 Avg. COG	\$214.26 \$0.1287 \$0.1046 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543 \$0.3543	1%  May 1,393  \$214.26 \$128.70 \$41.11 \$493.54  \$43.04 \$920.65	1%  June 1,305  \$214.26 \$128.70 \$31.90  \$462.36  \$40.32	3420.20  1,186  \$214.26 \$128.70 \$19.46  \$420.20	1%  August 1,207  \$214.26 \$128.70 \$21.65  \$427.64  \$37.30  \$829.55	1%  Sept 1,171  \$214.26 \$128.70 \$17.89  \$414.89  \$36.18  \$811.92	1%  October 1,284  \$214.26 \$128.70 \$29.71  \$454.92  \$39.68 \$867.26	\$1,285.56 \$1,285.56 \$772.20 \$161.71 \$493.54 \$462.36 \$420.20 \$427.64 \$414.89 \$454.92 \$233.17

Impact of Rate Changes on Residential Heating Bills by Usage Level Forecast Summer 2019 vs. Actual Summer 2018

Residential Heating		
	<b>Summer 2018</b>	<b>Summer 2019</b>
Customer Charge	\$21.36	\$21.36
First 50 Therms	\$0.5870	\$0.5870
Over 50 therms	\$0.5870	\$0.5870
LDAC	\$0.0576	\$0.0675
CGA	\$0.3975	\$0.3670

	Usage (Therms)	Summer 2016 Bill Amount	Summer 2017 Bill Amount	Total	Bill	Base I	Rate	CO	G	LDA	'C
	5	\$26.57	\$26.47	(\$0.10)	-0.4%	\$0.00	0.0%	(\$0.15)	-0.6%	\$0.05	0.2%
	10	\$31.78	\$31.58	(\$0.21)	-0.6%	\$0.00	0.0%	(\$0.31)	-1.0%	\$0.10	0.3%
	20	\$42.20	\$41.79	(\$0.41)	-1.0%	\$0.00	0.0%	(\$0.61)	-1.4%	\$0.20	0.5%
Average Monthly	25	\$47.41	\$46.90	(\$0.52)	-1.1%	\$0.00	0.0%	(\$0.76)	-1.6%	\$0.25	0.5%
	30	\$52.62	\$52.01	(\$0.62)	-1.2%	\$0.00	0.0%	(\$0.91)	-1.7%	\$0.30	0.6%
	45	\$68.25	\$67.33	(\$0.93)	-1.4%	\$0.00	0.0%	(\$1.37)	-2.0%	\$0.45	0.7%
	50	\$73.47	\$72.44	(\$1.03)	-1.4%	\$0.00	0.0%	(\$1.53)	-2.1%	\$0.50	0.7%
	75	\$99.52	\$97.97	(\$1.54)	-1.6%	\$0.00	0.0%	(\$2.29)	-2.3%	\$0.74	0.7%
	125	\$151.62	\$149.05	(\$2.57)	-1.7%	\$0.00	0.0%	(\$3.81)	-2.5%	\$1.24	0.8%
	150	\$177.68	\$174.59	(\$3.09)	-1.7%	\$0.00	0.0%	(\$4.58)	-2.6%	\$1.49	0.8%
	200	\$229.78	\$225.66	(\$4.12)	-1.8%	\$0.00	0.0%	(\$6.10)	-2.7%	\$1.98	0.9%