



REDACTED

**STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION**

Docket No. DG 20-152

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities
Winter 2020/2021 Cost of Gas Filing for EnergyNorth's Keene Division

REVISED DIRECT TESTIMONY

OF

**DEBORAH M. GILBERTSON,
CATHERINE A. McNAMARA,**

AND

DAVID B. SIMEK

October 16, 2020

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1 **I. INTRODUCTION**

2 **Q. Please state your full name, business address, and positions.**

3 A. (DG) My name is Deborah M. Gilbertson. My business address is 15 Buttrick Road,
4 Londonderry, New Hampshire. My title is Senior Manager, Energy Procurement.

5 (CM) My name is Catherine A. McNamara. My business address is 15 Buttrick Road,
6 Londonderry, New Hampshire. My title is Rates Analyst II, Rates and Regulatory
7 Affairs.

8 (DS) My name is David B. Simek. My business address is 15 Buttrick Road,
9 Londonderry, New Hampshire. My title is Manager, Rates and Regulatory Affairs.

10 **Q. By whom are you employed?**

11 A. We are employed by Liberty Utilities Service Corp. (“Liberty”), which provides services
12 to Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities
13 (“EnergyNorth” or “the Company”) and Liberty Utilities (Granite State Electric) Corp.
14 d/b/a Liberty Utilities.

15 **Q. On whose behalf are you testifying?**

16 A. We are testifying on behalf of EnergyNorth’s Keene Division.

17 **Q. Ms. Gilbertson, please describe your educational background, and your business
18 and professional experience.**

19 A. I graduated from Bentley College in Waltham, Massachusetts, in 1996 with a Bachelor of
20 Science in Management. In 1997, I was hired by Texas Ohio Gas where I was employed

1 as a Transportation Analyst. In 1999, I joined Reliant Energy, located in Burlington,
2 Massachusetts, as an Operations Analyst. From 2000 to 2003, I was employed by Smart
3 Energy as a Senior Energy Analyst. I joined Keyspan Energy Trading Services in 2004
4 as a Senior Resource Management Analyst following which I was employed by National
5 Grid from 2008 through 2011 as a Lead Analyst in the Project Management Office. In
6 2011, I was hired by Liberty as a Natural Gas Scheduler and was promoted to Manager of
7 Retail Choice in 2012. In October 2016, I was promoted to Senior Manager of Energy
8 Procurement. In this capacity, I provide gas procurement services to EnergyNorth.

9 **Q. Ms. McNamara, please describe your educational background, and your business**
10 **and professional experience.**

11 A. I graduated from the University of Massachusetts, Boston, in 1993 with a Bachelor of
12 Science in Management with a concentration in Accounting. In November 2017, I joined
13 Liberty as an Analyst in Rates and Regulatory Affairs. Prior to my employment at
14 Liberty, I was employed by Eversource as a Senior Analyst in the Investment Planning
15 group from 2015 to 2017. From 2008 to 2015, I was a Supervisor in the Plant
16 Accounting department. Prior to my position in Plant Accounting, I was a Financial
17 Analyst/General Ledger System Administrator within the Accounting group from 2000 to
18 2008.

1 **Q. Mr. Simek, please describe your educational background, and your business and**
2 **professional experience.**

3 A. I graduated from Ferris State University in 1993 with a Bachelor of Science in Finance. I
4 received a Master's of Science in Finance from Walsh College in 2000. I also received a
5 Master's of Business Administration from Walsh College in 2001. In 2006, earned a
6 Graduate Certificate in Power Systems Management from Worcester Polytechnic
7 Institute. In August 2013, I joined Liberty as a Utility Analyst and I was promoted to
8 Manager, Rates and Regulatory Affairs in August 2017. Prior to my employment at
9 Liberty, I was employed by NSTAR Electric & Gas ("NSTAR") as a Senior Analyst in
10 Energy Supply from 2008 to 2012. Prior to my position in Energy Supply at NSTAR, I
11 was a Senior Financial Analyst with the NSTAR Investment Planning group from 2004
12 to 2008.

13 **Q. Ms. Gilbertson, Ms. McNamara, and Mr. Simek, have you previously testified in**
14 **regulatory proceedings before the New Hampshire Public Utilities Commission (the**
15 **"Commission")?**

16 A. Yes, we have.

17 **Q. What is the purpose of your testimony?**

18 A. The purpose of our testimony is to explain the Company's proposed cost of gas rates for
19 its Keene Division for the 2020/2021 winter (peak) period to be effective beginning
20 November 1, 2020. Our testimony will also address bill comparisons and other items
21 related to the winter period.

1 **II. WINTER 2020/2021 COST OF GAS FACTOR**

2 **Q. What is the proposed firm winter cost of gas rate?**

3 A. The Company proposes a firm cost of gas rate of \$1.2100 per therm for the Keene
4 Division as shown on proposed Twelfth Revised Page 93.

5 **Q. Please explain the calculation of the Cost of Gas rate on tariff page Proposed
6 Twelfth Revised Page 93.**

7 A. Proposed Twelfth Revised Page 93 contains the calculation of the 2020/2021 Winter
8 Period Cost of Gas Rate (“COG”) and summarizes the Company's forecast of propane
9 and compressed natural gas (“CNG”) sales and propane and CNG costs. The total
10 anticipated cost of the gas sendout from November 1, 2020, through April 30, 2021, is
11 \$1,310,953. The information presented on the tariff page is supported by Schedules A
12 through J that are described later in this testimony.

13 To derive the Total Anticipated Cost of Gas, the following adjustments have been made:

- 14 1. The prior period under-collection of \$30,171 is added from the anticipated cost of
15 gas sendout; and
- 16 2. Interest of \$55 is added to the anticipated cost of gas sendout. Schedule H shows
17 this forecasted interest calculation for the period May 2020 through April 2021.
18 Interest is accrued using the monthly prime lending rate as reported by the Federal
19 Reserve Statistical Release of Selected Interest Rates.

1 The Non-Fixed Price Option (“Non-FPO”) cost of gas rate of \$1.2100 per therm was
2 calculated by dividing the Total Anticipated Cost of Gas of \$1,310,953 by the Projected
3 Gas Sales of 1,108,419 therms. The Fixed Price Option (“FPO”) rate of \$1.2300 per
4 therm was established by adding a \$0.02 per therm premium to the Non-FPO rate.

5 **Q. Please describe Schedule A.**

6 A. Schedule A converts the propane gas volumes and unit costs from gallons to therms. The
7 [REDACTED] therms represent gas propane sendout as detailed on Schedule B, line 3. The
8 weighted average cost of propane, is \$ [REDACTED] per therm, for the winter period. Schedule
9 A also shows Gas sendout from CNG of [REDACTED] therms as detailed on Schedule B, line
10 8. The unit cost of CNG is \$ [REDACTED] /therm.

11 **Q. What is Schedule B?**

12 A. Schedule B presents the (over)/under collection calculation for the Winter 2020/2021
13 period based on the forecasted volumes, the cost of gas, and applicable interest amounts.
14 The forecasted total propane sendout on line 3, plus total CNG sendout on line 8, is the
15 sum of the weather normalized 2020/2021 winter period firm sendout and company use.
16 The forecasted Firm Sales on line 26 represent weather normalized 2020/2021 winter
17 period firm sales. The weather normalization calculations for sendout and sales are found
18 in Schedules I and J, respectively.

19 **Q. Are CNG demand charges included in this filing?**

20 A. Yes, CNG demand charges are included in Schedule B on lines 10 and 11.

1 Schedule B, line 11 includes 80% of the 2020/2021 demand charges. These charges are
2 [REDACTED] per month or [REDACTED] for the season and represent the portion attributable to the
3 winter period.

4 Schedule B, line 12 contains 80% of one third of the total CNG demand charges for the
5 period August 2017 through September 2019. These charges are [REDACTED] for the season
6 or [REDACTED] per month.

7 **Q. How were the demand charges for the August 2017 through September 2019**
8 **calculated?**

9 A. The demand charges for the 26 months are [REDACTED] per month for a total of
10 [REDACTED]. The [REDACTED] was then divided by three (the Company is proposing to
11 amortize the cost over three years) to get an annual total of [REDACTED]. The current
12 annual charges are split 80/20 between winter and summer. [REDACTED] x 80% total
13 [REDACTED]. The resulting winter period charge is [REDACTED] which divided by six
14 results in a monthly charge of [REDACTED].

15 **Q. What is the basis for including the demand charges from August 2017 through**
16 **September 2019 in this filing?**

17 A. The Company was expecting to put the CNG facility online in 2017 and, therefore, it was
18 prudent to have a contract in place. See Order No. 26,065 (Oct. 20, 2017) (confirming
19 that Liberty had the right to distribute natural gas in Keene), and Order No. 26,067 (Oct.
20 31, 2017) (acknowledging Liberty's plans to provide CNG service during the 2017–2018
21 winter). This was the first time that Liberty or the Staff had been involved with

1 connecting CNG to the Company's distribution system and there were unknown
2 obstacles and delays involved with getting the installation finalized to the satisfaction of
3 all parties. However, the Company needed to be ready at any point during the period
4 from August 2017 through September 2019, as we could have received the go-ahead to
5 put the CNG system online at any time. Indeed, the Commission recognized that the
6 Company planned to begin providing CNG in the fall of 2017, and left open the
7 possibility that CNG could flow during the 2017–2018 winter:

8 “We recognize that while Liberty-Keene is forecasting the use of CNG this winter, the
9 introduction of CNG into the Keene system will not occur by the proposed effective date
10 of these rates (November 1) due to the safety requirements laid out in our order in DG
11 17-064. Thus, we will not approve the proposed 2017–2018 winter COG rates as filed
12 and will require Liberty-Keene to refile COG rates that remove any costs of CNG.”

13 Order No. 26,067 at 5-6 (Oct. 31, 2017). The Commission approved the inclusion of
14 CNG in the summer 2018 Keene cost of gas rate, Order No. 26,126 (May 1, 2018). Since
15 we had to be ready to serve customers when that took place, it was reasonable to incur the
16 demand charges beginning in the fall of 2017.

17 **Q. Are unaccounted-for gas volumes included in the filing?**

18 A. Unaccounted-for gas is included in the firm sendout on Schedule B, lines 1 and 8. The
19 Company actively monitors its level of unaccounted-for volumes, which amounted to
20 0.56% for the twelve months ended June 30, 2020.

1 **Q. Please describe Schedules C, D, and E.**

2 A. Schedule C presents the calculation of the total forecasted cost of gas purchases in the
3 2020/2021 winter period, segregated by Propane Purchasing Stabilization Plan (“PPSP”)
4 purchases, available storage deliveries from EnergyNorth’s Amherst facility, CNG
5 deliveries, and spot purchases. In prior filings, Schedule C was presented in gallons;
6 however, in order to attain consistency with the other schedules in this filing, the unit of
7 measure on Schedule C has been changed to therms.

8 Schedule D presents the structure of PPSP pre-purchases for the winter period, monthly
9 average rates for the pre-purchases, and the resulting weighted average contract price for
10 the winter period as used in Schedule C, line 5.

11 Schedule E presents the forecasted market spot prices of propane. Column 1 of the
12 schedule represents the Mont Belvieu propane futures quotations as of September 11,
13 2020, followed by projected broker fees, pipeline fees, PERC fees, supplier charges, and
14 trucking charges. Together, the pricing and fees make up the expected cost of spot
15 propane purchases as represented in Schedule C, line 31.

16 **Q. Please describe the Propane Purchasing Stabilization Plan (PPSP).**

17 A. The PPSP, as approved in Order No. 24,617 in Docket DG 06-037, was again
18 implemented for the winter 2020/2021. As shown on Schedule D, the Company pre-
19 purchased 700,000 gallons of propane between April and September at a weighted
20 average price of \$0.8288 per gallon (\$0.9058 per therm), inclusive of broker, pipeline,

1 Propane Education & Research Council (“PERC”), and trucking charges in effect at the
2 time of the supplier’s bid.

3 **Q. Has the pre-purchased volumes in the PPSP changed since 2019-20?**

4 A. No. The volume remains at 700,000 gallons or 640,500 therms. The Keene Division
5 maintains a pre-purchase hedge of approximately 63%, which is consistent with prior
6 years.

7 **Q. How was the cost of CNG purchases determined?**

8 A. The CNG costs are shown in Schedule C, lines 19 through 26. These costs reflect the
9 contractual agreement between the Company and its supplier, Xpress Natural Gas, LLC.

10 **Q. Please describe Schedule F.**

11 A. Schedule F contains the calculation of the weighted average cost of inventory for each
12 month through April 2021. The unit cost of projected gas to be sent out each month
13 utilizes this weighted average inventory cost, which is inclusive of all PPSP purchases,
14 spot purchases, Amherst storage withdrawals, and CNG deliveries. Note that the CNG
15 deliveries are shown in separate columns from the propane-weighted cost but are
16 included in the average winter rate, which is established on line 55 of Schedule F. This
17 mix of supply purchases is also itemized on Schedule C.

18 **Q. What is shown on Schedule G?**

19 A. Schedule G shows the over-collected balance for the prior winter 2019/2020 period,
20 including interest calculated in a manner consistent with prior years. The over-collected
21 balance of \$26,354 (line 31) is shown on Schedule H, line 1, Column 1.

1 **Q. How is the information in Schedule H represented in the cost of gas calculation?**

2 A. Schedule H presents the interest calculation and adjustments on (over)/under-collected
3 balances through April 2021. The prior period over-collection of (\$26,354) plus
4 adjustments of \$56,197 plus interest of \$328 on that balance through October 31, 2020,
5 are included on Schedule B, line 32, in the “Prior” column for a total of \$30,171. The
6 adjustments of \$56,197 are primarily due to the reversal of the prior period unbilled
7 revenue accrual for \$40,599 and the remainder is due to the timing of customer cancel
8 and rebills related to a faulty meter for a large customer that had to be replaced. The
9 forecasted monthly interest of \$52 for the winter 2020/2021 period in Column 8 is
10 included on Schedule B, line 31. The adjusted prior period under-collection plus the
11 interest amount is also included on the tariff page.

12 **III. FIXED PRICE OPTION PROGRAM**

13 **Q. Please describe the FPO program that will be in place for the winter period.**

14 A. The Company will offer the FPO program for the upcoming winter period to provide
15 customers the opportunity to lock in their cost of gas rate. Enrollment in the program is
16 limited to 50% of forecasted winter sales, with allotments made available to both
17 residential and commercial customers on a first-come, first-served basis. The Company
18 is forecasting that 19% of total sales volumes will enroll in the FPO program. The 19%
19 is the five-year average FPO participation rate from winter 2015/2016 through the winter
20 of 2019/2020.

1 **Q. Will a premium be applied to the FPO rate?**

2 A. Yes. As approved in Order No. 24,516 in Docket DG 05-144, the Company has added a
3 \$0.02 per therm premium to the Non-FPO cost of gas rate to derive the FPO rate of
4 \$1.2300 per therm. The Company is not seeking an increase in the premium because
5 participation, based on prior customer behavior, is expected to remain well below the
6 50% threshold.

7 **Q. How will customers be notified of the availability of the FPO program?**

8 A. A letter will be mailed to all customers by October 1 advising them of the program, the
9 FPO rate, and the procedure to enroll.

10 **IV. COST OF GAS RATE AND BILL COMPARISONS**

11 **Q. How does the proposed Winter 2020/2021 cost of gas rate compare with the previous
12 winter's rate?**

13 A. The proposed Non-FPO COG rate of \$1.2100 per therm is an increase of \$0.2608 or
14 27.5% from the winter 2019/2020 beginning rate of \$0.9492 per therm. The proposed
15 FPO rate is \$1.2300 per therm, representing an increase of \$0.2608 per therm or 26.9%
16 from last winter's fixed rate of \$0.9692.

17 **Q. What is the primary reasons for the change in rates?**

18 A. There are three main reasons for the increase in rates. Approximately \$0.19 of the \$0.26
19 increase is due to the change from over-collection from the prior period to an under-
20 collection for the current period. Approximately \$0.07 of the increase is due to the
21 annual \$72,222 of CNG demand charges from August 2017 through September 2019.

1 Finally, approximately \$0.05 of the increase in rates is due to a billing adjustment made
2 in May 2020 due to the faulty meter that had to be replaced for a large customer. The
3 remaining \$0.05 decrease is other.

4 **Q. What is the impact of the Winter 2020/2021 COG rate on the typical residential heat
5 and hot water customer participating in the FPO program?**

6 A. As shown on Schedule K-1, Column 7, lines 30 and 31, the typical residential heat and
7 hot water FPO customer would experience an increase of \$116.57 or 26.9% in the gas
8 component of their bills compared to the prior winter period. When the monthly
9 customer charge, therm delivery charge and LDAC are factored into the analysis, the
10 typical customer would see a total bill increase of \$135.69 or 17.2%, as shown on lines
11 37 and 38. The LDAC rate used in Schedule K-1, line 32 is the LDAC rate proposed in
12 the currently pending EnergyNorth COG Filing, Docket No. DG 20-141.

13 **Q. What is the impact of the Winter 2020/2021 COG rate on the typical residential heat
14 and hot water customer choosing the Non-FPO program?**

15 A. As shown on Schedule K-2, Column 7, lines 30 and 31, the typical residential heat and
16 hot water Non-FPO customer is projected to see an increase of \$173.02 or 47.0% in the
17 gas component of their bills compared to the prior winter period. When the monthly
18 customer charge, therm delivery charge and LDAC are factored into the analysis, the
19 typical customer would see a total bill increase of \$192.14 or 26.6% as shown on lines 37

1 and 38. The LDAC rate used in Schedule K-2, line 32 is the LDAC rate proposed in the
2 currently pending EnergyNorth COG Filing, Docket No. DG 20-141.

3 **Q. Please describe the impact of the Winter 2020/2021 COG rate on the typical**
4 **commercial customer compared to the prior winter period.**

5 A. Schedule L-1 illustrates that the typical commercial FPO customer would see a \$448.84
6 or 26.9% increase in the gas component of their bill and a 17.7% increase in their total
7 bill. Schedule L-2 shows that the typical commercial Non-FPO customer would see
8 increases of \$676.63 (48.1%) in the gas component of their bill and a 28.9% increase in
9 their total bill.

10 **V. OTHER ITEMS**

11 **Q. What is the status of the CNG conversion?**

12 A. The Company began serving customers with CNG in October 2019. Customers
13 experienced a smooth transition from propane service to CNG service. The service
14 territory for CNG is exclusive to the Monadnock Marketplace at this time. The current
15 contract with Xpress Natural Gas (XNG) will expire in June 2021. In order to ensure a
16 seamless transition from one CNG supplier to the next, if necessary, the Company has
17 sent out a solicitation for CNG bids for the time period commencing on July 2021. The
18 Company received several bids and is in the process of analyzing the results.

19 **Q. Please describe how the Company will meet its 7-day on-site storage requirement.**

20 A. The Company has net storage capacity at its plant in Keene for approximately 75,000
21 gallons of propane. Additionally, EnergyNorth has approximately 129,800 gallons of

1 propane (net of heel) at the Amherst storage facility located approximately 50 miles from
2 the Keene plant. This storage facility is partially shared between the Keene Division and
3 EnergyNorth. In addition, the Company will arrange its standard trucking commitment
4 with Northern Gas Transport, Inc. for transportation from this storage facility to the
5 Keene plant. Further, the Company has contracted for CNG deliveries to provide service
6 to a small section of its system. The firm trucking arrangement coupled with onsite CNG
7 trailers are more than sufficient to meet the 7-day demand requirement for those
8 customers being served exclusively by CNG for the 2020/2021 peak period.

9 **Q. Can you please discuss the impacts, if any, of COVID-19 and the current economic**
10 **uncertainties on the demand forecast for 2020/21?**

11 A. Although there is little definitive first-hand information pertaining to the impact of
12 COVID-19 on this upcoming winter forecast, the Company has been gathering and
13 assessing the impact as it unfolds. Early indicators suggest that the overall impact from
14 April through August has been a five percent decline in demand from actual to expected
15 demand. The Company will continue to monitor and assess the actual impact of COVID-
16 19 on sales and demand as more information becomes available and the efforts to reopen
17 the economy continue to evolve.

18 **Q. Does this conclude your testimony?**

19 A. Yes, it does.

NHPUC No 10 GAS
LIBERTY UTILITIES

Revised Proposed Twenty-seventh Revised Page 85
Superseding Twenty-Sixth Page 85

	Rates Effective November 1, 2020 - April 30, 2021 Winter Period Period				Rates Effective September 1, 2020 - October 31, 2020 Summer Period [1]			
	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 93</u>	<u>LDAC Page 97</u>	<u>Total Rate</u>	<u>Delivery Charge</u>	<u>Cost of Gas Rate Page 90</u>	<u>LDAC Page 97</u>	<u>Total Rate</u>
<u>Residential Non Heating - R-1</u>								
Customer Charge per Month per Meter	\$ 15.50			\$ 15.50	\$ 15.50			\$ 15.20
All therms	\$ 0.3860	\$ 1.2100	\$ 0.0589	\$ 1.6549	\$ 0.3860	\$ 0.7908	\$ 0.0310	\$ 0.9289
<u>Residential Heating - R-3</u>								
Customer Charge per Month per Meter	\$ 15.50			\$ 15.50	\$ 15.50			\$ 15.20
All therms over the first block per month at	\$ 0.5678	\$ 1.2100	\$ 0.0589	\$ 1.8367	\$ 0.5678	\$ 0.7908	\$ 0.0310	\$ 1.1072
<u>Residential Heating - R-4</u>								
Customer Charge per Month per Meter	\$ 8.53			\$ 8.53	\$ 6.20			\$ 6.08
All therms over the first block per month at	\$ 0.3123	\$ 0.6655	\$ 0.0589	\$ 1.0367	\$ 0.2272	\$ 0.7908	\$ 0.0310	\$ 0.7731
<u>Commercial/Industrial - G-41</u>								
Customer Charge per Month per Meter	\$ 57.46			\$ 57.46	\$ 57.46			\$ 56.36
Size of the first block	20 therms				20 therms			
Therms in the first block per month at	\$ 0.4711	\$ 1.2100	\$ 0.0555	\$ 1.7366	\$ 0.4711	\$ 0.7908	\$ 0.0478	\$ 1.0221
All therms over the first block per month at	\$ 0.3165	\$ 1.2100	\$ 0.0555	\$ 1.5820	\$ 0.3165	\$ 0.7908	\$ 0.0478	\$ 0.8704
<u>Commercial/Industrial - G-42</u>								
Customer Charge per Month per Meter	\$ 172.39			\$ 172.39	\$ 172.39			\$ 169.09
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	\$ 0.4284	\$ 1.2100	\$ 0.0555	\$ 1.6939	\$ 0.4284	\$ 0.7908	\$ 0.0478	\$ 0.9802
All therms over the first block per month at	\$ 0.2855	\$ 1.2100	\$ 0.0555	\$ 1.5510	\$ 0.2855	\$ 0.7908	\$ 0.0478	\$ 0.8400
<u>Commercial/Industrial - G-43</u>								
Customer Charge per Month per Meter	\$ 739.83			\$ 739.83	\$ 739.83			\$ 725.66
All therms over the first block per month at	\$ 0.1204	\$ 1.2100	\$ 0.0555	\$ 1.3859	\$ 0.1204	\$ 0.7908	\$ 0.0478	\$ 0.6781
<u>Commercial/Industrial - G-51</u>								
Customer Charge per Month per Meter	\$ 57.46			\$ 57.46	\$ 57.46			\$ 56.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	\$ 0.2839	\$ 1.2100	\$ 0.0555	\$ 1.5494	\$ 0.2839	\$ 0.7908	\$ 0.0478	\$ 0.8385
All therms over the first block per month at	\$ 0.1846	\$ 1.2100	\$ 0.0555	\$ 1.4501	\$ 0.1846	\$ 0.7908	\$ 0.0478	\$ 0.7411
<u>Commercial/Industrial - G-52</u>								
Customer Charge per Month per Meter	\$ 172.39			\$ 172.39	\$ 172.39			\$ 169.09
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	\$ 0.1767	\$ 1.2100	\$ 0.0555	\$ 1.4422	\$ 0.1767	\$ 0.7908	\$ 0.0478	\$ 0.7333
All therms over the first block per month at	\$ 0.1004	\$ 1.2100	\$ 0.0555	\$ 1.3659	\$ 0.1004	\$ 0.7908	\$ 0.0478	\$ 0.6585
<u>Commercial/Industrial - G-53</u>								
Customer Charge per Month per Meter	\$ 761.39			\$ 761.39	\$ 761.39			\$ 746.81
All therms over the first block per month at	\$ 0.0818	\$ 1.2100	\$ 0.0555	\$ 1.3473	\$ 0.0818	\$ 0.7908	\$ 0.0478	\$ 0.6402
<u>Commercial/Industrial - G-54</u>								
Customer Charge per Month per Meter	\$ 761.39			\$ 761.39	\$ 761.39			\$ 746.81
All therms over the first block per month at	\$ 0.0353	\$ 1.2100	\$ 0.0555	\$ 1.3008	\$ 0.0353	\$ 0.7908	\$ 0.0478	\$ 0.5946

DATED: October 31, 2020

EFFECTIVE: November 01, 2020

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck
TITLE: President

Authorized by NHPUC Order No xx,xxx dated October xx, 2020 in Docket No DG 20-xxx

NHPUC No 10 GAS
LIBERTY UTILITIES

Revised Proposed Twenty-seventh Revised Page 85
~~Twenty-sixth Revised Page 85~~
Superseding Twenty-Sixth Page 85
~~Twenty-fifth Revised Page 85~~

Rates Effective April 1, 2020 – April 30, 2020
Rates Effective November 1, 2020 - April 30, 2021
Winter Period Period

Rates Effective July 1, 2019 – October 31, 2019
Rates Effective September 1, 2020 - October 31, 2020
Summer Period [1]

	Delivery Charge	Cost of Gas Rate Page 93	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 90	LDAC Page 97	Total Rate
Residential Non Heating - R-1	\$ 15.20			\$ 15.20	\$ 15.20			\$ 15.20
Customer Charge per Month per Meter	\$ 15.50		\$ -0.0603	\$ 15.56	\$ 15.50			\$ 15.50
All therms	\$ 0.3860	\$ 1.2100	\$ 0.0589	\$ 1.6549	\$ 0.3860	\$ 0.7908	\$ 0.0310	\$ 1.2078
	\$ -0.3786	\$ -0.4408	\$ -0.0310	\$ -0.8504	\$ -0.3786	\$ -0.7908	\$ -0.0310	\$ -1.2004
Residential Heating - R-3	\$ 15.20			\$ 15.20	\$ 15.20			\$ 15.20
Customer Charge per Month per Meter	\$ 15.50		\$ -0.0603	\$ 15.56	\$ 15.50			\$ 15.50
All therms over the first block per month at	\$ 0.5678	\$ 1.2100	\$ 0.0589	\$ 1.8367	\$ 0.5678	\$ 0.7908	\$ 0.0660	\$ 1.4246
	\$ -0.5569	\$ -0.4408	\$ -0.0310	\$ -1.0287	\$ -0.5569	\$ -0.7908	\$ -0.0310	\$ -1.3787
Residential Heating - R-4	\$ 6.08			\$ 6.08	\$ 6.08			\$ 6.08
Customer Charge per Month per Meter	\$ 8.53		\$ -0.0603	\$ 8.59	\$ 6.20			\$ 6.20
All therms over the first block per month at	\$ 0.3123	\$ 1.2100	\$ 0.0589	\$ 1.5812	\$ 0.2272	\$ 0.7908	\$ 0.0310	\$ 1.0490
	\$ -0.2228	\$ -0.4408	\$ -0.0310	\$ -0.6946	\$ -0.2228	\$ -0.7908	\$ -0.0310	\$ -1.0446
Commercial/Industrial - G-41	\$ 56.36			\$ 56.36	\$ 56.36			\$ 56.36
Customer Charge per Month per Meter	\$ 57.46			\$ 57.46	\$ 56.36			\$ 56.36
Size of the first block	20 therms		\$ -0.0549		20 therms			
Therms in the first block per month at	\$ 0.4711	\$ 1.2100	\$ 0.0555	\$ 1.7366	\$ 0.4711	\$ 0.7908	\$ 0.0478	\$ 1.3097
	\$ -0.4621	\$ -0.4408	\$ -0.0478	\$ -0.9507	\$ -0.4621	\$ -0.7908	\$ -0.0478	\$ -1.3007
All therms over the first block per month at	\$ 0.3165	\$ 1.2100	\$ 0.0555	\$ 1.5820	\$ 0.3165	\$ 0.7908	\$ 0.0478	\$ 1.1551
	\$ -0.3104	\$ -0.4408	\$ -0.0478	\$ -0.7990	\$ -0.3104	\$ -0.7908	\$ -0.0478	\$ -1.1490
Commercial/Industrial - G-42	\$ 169.09			\$ 169.09	\$ 169.09			\$ 169.09
Customer Charge per Month per Meter	\$ 172.39			\$ 172.39	\$ 172.39			\$ 172.39
Size of the first block	1000 therms		\$ -0.0549		400 therms			
Therms in the first block per month at	\$ 0.4284	\$ 1.2100	\$ 0.0555	\$ 1.6939	\$ 0.4284	\$ 0.7908	\$ 0.0478	\$ 1.2670
	\$ -0.4202	\$ -0.4408	\$ -0.0478	\$ -0.9088	\$ -0.4202	\$ -0.7908	\$ -0.0478	\$ -1.2588
All therms over the first block per month at	\$ 0.2855	\$ 1.2100	\$ 0.0555	\$ 1.5510	\$ 0.2855	\$ 0.7908	\$ 0.0478	\$ 1.1241
	\$ -0.2800	\$ -0.4408	\$ -0.0478	\$ -0.7686	\$ -0.2800	\$ -0.7908	\$ -0.0478	\$ -1.1186
			\$ -0.0549					
Commercial/Industrial - G-43	\$ 725.66			\$ 725.66	\$ 725.65			\$ 725.65
Customer Charge per Month per Meter	\$ 739.83		\$ -0.0549	\$ 739.88	\$ 739.83			\$ 739.83
All therms over the first block per month at	\$ 0.1204	\$ 1.2100	\$ 0.0555	\$ 1.3859	\$ 0.1204	\$ 0.7908	\$ 0.0478	\$ 0.9590
	\$ -0.1184	\$ -0.4408	\$ -0.0757	\$ -0.6346	\$ -0.1184	\$ -0.7908	\$ -0.0478	\$ -0.9567
Commercial/Industrial - G-51	\$ 56.36			\$ 56.36	\$ 56.36			\$ 56.36
Customer Charge per Month per Meter	\$ 57.46			\$ 57.46	\$ 57.46			\$ 57.46
Size of the first block	100 therms		\$ -0.0549		100 therms			
Therms in the first block per month at	\$ 0.2839	\$ 1.2100	\$ 0.0555	\$ 1.5494	\$ 0.2839	\$ 0.7908	\$ 0.0478	\$ 1.1225
	\$ -0.2785	\$ -0.4408	\$ -0.0757	\$ -0.7950	\$ -0.2785	\$ -0.7908	\$ -0.0478	\$ -1.1171
All therms over the first block per month at	\$ 0.1846	\$ 1.2100	\$ 0.0555	\$ 1.4501	\$ 0.1846	\$ 0.7908	\$ 0.0478	\$ 1.0232
	\$ -0.1814	\$ -0.4408	\$ -0.0757	\$ -0.6976	\$ -0.1814	\$ -0.7908	\$ -0.0478	\$ -1.0197
			\$ -0.0549					
Commercial/Industrial - G-52	\$ 169.09			\$ 169.09	\$ 169.09			\$ 169.09
Customer Charge per Month per Meter	\$ 172.39			\$ 172.39	\$ 172.39			\$ 172.39
Size of the first block	1000 therms		\$ -0.0549		1000 therms			
Therms in the first block per month at	\$ 0.1767	\$ 1.2100	\$ 0.0555	\$ 1.4422	\$ 0.1767	\$ 0.7908	\$ 0.0478	\$ 1.0153
	\$ -0.1733	\$ -1.2654	\$ -0.0757	\$ -1.5444	\$ -0.1733	\$ -0.7908	\$ -0.0478	\$ -1.0419
All therms over the first block per month at	\$ 0.1004	\$ 1.2100	\$ 0.0555	\$ 1.3659	\$ 0.1004	\$ 0.7908	\$ 0.0478	\$ 0.9390
	\$ -0.0985	\$ -1.2654	\$ -0.0757	\$ -1.4393	\$ -0.0985	\$ -0.7908	\$ -0.0478	\$ -0.9371
Commercial/Industrial - G-53	\$ 746.84			\$ 746.84	\$ 746.84			\$ 746.84
Customer Charge per Month per Meter	\$ 761.39		\$ -0.0549	\$ 761.44	\$ 761.39			\$ 761.39
All therms over the first block per month at	\$ 0.0818	\$ 1.2100	\$ 0.0555	\$ 1.3473	\$ 0.0818	\$ 0.7908	\$ 0.0478	\$ 0.9204
	\$ -0.0802	\$ -1.2654	\$ -0.0757	\$ -1.4210	\$ -0.0802	\$ -0.7908	\$ -0.0478	\$ -0.9188
Commercial/Industrial - G-54	\$ 746.84			\$ 746.84	\$ 746.84			\$ 746.84
Customer Charge per Month per Meter	\$ 761.39		\$ -0.0549	\$ 761.44	\$ 761.39			\$ 761.39
All therms over the first block per month at	\$ 0.0353	\$ 1.2100	\$ 0.0555	\$ 1.3008	\$ 0.0353	\$ 0.7908	\$ 0.0478	\$ 0.8739
	\$ -0.0346	\$ -1.2654	\$ -0.0757	\$ -1.3754	\$ -0.0346	\$ -0.7908	\$ -0.0478	\$ -0.8732

DATED: October 31, 2020
~~DATED: June 24, 2020~~
EFFECTIVE: November 01, 2020
EFFECTIVE: July 01, 2020

ISSUED BY: /s/Susan L. Fleck

TITLE: President

Authorized by NHPUC Order No. xx,xxx dated October xx, 2020 in Docket No. DG 20-xxx
Authorized by NHPUC Order 26,351 dated April 30, 2020 in Docket No. 20-041, see complete revised Order 26,351 (05/01/20)

REDACTED
REVISED SCHEDULE A

LIBERTY UTILITIES - KEENE DIVISION

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

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

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LIBERTY UTILITIES - KEENE DIVISION

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

	PRIOR	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	TOTAL
PROPANE COSTS								
1 PROPANE FIRM SENDOUT (therms)								
2 COMPANY USE (therms)								
3 TOTAL PROPANE SENDOUT (therms)								
4 COST PER THERM (WACOG)		\$0.8606	\$0.8923	\$0.9074	\$0.9161	\$0.9864	\$0.9414	
5 TOTAL CALCULATED COST OF PROPANE		\$120,436	\$180,805	\$212,874	\$176,615	\$152,296	\$85,128	\$928,154
6 PROPANE ADJUSTMENTS		\$0	\$0	\$0	\$0	\$0	\$0	\$0
7 TOTAL COST OF PROPANE		\$120,436	\$180,805	\$212,874	\$176,615	\$152,296	\$85,128	\$928,154
CNG COSTS								
8 CNG SENDOUT (therms)								
9 COST PER THERM (WACOG)								
10 TOTAL CALCULATED COST OF CNG								
11 CNG DEMAND CHARGES								
12 CNG ADJUSTMENTS -Demand Charges Aug 2017 - Sep 2019								
13 TOTAL CNG COSTS								
14 ACCOUNTING ADJUSTMENT		\$0	\$0	\$0	\$0	\$0	\$0	\$0
15 FPO PREMIUM		(\$584)	(\$829)	(\$929)	(\$813)	(\$678)	(\$378)	(\$4,211)
16 TOTAL COSTS OF GAS								
17 RETURN ON INVENTORY		\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$2,354	\$14,126
REVENUES								
18 BILLED FPO SALES (therms)		0	0	0	0	0	0	
19 COG FPO RATE		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
		\$0	\$0	\$0	\$0	\$0	\$0	\$0
20 BILLED NON-FPO SALES PRIOR MONTH (therms)		0	0	0	0	0	0	
21 COG NON-FPO RATE PRIOR MONTH		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
		\$0	\$0	\$0	\$0	\$0	\$0	\$0
22 BILLED NON-FPO SALES CURRENT MONTH (therms)		153,781	218,228	244,463	213,913	178,455	99,579	1,108,419
23 COG NON-FPO RATE CURRENT MONTH		\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	
		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,177
24 BILLED SALES OTHER PRIOR PERIODS		0	0	0	0	0	0	
25 COG OTHER PRIOR PERIODS BLENDED RATE		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
		\$0	\$0	\$0	\$0	\$0	\$0	\$0
26 TOTAL SALES		153,781	218,228	244,463	213,913	178,455	99,579	1,108,419
27 TOTAL BILLED REVENUES		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,178
28 UNBILLED REVENUES (NET)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
29 TOTAL REVENUES		\$186,074	\$264,054	\$295,798	\$258,833	\$215,929	\$120,490	\$1,341,178
30 (OVER)/UNDER COLLECTION		(\$14,078)	(\$12,657)	(\$1,614)	(\$8,731)	(\$3,789)	\$10,642	(\$30,225)
31 INTEREST AMOUNT		\$63	\$27	\$7	(\$7)	(\$24)	(\$14)	\$52
32 FINAL (OVER)/UNDER COLLECTION	\$30,171	(\$14,015)	(\$12,630)	(\$1,607)	(\$8,738)	(\$3,813)	\$10,628	(\$2)

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

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

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LIBERTY UTILITIES - KEENE DIVISION

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

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

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

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
12 MONTHS ENDED 04/2020	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$91.20	\$15.02	\$15.02	\$15.20	\$15.20	\$15.20	\$15.20	\$90.84	\$182.04
Delivery Charge:															
All therms @ \$0.5569 \$0.5502	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.26	\$9.90	\$5.01	\$3.90	\$4.46	\$6.68	\$49.21	\$298.15
Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.28	\$24.92	\$20.21	\$19.10	\$19.66	\$21.88	\$140.05	\$480.19
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COG Rates	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$0.9692	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.8928	
Cost of Gas Total	\$37.80	\$66.87	\$78.51	\$99.83	\$86.26	\$63.97	\$433.24	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$512.70
LDAC Rates	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	
LDAC Total	\$1.21	\$2.14	\$2.51	\$3.19	\$2.76	\$2.05	\$13.86	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87	\$19.73
Total Bill	\$76	\$123	\$141	\$176	\$154	\$118	\$787	\$75	\$44	\$29	\$25	\$24	\$28	\$225	\$1,013
12 MONTHS ENDED 04/2021	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2020 7/1/2019 - 6/30/202	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.20	\$15.20	\$15.50	\$15.50	\$15.50	\$15.50	\$92.40	\$185.40
Delivery Charge:															
All therms @ \$0.5678 \$0.5569	\$22.14	\$39.18	\$45.99	\$58.48	\$50.53	\$37.47	\$253.79	\$19.49	\$10.02	\$5.11	\$3.97	\$4.54	\$6.81	\$49.94	\$303.73
Base Delivery Revenue Total	\$37.64	\$54.68	\$61.49	\$73.98	\$66.03	\$52.97	\$346.79	\$34.69	\$25.22	\$20.61	\$19.47	\$20.04	\$22.31	\$142.34	\$489.13
Seasonal Base Delivery Difference from previous year							\$6.65							\$2.29	\$8.94
Seasonal Percent Change from previous year							2.0%							1.6%	1.9%
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COG Rates	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$1.2300	\$0.6326	\$0.6816	\$0.7908	\$0.7908	\$0.7908	\$0.7908	\$0.7066	
Cost of Gas Total	\$47.97	\$84.87	\$99.63	\$126.69	\$109.47	\$81.18	\$549.81	\$22.14	\$12.27	\$7.12	\$5.54	\$6.33	\$9.49	\$62.89	\$612.70
Seasonal COG Difference from previous year							\$116.57							-\$16.57	\$100.00
Seasonal Percent Change from previous year							26.9%							-20.9%	19.5%
LDAC Rates	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	
LDAC Total	\$2.30	\$4.06	\$4.77	\$6.07	\$5.24	\$3.89	\$26.33	\$1.09	\$0.56	\$0.28	\$0.22	\$0.25	\$0.37	\$2.77	\$29.10
Seasonal LDAC Difference from previous year							\$12.47							-\$3.10	\$9.37
Seasonal Percent Change from previous year							90.0%							-52.8%	47.5%
Total Bill	\$88	\$144	\$166	\$207	\$181	\$138	\$923	\$58	\$38	\$28	\$25	\$27	\$32	\$208	\$1,131
Seasonal Total Bill Difference from previous year							\$135.69							-\$17.38	\$118.31
Seasonal Percent Change from previous year							17.2%							-7.7%	11.7%
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.)							0.8%							1.0%	0.9%
Seasonal Percent Change resulting from COG							14.8%							-7.4%	9.9%
Seasonal Percent Change resulting from LDAC							1.6%							-1.4%	0.9%

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

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

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
12 MONTHS ENDED 04/2020															
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2019 - 6/30/2020 5/1/2019 - 6/30/19	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$15.20	\$91.20	\$15.02	\$15.02	\$15.20	\$15.20	\$15.20	\$15.20	\$90.84	\$182.04
Delivery Charge:															
All therms @ \$0.5569 \$0.5502	\$21.72	\$38.43	\$45.11	\$57.36	\$49.56	\$36.76	\$248.94	\$19.26	\$9.90	\$5.01	\$3.90	\$4.46	\$6.68	\$49.21	\$298.15
Base Delivery Revenue Total	\$36.92	\$53.63	\$60.31	\$72.56	\$64.76	\$51.96	\$340.14	\$34.28	\$24.92	\$20.21	\$19.10	\$19.66	\$21.88	\$140.05	\$480.19
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COG Rates	\$0.9492	\$0.9492	\$0.9686	\$0.9352	\$0.6906	\$0.4408	\$0.8229	\$1.1071	\$1.0063	\$0.8854	\$0.7068	\$0.4843	\$0.4843	\$0.8928	
Cost of Gas Total	\$37.02	\$65.49	\$78.46	\$96.33	\$61.46	\$29.09	\$367.85	\$38.75	\$18.11	\$7.97	\$4.95	\$3.87	\$5.81	\$79.46	\$447.31
LDAC Rates	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	\$0.0660	
LDAC Total	\$1.21	\$2.14	\$2.51	\$3.19	\$2.76	\$2.05	\$13.86	\$2.31	\$1.19	\$0.59	\$0.46	\$0.53	\$0.79	\$5.87	\$19.73
Total Bill	\$75	\$121	\$141	\$172	\$129	\$83	\$722	\$75	\$44	\$29	\$25	\$24	\$28	\$225	\$947
12 MONTHS ENDED 04/2021															
Typical Usage - therms (1)	39	69	81	103	89	66	447	35	18	9	7	8	12	89	536
Residential Heating R-3															
Customer Charge 7/1/2020 7/1/2019 - 6/30/2020	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$93.00	\$15.20	\$15.20	\$15.50	\$15.50	\$15.50	\$15.50	\$92.40	\$185.40
Delivery Charge:															
All therms @ \$0.5678 \$0.5569	\$22.14	\$39.18	\$45.99	\$58.48	\$50.53	\$37.47	\$253.79	\$19.49	\$10.02	\$5.11	\$3.97	\$4.54	\$6.81	\$49.94	\$303.73
Base Delivery Revenue Total	\$37.64	\$54.68	\$61.49	\$73.98	\$66.03	\$52.97	\$346.79	\$34.69	\$25.22	\$20.61	\$19.47	\$20.04	\$22.31	\$142.34	\$489.13
Seasonal Base Delivery Difference from previous year							\$6.65							\$2.29	\$8.94
Seasonal Percent Change from previous year							2.0%							1.6%	1.9%
Deferred Revenue Surcharge Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenue Surcharge Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COG Rates	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$1.2100	\$0.6326	\$0.6816	\$0.7908	\$0.7908	\$0.7908	\$0.7908	\$0.7066	
Cost of Gas Total	\$47.19	\$83.49	\$98.01	\$124.63	\$107.69	\$79.86	\$540.87	\$22.14	\$12.27	\$7.12	\$5.54	\$6.33	\$9.49	\$62.89	\$603.76
Seasonal COG Difference from previous year							\$173.02							-\$16.57	\$156.45
Seasonal Percent Change from previous year							47.0%							-20.9%	35.0%
LDAC Rates	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0589	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.0310	\$0.03	
LDAC Total	\$2.30	\$4.06	\$4.77	\$6.07	\$5.24	\$3.89	\$26.33	\$1.09	\$0.56	\$0.28	\$0.22	\$0.25	\$0.37	\$2.77	\$29.10
Seasonal LDAC Difference from previous year							\$12.47							-\$3.10	-\$19.73
Seasonal Percent Change from previous year							3.4%							-3.9%	-4.4%
Total Bill	\$87	\$142	\$164	\$205	\$179	\$137	\$914	\$58	\$38	\$28	\$25	\$27	\$32	\$208	\$1,122
Seasonal Total Bill Difference from previous year							\$192.14							-\$17.38	\$174.76
Seasonal Percent Change from previous year							26.6%							-7.7%	18.4%
Seasonal Percent Change resulting from Base Rates (incl. Def. Revenue Surch.)							0.9%							1.0%	0.9%
Seasonal Percent Change resulting from COG							24.0%							-7.4%	16.5%
Seasonal Percent Change resulting from LDAC							1.7%							-1.4%	-2.1%

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

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

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

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

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