

STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION

Docket No. DG 24-106

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Winter 2024/2025 Cost of Gas and Summer 2025 Cost of Gas

DIRECT TESTIMONY

OF

ROBERT GARCIA

AND

ALYSSA E. MASTON

October 16, 2024



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1 **I. INTRODUCTION**

2 **Q. What are your full names, business addresses, and positions?**

3 A. (RG) My name is Robert Garcia. My business address is 15 Buttrick Road,
4 Londonderry, New Hampshire. My title is Manager, Rates and Regulatory Affairs.

5 (AM) My name is Alyssa E. Maston. My business address is 15 Buttrick Road,
6 Londonderry, New Hampshire. My title is Rates Analyst II, Rates and Regulatory
7 Affairs.

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

9 A. We are employed by Liberty Utilities Service Corp. (“LUSC”), which provides services
10 to Liberty Utilities (Granite State Electric) Corp d/b/a Liberty (“Liberty” or the
11 “Company”).

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

13 A. We are testifying on behalf of the Company.

14 **Q. Mr. Garcia, would you describe your educational and professional background and
15 training?**

16 A. I have an Artium Baccalaureus (Bachelor of Arts) degree in Political Science and French
17 from Wabash College (Crawfordsville, Indiana) and a Master of Public Administration
18 degree from the School of Public and Environmental Affairs at Indiana University
19 (Bloomington, Indiana) with concentrations in Policy (Quantitative) Analysis and
20 International Affairs. I also obtained a Certificat De Langue Et Civilisation Française
21 from the Université de Paris – Sorbonne (Paris, France) and, as part of my graduate

1 studies, studied French and European government at the École Nationale
2 D'Administration (Paris, France).

3 I was employed by ComEd from April 2001 to March 2023. I began my employment
4 with ComEd in the Regulatory Department as a Regulatory Specialist and moved on to
5 the positions of Senior Regulatory Specialist in 2004, Manager of Regulatory Strategies
6 and Solutions in 2008, and Director of Regulatory Strategy and Services in 2013 before
7 assuming my last position as Director of Regulatory Innovation & Initiatives in 2021.

8 Prior to joining ComEd, I worked for nearly nine years at the Illinois Commerce
9 Commission, beginning in 1992 as an intern in what was then the Office of Policy and
10 Planning and ending in 2001 as the senior policy advisor to a Commissioner. I initially
11 joined the Commission Staff through the James H. Dunn Memorial Fellowship program,
12 a one-year program sponsored by the Office of the Governor. Through this Fellowship, I
13 also held short-term positions in the Bureau of the Budget and the Governor's Legislative
14 Office.

15 **Q. Ms. Maston, would you describe your educational background, and your business
16 and professional experience?**

17 A. I graduated from Southern New Hampshire University in 2019 with a Bachelor of
18 Science degree in Accounting, and earned my Masters in Professional Accountancy from
19 the same institution in 2020. I have held an active Certified Public Accountant ("CPA")
20 license since 2022. I joined Liberty in August 2023. Prior to joining Liberty, I was
21 employed by Baker Newman Noyes, a public accounting firm, from 2020 through 2022. I

1 held positions as an Audit Senior and Audit Staff, and was responsible for performing
2 financial audits of companies in a large range of industries, such as banking and
3 healthcare.

4 **Q. Have you previously testified in regulatory proceedings before the New Hampshire**
5 **Public Utilities Commission (the “Commission”)?**

6 A. Yes, we have.

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

8 A. Our testimony submits for Commission approval the Company’s updated firm sales Cost
9 of Gas rates for the 2024/2025 Winter (or Peak) Period and 2025 Summer (or Off-Peak)
10 Period. In addition, Liberty seeks approval to modify the letter informing customers of
11 the Fixed Price Option (“FPO”) for use next year (2025/2026 winter period) in order to
12 mitigate the issues that arise when the approved FPO rate varies substantially from the
13 FPO rate initially communicated to customers, which has occurred in recent years. Per
14 the guidelines adopted in Docket No. 23-027, Liberty believes approval of this new letter
15 and any other issues that may be raised concerning the FPO may be “carved out” and
16 addressed in a separate phase of this proceeding, as a decision is not needed before
17 November 1, 2024.

18 The updates made to this testimony are in response to the items noted in the New
19 Hampshire Department of Energy Technical Statement of Ashraful Alam and Bruce L.
20 Blair that was filed in Docket No. DG 24-106 on October 14, 2024. The impact of these
21 corrections is not material, but do cause a very modest change in the proposed rates.

1 **Q. Can you summarize the proposed rates?**

2 A. The table below provides a summary of all rates proposed in this testimony, along with
3 comparison to the rates approved for the previous rate year.

	Rates Effective November 1, 2023 (Order No. 26,898)	November 1, 2024, Proposed Rate	Change	% Change
Residential	\$0.7563	\$0.6786	\$(0.0777)	(10)%
Residential (GAP)	\$0.4160	\$0.3732	\$(0.0428)	(10)%
C&I – LLF (High winter use)	\$0.7561	\$0.6786	\$(0.0775)	(10)%
C&I – HLF (Low winter use)	\$0.7573	\$0.6789	\$(0.0784)	(10)%
Residential FPO	\$0.7763	\$0.6986	\$(0.0777)	(10)%
Residential FPO (GAP)	\$0.4270	\$0.3842	\$(.0428)	(10)%
Transportation	\$0.0018	\$.0014	\$(0.0004)	(22)%
	Rates Effective May 1, 2024 (Order No. 26,898)	May 1, 2025, Proposed Rate	Change	% Change
Residential	\$0.0187	\$0.0722	\$0.0535	286%
C&I – LLF (High winter use)	\$0.0181	\$0.0722	\$0.0541	299%
C&I – HLF (Low winter use)	\$0.0193	\$0.0723	\$0.0530	275%

6 **Q. Are there any schedules and attachments included in your testimony?**

7 A. Yes. The table below lists the schedules and attachment included in our testimony.

Schedule	Description
Pk Summary	Cost of Gas Summary
Pk Schedule 3	COG, Working Capital, and Bad Debt (Over)/Under Cumulative Recovery Balances and Interest Calculation
Pk Schedule 4	Adjustments to Gas Costs

Pk Schedule 8	Annual Bill Comparisons
Pk Schedule 9	Variance Analysis of the Components of the Winter 2023-2024 Actual Results vs Proposed Winter 2024-2025 Cost of Gas Rate
Pk Schedule 13	Load Migration From Sales to Transportation in the C&I High and Low Winter Use Classes
Pk Schedule 14	Delivered Costs of Winter Supplies to Pipeline Delivered Supplies from the Prior Year
Pk Schedule 15	July and August Consumption of C&I High and Low Winter Classes as a Percentage of Their Annual Consumption
Pk Schedule 17	Forecast of Firm Transportation Volumes and Cost of Gas Revenues
Pk Schedule 23	Fixed Price Option (FPO) Historical Summary
Pk Schedule 24	Short-Term Debt Limitations
Pk Schedule 25	Company Allowance and Lost and Unaccounted For Gas (LAUF) Calculation
Pk Schedule 26	Fuel Inventory Revenue Requirement
OP Summary	Cost of Gas Summary
OP Schedule 3	COG, Working Capital, and Bad Debt (Over)/Under Cumulative Recovery Balances and Interest Calculation
OP Schedule 4	Adjustments to Gas Costs
OP Schedule 8	Annual Bill Comparisons
Attachment 1	2024 FPO Letter
Attachment 2	Proposed FPO Letter (2025/2026 and beyond)
Attachment 3	Illustrative Clean and Redlined Tariff Pages

1 **Q. Has Liberty made any changes to the aforementioned schedules?**

2 A. Yes. Liberty has made several revisions to the Excel-based model underlying the
3 attached schedules in order to improve accuracy and transparency, which will lead to
4 more efficient processes for everyone. The model used in Docket No. DG 23-076 and
5 previous dockets to create the schedules and calculate the Cost of Gas had grown to

1 include duplicative information that is no longer useful and made updates and reviews
2 difficult. Note that for ease of reference, the previously used schedule numbers were
3 retained, and the list of schedule numbers reflected in the table above appear
4 nonsequential due to the bifurcation of the annual LDAC review from the COG review.

5 Many schedules were not changed at all, while others were revised, reformatted, or
6 removed. The schedules that were removed include Pk (peak) and OP (off-peak)
7 Schedules 1, 2, and 7, which all contained duplicative data that can be found on the
8 remaining Pk and OP Schedules 5 and 6. OP Schedules 10B and 12 were also removed,
9 as they were exact duplicates of the Pk Schedules 10B and 12, which remain in the
10 current model. Pk and OP Schedules 4, 10A, and 11, as well as Pk Schedules 21 and 22
11 were all reformatted to span fewer tabs and flow in a simpler way.

12 Pk and OP Schedule 3 were revised slightly to simplify the presentation of the interest
13 calculation. Pk Schedule 16 was also revised to remove the unused inventory financing
14 charge calculation, which is calculated on Pk Schedule 26.

15 The Company met with the Department of Energy and the Office of the Consumer
16 Advocate ahead of this filing to provide an overview of the changes made in this filing.

17 **Q. Were any changes made to how costs are allocated?**

18 A. Yes. The most significant revision to the schedules can be found on Pk and OP
19 Schedules 5 and 6. These schedules contain the detail of the estimated unadjusted gas
20 costs that are the basis for the initial Cost of Gas rate calculation.

1 The estimated demand costs on Pk and OP Schedule 5 were previously allocated between
2 peak and off-peak manually on a contract basis, with certain pipeline contracts allocated
3 entirely to the peak season and others split between peak and off-peak based on when the
4 costs were estimated to be incurred. This approach was not necessarily reflective of when
5 the gas was actually used season to season. Therefore, the Company has created an
6 allocation factor based on a ratio of projected sales volumes to allocate estimated pipeline
7 demand costs between the peak and off-peak season. The Company calculated the
8 percentage of the firm sales projected on Pk Schedule 10B that were attributable to the
9 off-peak season and used that percentage to allocate the demand costs expected to be
10 incurred during the off-peak season, with the difference allocated to the peak season. All
11 costs that are expected to be incurred solely in the peak season are still included in the
12 peak season. The result of this change is that just over \$2.5M in pipeline demand costs
13 that previously would have been included in the off-peak Cost of Gas are now included in
14 the peak Cost of Gas, which is more representative of historical usage.

15 On Pk and OP Schedule 6 (Supply and Commodity Costs), all pipeline costs are included
16 in the Cost of Gas for the season in which they are incurred, as they were previously.
17 However, the Company is now including 100% of the estimated storage and produced
18 gas supply and commodity costs in the peak cost of gas because the peak season is when
19 the stored and produced gas is intended to be used. This change results in about \$90,000
20 in costs that would have previously been included in the off-peak Cost of Gas now being
21 included in the peak Cost of Gas. These costs have been removed from OP Schedule 6 to

1 simplify the schedule. All of these changes were made to increase the accuracy of the
2 estimated costs for each season.

3 **II. WINTER 2024/2025 COST OF GAS FACTOR**

4 **Q. What are the proposed firm Winter sales and firm transportation Cost of Gas**
5 **rates?**

6 A. The Company proposes a firm sales Cost of Gas rate of \$0.6786 per therm for residential
7 customers, \$0.6786 per therm for commercial and industrial high winter use customers,
8 and \$0.6789 per therm for commercial and industrial low winter use customers. The
9 Company proposes a firm transportation Cost of Gas rate of \$0.0014 per therm.

10 **Q. Please explain tariff page Illustrative Nineteenth Revised Page 95.**

11 A. Illustrative Nineteenth Revised Page 95 in Attachment 3 contains the calculation of the
12 2024/2025 winter period Cost of Gas Rate and summarizes the Company's forecast of
13 firm gas costs and firm gas sales. As shown on tariff Page 95, the proposed 2024/2025
14 Average Cost of Gas of \$0.6786 per therm is derived by adding the Direct Cost of Gas
15 Rate of \$0.6255 per therm to the Indirect Cost of Gas Rate of \$0.0531 per therm. The
16 estimated total Anticipated Direct Cost of Gas, derived on Illustrative Nineteenth Revised
17 Page 95, is \$55,600,306. The estimated Indirect Cost of Gas, shown on Page 95, is
18 \$4,718,363. The Direct Cost of Gas Rate of \$0.6255 and the Indirect Cost of Gas Rate of
19 \$0.0531 are determined by dividing each of these total cost figures by the projected
20 winter period firm sales volumes of 88,888,172 therms.

1 To calculate the total Anticipated Direct Cost of Gas, the Company adds a list of
2 allowable adjustments from deferred gas cost accounts to the projected demand and
3 commodity costs for the winter period supply portfolio. These allowable adjustments,
4 shown on Illustrative Fourth Revised Page 96, total \$(2,327,171). These adjustments are
5 added to the Unadjusted Anticipated Cost of Gas of \$57,927,477 to determine the Total
6 Anticipated Direct Cost of Gas of \$55,600,306.

7 **Q. What are the components of the Unadjusted Anticipated Cost of Gas?**

8 A. The Unadjusted Anticipated Cost of Gas shown in Attachment 3 on Illustrative Fourth
9 Page 96 consists of the following components:

10	1. Purchased Gas Demand Costs	\$13,277,648
11	2. Purchased Gas Commodity Costs	40,009,791
12	3. Storage Demand and Capacity Costs	846,659
13	4. Storage Commodity Costs	4,210,226
14	5. Produced Gas Cost	4,078,054
15	Hedge Underground Storage Contract (saving)/Loss	<u>(4,494,900)</u>
16	Total	<u>\$57,927,477</u>

17 **Q. What are the components of the allowable adjustments to the Cost of Gas?**

18 A. The allowable adjustments to gas costs, listed on Illustrative Fourth Revised Page 96 in
19 Attachment 3, are as follows:

20	1. Deferred Gas Cost Prior Period (Over)/Under Collection	\$306,763
21	2. Interest	180,337
22	3. Accounting Adjustments	23,633
23	4. Gas Assistance Program	(618,933)
24	5. Fuel Inventory Revenue Requirement	462,146
25	6. Broker Revenues	30,408
26	7. Transportation COG Revenue	62,123
27	8. Capacity Release Margin	(2,836,642)
28	9. Fixed Price Option Administrative Costs	<u>62,993</u>
29	Total Adjustments	<u>\$(2,327,171)</u>

1 These allowable adjustments are standard adjustments made to the deferred gas cost
2 balance through the operation of the Company's Cost of Gas adjustment clause.

3 **Q. How does the proposed average Cost of Gas rate in this filing compare to the**
4 **average Cost of Gas rate approved by the Commission in Docket No. DG 23-076 for**
5 **the 2023/2024 winter period?**

6 A. The table below contains the comparison of the Cost of Gas rate approved in Docket No.
7 DG 23-076, to the proposed rate in this filing.

	Rates Effective November 1, 2023 (Order No. 26,898)	November 1, 2024, Proposed Rate	Change	% Change
Residential – R3	\$0.7563	\$0.6786	\$(0.0777)	(10)%
C& I - G41	\$0.7561	\$0.6786	\$(0.0775)	(10)%
C&I - G42	\$0.7561	\$0.6786	\$(0.0775)	(10)%
C& I - G52	\$0.7573	\$0.6789	\$(0.0784)	(10)%

8
9 **Q. How does the proposed firm transportation winter Cost of Gas rate compare to the**
10 **rate approved by the Commission for the 2023/2024 winter period?**

11 A. The proposed firm transportation winter Cost of Gas rate is \$0.0014 per therm. The rate
12 approved in Docket No. DG 23-076 was \$0.0018 per therm. There is a \$0.0004 decrease
13 in the firm transportation rate. The decrease is primarily due to a decrease in anticipated
14 gas costs. Market changes are discussed in more detail in the Testimony of Mr. Tilbury,
15 Mrs. Esposito, and Mr. Summerfield.

	Rates Effective November 1, 2023 (Order No. 26,898)	November 1, 2024, Proposed Rate	Change	% Change
Transportation	\$0.0018	\$0.0014	\$(0.0004)	(22)%

1

2 **Q. In the calculation of the firm transportation winter Cost of Gas rate, has the**
3 **Company updated the estimated percentage used for pressure support purposes?**

4 A. No. The estimated percentage used for pressure support purposes of 8.7% stayed the
5 same based on the marginal cost study used for the rate design approved in Docket No.
6 DG 20-105.

7 **Q. Did the Company include a fuel inventory revenue requirement calculation in this**
8 **filing?**

9 A. Yes. The calculation is provided on Pk Schedule 26. The Company proposes to collect
10 \$462,146 in fuel inventory revenue requirement consistent with the approved rate of
11 return in Order No. 26,505 (July 30, 2021) in Docket No. DG 20-105. The impact of this
12 amount on the overall Cost of Gas rate is \$0.0052 per therm, which is determined by
13 dividing the \$462,146 by the estimated November 2024 through April 2025 COG sales
14 volumes of 88,888,172 therms.

15 **Q. How was the statutory tax rate of 27.08% on Schedule 26 calculated?**

16 A. Liberty calculated the statutory rate of 27.08% by using a 21% federal tax rate and a
17 7.7% tax rate for the State of New Hampshire in the following equation: $(0.21 + 0.077 -$
18 $(0.21 \times 0.077) = 0.27083$).

1 **Q. How was the common equity pre-tax rate of 6.64% on Schedule 26 calculated?**

2 A. The common equity pre-tax rate of 6.64% was calculated by dividing the 9.30% rate of
3 return on common equity, approved in Docket No. DG 20-105, by 0.72917 (1 – 0.27083)
4 and multiplied by 52.00% (equity component of the capital structure approved in DG 20-
5 105) [0.093 / 0.72917 x 0.5200 = 0.06664].

6 **Q. Has the bad debt percentage in this filing of 0.23% changed from the bad debt
7 percentage calculated in the Winter 2022/2023 Cost of Gas Reconciliation?**

8 A. Yes. The Company calculated a bad debt percentage of 1.99% for the period of May
9 2023 – April 2024. The bad debt percentage that was calculated in the Winter 2022/2023
10 Cost of Gas Reconciliations for the period of May 2022 – April 2023 was 0.23%.

	Approved Rate Docket No. DG 23-076	Proposed Rate	% Change
Bad Debt %	0.23%	1.99%	765.22%

11

12 **Q. What was the actual weighted average firm sales Cost of Gas rate for the 2023/2024
13 winter period?**

14 A. The weighted average Cost of Gas rate was \$0.6249 per therm. This was calculated by
15 applying the actual monthly Cost of Gas rates for November 2023 through April 2024 to
16 the monthly therm usage of an average residential heating customer using 640 therms for
17 the six winter period months. The table below shows the various rate classes and their
18 changes from last winter:

	Average COG Rate Winter 2023/2024	Proposed Rate	Change	% Change
Residential – R3	\$0.6249	\$0.6786	\$0.0537	9%
C& I - G41	\$0.6292	\$0.6786	\$0.0494	8%
C&I - G42	\$0.6261	\$0.6786	\$0.0525	8%
C& I - G52	\$0.6127	\$0.6789	\$0.0662	11%

1

2 **Q. What is the current percentage used to calculate the maximum increase in the Cost**
3 **of Gas rate?**

4 A. The current percentage used to calculate the maximum allowed increase to the Cost of
5 Gas rate through the monthly “trigger” filings is 25% for both the Winter and Summer
6 period Cost of Gas rates.

7 **III. FIXED PRICE OPTION**

8 **Q. Has the Company established a winter period fixed price for the Fixed Price Option**
9 **Program?**

10 A. Yes. Pursuant to Order No. 24,515 (Sept. 16, 2005) in Docket No. DG 05-127, the FPO
11 rates are set by adding \$0.0200 per therm to the initial proposed COG rate. Applying that
12 calculation, Illustrative Fourth Revised Page 94 in Attachment 3 contains the proposed
13 FPO rate for the 2024/2025 Winter Period of \$0.6986 per therm for residential customers.
14 This compares to the FPO rate approved for the 2023/2024 Winter Period of \$0.7763 per
15 therm for residential customers. This represents a decrease of \$0.0777 per therm or 10%
16 in the residential FPO rate. The total bill impact on the winter period bills for an average

1 FPO heating customer using 640 therms is a decrease of approximately \$22.81 or 2%
2 compared to last winter's approved FPO rate. Pk Schedule 23 contains the historical
3 results of the FPO program.

	Winter 2023/2024 FPO Bill Impact	Winter 2023/2024 Non-FPO Bill Impact
Residential - R3	\$(22.81) or (2)%	\$61.31 or 6%

4
5 **Q. Has the Company provided a copy of the letter it intends to send customers**
6 **informing them of the FPO option for the 2024/2025 winter period?**

7 A. Yes. As agreed during the October 19, 2023, hearings in Docket Nos. DG 23-076 and
8 DG 23-084, a copy of the letter is provided in Attachment 1. It is essentially the same
9 letter as provided in those cases last year, but with updated rates.

10 **Q. Does the Company propose any modifications to the FPO letter for use in future**
11 **winter period mailings?**

12 A. Yes. In light of circumstances that caused Liberty to substantially alter its proposed Non-
13 FPO and FPO rates after the letters were sent to customers in recent years (*e.g.*, dramatic
14 increase in gas prices precipitated by the invasion of Ukraine and a booking error
15 discovered shortly before last year's hearing) resulting in the need to send a second set of
16 FPO letters with updated FPO rates, Liberty seeks approval to use the draft letter set forth
17 in Attachment 2 beginning next year, for the winter period 2025/2026 FPO mailing. The
18 key change is that the proposed letter does not include the FPO rate proposed at the time
19 of the mailing, but simply states that the FPO rate will be two cents higher than the

1 approved COG rate, thereby emphasizing the 2-cent per them premium that participating
2 customers will pay for the six-months of price certainty. If this change is approved for
3 the 2025-2026 winter, then in advance of the winter 2026-2027 filing, Liberty will review
4 its findings (*e.g.*, impact on enrollments, customer inquiries) with the Department of
5 Energy and Office of the Consumer Advocate and determine whether to continue using
6 the revised letter.

7 Per the guidelines adopted in Docket No. 23-027, the Company recommends that this
8 matter be addressed in a separate phase of this docket, along with any other changes that
9 may be proposed to the FPO.

10 **IV. SHORT TERM DEBT LIMIT**

11 **Q. Has the Company updated its Short Term Debt Limit for the period November 2024**
12 **through October 2025?**

13 A. Yes. In Order No. 24,824 (Feb. 29, 2008) the Commission authorized Liberty to have a
14 short-term debt limit for fuel purposes set at 30 percent of the Company's total gas costs.
15 In Pk Schedule 24, the Company has calculated the short-term debt limit for fuel
16 purposes for the upcoming year to be \$18,112,871.

1 **V. COMPANY GAS ALLOWANCE**

2 **Q. Has the Company also updated its Company Gas Allowance percentage for the**
3 **period November 2024 through October 2025 in accordance with Section 8 of the**
4 **Company's Delivery Terms and Conditions?**

5 A. Yes, in Pk Schedule 25 the Company has recalculated its Company Gas Allowance for
6 the period November 2024 through October 2025. The Company calculated the
7 Company Allowance of 2.64% based on sendout and throughput data for the twelve
8 months ending June 2024. The Company proposes to apply this recalculated Company
9 Gas Allowance to all supplier deliveries beginning in November 2024.

10 **VI. OTHER TARIFF CHANGES**

11 **Q. Is the Company proposing to update its Delivery Terms and Conditions?**

12 A. Yes. The Company is submitting Illustrative Fourth Revised Page 153 relating to
13 Supplier Balancing and Peaking Demand Charges and Illustrative Fourth Revised Page
14 154 relating to Capacity Allocation, both of which are reflected in Attachment 3.

15 **Q. Please describe the changes to tariff Page 153.**

16 A. In Illustrative Fourth Revised Page 153, the Company updates the Peaking Demand
17 Charge from \$43.95 per MMBtu of Peak MDQ to \$56.21 per MMBtu of Peak MDQ.
18 This calculation is presented in Schedule 21.

19 **Q. Please describe the changes to tariff Page 154.**

20 A. Illustrative Fourth Revised Page 154 updates the Capacity Allocator percentages used to
21 allocate pipeline, storage, and local peaking capacity to high and low load factor

1 customers under the mandatory capacity assignment requirement for firm transportation
2 service. Pk Schedule 22 contains the four-page worksheet that backs up the calculations
3 for the updated allocators.

4 **VII. SUMMER 2024 COST OF GAS FACTOR**

5 **Q. What are the proposed 2024 summer firm sales Cost of Gas rates?**

6 A. The Company proposes a firm sales Cost of Gas rate of \$0.0722 per therm for residential
7 customers, \$0.0722 per therm for commercial/industrial high winter use customers, and
8 \$0.0723 per therm for commercial/industrial low winter use customers as shown on
9 Illustrative Twelfth Revised Page 92.

10 **Q. Please explain Illustrative Fourth Revised Page 91 and Illustrative Twelfth Revised**
11 **Page 92.**

12 A. In Attachment 3, Illustrative Fourth Revised Page 91 and Illustrative Twelfth Revised
13 Page 92 contain the calculation of the 2025 Summer Period Cost of Gas Rate and
14 summarize the Company's forecast of firm gas sales, firm gas sendout, and gas costs. On
15 Illustrative Twelfth Revised Page 92, the Company derives the 2025 Average Cost of Gas
16 of \$0.0722 per therm by adding the Direct Cost of Gas Rate of \$0.0375 per therm to the
17 Indirect Cost of Gas Rate of \$0.0347 per therm. The estimated total Anticipated Direct
18 Cost of Gas is \$840,579 and the estimated Indirect Cost of Gas is \$777,119. The Direct
19 Cost of Gas Rate and the Indirect Cost of Gas Rates are determined by dividing each of
20 these total cost figures by the projected summer firm sales volumes of 22,422,719 therms.
21 Illustrative Twelfth Revised Page 92 also shows the calculation of the

1 Commercial/Industrial High Winter Use Cost of Gas Rate of \$0.0722 per therm and the
2 Commercial/Industrial Low Winter Use Cost of Gas Rate of \$0.0723 per therm.

3 The calculation of the Anticipated Direct Cost of Gas is shown on Illustrative Fourth
4 Revised Page 91. To derive the total Anticipated Direct Cost of Gas of \$840,579 the
5 Company starts with the Unadjusted Anticipated Cost of Gas of \$4,297,502 and adds the
6 Net Adjustment totaling (\$3,456,923).

7 **Q. What are the components of the Unadjusted Anticipated Cost of Gas?**

8 A. The Unadjusted Anticipated Cost of Gas shown on Illustrative Fourth Revised Page 91
9 consists of the following components:

10	1. Purchased Gas Demand Costs	\$1,210,454
11	2. Purchased Gas Supply Costs	6,947,947
12	4. Hedge Contract (Savings)/loss	<u>(3,860,898)</u>
13		
14	Total Unadjusted Anticipated Cost of Gas	<u>\$4,297,502</u>

15 **Q. What are the components of the adjustments to the Cost of Gas?**

16 A. The allowable adjustments to gas costs, listed on Attachment 3, Illustrative Fourth
17 Revised Page 91 are as follows:

18	1. Prior Period (Over)/Under Collection	\$(410,878)
19	2. Interest	<u>23,689</u>
20	2. Capacity Release and Off System Sales Margins	<u>(3,069,734)</u>
21		
22	Total Adjustments	<u>\$(3,456,923)</u>

1 **Q. How does the proposed average Summer Cost of Gas rates in this filing compare to**
2 **the Cost of Gas rates approved by Order No. 26,898 (October 31, 2023) in Docket**
3 **No. DG 23-076 for the 2024 Summer Period?**

4 A. The table below summarizes the total bill impacts of the proposed summer 2025 rates.

	Rates Effective May 1, 2024 (Order No. 26,898)	Proposed Rate	Change	% Change
Residential – R3	\$0.0187	\$0.0722	\$0.0535	286%
C& I - G41	\$0.0181	\$0.0722	\$0.0541	299%
C&I - G42	\$0.0181	\$0.0722	\$0.0541	299%
C& I - G52	\$0.0193	\$0.0723	\$0.0530	275%

8 **VIII. CUSTOMER BILL IMPACTS**

9 **Q. What are the estimated impacts of the proposed firm sales Cost of Gas rate on an**
10 **average heating customer’s winter bill as compared to the winter rates in effect last**
11 **year?**

12 A. The bill impact analyses are presented in both the Pk and OP Schedule 8 of this filing.
13 These bill impacts reflect the implementation of the temporary rates approved in Docket
14 No. DG 23-067, effective November 1, 2023, relating to the Company’s distribution rate
15 case. The bill impacts also include the LDAC rates included in the August 20, 2024,
16 filing in this docket. The table below summarizes the total bill impacts of the proposed
17 rates.

	Winter 2024/2025 Bill Impact	Summer 2025 Bill Impact	Annual Bill Impact
Residential - R3	\$61 or 6%	\$8 or 4%	\$70 or 6%
Residential - R3 FPO	\$(23) or (2)%	N/A	\$(23) or (2)%
Residential – R4 GAP	\$(67) or (9)%	N/A	\$(67) or (9)%
C& I - G41	\$94 or 3%	\$21 or 3%	\$115 or 3%
C&I - G42	\$917 or 4%	\$196 or 5%	\$1,112 or 4%
C& I - G52	\$818 or 6%	\$440 or 12%	\$1,258 or 7%

1

2 **IX. CONCLUSION**

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

4 **A. Yes, it does.**

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing

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	Schedule 7	N/A - NYMEX Futures @ Henry Hub is no longer included as a separate schedule - see Schedule 6
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Pk Schedule 26	Schedule 26	Fuel Inventory Revenue Requirement

1 Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
2 Peak 2024 – 2025 Winter Cost of Gas Filing
3 UPDATED Summary

	Reference	PK 24–25
(a)	(b)	Nov - Apr
		(c)
Anticipated Direct Cost of Gas		
Purchased Gas:		
Demand Costs:	Schedule 3, col. (q), In 10	\$ 13,277,648
Supply Costs	Schedule 3, col. (q), In 11	40,009,791
Storage Gas:		
Demand, Capacity:	Schedule 3, col. (q), In 13	846,659
Commodity Costs:	Schedule 3, col. (q), In 14	4,210,226
Produced Gas:	Schedule 3, col. (q), In 15	4,078,054
Hedge Contract (Savings)	Schedule 3, col. (q), In 16	<u>(4,494,900)</u>
Total Unadjusted Cost of Gas		<u><u>\$ 57,927,477</u></u>
Adjustments:		
Prior Period (Over)/Under Recovery	Schedule 3, col. (c), In 32	\$ 306,763
Interest 05/01/23 - 4/30/24	Schedule 3, col. (q), In 115	180,337
Accounting Adjustments	Schedule 3, col. (q), In 23 + In 60 + In	23,633
Gas Assistance Program	Schedule 3, col. (q), In 22	(618,933)
Refunds from Suppliers	Schedule 4, In 2	-
Broker Revenues	Schedule 4, In 3	30,408
Fuel Financing	Schedule 4, In 4	462,146
Transportation CGA Revenues	Schedule 4, In 5	62,123
Interruptible Sales Margin	Schedule 4, In 6	-
Capacity Release and Off System Sales Margins	Schedule 4, In 7 + In 8	(2,836,642)
Hedging Costs	Schedule 4, In 9	-
Fixed Price Option Administrative Costs	Schedule 4, In 10	<u>62,993</u>
Total Adjustments		<u><u>\$ (2,327,171)</u></u>
Total Anticipated Direct Costs	In 22 + 39	<u><u>\$ 55,600,306</u></u>
Anticipated Indirect Cost of Gas		
Working Capital		
Total Unadjusted Anticipated Cost of Gas	In 22	\$ 57,927,477
Lead Lag Days / 365	DG 20-105, 25.72/ 365	0.0705
Prime Rate		8.00%
Working Capital Percentage	In 46 * In 47	0.564%
Working Capital	Schedule 3, col. (q), In 57	315,708
Prior Period Working Capital	Schedule 3, col. (c), In 68	<u>(143,692)</u>
Total Working Capital Allowance	In 49 + 50	<u><u>\$ 172,016</u></u>
Bad Debt		
Total Unadjusted Anticipated Cost of Gas	In 22	\$ 57,927,477
Less Refunds	In 30	-
Plus Working Capital	In 52	172,016
Plus Prior Period (Over) Under Recovery	In 26	<u>306,763</u>
Subtotal		<u>\$ 58,406,256</u>
Bad Debt Percentage	per GTC 17(f)	1.99%
Bad Debt Allowance	Schedule 3, col. (q), In 92	1,026,654
Prior Period Bad Debt Allowance	Schedule 3, col. (c), In 102	<u>(165,765)</u>
Total Bad Debt Allowance	In 62 + 63	<u><u>\$ 860,889</u></u>
Production and Storage Capacity	per GTC 17(f)	<u><u>\$ 3,685,459</u></u>
Miscellaneous Overhead	per GTC 17(f)	\$ -
Sales Volume	Sch. 10B, In 23/1000	88,888
Divided by Total Sales	Sch. 10B, In 23/1000	111,311
Ratio		<u>79.86%</u>
Miscellaneous Overhead	In 69 * 72	<u><u>\$ -</u></u>
Total Anticipated Indirect Cost of Gas	In 52 + 65 + 67 + 74	<u><u>\$ 4,718,363</u></u>
Total Cost of Gas	In 41 + 76	<u><u>\$ 60,318,669</u></u>
Projected Forecast Sales (Therms)	Sch. 3, col (r), In 30	<u><u>88,888,172</u></u>

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (Energy/Natural Gas) Corp. d/b/a Liberty
Peak 2024 - 2025 Winter Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

UPDATED Schedule 3
Page 1 of 4

	Days in Month (b)	Prior Period Bal Apr-24 Ending Bal (c)	ACT	ACT	ACT	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Total
			May-24 31 (d)	Jun-24 30 (e)	Jul-24 31 (f)	Aug-24 31 (g)	Sep-24 30 (h)	Oct-24 31 (i)	Nov-24 30 (j)	Dec-24 31 (k)	Jan-25 31 (l)	Feb-25 28 (m)	Mar-25 31 (n)	Apr-25 30 (o)	(a)	
Account 10168-130800-11174001 COG (Over)/Under Balance																
Beginning Balance	Account 10168-130800-11174001	\$ 306,763	\$ 306,763	\$ 710,337	\$ 1,782,921	\$ 2,006,540	\$ 3,060,562	\$ 4,185,563	\$ 5,226,195	\$ 2,105,670	\$ (77,159)	\$ 3,148,692	\$ 5,041,683	\$ 2,227,467	\$ 306,763	
Purchased Gas:																
Demand Costs:	Company Records OR Sch. 5, In 40	\$ 880,136	\$ 943,705	\$ 940,766	\$ 928,114	\$ 927,451	\$ 927,451	\$ 1,319,975	\$ 1,319,975	\$ 1,321,463	\$ 1,321,463	\$ 1,321,463	\$ 1,321,463	\$ 1,125,686	\$ 13,277,648	
Supply Costs:	Company Records OR Sch. 6, In 43	\$ 211,272	\$ 14,248	\$ 15,563	\$ -	\$ -	\$ -	\$ 2,842,323	\$ 5,602,330	\$ 12,476,891	\$ 10,082,972	\$ 5,912,487	\$ 2,851,704	\$ -	\$ 40,009,791	
Storage Gas:																
Demand, Capacity:	Company Records OR Sch. 5, In 56	\$ 4,845	\$ 4,249	\$ 4,224	\$ 93,554	\$ 94,750	\$ 94,750	\$ 91,714	\$ 91,714	\$ 91,714	\$ 91,714	\$ 91,714	\$ 91,714	\$ 91,714	\$ 846,659	
Commodity Costs:	Company Records OR Sch. 6, In 46	\$ 384,437	\$ 388,837	\$ 79,230	\$ -	\$ -	\$ -	\$ 436,023	\$ 839,482	\$ 968,620	\$ 764,822	\$ 348,776	\$ -	\$ -	\$ 4,210,226	
Produced Gas:	Company Records OR Sch. 6, In 55	\$ (394,648)	\$ (400,258)	\$ (484,284)	\$ 14,224	\$ 14,878	\$ 17,252	\$ 132,068	\$ 1,452,356	\$ 2,213,544	\$ 1,336,913	\$ 152,169	\$ -	\$ 23,840	\$ 4,078,054	
Hedge Contract (Savings)	Company Records OR Sch. 6, In 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (749,150)	\$ (749,150)	\$ (749,150)	\$ (749,150)	\$ (749,150)	\$ (749,150)	\$ (749,150)	\$ (4,484,900)	
Total Unadjusted Cost of Gas		\$ 1,086,042	\$ 950,781	\$ 555,499	\$ 1,035,892	\$ 1,037,080	\$ 1,039,453	\$ 4,072,954	\$ 8,556,708	\$ 16,323,082	\$ 12,848,734	\$ 7,077,460	\$ 3,343,795	\$ 57,927,477		
Production & Storage	per GTC 17(f)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 614,243	\$ 614,243	\$ 614,243	\$ 614,243	\$ 614,243	\$ 614,243	\$ 614,243	\$ 3,685,459	
Misc. Overhead	per GTC 17(f)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Revenues w/o Int. (incl. Unbilled)	Company Records OR In 37 * 44	\$ (234,051)	\$ (61,830)	\$ (71,982)	\$ -	\$ -	\$ -	\$ (7,569,020)	\$ (11,147,168)	\$ (13,190,337)	\$ (11,202,716)	\$ (9,867,650)	\$ (6,128,536)	\$ (58,473,291)		
Gas Assistance Program	Company Records OR Prior Year Values	\$ (114,709)	\$ (31,350)	\$ (19,200)	\$ (44)	\$ (227)	\$ (61)	\$ 4	\$ (17,368)	\$ (89,795)	\$ (95,613)	\$ (140,648)	\$ (109,923)	\$ (618,933)		
Accounting Adjustments	Company Records	\$ 62,993	\$ -	\$ (8,821)	\$ -	\$ -	\$ (30,539)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,633		
Adjustments to Gas Costs	Sch. 4, In 11	\$ (400,349)	\$ 206,327	\$ (245,469)	\$ -	\$ 62,993	\$ -	\$ (262,666)	\$ (196,092)	\$ (441,743)	\$ (296,712)	\$ (522,232)	\$ (123,029)	\$ (2,218,972)		
Monthly (Over)/Under Recovery		\$ 306,763	\$ 706,689	\$ 1,774,265	\$ 1,992,948	\$ 3,042,388	\$ 4,160,408	\$ 5,194,416	\$ 2,081,709	\$ (84,008)	\$ 3,138,292	\$ 5,016,627	\$ 2,202,855	\$ (175,983)	\$ 57,559,614	
Average Monthly Balance	(In 7 + 25)/2	\$ 506,726	\$ 1,242,301	\$ 1,887,934	\$ 2,524,464	\$ 3,610,485	\$ 4,689,989	\$ 3,653,952	\$ 1,010,831	\$ 1,530,567	\$ 4,082,660	\$ 3,622,269	\$ 1,025,742	\$ -		
Interest Rate	Prime Rate		8.50%	8.50%	8.50%	8.50%	8.50%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%		
Interest Applied	In 26 * In 28 / (366 OR 365) * Days of Month	\$ 3,648	\$ 8,655	\$ 13,592	\$ 18,175	\$ 25,155	\$ 31,779	\$ 23,960	\$ 6,849	\$ 10,399	\$ 25,055	\$ 24,612	\$ 6,745	\$ 198,625		
(Over)/Under Balance	In 25 + In 30	\$ 306,763	\$ 710,337	\$ 1,782,921	\$ 2,006,540	\$ 3,060,562	\$ 4,185,563	\$ 5,226,195	\$ 2,105,670	\$ (77,159)	\$ 3,148,692	\$ 5,041,683	\$ 2,227,467	\$ (169,238)	\$ 57,758,239	
Forecast Sendout Therms	Sch. 6, In 89 * 10								11,429,418	16,687,960	19,882,171	16,841,548	14,290,294	8,967,703	88,099,094	
Less Forecast Billing Thermo Sales	Sch. 10B, In 15								11,382,988	16,764,136	19,836,840	16,847,674	14,839,879	9,216,655	88,888,172	
Less Forecast Unaccounted For	In 36 * Sch. 25, In 9								285,182	416,391	496,092	420,224	356,566	223,759	2,198,213	
Less Forecast Company Use	In 36 * 0.00135								15,430	22,529	28,841	22,736	19,292	12,106	118,934	
Unbilled Volumes	In 36 - In 37 through 39								(254,182)	(515,096)	(477,602)	(449,086)	(925,443)	(484,817)	(3,106,225)	
Gross Unbilled	In 40 + prior month in 41								(254,182)	(769,278)	(1,246,880)	(1,695,966)	(2,621,408)	(3,106,225)		
COB w/o Interest	In 133 col. (c)		\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649	\$0.6649		
COG With Interest	In 133 col. (d)		\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672	\$0.6672		

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Peak 2024 – 2025 Winter Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

UPDATED Schedule 3
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		Prior Period Bal Apr-24 Ending Bal (c)	ACT May-24 31 (d)	ACT Jun-24 30 (e)	ACT Jul-24 31 (f)	EST Aug-24 31 (g)	EST Sep-24 30 (h)	EST Oct-24 31 (i)	EST Nov-24 30 (j)	EST Dec-24 31 (k)	EST Jan-25 31 (l)	EST Feb-25 28 (m)	EST Mar-25 31 (n)	EST Apr-25 30 (o)	Total (a)	
47	(a)															
48	Days in Month (b)															
49	Account 10168-130801-11142004 Working Capital (Over)/Under Balance															
50																
51																
52																
53	Beginning Balance	Account 10168-130801-11142004	\$ (143,692)	\$ (143,692)	\$ (154,780)	\$ (149,232)	\$ (148,819)	\$ (143,664)	\$ (138,052)	\$ (133,108)	\$ (134,523)	\$ (120,675)	\$ (70,138)	\$ (32,262)	\$ (24,199)	\$ (143,692)
54	Days Lag	DG 20-105, 25.72/ 365		0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	
55	Prime Rate			8.50%	8.50%	8.50%	8.50%	8.50%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	
56	Working Capital	(In 17 + In 24) * In 55 * In 56	\$ 4,109	\$ 6,934	\$ 1,858	\$ 6,208	\$ 6,592	\$ 5,863	\$ 21,490	\$ 47,154	\$ 89,571	\$ 70,793	\$ 36,971	\$ 18,165	\$ 315,708	
57																
58	Revenues w/o Int.	Company Records OR In 72 * In 76	\$ (14,126)	\$ (331)	\$ (376)	\$ -	\$ -	\$ -	\$ (22,028)	\$ (32,442)	\$ (38,388)	\$ (32,603)	\$ (28,718)	\$ (17,836)	\$ (186,849)	
59	Add Net Adjustments	Company Records	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
60	Monthly (Over)/Under Recovery		\$ (143,692)	\$ (153,710)	\$ (148,177)	\$ (147,750)	\$ (142,812)	\$ (137,072)	\$ (132,190)	\$ (133,646)	\$ (119,811)	\$ (69,492)	\$ (31,948)	\$ (24,008)	\$ (23,870)	\$ (14,833)
61	Average Monthly Balance	(In 53 + In 61)/2	\$ (148,701)	\$ (151,479)	\$ (148,491)	\$ (145,716)	\$ (140,368)	\$ (135,121)	\$ (133,377)	\$ (127,167)	\$ (95,084)	\$ (51,043)	\$ (28,135)	\$ (24,035)	\$ (24,035)	
62																
63	Interest Rate	Prime Rate		8.50%	8.50%	8.50%	8.50%	8.50%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	
64																
65	Interest Applied	In 62 * In 64 / (366 OR 365) * Days of Month	\$ (1,071)	\$ (1,055)	\$ (1,069)	\$ (1,052)	\$ (981)	\$ (918)	\$ (877)	\$ (864)	\$ (646)	\$ (313)	\$ (191)	\$ (158)	\$ (9,195)	
66																
67	(Over)/Under Balance	In 61 + In 66	\$ (143,692)	\$ (154,780)	\$ (149,232)	\$ (148,819)	\$ (143,664)	\$ (138,052)	\$ (133,108)	\$ (134,523)	\$ (120,675)	\$ (70,138)	\$ (32,262)	\$ (24,199)	\$ (24,028)	\$ (24,028)
68																
69																
70																
71																
72	Forecast Therm Sales	In 37							11,382,988	16,764,136	19,836,840	16,847,674	14,839,879	9,216,655	88,888,172	
73	Unbilled Therm	In 40							(254,182)	(515,096)	(477,602)	(449,086)	(925,443)	(484,817)	(3,106,225)	
74	Gross Unbilled	In 73 + prior month In 74							(254,182)	(769,278)	(1,246,890)	(1,895,969)	(2,621,408)	(3,106,225)		
75																
76	Working Cap. Rate w/out Int.	In 150 col. (c)							\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	\$0.0019	
77																
78	Working Capital Rate w/ Int.	In 150 col. (d)							\$0.0018	\$0.0018	\$0.0018	\$0.0018	\$0.0018	\$0.0018	\$0.0018	

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79			Prior Period Bal	ACT	ACT	ACT	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Total
80		Days in Month	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25		
81	(a)	(b)	Ending Bal	31	30	31	31	30	31	30	31	31	28	31	30	(c)	
82	Account 10168-130804-11174003 Bad Debt (Over)/Under Balance		(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)		
85	Forecast Direct Gas Costs	In 17 + In 24		\$ 685,693	\$ 1,157,108	\$ 310,030	\$ 1,035,892	\$ 1,100,073	\$ 1,039,453	\$ 3,810,288	\$ 8,360,616	\$ 15,881,339	\$ 12,552,022	\$ 6,555,228	\$ 3,220,765	\$ 55,708,506	
86	Forecast Working Capital	In 57		\$ 4,109	\$ 6,934	\$ 1,858	\$ 6,208	\$ 6,592	\$ 5,863	\$ 21,490	\$ 47,154	\$ 89,571	\$ 70,793	\$ 36,971	\$ 18,165	\$ 315,708	
87	Prior Period Balance	In 32								\$ 51,127	\$ 51,127	\$ 51,127	\$ 51,127	\$ 51,127	\$ 51,127	\$ 306,763	
88	Total Forecast Direct Gas Costs & Working Capital			\$ 689,802	\$ 1,164,042	\$ 311,888	\$ 1,042,100	\$ 1,106,665	\$ 1,045,315	\$ 3,882,905	\$ 8,458,897	\$ 16,022,037	\$ 12,673,942	\$ 6,643,326	\$ 3,290,058	\$ 56,330,976	
89																	
90	Beginning Balance	Account 10168-130804-11174003	\$ (165,765)	\$ (165,765)	\$ (151,914)	\$ (150,148)	\$ (150,539)	\$ (149,218)	\$ (147,703)	\$ (146,292)	\$ (180,334)	\$ (175,566)	\$ (49,611)	\$ 39,398	\$ 28,104	\$ (165,765)	
91																	
92	Bad Debt	In 88 * 0.0023 (thru Oct 2024) OR 0.0199 (after Nov 2024)		\$ 1,587	\$ 2,677	\$ 717	\$ 2,397	\$ 2,545	\$ 2,404	\$ 77,270	\$ 168,332	\$ 318,839	\$ 252,211	\$ 132,202	\$ 65,472	\$ 1,026,654	
93	Revenues w/o int	Company Records OR In 106 * In 110		\$ 13,404	\$ 138	\$ (31)	\$ -	\$ -	\$ -	\$ (110,245)	\$ (162,362)	\$ (192,121)	\$ (163,171)	\$ (143,725)	\$ (89,264)	\$ (847,377)	
94	Add Net Adjustments	Company Records		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
95	Monthly (Over)/Under Recovery		\$ (165,765)	\$ (150,775)	\$ (149,099)	\$ (149,461)	\$ (148,143)	\$ (146,672)	\$ (145,299)	\$ (179,267)	\$ (174,364)	\$ (48,849)	\$ 39,429	\$ 27,875	\$ 4,312	\$ 13,511	
96	Average Monthly Balance	(In 90 + In 95)/2		\$ (158,270)	\$ (150,507)	\$ (149,804)	\$ (149,341)	\$ (147,945)	\$ (146,501)	\$ (162,779)	\$ (177,349)	\$ (112,207)	\$ (5,091)	\$ 33,637	\$ 16,208		
97																	
98	Interest Rate	Prime Rate		8.50%	8.50%	8.50%	8.50%	8.50%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%		
99																	
100	Interest Applied	In 96 * In 98 / (366 OR 365) * Days of Month		\$ (1,139)	\$ (1,049)	\$ (1,079)	\$ (1,075)	\$ (1,031)	\$ (993)	\$ (1,067)	\$ (1,202)	\$ (762)	\$ (31)	\$ 229	\$ 107	\$ (9,093)	
101																	
102	(Over)/Under Balance	In 95 + In 100	\$ (165,765)	\$ (151,914)	\$ (150,148)	\$ (150,539)	\$ (149,218)	\$ (147,703)	\$ (146,292)	\$ (180,334)	\$ (175,566)	\$ (49,611)	\$ 39,398	\$ 28,104	\$ 4,418	\$ 4,418	
103																	
104																	
105	Forecast Term Sales	In 37								11,382,988	16,764,136	19,838,840	16,847,674	14,839,879	9,216,655	88,888,172	
106	Unbilled Therm	In 40								(254,182)	(515,096)	(477,602)	(449,086)	(925,443)	(484,817)	(3,106,225)	
107	Gross Unbilled									(254,182)	(769,278)	(1,246,880)	(1,695,966)	(2,621,408)	(3,106,225)		
108																	
109	COG Rate Without Interest	Sch. 3, pg. 4, In 167 col. (c)		\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	\$0.0097	
110																	
111	COG With Interest	Sch. 3, pg. 4, In 167 col. (d)		\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	\$0.0096	
112																	
113																	
114	Total Interest	In 30 + 66 + 100		\$ 1,438	\$ 6,551	\$ 11,445	\$ 16,048	\$ 23,144	\$ 29,868	\$ 22,016	\$ 4,784	\$ 8,991	\$ 24,711	\$ 24,649	\$ 6,693	\$ 180,337	
115																	
116																	

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (Energy/Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

UPDATED Schedule 3
Page 4 of 4

		<u>COG Rate Without</u>	<u>COG Rate With</u>
		<u>Interest</u>	<u>Interest</u>
	(a)	(c)	(d)
117	Calculation of COG		
118	(a)		
119	(Over)/Under Recovery Balance	In 7, col. (a)	In 7, col. (a)
120		\$ 306,763	\$ 306,763
121	Unadjusted Forecast of Gas Costs	In 17, col. (q)	In 17, col. (q)
122		\$ 57,927,477	\$ 57,927,477
123	Production & Storage and Misc Overhead	In 20, col. (q)	In 20, col. (q)
124		\$ 3,685,459	\$ 3,685,459
125	Adjustments	In 24, col. (q)	In 24, col. (q)
126		\$ (2,814,271)	\$ (2,814,271)
127	Interest Nov -Apr	In 30, col. (q)	In 30, col. (q)
128		\$ -	\$ 198,625
129	Total Gas To Be Recovered		
130		\$ 59,105,428	\$ 59,304,053
131	Forecast Gas Sales (Nov - Apr)	In 37, col. (q)	In 37, col. (q)
132		\$ 88,888,172	\$ 88,888,172
133	Preliminary COG Rate	In 129 / In 131	In 129 / In 131
134		<u>\$0.6649</u>	<u>\$0.6672</u>
135			
		<u>Working Capital</u>	<u>Working Capital</u>
		<u>Rate without interest</u>	<u>Rate with Interest</u>
136	Calculation of Working Capital Rate		
137	(a)		
138	(Over)/Under Recovery Balance	In 53, col. (q)	In 53, col. (q)
139		\$ (143,692)	\$ (143,692)
140	Unadjusted Working Capital Forecast	In 57, col. (q)	In 57, col. (q)
141		\$ 315,708	\$ 315,708
142	Adjustments without interest	In 60, col. (q)	In 60, col. (q)
143		\$ -	\$ -
144	Interest Nov -Apr	In 66, col. (q)	In 66, col. (q)
145		\$ -	\$ (9,195)
146	Total Gas To Be Recovered		
147		\$ 172,016	\$ 162,820
148	Forecast Gas Sales (Nov - Apr)	In 37, col. (q)	In 37, col. (q)
149		\$ 88,888,172	\$ 88,888,172
150	Preliminary Working Capital COG Rate	In 146 / In 148	In 146 / In 148
151		<u>\$0.0019</u>	<u>\$0.0018</u>
152			
		<u>Bad Debt Rate</u>	<u>Bad Debt Rate with</u>
		<u>without interest</u>	<u>interest</u>
153	Calculation of Bad Debt Rate		
154	(a)		
155	(Over)/Under Recovery Balance	In 90, col. (q)	In 90, col. (q)
156		\$ (165,765)	\$ (165,765)
157	Unadjusted Bad Debt Forecast	In 92, col. (q)	In 92, col. (q)
158		\$ 1,026,654	\$ 1,026,654
159	Adjustments without interest	In 94, col. (q)	In 94, col. (q)
160		\$ -	\$ -
161	Interest Nov -Apr	In 100, col. (q)	In 100, col. (q)
162		\$ -	\$ (9,093)
163	Total Gas To Be Recovered		
164		\$ 860,889	\$ 851,796
165	Forecast Gas Sales (Nov - Apr)	In 37, col. (q)	In 37, col. (q)
166		\$ 88,888,172	\$ 88,888,172
167	Preliminary Bad Debt COG Rate	In 163 / In 165	In 163 / In 165
		<u>\$0.0097</u>	<u>\$0.0096</u>

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Adjustments to Gas Costs

Schedule 4
Page 1 of 1

	ACT May-24	ACT Jun-24	ACT Jul-24	EST Aug-24 1/	EST Sep-24 1/	EST Oct-24 1/	EST Nov-24 1/	EST Dec-24 1/	EST Jan-25 1/	EST Feb-25 1/	EST Mar-25 1/	EST Apr-25 1/	TOTAL
1 Prior Period Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 Refunds from Suppliers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 Broker Revenue	\$ (188,184)	\$ 427,428	\$ (1,966)	\$ -	\$ -	\$ -	\$ 13,220	\$ 80,110	\$ (170,477)	\$ (21,419)	\$ (19,819)	\$ (88,484)	\$ 30,408
4 Inventory Finance Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 77,024	\$ 77,024	\$ 77,024	\$ 77,024	\$ 77,024	\$ 77,024	\$ 462,146
5 Transportation CGA Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,263	\$ 11,118	\$ 12,889	\$ 11,097	\$ 10,332	\$ 7,424	\$ 62,123
6 Interruptible Sales Margin	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7 Off System Sales Margin	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8 Capacity Release	\$ (212,165)	\$ (221,101)	\$ (243,503)	\$ -	\$ -	\$ -	\$ (362,173)	\$ (364,344)	\$ (361,179)	\$ (363,414)	\$ (589,769)	\$ (118,994)	\$ (2,836,642)
9 Net Option Premiums	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10 Fixed Price Option Administrative Costs	\$ -	\$ -	\$ -	\$ -	\$ 62,993	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62,993
11 Total Adjustments	\$ (400,349)	\$ 206,327	\$ (245,469)	\$ -	\$ 62,993	\$ -	\$ (262,666)	\$ (196,092)	\$ (441,743)	\$ (296,712)	\$ (522,232)	\$ (123,029)	(2,218,972)

1/ Estimates are based on prior years actual, except transportation revenue is calculated on Schedule 17 and Inventory Finance Charges for Nov 24-Apr 25 calculated on Schedule 26

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Annual Bill Comparisons, Nov 23 - Apr 24 Actual Rates vs Nov 24 - Apr 25

Non FPO Rate
November 1, 2024 - April 30, 2025
Residential Heating (R3)

UPDATED Schedule 8
Page 1 of 7

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
PROPOSED R-3	EST Nov-24	EST Dec-24	EST Jan-25	EST Feb-25	EST Mar-25	EST Apr-25	Winter Nov-Apr
average Usage (Therms)	84	118	137	131	104	66	640
<u>11/1/23 - Current</u>							
Winter:							
Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
Headblock	\$ 0.6167						
Tailblock	\$ 52.01	\$ 73.04	\$ 84.37	\$ 80.54	\$ 64.03	\$ 40.68	\$ 394.68
HB Threshold	-						
Total Base Rate Amount	\$ 68.77	\$ 89.80	\$ 101.13	\$ 97.30	\$ 80.79	\$ 57.44	\$ 495.24
COG Rate - (Seasonal)	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786
COG amount	\$ 57.23	\$ 80.37	\$ 92.84	\$ 88.63	\$ 70.45	\$ 44.77	\$ 434.29
LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
LDAC amount	\$ 16.75	\$ 23.52	\$ 27.17	\$ 25.94	\$ 20.62	\$ 13.10	\$ 127.10
Total Bill	\$ 142.76	\$ 193.69	\$ 221.15	\$ 211.86	\$ 171.86	\$ 115.31	\$ 1,056.63

November 1, 2023 - April 30, 2024
Residential Heating (R3)

CURRENT R-3	ACT Nov-23	ACT Dec-23	ACT Jan-24	ACT Feb-24	ACT Mar-24	ACT Apr-24	Winter Nov-Apr
average Usage (Therms)	84	118	137	131	104	66	640
<u>11/1/23 - Current</u>							
Winter:							
Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
Headblock	\$ 0.6167						
Tailblock	\$ 52.01	\$ 73.04	\$ 84.37	\$ 80.54	\$ 64.03	\$ 40.68	\$ 394.68
HB Threshold	-						
Total Base Rate Amount	\$ 68.77	\$ 89.80	\$ 101.13	\$ 97.30	\$ 80.79	\$ 57.44	\$ 495.24
COG Rate - (Seasonal)	\$ 0.7563	\$ 0.7248	\$ 0.6460	\$ 0.6648	\$ 0.5039	\$ 0.3449	\$ 0.6249
COG amount	\$ 63.79	\$ 85.84	\$ 88.38	\$ 86.82	\$ 52.32	\$ 22.75	\$ 399.90
LDAC	\$ 0.1180	\$ 0.1180	\$ 0.1213	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1565
LDAC amount	\$ 9.95	\$ 13.98	\$ 16.60	\$ 25.94	\$ 20.62	\$ 13.10	\$ 100.18
Total Bill	\$ 142.51	\$ 189.61	\$ 206.11	\$ 210.06	\$ 153.72	\$ 93.30	\$ 995.32

DIFFERENCE:

Total Bill	\$ 0.24	\$4.07	\$15.04	\$1.80	\$18.14	\$22.01	\$61.31
% Change	0.17%	2.15%	7.30%	0.86%	11.80%	23.60%	6.16%
Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
% Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
COG & LDAC	\$ 0.24	\$ 4.07	\$ 15.04	\$ 1.80	\$ 18.14	\$ 22.01	\$ 61.31
% Change	0.33%	4.08%	14.32%	1.60%	24.87%	61.40%	12.26%

Annual Bill Comparisons, Nov 23 - Apr 24 Actual Rates vs Nov 24 - Apr 25
FPO Rate
November 1, 2024 - April 30, 2025
Residential Heating (R3-FPO)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	EST	EST	EST	EST	EST	EST	Winter
	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Nov-Apr
47 PROPOSED R-3 FPO							
48							
49 average Usage (Therms)	84	118	137	131	104	66	640
50							
51 Winter:							
52 Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
53 Headblock	\$ 0.6167						
54 Tailblock	\$ 52.01	\$ 73.04	\$ 84.37	\$ 80.54	\$ 64.03	\$ 40.68	\$ 394.68
55 HB Threshold							
56							
57 Total Base Rate Amount	\$ 68.77	\$ 89.80	\$ 101.13	\$ 97.30	\$ 80.79	\$ 57.44	\$ 495.24
58							
59 COG Rate - (Seasonal)	\$ 0.6986	\$ 0.6986	\$ 0.6986	\$ 0.6986	\$ 0.6986	\$ 0.6986	\$ 0.6986
60 COG amount	\$ 58.92	\$ 82.74	\$ 95.58	\$ 91.24	\$ 72.53	\$ 46.09	\$ 447.09
61							
62 LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
63 LDAC amount	\$ 16.75	\$ 23.52	\$ 27.17	\$ 25.94	\$ 20.62	\$ 13.10	\$ 127.10
64							
65 Total Bill	\$ 144.45	\$ 196.06	\$ 223.89	\$ 214.48	\$ 173.94	\$ 116.63	\$ 1,069.43

November 1, 2023 - April 30, 2024
Residential Heating (R3-FPO)

	ACT	ACT	ACT	ACT	ACT	ACT	Winter
	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Nov-Apr
66 CURRENT R-3 FPO							
67							
68 average Usage (Therms)	84	118	137	131	104	66	640
69							
70 Winter:							
71 Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
72 Headblock	\$ 0.6167						
73 Tailblock	\$ 52.01	\$ 73.04	\$ 84.37	\$ 80.54	\$ 64.03	\$ 40.68	\$ 394.68
74 HB Threshold							
75							
76 Total Base Rate Amount	\$ 68.77	\$ 89.80	\$ 101.13	\$ 97.30	\$ 80.79	\$ 57.44	\$ 495.24
77							
78 COG Rate - (Seasonal)	\$ 0.7763	\$ 0.7763	\$ 0.7763	\$ 0.7763	\$ 0.7763	\$ 0.7763	\$ 0.7763
79 COG amount	\$ 65.48	\$ 91.94	\$ 106.21	\$ 101.38	\$ 80.60	\$ 51.21	\$ 496.82
80							
81 LDAC	\$ 0.1180	\$ 0.1180	\$ 0.1213	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1565
82 LDAC amount	\$ 9.95	\$ 13.98	\$ 16.60	\$ 25.94	\$ 20.62	\$ 13.10	\$ 100.18
83							
84 Total Bill	\$ 144.20	\$ 195.71	\$ 223.94	\$ 224.62	\$ 182.00	\$ 121.75	\$ 1,092.24

DIFFERENCE:

85 Total Bill	\$0.24	\$0.34	(\$0.05)	(\$10.15)	(\$8.07)	(\$5.13)	(\$22.81)
86 % Change	0.17%	0.18%	-0.02%	-4.52%	-4.43%	-4.21%	-2.09%
87							
88 Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
89 % Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
90							
91 COG & LDAC	\$ 0.24	\$ 0.34	(\$0.05)	(\$10.15)	(\$8.07)	(\$5.13)	(\$22.81)
92 % Change	0.32%	0.32%	-0.04%	-7.97%	-7.97%	-7.97%	-3.82%

Annual Bill Comparisons, Nov 23 - Apr 24 Actual Rates vs Nov 24 - Apr 25

GAP Rate

November 1, 2024 - April 30, 2025

Residential Heating (R4-GAP)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	EST	EST	EST	EST	EST	EST	Winter
	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Nov-Apr
93 PROPOSED R-4 GAP							
94							
95 average Usage (Therms)	84	118	137	131	104	66	640
96							
97 Winter:							
98 Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
99 Headblock \$ 0.3694	\$ 31.16	\$ 43.75	\$ 50.54	\$ 48.24	\$ 38.35	\$ 24.37	\$ 236.41
100 Tailblock \$ 0.3694							
101 HB Threshold -							
102							
103 Total Base Rate Amount	\$ 47.92	\$ 60.51	\$ 67.30	\$ 65.00	\$ 55.11	\$ 41.13	\$ 336.97
104							
105 COG Rate - (Seasonal)	\$ 0.3732	\$ 0.3732	\$ 0.3732	\$ 0.3732	\$ 0.3732	\$ 0.3732	\$ 0.3732
106 COG amount	\$ 31.48	\$ 44.20	\$ 51.06	\$ 48.74	\$ 38.75	\$ 24.62	\$ 238.86
107							
108 LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
109 LDAC amount	\$ 16.75	\$ 23.52	\$ 27.17	\$ 25.94	\$ 20.62	\$ 13.10	\$ 127.10
110							
111 Total Bill	\$ 96.15	\$ 128.23	\$ 145.54	\$ 139.68	\$ 114.48	\$ 78.85	\$ 702.93

November 1, 2023 - April 30, 2024

Residential Heating (R4-GAP)

	ACT	ACT	ACT	ACT	ACT	ACT	Winter
	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Nov-Apr
112 CURRENT R-4 GAP							
113							
114 average Usage (Therms)	84	118	137	131	104	66	640
115							
116 Winter:							
117 Cust. Chg	\$ 9.22	\$ 9.22	\$ 9.22	\$ 9.22	\$ 9.22	\$ 9.22	\$ 55.32
118 Headblock \$ 0.3694	\$ 52.01	\$ 73.04	\$ 84.37	\$ 80.54	\$ 64.03	\$ 40.68	\$ 394.68
119 Tailblock \$ 0.3694							
120 HB Threshold -							
121							
122 Total Base Rate Amount	\$ 61.23	\$ 82.26	\$ 93.59	\$ 89.76	\$ 73.25	\$ 49.90	\$ 450.00
123							
124 COG Rate - (Seasonal)	\$ 0.4160	\$ 0.3986	\$ 0.3553	\$ 0.3656	\$ 0.2771	\$ 0.1897	\$ 0.3437
125 COG amount	\$ 35.08	\$ 47.21	\$ 48.61	\$ 47.75	\$ 28.77	\$ 12.51	\$ 219.95
126							
127 LDAC	\$ 0.1180	\$ 0.1180	\$ 0.1213	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1565
128 LDAC amount	\$ 9.95	\$ 13.98	\$ 16.60	\$ 25.94	\$ 20.62	\$ 13.10	\$ 100.18
129							
130 Total Bill	\$ 106.27	\$ 143.45	\$ 158.80	\$ 163.45	\$ 122.64	\$ 75.52	\$ 770.13

DIFFERENCE:

131 Total Bill	(\$10.12)	(\$15.21)	(\$13.27)	(\$23.77)	(\$8.16)	\$3.33	(\$67.19)
132 % Change	-9.53%	-10.60%	-8.35%	-14.54%	-6.65%	4.41%	-8.73%
133							
134 Base Rate	\$ (13.32)	\$ (21.75)	\$ (26.29)	\$ (24.76)	\$ (18.14)	\$ (8.77)	\$ (113.03)
135 % Change	-21.75%	-26.44%	-28.09%	-27.58%	-24.76%	-17.58%	-25.12%
136							
137 COG & LDAC	\$ 3.19	\$ 6.54	\$ 13.03	\$ 0.99	\$ 9.98	\$ 12.11	\$ 45.83
138 % Change	7.09%	10.68%	19.98%	1.35%	20.20%	47.27%	14.32%

Docket No. DG 24-106
Exhibit 4

Annual Bill Comparisons, Nov 23 - Apr 24 Actual Rates vs Nov 24 - Apr 25
November 1, 2024 - April 30, 2025

Commercial Rate (G-41)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
139	PROPOSED G-41	EST	EST	EST	EST	EST	EST	Winter
140		Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Nov-Apr
141	average Usage (Therms)	261	390	482	458	334	185	2,111
142								
143	Winter: <u>11/1/23 - Current</u>							
144	Cust. Chg	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 397.38
145	Headblock \$ 0.5367	\$ 53.67	\$ 53.67	\$ 53.67	\$ 53.67	\$ 53.67	\$ 53.67	\$ 322.02
146	Tailblock \$ 0.3692	\$ 59.38	\$ 107.19	\$ 141.00	\$ 132.25	\$ 86.54	\$ 31.38	\$ 557.75
147	HB Threshold 100							
148								
149	Total Base Rate Amount	\$ 179.28	\$ 227.09	\$ 260.90	\$ 252.15	\$ 206.44	\$ 151.28	\$ 1,277.15
150								
151	COG Rate - (Seasonal)	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786
152	COG amount	\$ 177.01	\$ 264.87	\$ 327.02	\$ 310.95	\$ 226.93	\$ 125.54	\$ 1,432.31
153								
154	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
155	LDAC amount	\$ 22.80	\$ 34.11	\$ 42.12	\$ 40.05	\$ 29.23	\$ 16.17	\$ 184.47
156								
157	Total Bill	\$379.09	\$526.07	\$630.04	\$603.15	\$462.60	\$292.99	\$2,893.94

November 1, 2023 - April 30, 2024
Commercial Rate (G-41)

CURRENT G-41		ACT	ACT	ACT	ACT	ACT	ACT	Winter
158		Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Nov-Apr
159	average Usage (Therms)	261	390	482	458	334	185	2,111
160								
161	Winter: <u>11/1/23 - Current</u>							
162	Cust. Chg	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 397.38
163	Headblock \$ 0.5367	\$ 53.67	\$ 53.67	\$ 53.67	\$ 53.67	\$ 53.67	\$ 53.67	\$ 322.02
164	Tailblock \$ 0.3692	\$ 59.38	\$ 107.19	\$ 141.00	\$ 132.25	\$ 86.54	\$ 31.38	\$ 557.75
165	HB Threshold 100							
166								
167	Total Base Rate Amount	\$ 179.28	\$ 227.09	\$ 260.90	\$ 252.15	\$ 206.44	\$ 151.28	\$ 1,277.15
168								
169	COG Rate - (Seasonal)	\$ 0.7561	\$ 0.7246	\$ 0.6458	\$ 0.6646	\$ 0.5037	\$ 0.3447	\$ 0.6292
170	COG amount	\$ 197.23	\$ 282.82	\$ 311.21	\$ 304.53	\$ 168.44	\$ 63.77	\$ 1,328.01
171								
172	LDAC	\$ 0.0957	\$ 0.0957	\$ 0.0979	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0924
173	LDAC amount	\$ 24.96	\$ 37.35	\$ 47.18	\$ 40.05	\$ 29.23	\$ 16.17	\$ 194.94
174								
175								
176	Total Bill	\$401.47	\$547.26	\$619.29	\$596.73	\$404.11	\$231.22	\$2,800.09

DIFFERENCE:

177	Total Bill	\$ (22.38)	\$ (21.19)	\$ 10.75	\$ 6.42	\$ 58.49	\$ 61.77	\$ 93.84
178	% Change	-5.57%	-3.87%	1.74%	1.08%	14.47%	26.72%	3.35%
179								
180	Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
181	% Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
182								
183	COG & LDAC	\$ (22.38)	\$ (21.19)	\$ 10.75	\$ 6.42	\$ 58.49	\$ 61.77	\$ 93.84
184	% Change	-10.07%	-6.62%	3.00%	1.86%	29.59%	77.27%	6.16%

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Exhibit 4

Annual Bill Comparisons, Nov 23 - Apr 24 Actual Rates vs Nov 24 - Apr 25
November 1, 2024 - April 30, 2025
C&I High Winter Use Medium G-42

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
185 PROPOSED G-42	EST	EST	EST	EST	EST	EST	Winter
186	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Nov-Apr
187 average Usage (Therms)	2,543	3,519	4,174	3,998	3,106	1,898	19,238
188	11/1/23 - Current						
189 Winter:							
190 Cust. Chg	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 1,191.90
191 Headblock \$ 0.4884	\$ 488.40	\$ 488.40	\$ 488.40	\$ 488.40	\$ 488.40	\$ 488.40	\$ 2,930.40
192 Tailblock \$ 0.3336	\$ 514.75	\$ 840.22	\$ 1,059.01	\$ 1,000.17	\$ 702.51	\$ 299.45	\$ 4,416.11
193 HB Threshold 1,000							
194							
195 Total Base Rate Amount	\$ 1,201.80	\$ 1,527.27	\$ 1,746.06	\$ 1,687.22	\$ 1,389.56	\$ 986.50	\$ 8,538.41
196							
197 COG Rate - (Seasonal)	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786	\$ 0.6786
198 COG amount	\$ 1,725.69	\$ 2,387.76	\$ 2,832.82	\$ 2,713.13	\$ 2,107.62	\$ 1,287.73	\$ 13,054.74
199							
200 LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
201 LDAC amount	\$ 222.26	\$ 307.53	\$ 364.85	\$ 349.44	\$ 271.45	\$ 165.85	\$ 1,681.38
202							
203 Total Bill	\$ 3,149.74	\$ 4,222.56	\$ 4,943.73	\$ 4,749.79	\$ 3,768.63	\$ 2,440.08	\$ 23,274.53

November 1, 2023 - April 30, 2024
C&I High Winter Use Medium G-42

204 CURRENT G-42	ACT	ACT	ACT	ACT	ACT	ACT	Winter
205	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Nov-Apr
206 average Usage (Therms)	2,543	3,519	4,174	3,998	3,106	1,898	19,238
207	11/1/23 - Current						
208 Winter:							
209 Cust. Chg	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 1,191.90
210 Headblock \$ 0.4884	\$ 488.40	\$ 488.40	\$ 488.40	\$ 488.40	\$ 488.40	\$ 488.40	\$ 2,930.40
211 Tailblock \$ 0.3336	\$ 514.75	\$ 840.22	\$ 1,059.01	\$ 1,000.17	\$ 702.51	\$ 299.45	\$ 4,416.11
212 HB Threshold 1,000							
213							
214 Total Base Rate Amount	\$ 1,201.80	\$ 1,527.27	\$ 1,746.06	\$ 1,687.22	\$ 1,389.56	\$ 986.50	\$ 8,538.41
215							
216 COG Rate - (Seasonal)	\$ 0.7561	\$ 0.7246	\$ 0.6458	\$ 0.6646	\$ 0.5037	\$ 0.3447	\$ 0.6261
217 COG amount	\$ 1,922.77	\$ 2,549.62	\$ 2,695.89	\$ 2,657.15	\$ 1,564.41	\$ 654.11	\$ 12,043.95
218							
219 LDAC	\$ 0.0957	\$ 0.0957	\$ 0.0979	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0923
220 LDAC amount	\$ 243.37	\$ 336.74	\$ 408.68	\$ 349.44	\$ 271.45	\$ 165.85	\$ 1,775.52
221							
222 Total Bill	\$ 3,367.94	\$ 4,413.62	\$ 4,850.64	\$ 4,693.82	\$ 3,225.42	\$ 1,806.46	\$ 22,357.89

DIFFERENCE:

223 Total Bill	\$ (218.19)	\$ (191.06)	\$ 93.09	\$ 55.97	\$ 543.21	\$ 633.62	\$ 916.64
224 % Change	-6.48%	-4.33%	1.92%	1.19%	16.84%	35.08%	4.10%
225							
226 Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
227 % Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
228							
229 COG & LDAC	\$ (218.19)	\$ (191.06)	\$ 93.09	\$ 55.97	\$ 543.21	\$ 633.62	\$ 916.64
230 % Change	-10.07%	-6.62%	3.00%	1.86%	29.59%	77.27%	6.63%

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Exhibit 4

Annual Bill Comparisons, Nov 23 - Apr 24 Actual Rates vs Nov 24 - Apr 25
November 1, 2024 - April 30, 2025

Commercial Rate (G-52)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
231	PROPOSED G-52	EST	EST	EST	EST	EST	EST	Winter
232		Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Nov-Apr
233	average Usage (Therms)	1,907	2,294	2,692	2,308	2,175	1,933	13,309
234								
235	Winter: <u>11/1/23 - Current</u>							
236	Cust. Chg	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 1,190.88
237	Headblock \$ 0.2788	\$ 278.80	\$ 278.80	\$ 278.80	\$ 278.80	\$ 278.80	\$ 278.80	\$ 1,672.80
238	Tailblock \$ 0.1905	\$ 172.84	\$ 246.42	\$ 322.30	\$ 249.17	\$ 223.93	\$ 177.74	\$ 1,392.39
239	HB Threshold 1,000							
240								
241	Total Base Rate Amount	\$ 650.12	\$ 723.70	\$ 799.58	\$ 726.45	\$ 701.21	\$ 655.02	\$ 4,256.07
242								
243	COG Rate - (Seasonal)	\$0.6789	\$0.6789	\$0.6789	\$0.6789	\$0.6789	\$0.6789	\$ 0.6789
244	COG amount	\$ 1,294.87	\$ 1,557.08	\$ 1,827.51	\$ 1,566.87	\$ 1,476.93	\$ 1,312.32	\$ 9,035.58
245								
246	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
247	LDAC amount	\$ 166.70	\$ 200.45	\$ 235.27	\$ 201.72	\$ 190.14	\$ 168.95	\$ 1,163.22
248								
249	Total Bill	\$2,111.68	\$2,481.23	\$2,862.37	\$2,495.03	\$2,368.27	\$2,136.28	\$14,454.87

November 1, 2023 - April 30, 2024
Commercial Rate (G-52)

CURRENT G-52		ACT	ACT	ACT	ACT	ACT	ACT	Winter
250		Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Nov-Apr
251	average Usage (Therms)	1,907	2,294	2,692	2,308	2,175	1,933	13,309
252								
253								
254	Winter: <u>11/1/23 - Current</u>							
255	Cust. Chg	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 1,190.88
256	Headblock \$ 0.2788	\$ 278.80	\$ 278.80	\$ 278.80	\$ 278.80	\$ 278.80	\$ 278.80	\$ 1,672.80
257	Tailblock \$ 0.1905	\$ 172.84	\$ 246.42	\$ 322.30	\$ 249.17	\$ 223.93	\$ 177.74	\$ 1,392.39
258	HB Threshold 1,000							
259								
260	Total Base Rate Amount	\$ 650.12	\$ 723.70	\$ 799.58	\$ 726.45	\$ 701.21	\$ 655.02	\$ 4,256.07
261								
262	COG Rate - (Seasonal)	\$ 0.7573	\$ 0.7258	\$ 0.6470	\$ 0.6658	\$ 0.5049	\$ 0.3459	\$ 0.6127
263	COG amount	\$ 1,444.40	\$ 1,664.65	\$ 1,741.64	\$ 1,536.64	\$ 1,098.40	\$ 668.63	\$ 8,154.35
264								
265	LDAC	\$ 0.0957	\$ 0.0957	\$ 0.0979	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0921
266	LDAC amount	\$ 182.53	\$ 219.49	\$ 263.53	\$ 201.72	\$ 190.14	\$ 168.95	\$ 1,226.35
267								
268	Total Bill	\$2,277.05	\$2,607.83	\$2,804.76	\$2,464.80	\$1,989.74	\$1,492.59	\$13,636.77

DIFFERENCE:

269	Total Bill	\$ (165.36)	\$ (126.60)	\$ 57.61	\$ 30.23	\$ 378.53	\$ 643.69	\$ 818.10
270	% Change	-7.26%	-4.85%	2.05%	1.23%	19.02%	43.13%	6.00%
271								
272	Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
273	% Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
274								
275	COG & LDAC	\$ (165.36)	\$ (126.60)	\$ 57.61	\$ 30.23	\$ 378.53	\$ 643.69	\$ 818.10
276	% Change	-10.16%	-6.72%	2.87%	1.74%	29.38%	76.85%	8.72%

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Exhibit 4

UPDATED Schedule 8
Page 7 of 7

Residential Heating

	<u>Winter 2023-2024</u>	<u>Winter 2024-2025</u>
277 Customer Charge	\$ -	\$ -
278 First 100 Therms	\$ 0.6167	\$ 0.6167
279 Excess 100 Therms	\$ 0.6167	\$ 0.6167
280 LDAC	\$ 0.1565	\$ 0.1986
281 COG	\$ 0.6249	\$ 0.6786
282 Total Adjust	\$ 0.7814	\$ 0.8772

		<u>Winter 2023-24 @</u>	<u>Winter 2024-25 @</u>	Total		Base Rate		COG		LDAC	
				\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact
283		\$0.7814	\$0.8772	\$0.10	12%						
284 Cooking alone	5	\$6.99	\$7.47	\$0.48	6.85%	\$0.00	0%	\$0.27	4%	\$0.21	3.01%
285	10	\$13.98	\$14.94	\$0.96	6.85%	\$0.00	0%	\$0.54	4%	\$0.42	3.01%
286	20	\$27.96	\$29.88	\$1.92	6.85%	\$0.00	0%	\$1.07	4%	\$0.84	3.01%
287 Water Heating alone	30	\$41.94	\$44.82	\$2.87	6.85%	\$0.00	0%	\$1.61	4%	\$1.26	3.01%
288	45	\$62.91	\$67.23	\$4.31	6.85%	\$0.00	0%	\$2.42	4%	\$1.89	3.01%
289	50	\$69.91	\$74.70	\$4.79	6.85%	\$0.00	0%	\$2.69	4%	\$2.10	3.01%
290 Heating Alone	80	\$104.86	\$112.04	\$7.18	6.85%	\$0.00	0%	\$4.03	4%	\$3.15	3.01%
291	125	\$185.95	\$198.69	\$12.74	6.85%	\$0.00	0%	\$7.15	4%	\$5.59	3.01%
292	150	\$209.72	\$224.09	\$14.37	6.85%	\$0.00	0%	\$8.06	4%	\$6.31	3.01%
293	200	\$279.62	\$298.78	\$19.16	6.85%	\$0.00	0%	\$10.75	4%	\$8.41	3.01%

Variance Analysis of the Components of the Winter 2023-2024 Actual Results vs Proposed Winter 2024-2025 Cost of Gas Rate

	WINTER 2023-2024 ACTUAL RESULTS (6 months actual)			WINTER 2024-2025 (6 months Proposed)		
	THERM SENDOUT	COSTS	EFFECT ON COST OF GAS	THERM SENDOUT	COSTS	EFFECT ON COST OF GAS
1 Therm Sales (COG)	77,461,592			88,888,172		
2						
3						
4						
5						
6 Demand Charges		\$ 9,957,778	0.1286		\$ 14,124,307	\$ 0.1589
7						
8 Purchased Gas		25,749,770	0.3324	63,648,343	40,009,791	0.4501
9						
10 Storage/Produced Gas		-	-	24,450,751	8,288,280	0.0932
11						
12 Hedging (Gain)/Loss		-	-		(4,494,900)	(0.0506)
13						
14						
15 Total Volumes and Cost	81,653,073	\$ 35,707,548	\$ 0.4610	88,099,094	\$ 57,927,477	\$ 0.6517
16						
17 Direct Costs						
18 Prior Period Balance		\$ 8,548,887	\$ 0.1104		\$ 306,763	\$ 0.0035
19 Interest		927,526	0.0120		180,337	0.0020
20 Prior Period Adjustment		-	-		23,633	0.0003
21 Broker Revenues		(206,870)	(0.0027)		30,408	0.0003
22 Refunds from Suppliers		-	-		-	-
23 Fuel Financing		861,872	0.0111		462,146	0.0052
24 Transportation CGA Revenues		(90,781)	(0.0012)		62,123	0.0007
25 280 Day Margin		-	-		-	-
26 Interruptible Sales Margin		-	-		-	-
27 Capacity Release and Off System Sales Margins		(2,159,873)	(0.0279)		(2,836,642)	(0.0319)
28 Hedging Costs		-	-		-	-
29 FPO Admin Costs		62,993	0.0008		62,993	0.0007
30 Indirect Costs						
31 Misc Overhead		-	-		-	-
32 Occupant Disallowance/Credits		-	-		-	-
33 Production & Storage		3,685,458	0.0476		3,685,459	0.0415
34 Bad Debt Adjustment %		-	-		1,032,904	0.0116
35 Cashout, Broker penalty, Canadian Managed,...		-	-		-	-
36 Total Adjusted Cost	\$	47,336,759	\$ 0.6111	\$	60,937,601	\$ 0.6856

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing

Load Migration From Sales to Transportation in the C&I High and Low Winter Use Classes

July 2023 - June 2024 Normalized Sales and Transportation Volumes (Therms)

	C&I Rate Classes	Annual Sales	% of Total by Class	% of Sales to Total Volume by Class
1	G-41	16,366,543	41.36%	77.16%
2	G-42	12,254,002	30.96%	41.06%
3	G-43	4,169,251	10.54%	36.88%
4	G-51	2,474,194	6.25%	73.41%
5	G-52	2,729,502	6.90%	33.67%
6	G-53	937,629	2.37%	9.95%
7	G-54	642,605	1.62%	4.24%
8				
9	Total C/I	39,573,727	100.00%	
10				
11				% of Transportation to Total Volume by Class
12		Annual Transportation	% of Total by Class	
13				
14	G-41	4,845,547	8.23%	22.84%
15	G-42	17,591,227	29.89%	58.94%
16	G-43	7,136,280	12.13%	63.12%
17	G-51	896,373	1.52%	26.59%
18	G-52	5,377,802	9.14%	66.33%
19	G-53	8,485,991	14.42%	90.05%
20	G-54	14,513,586	24.66%	95.76%
21				
22	Total C/I	58,846,806	100.00%	
23				
24			% of Total by Class	
25	Sales & Transportation	Total		
26	G-41	21,212,090	21.55%	
27	G-42	29,845,229	30.32%	
28	G-43	11,305,531	11.49%	
29	G-51	3,370,567	3.42%	
30	G-52	8,107,304	8.24%	
31	G-53	9,423,620	9.57%	
32	G-54	15,156,191	15.40%	
33				
34	Total C/I	98,420,533	100.00%	

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing**

Schedule 14
Page 1 of 1

Delivered Costs of Winter Supplies to Pipeline Delivered Supplies from the Prior Year

	Off-Peak	Peak	Total	
	May 23 - Oct 23	Nov 23 - Apr 24	May 23 - Apr 24	
	(Therms)	(Therms)	(Therms)	
1 Pipeline Deliveries	16,240,491	77,561,433	93,801,924	
2 All Others	320,270	4,091,640	4,411,910	
3	<u>16,560,761</u>	<u>81,653,073</u>	<u>98,213,834</u>	
4				Ratio
5 Total Winter Supplies				81,653,073
6 Total Pipeline Deliveries				93,801,924
7				
8 Ratio Winter Supplies to Pipeline Supplies				0.870

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing**

July and August Consumption of C&I High and Low Winter Classes as a Percentage of Their Annual Consumption

C&I Sales		Jul-23	Aug-23	Jul - Aug Total	Total Annual	% of Jul-Aug to Total
	Normalized (Therms)					
	(a)	(b)	(c)	(d) = (b) + (c)	(e)	(f) = (d) / (e)
1	G-41	167,439	188,657	356,095	16,366,543	2.18%
2	G-42	163,973	185,840	349,813	12,254,002	2.85%
3	G-43	71,187	86,412	157,598	4,169,251	3.78%
4	G-51	147,893	160,896	308,789	2,474,194	12.48%
5	G-52	154,455	166,927	321,382	2,729,502	11.77%
6	G-53	72,717	84,324	157,041	937,629	16.75%
7	G-54	32,607	33,010	65,617	642,605	10.21%
8						
9						
10	Total C/I	810,270	906,066	1,716,336	39,573,727	4.34%

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing**

Schedule 17
Page 1 of 1

Forecast of Firm Transportation Volumes and Cost of Gas Revenues

Firm Transportation

		Therms 1/	Cost of Gas Rate 2/	Cost of Gas Revenue
1	Nov-24	6,395,064	\$ 0.0014	\$ 9,263
2	Dec-24	7,675,681	0.0014	11,118
3	Jan-25	8,898,558	0.0014	12,889
4	Feb-25	7,661,247	0.0014	11,097
5	Mar-25	7,132,755	0.0014	10,332
6	Apr-25	<u>5,125,445</u>	0.0014	<u>7,424</u>
7				
8	Total	<u>42,888,750</u>		<u>\$ 62,123</u>
9				

11 1/ Per Schedule 10B, line 26. Excludes special contract volumes subject to transportation cost of gas.

12 2/ Refer to Pk Tariff Page 98 for calculation of rate.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Fixed Price Option

Nov - Apr:	Participation	Premium	FPO Volumes	Premium Revenue	Residential FPO Rate	Initial Residential COG Rate	Residential Total Bill - FPO Rate	Residential Total Bill - COG Rate	Difference	% Difference	Commercial FPO Rate	Commercial Average COG Rate	Commercial Total Bill - FPO Rate	Commercial Total Bill - COG Rate	Difference	% Difference
1 1998-1999	6.0%				\$ 0.3927	\$ 0.3722	\$ 943.37	\$ 926.93	\$ 16.44	1.77%	\$ 0.3927	\$ 0.3736	\$ 1,570.86	\$ 1,546.08	\$ 24.79	1.60%
2 1999-2000	9.0%				\$ 0.4724	\$ 0.4628	\$ 679.85	\$ 672.22	\$ 7.63	1.13%	\$ 0.4724	\$ 0.4636	\$ 1,161.81	\$ 1,149.15	\$ 12.67	1.10%
3 2000-2001	20.0%				\$ 0.6408	\$ 0.7656	\$ 816.25	\$ 916.09	\$ (99.84)	-10.90%	\$ 0.6408	\$ 0.7189	\$ 1,376.64	\$ 1,533.43	\$ (156.79)	-10.22%
4 2001-2002	24.0%				\$ 0.5141	\$ 0.4818	\$ 790.65	\$ 760.55	\$ 30.10	3.96%	\$ 0.5238	\$ 0.4928	\$ 1,301.07	\$ 1,256.88	\$ 44.19	3.52%
5 2002-2003	24.0%	\$ 0.0051	25,107,016	\$ 128,045.78	\$ 0.5553	\$ 0.5758	\$ 821.32	\$ 840.44	\$ (19.11)	-2.27%	\$ 0.5658	\$ 0.5860	\$ 1,344.02	\$ 1,372.86	\$ (28.84)	-2.10%
6 2003-2004	23.0%	\$ 0.0219	25,220,575	\$ 552,330.59	\$ 0.8597	\$ 0.8220	\$ 1,115.55	\$ 1,080.46	\$ 35.09	3.25%	\$ 0.8759	\$ 0.8352	\$ 1,798.38	\$ 1,740.30	\$ 58.08	3.34%
7 2004-2005	29.6%	\$ 0.0100	27,378,128	\$ 273,781.28	\$ 0.8925	\$ 0.9425	\$ 1,142.96	\$ 1,189.55	\$ (46.60)	-3.92%	\$ 0.9092	\$ 0.9562	\$ 1,844.75	\$ 1,911.86	\$ (67.10)	-3.51%
8 2005-2006	29.8%	\$ 0.0200	25,944,091	\$ 518,881.82	\$ 1.2951	\$ 1.1342	\$ 1,526.01	\$ 1,376.01	\$ 150.00	10.90%	\$ 1.3192	\$ 1.1686	\$ 2,450.66	\$ 2,235.77	\$ 214.89	9.61%
9 2006-2007	15.1%	\$ 0.0200	13,135,684	\$ 262,713.68	\$ 1.2664	\$ 1.1656	\$ 1,509.79	\$ 1,415.80	\$ 93.99	6.64%	\$ 1.2666	\$ 1.1647	\$ 2,321.15	\$ 2,175.70	\$ 145.45	6.68%
10 2007-2008	15.8%	\$ 0.0200	14,078,553	\$ 281,571.06	\$ 1.2043	\$ 1.1746	\$ 1,433.09	\$ 1,405.40	\$ 27.69	1.97%	\$ 1.2044	\$ 1.1725	\$ 2,232.39	\$ 2,186.92	\$ 45.47	2.08%
11 2008-2009	15.2%	\$ 0.0200	13,041,335	\$ 260,826.70	\$ 1.2835	\$ 1.0888	\$ 1,555.31	\$ 1,373.85	\$ 181.46	13.21%	\$ 1.2836	\$ 1.0958	\$ 2,467.49	\$ 2,199.54	\$ 267.95	12.18%
12 2009-2010	11.4%	\$ 0.0200	8,405,413	\$ 168,108.26	\$ 0.9863	\$ 0.9416	\$ 1,250.80	\$ 1,209.12	\$ 41.69	3.45%	\$ 0.9865	\$ 0.9408	\$ 1,984.29	\$ 1,919.03	\$ 65.26	3.40%
13 2010-2011	12.6%	\$ 0.0200	10,379,804	\$ 207,596.08	\$ 0.8420	\$ 0.8029	\$ 1,175.03	\$ 1,138.58	\$ 36.45	3.20%	\$ 0.8434	\$ 0.8030	\$ 1,880.96	\$ 1,823.34	\$ 57.63	3.16%
14 2011-2012	11.9%	\$ 0.0200	7,835,197	\$ 156,703.94	\$ 0.8126	\$ 0.7309	\$ 1,165.61	\$ 1,089.44	\$ 76.17	6.99%	\$ 0.8129	\$ 0.7327	\$ 1,845.28	\$ 1,730.88	\$ 114.40	6.61%
15 2012-2013	10.9%	\$ 0.0200	8,179,524	\$ 163,590.48	\$ 0.6919	\$ 0.7680	\$ 743.03	\$ 792.48	\$ (49.45)	-6.24%	\$ 0.6936	\$ 0.7724	\$ 1,989.86	\$ 2,132.90	\$ (143.03)	-6.71%
16 2013-2014	10.5%	\$ 0.0200	8,930,779	\$ 178,615.58	\$ 0.9095	\$ 1.1086	\$ 857.72	\$ 981.21	\$ (123.49)	-12.59%	\$ 0.9108	\$ 1.1158	\$ 2,995.66	\$ 3,393.08	\$ (397.41)	-11.71%
17 2014-2015	15.1%	\$ 0.0795	9,297,789	\$ 739,174.23	\$ 1.2425	\$ 1.1230	\$ 1,127.66	\$ 948.07	\$ 179.59	18.94%						
18 2015-2016	15.3%	\$ 0.0200	4,941,157	\$ 98,823.14	\$ 0.7716	\$ 0.7516	\$ 869.15	\$ 712.73	\$ 156.42	21.95%						
19 2016-2017	11.5%	\$ 0.0106	5,419,967	\$ 57,451.65	\$ 0.7268	\$ 0.7162	\$ 827.14	\$ 812.38	\$ 14.76	1.82%						
20 2017-2018	10.6%	\$ 0.0200	5,298,900	\$ 105,978.00	\$ 0.6645	\$ 0.6445	\$ 878.70	\$ 865.94	\$ 12.76	1.47%						
21 2018-2019	10.8%	\$ 0.0200	5,708,925	\$ 114,178.50	\$ 0.7611	\$ 0.7411	\$ 984.83	\$ 972.12	\$ 12.71	1.31%						
22 2019-2020	7.2%	\$ 0.0200	3,447,167	\$ 68,943.34	\$ 0.6403	\$ 0.6203	\$ 930.46	\$ 917.74	\$ 12.72	1.39%						
23 2020-2021	11.1%	\$ 0.0200	5,373,268	\$ 107,465.36	\$ 0.5771	\$ 0.5571	\$ 895.32	\$ 882.60	\$ 12.72	1.44%						
24 2021-2022	12.0%	\$ 0.0200	5,800,339	\$ 116,006.78	\$ 1.1539	\$ 1.1339	\$ 1,333.97	\$ 1,320.63	\$ 13.34	1.01%						
25 2022-2023	8.5%	\$ 0.0200	3,765,099	\$ 75,301.97	\$ 1.4500	\$ 1.4300	\$ 1,466.88	\$ 1,453.54	\$ 13.34	0.92%						
26 2023-2024	12.0%	\$ 0.0200	5,140,358	\$ 102,807.16	\$ 0.7763	\$ 0.7563	\$ 1,059.35	\$ 1,046.55	\$ 12.80	1.22%						
27 2024-2025					\$ 0.6986	\$ 0.6786	\$ 1,069.35	\$ 1,056.63	\$ 12.72	1.20%						
28 Total									\$ 812.09						\$ 257.59	

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Short-Term Debt Limitations**

	<u>For Purposes of Fuel Financing</u>	
Total Direct Gas Costs	\$	55,639,395
Total Indirect Gas Costs		<u>4,736,843</u>
Total Gas Costs	\$	60,376,238
% of Debt to Total Gas Costs		30%
Short Term Debt	\$	18,112,871
	<u>For Purposes Other Than Fuel Financing</u>	
12/31/2024 Projected Net Plant	\$	619,517,380
% of Debt to Net Plant		20%
Short Term Debt	\$	123,903,476

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Company Allowance Calculation &
Lost and Unaccounted For Gas ("LAUF") Calculation**

Company Allowance Calculation

	Jul-2023	Aug-2023	Sep-2023	Oct-2023	Nov-2023	Dec-2023	Jan-2024	Feb-2024	Mar-2024	Apr-2024	May-2024	Jun-2024	Total
1 Total Sendout- Therms	5,064,465	5,277,670	5,593,807	8,820,545	18,994,856	20,836,034	27,185,708	22,975,636	18,789,145	13,459,147	7,215,218	5,219,925	159,432,155
2 Total Throughput - Therms	5,110,353	5,223,618	5,223,506	5,674,523	10,823,794	19,141,951	21,616,313	25,121,138	21,716,898	17,406,603	11,679,337	6,488,655	155,226,688
3 Variance	(45,888)	54,052	370,301	3,146,023	8,171,062	1,694,084	5,569,395	(2,145,502)	(2,927,753)	(3,947,457)	(4,464,120)	(1,268,730)	4,205,467
4 Company Allowance													2.64%

Lost and Unaccounted For Gas ("LAUF") Calculation

	Jul-2023	Aug-2023	Sep-2023	Oct-2023	Nov-2023	Dec-2023	Jan-2024	Feb-2024	Mar-2024	Apr-2024	May-2024	Jun-2024	Total
5 Total Sendout- Therms	5,064,465	5,277,670	5,593,807	8,820,545	18,994,856	20,836,034	27,185,708	22,975,636	18,789,145	13,459,147	7,215,218	5,219,925	159,432,155
6 Total Throughput- Therms	5,110,353	5,223,618	5,223,506	5,674,523	10,823,794	19,141,951	21,616,313	25,121,138	21,716,898	17,406,603	11,679,337	6,488,655	155,226,688
7 Company Use	1,971	1,982	6,067	5,302	17,823	84,495	37,797	34,443	17,377	12,808	5,394	1,922	227,379
8 Variance	(47,859)	52,070	364,234	3,140,721	8,153,239	1,609,588	5,531,599	(2,179,945)	(2,945,130)	(3,960,265)	(4,469,513)	(1,270,651)	3,978,088
9 LAUF													2.50%

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Fuel Inventory Revenue Requirement

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
			Jun-23	Sep-23	Dec-23	Mar-24	Jun-24
		5 Quarter Avg	Q2 2023	Q3 2023	Q4 2023	Q1 2024	Q2 2024
1							
2	Gas Stored Underground	\$ 2,446,526	\$ 2,894,784	\$ 3,761,153	\$ 3,276,263	\$ 572,526	\$ 1,727,906
3	Fuel Stock - Propane	\$ 1,614,911	\$ 1,555,784	\$ 1,688,750	\$ 1,689,153	\$ 1,635,581	\$ 1,505,289
4	UG Storage - LNG	\$ 91,225	\$ 114,826	\$ 137,476	\$ 55,245	\$ 70,443	\$ 78,136
5		\$ 4,152,663					
6	ROR		8.76%	Pre-Tax Rate of 6.64% and Statutory Tax Rate of 27.08%			
		\$ 363,666					
7	Income Tax Gross-up	1.2708					
8	Revenue Requirement	\$ 462,146					

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing**

Table of Contents

Tab	Title	Description
OP Summary	Summary	Cost of Gas Summary
	Schedule 1	N/A - Summary of Supply and Demand Forecast is no longer included in this filing
	Schedule 2	N/A - Contracts Ranked on a per Unit Cost Basis is no longer included in this filing
OP Schedule 3	Schedule 3, Page 1	COG (Over)/Under Cumulative Recovery Balances and Interest Calculation
	Schedule 3, Page 2	Working Capital (Over)/Under Cumulative Recovery Balances and Interest Calculation
	Schedule 3, Page 3	Bad Debt (Over)/Under Cumulative Recovery Balances and Interest Calculation
	Schedule 3, Page 4	COG, Working Capital, and Bad Debt Rate Calculations
OP Schedule 4	Schedule 4	Adjustments to Gas Costs
OP Schedule 5	Schedule 5, Page 1	Demand Costs
	Schedule 5, Page 2	Demand Volumes
	Schedule 5, Page 3	Firm Transportation Rates
OP Schedule 6	Schedule 6, Page 1	Supply and Commodity Costs
	Schedule 6, Page 1	Supply and Commodity Volumes
	Schedule 6, Page 3-5	Firm Transportation Rates
	Schedule 7	N/A - NYMEX Futures @ Henry Hub is no longer included as a separate schedule - see Schedule 6
OP Schedule 8	Schedule 8, Page 1	Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25 for R-3 Non-FPO
	Schedule 8, Page 2	Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25 for R-4 GAP
	Schedule 8, Page 3	Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25 for G-41
	Schedule 8, Page 4	Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25 for G-41
	Schedule 8, Page 5	Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25 for G-52
	Schedule 8, Page 6	Residential Heating
OP Schedule 10A	Schedule 10A, Pages 1-2	Derivation of Class Assignments, Weightings and Correction Factor
	Schedule 10A, Page 3	Correction Factor Calculation
	Schedule 10B	N/A - See Pk Schedule 10B
OP Schedule 11	Schedule 11, Page 1	Normal and Design Year Volumes
	Schedule 11, Page 2	Capacity Utilization
	Schedule 12	N/A - See Pk Schedule 12
OP Schedule 13	Schedule 13	Storage Inventory, Underground, LPG and LNG

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
UPDATED Summary

(a)	Reference (b)	OP 25 May - Oct (c)
1 Anticipated Direct Cost of Gas		
2 Purchased Gas:		
3 Demand Costs:	Schedule 3, col (q), In 10	\$ 1,210,454
4 Supply Costs	Schedule 3, col (q), In 11	6,947,947
5		
6 Storage Gas:		
7 Demand, Capacity:		-
8 Commodity Costs:		-
9		
10 Produced Gas:		-
11		
12 Hedge Contract (Savings)	Schedule 3, col (q), In 12	<u>(3,860,898)</u>
13		
14 Total Unadjusted Cost of Gas		<u>\$ 4,297,502</u>
15		
16 Adjustments:		
17		
18 Prior Period (Over)/Under Recovery	Schedule 3, col (c), In 27	\$ (410,878)
19 Interest 11/01/24-10/31/25	Schedule 3, col (q), In 110	23,689
20 Accounting Adjustments	Schedule 3, col (q), In 18 + In 55 + In	-
21 Refunds from Suppliers	Schedule 4, In 2	-
22 Broker Revenues	Schedule 4, In 3	-
23 Fuel Financing	Schedule 4, In 4	-
24 Transportation CGA Revenues	Schedule 4, In 5	-
25 Interruptible Sales Margin	Schedule 4, In 6	-
26 Capacity Release and Off System Sales Margins	Schedule 4, In 7 + In 8	(3,069,734)
27 Hedging Costs	Schedule 4, In 9	-
28 Fixed Price Option Administrative Costs	Schedule 4, In 10	-
29		
30 Total Adjustments		<u>\$ (3,456,923)</u>
31		
32 Total Anticipated Direct Costs	Ins 14 + 30	<u>\$ 840,579</u>
33		
34 Anticipated Indirect Cost of Gas		
35 Working Capital		
36 Total Unadjusted Anticipated Cost of Gas	In 14	\$ 4,297,502
37 Lead Lag Days / 365	DG 20-105, 25.72/ 365	0.0705
38 Prime Rate		8.00%
39 Working Capital Percentage	In 37 * In 38	0.564%
40 Working Capital	Schedule 3, col (q), In 52	24,238
41 Prior Period Working Capital	Schedule 3, col (c), In 63	<u>(5,233)</u>
42		
43 Total Working Capital Allowance	Ins 40 + 41	<u>\$ 19,005</u>
44		
45 Bad Debt		
46 Total Unadjusted Anticipated Cost of Gas	In 14	\$ 4,297,502
47 Less Refunds	In 21	-
48 Plus Working Capital	In 43	19,005
49 Plus Prior Period (Over) Under Recovery	In 18	<u>(410,878)</u>
50 Subtotal		\$ 3,905,630
51 Bad Debt Percentage	per GTC 18(f)	1.99%
52		
53 Bad Debt Allowance	Schedule 3, col (q), In 87	8,995
54 Prior Period Bad Debt Allowance	Schedule 3, col (c), In 97	<u>749,119</u>
55		
56 Total Bad Debt Allowance	Ins 53 + 54	<u>\$ 758,114</u>
57		
58 Production and Storage Capacity	per GTC18(f)	<u>\$ -</u>
59		
60 Miscellaneous Overhead	per GTC 18(f)	\$ -
61 Sales Volume	Schedule 10B, col (o), In 15/1000	22,423
62 Divided by Total Sales	Schedule 10B, col (p), In 15/1000	111,311
63 Ratio		<u>20.14%</u>
64		
65 Miscellaneous Overhead	Ins 60 * 63	<u>\$ -</u>
66		
67 Total Anticipated Indirect Cost of Gas	Ins 43 + 56 + 58 + 65	<u>\$ 777,119</u>
68		
69 Total Cost of Gas	Ins 32 + 67	<u>\$ 1,617,699</u>
70		
71 Projected Forecast Sales (Therms)	Sch. 3, col (r), In 30	<u>22,422,719</u>

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

UPDATED Schedule 3
Page 1 of 4

	Days in Month (b)	Prior Period Bal Oct-24 Ending Bal (c)	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Total (q)	
			Nov-24 30 (d)	Dec-24 31 (e)	Jan-25 31 (f)	Feb-25 28 (g)	Mar-25 31 (h)	Apr-25 30 (i)	May-25 31 (j)	Jun-25 30 (k)	Jul-25 31 (l)	Aug-25 31 (m)	Sep-25 30 (n)	Oct-25 31 (o)		
Account 10168-130800-11174002 COG (Over)/Under Balance																
Beginning Balance	Account 10168-130800-11174001	\$ (410,878)	\$ (410,878)	\$ (413,572)	\$ (416,374)	\$ (419,203)	\$ (421,776)	\$ (424,642)	\$ (427,434)	\$ 301,264	\$ 170,863	\$ (708,432)	\$ 429,626	\$ (1,053,605)	\$ (410,878)	
Purchased Gas:																
Demand Costs:	Sch. 5, In 34	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 201,742	\$ 201,742	\$ 201,742	\$ 201,742	\$ 201,742	\$ 1,210,454	
Supply Costs	Sch. 6, In 36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,554,953	\$ 1,004,480	\$ 982,001	\$ 865,264	\$ 876,491	\$ 6,947,947	
Hedge Contract (Savings)	Sch. 6, In 38	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (643,483)	\$ (643,483)	\$ (643,483)	\$ (643,483)	\$ (643,483)	\$ (3,860,898)	
Total Unadjusted Cost of Gas		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,113,213	\$ 562,739	\$ 540,260	\$ 423,524	\$ 434,750	\$ 4,297,502	
Production & Storage		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Misc. Overhead		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Revenues w/o Int.	In 32 * 39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (194,991)	\$ (98,726)	\$ (79,648)	\$ (81,088)	\$ (110,307)	\$ (816,891)	
Accounting Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Adjustments to Gas Costs	Sch. 4, In 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (189,096)	\$ (595,962)	\$ (1,338,087)	\$ 796,565	\$ (1,805,629)	\$ (3,069,734)	
Monthly (Over)/Under Recovery		\$ (410,878)	\$ (413,572)	\$ (416,374)	\$ (419,203)	\$ (421,776)	\$ (424,642)	\$ (427,434)	\$ (427,434)	\$ 301,691	\$ 169,316	\$ (706,612)	\$ 430,569	\$ (1,051,561)	\$ (20,245)	
Average Monthly Balance	(In 7 + 20)/2	\$ (410,878)	\$ (413,572)	\$ (416,374)	\$ (419,203)	\$ (421,776)	\$ (424,642)	\$ (427,434)	\$ (427,434)	\$ 235,290	\$ 235,290	\$ (267,874)	\$ (138,931)	\$ (310,968)	\$ (536,925)	
Interest Rate	Prime Rate		8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	
Interest Applied	In 21 * In 23 / (366 OR 365) * Days of Month	\$ (2,694)	\$ (2,802)	\$ (2,829)	\$ (2,573)	\$ (2,866)	\$ (2,792)	\$ (2,792)	\$ (427)	\$ 1,547	\$ (1,820)	\$ (944)	\$ (2,045)	\$ (3,648)	\$ (23,893)	
(Over)/Under Balance	In 20 + In 25	\$ (410,878)	\$ (413,572)	\$ (416,374)	\$ (419,203)	\$ (421,776)	\$ (424,642)	\$ (427,434)	\$ (427,434)	\$ 301,264	\$ 170,863	\$ (708,432)	\$ 429,626	\$ (1,053,605)	\$ (23,893)	
Forecast Sendout Therms	Sch. 6, In 62 * 10									5,165,585	3,326,947	3,037,586	2,894,453	3,567,630	6,563,081	24,555,282
Less Forecast Billing Therm Sales	Sch. 10B, In 15									5,352,280	2,709,906	2,186,239	2,225,764	3,027,813	6,920,717	22,422,719
Less Forecast Unaccounted For	In 31 * Sch. 25, In 9									128,890	83,013	75,793	72,221	89,018	163,759	612,694
Less Forecast Company Use	In 31 * 0.00064									3,306	2,129	1,944	1,852	2,283	4,200	15,715
Unbilled Volumes	In 31 - Ins 32 through 34									(318,891)	531,899	773,610	594,615	448,516	(525,696)	1,504,154
Gross Unbilled	In 35 + prior month in 36									(318,891)	213,009	986,619	1,581,234	2,029,750	1,504,154	
COB w/o Interest	In 128 col. (c)									\$0.0364	\$0.0364	\$0.0364	\$0.0364	\$0.0364	\$0.0364	
COG With Interest	In 128 col. (d)									\$0.0354	\$0.0354	\$0.0354	\$0.0354	\$0.0354	\$0.0354	

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Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

UPDATED Schedule 3
Page 2 of 4

	(a) Days in Month (b)	Prior Period Bal Oct-24 Ending Bal (c)	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Total (q)
			Nov-24 30 (d)	Dec-24 31 (e)	Jan-25 31 (f)	Feb-25 28 (g)	Mar-25 31 (h)	Apr-25 30 (i)	May-25 31 (j)	Jun-25 30 (k)	Jul-25 31 (l)	Aug-25 31 (m)	Sep-25 30 (n)	Oct-25 31 (o)	
Account 10168-130802-11142005 Working Capital (Over)/Under Balance															
Beginning Balance	Account 10168-130801-11142004	\$ (5,233)	\$ (5,233)	\$ (5,267)	\$ (5,303)	\$ (5,339)	\$ (5,372)	\$ (5,408)	\$ (5,444)	\$ (3,733)	\$ (2,877)	\$ (1,699)	\$ (1,207)	\$ (1,329)	\$ (5,233)
Days Lag	DG 20-105, 25,72/ 365		0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705	0.0705
Prime Rate			8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
Working Capital	In 14 * In 50 * In 51	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,279	\$ 3,174	\$ 3,047	\$ 2,389	\$ 2,452	\$ 6,898	\$ 24,238
Revenues w/o Int.	In 67 * In 71	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,536)	\$ (2,297)	\$ (1,853)	\$ (1,887)	\$ (2,566)	\$ (5,866)	\$ (19,005)
Add Net Adjustments		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Monthly (Over)/Under Recovery		\$ (5,233)	\$ (5,267)	\$ (5,303)	\$ (5,339)	\$ (5,372)	\$ (5,408)	\$ (5,444)	\$ (3,702)	\$ (2,856)	\$ (1,683)	\$ (1,197)	\$ (1,321)	\$ (297)	\$ -
Average Monthly Balance	(In 48 + In 56)/2	\$ (5,233)	\$ (5,267)	\$ (5,303)	\$ (5,339)	\$ (5,372)	\$ (5,408)	\$ (5,444)	\$ (4,573)	\$ (3,294)	\$ (2,280)	\$ (1,448)	\$ (1,264)	\$ (813)	\$ -
Interest Rate	Prime Rate		8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%
Interest Applied	In 57 * In 59 / (366 OR 365) * Days of Month	\$ (34)	\$ (36)	\$ (36)	\$ (33)	\$ (36)	\$ (36)	\$ (31)	\$ (22)	\$ (15)	\$ (10)	\$ (8)	\$ (6)	\$ (6)	\$ (303)
(Over)/Under Balance	In 56 + In 61	\$ (5,233)	\$ (5,267)	\$ (5,303)	\$ (5,339)	\$ (5,372)	\$ (5,408)	\$ (5,444)	\$ (3,733)	\$ (2,877)	\$ (1,699)	\$ (1,207)	\$ (1,329)	\$ (303)	\$ (303)
Forecast Therm Sales	In 32								5,352,280	2,709,906	2,186,239	2,225,764	3,027,813	6,920,717	22,422,719
Unbilled Therm	In 35								(318,891)	531,899	773,610	594,615	448,516	(525,596)	1,504,154
Gross Unbilled									(318,891)	213,009	986,619	1,581,234	2,029,750	1,504,154	
Working Cap. Rate w/out Int.	In 145 col. (c)		\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008
Working Capital Rate w/ Int.	In 145 col. (d)		\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008	\$0.0008

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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

UPDATED Schedule 3
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	(a)	Days in Month (b)	Prior Period Bal	EST												Total (q)	
			Oct-24 Ending Bal (c)	Nov-24 30 (d)	Dec-24 31 (e)	Jan-25 31 (f)	Feb-25 28 (g)	Mar-25 31 (h)	Apr-25 30 (i)	May-25 31 (j)	Jun-25 30 (k)	Jul-25 31 (l)	Aug-25 31 (m)	Sep-25 30 (n)	Oct-25 31 (o)		
Account 10168-130803-11174002 Bad Debt (Over)/Under Balance																	
80	Direct Gas Costs	In 14	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	1,113,213 \$	562,739 \$	540,260 \$	423,524 \$	434,750 \$	1,223,017 \$	4,297,502 \$
81	Working Capital	In 52	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	6,279 \$	3,174 \$	3,047 \$	2,389 \$	2,452 \$	6,898 \$	24,238 \$
82	Prior Period Balance	In 27	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	(68,480) \$	(68,480) \$	(68,480) \$	(68,480) \$	(68,480) \$	(68,480) \$	(410,878) \$
83	Total Forecast Direct Gas Costs & Working Capital		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	1,051,012 \$	497,434 \$	474,827 \$	397,433 \$	366,722 \$	1,161,435 \$	3,910,863 \$
84																	
85	Beginning Balance	Account 10168-130804-11174003	\$	749,119	754,031	759,141	764,299	768,989	774,214	779,305	605,450	518,655	449,107	377,474	278,100	749,119	
86			\$	749,119	754,031	759,141	764,299	768,989	774,214	779,305	605,450	518,655	449,107	377,474	278,100	749,119	
87	Forecast Bad Debt	In 83 * 0.0023	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	2,417 \$	1,144 \$	1,092 \$	822 \$	848 \$	2,671 \$	8,995 \$
88	Projected Revenues w/o int	In 101 * In 105	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	(180,961) \$	(91,622) \$	(73,917) \$	(75,253) \$	(102,371) \$	(233,990) \$	(758,114) \$
89	Add Net Adjustments		\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
90	Monthly (Over)/Under Recovery		\$	749,119	754,031	759,141	764,299	768,989	774,214	779,305	600,761	514,971	445,830	374,676	275,952	46,781	(0)
91	Average Monthly Balance	(In 85 + In 90)/2	\$	749,119	754,031	759,141	764,299	768,989	774,214	779,305	690,033	560,211	482,243	411,891	326,713	162,441	
92																	
93	Interest Rate	Prime Rate		8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	8.00%	
94																	
95	Interest Applied	In 91 * In 93 / (366 OR 365) * Days of Month	\$	4,912	5,109	5,158	4,690	5,225	5,091	4,688	3,684	3,277	2,799	2,148	1,104	47,885	
96																	
97	(Over)/Under Balance	In 90 + In 95	\$	749,119	754,031	759,141	764,299	768,989	774,214	779,305	605,450	518,655	449,107	377,474	278,100	47,885	47,885
98																	
99																	
100																	
101	Forecast Term Sales	In 32								5,352,280	2,709,906	2,186,239	2,225,764	3,027,813	6,920,717	22,422,719	
102	Unbilled Therm	In 35								(318,891)	531,899	773,610	594,615	448,516	(525,596)	1,504,154	
103	Gross Unbilled									(318,891)	213,005	986,619	1,581,294	2,029,750	1,504,154		
104																	
105	COG Rate Without Interest	In 162 col. (c)								\$0.0338	\$0.0338	\$0.0338	\$0.0338	\$0.0338	\$0.0338	\$0.0338	
106																	
107	COG With Interest	In 162 col. (d)								\$0.0359	\$0.0359	\$0.0359	\$0.0359	\$0.0359	\$0.0359	\$0.0359	
108																	
109																	
110	Total Interest	In 25 + 61 + 95	\$	2,184	2,271	2,293	2,085	2,323	2,263	4,230	5,209	1,441	1,845	95	(2,550)	23,689	
111																	

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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
COG (Over)/Under Cumulative Recovery Balances and Interest Calculation

		<u>COG Rate Without Interest</u>	<u>COG Rate With Interest</u>
		(c)	(d)
112	Calculation of COG		
113	(a)		
114	(Over)/Under Recovery Balance	In 7, col. (q)	
115		\$ (410,878)	\$ (410,878)
116	Unadjusted Forecast of Gas Costs	In 14, col. (q)	
117		\$ 4,297,502	\$ 4,297,502
118	Production & Storage and Misc Overhead	In 16, col. (q)	
119		\$ -	\$ -
120	Adjustments	In 19, col. (q)	
121		\$ (3,069,734)	\$ (3,069,734)
122	Interest May-Oct	In 25, col. (q)	
123		\$ -	\$ (23,893)
124	Total Gas To Be Recovered		\$ 792,997
125	Forecast Gas Sales (May-Oct)	In 32, col. (q)	
126		\$ 22,422,719	\$ 22,422,719
127	Preliminary COG Rate	In 124 / In 126	
128		<u>\$0.0364</u>	<u>\$0.0354</u>
129			
130			
		<u>Working Capital Rate without interest</u>	<u>Working Capital Rate with interest</u>
		(c)	(d)
131	Calculation of Working Capital Rate		
132	(a)		
133	(Over)/Under Recovery Balance	In 48, col. (q)	
134		\$ (5,233)	\$ (5,233)
135	Unadjusted Working Capital Forecast	In 52, col. (q)	
136		\$ 24,238	\$ 24,238
137	Adjustments without interest	In 55, col. (q)	
138		\$ -	\$ -
139	Interest May-Oct	In 61, col. (q)	
140		\$ -	\$ (303)
141	Total Gas To Be Recovered		\$ 18,702
142	Forecast Gas Sales (May-Oct)	In 32, col. (q)	
143		\$ 22,422,719	\$ 22,422,719
144	Preliminary Working Capital COG Rate	In 141 / In 143	
145		<u>\$0.0008</u>	<u>\$0.0008</u>
146			
147			
		<u>Bad Debt Rate without interest</u>	<u>Bad Debt Rate with interest</u>
		(c)	(d)
148	Calculation of Bad Debt Rate		
149	(a)		
150	(Over)/Under Recovery Balance	In 85, col. (q)	
151		\$ 749,119	\$ 749,119
152	Unadjusted Bad Debt Forecast	In 87, col. (q)	
153		\$ 8,995	\$ 8,995
154	Adjustments without interest	In 89, col. (q)	
155		\$ -	\$ -
156	Interest May-Oct	In 95, col. (q)	
157		\$ -	\$ 47,885
158	Total Gas To Be Recovered		\$ 805,999
159	Forecast Gas Sales (May-Oct)	In 32, col. (q)	
160		\$ 22,422,719	\$ 22,422,719
161	Preliminary Bad Debt COG Rate	In 158 / In 160	
162		<u>\$0.0338</u>	<u>\$0.0359</u>

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Adjustments to Gas Costs

	EST Nov-24 1/	EST Dec-24 1/	EST Jan-25 1/	EST Feb-25 1/	EST Mar-25 1/	EST Apr-25 1/	EST May-25 1/	EST Jun-25 1/	EST Jul-25 1/	EST Aug-25 1/	EST Sep-25 1/	EST Oct-25 1/	TOTAL	
1	Prior Period Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
2	Refunds from Suppliers	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
3	Broker Revenue	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
4	Inventory Finance Charges	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
5	Transportation CGA Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
6	Interruptible Sales Margin	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
7	Off System Sales Margin	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
8	Capacity Release	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (189,096)	\$ (595,962)	\$ (1,338,087)	\$ 796,565	\$ (1,805,629)	\$ 62,475	\$ (3,069,734)
9	Net Option Premiums	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
10	Fixed Price Option Administrative Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-
11	Total Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (189,096)	\$ (595,962)	\$ (1,338,087)	\$ 796,565	\$ (1,805,629)	\$ 62,475	\$ (3,069,734)

1/ Estimates are based on prior years actuals.

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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25

Non FPO Rate
May 1, 2025 - October 31, 2025
Residential Heating (R3)

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	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	EST	EST	EST	EST	EST	EST	Summer
	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	May-Oct
1 PROPOSED R-3							
2							
3 average Usage (Therms)	37	19	14	12	21	52	155
4							
5 Summer:							
6 Cust. Chg							
7 Headblock \$ 0.6167	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
8 Tailblock \$ 0.6167	\$ 23.04	\$ 11.94	\$ 8.53	\$ 7.61	\$ 12.98	\$ 31.78	\$ 95.88
9 HB Threshold -							
10							
11 Total Base Rate Amount	\$ 39.80	\$ 28.70	\$ 25.29	\$ 24.37	\$ 29.74	\$ 48.54	\$ 196.44
12							
13 COG Rate - (Seasonal)	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722
14 COG amount	\$ 2.70	\$ 1.40	\$ 1.00	\$ 0.89	\$ 1.52	\$ 3.72	\$ 11.23
15							
16 LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
17 LDAC amount	\$ 7.42	\$ 3.85	\$ 2.75	\$ 2.45	\$ 4.18	\$ 10.23	\$ 30.88
18							
19 Total Bill	\$ 49.91	\$ 33.95	\$ 29.03	\$ 27.71	\$ 35.44	\$ 62.49	\$ 238.55

May 1, 2024 - October 31, 2024
Residential Heating (R3)

	ACT	ACT	ACT	EST	EST	EST	Summer
	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	May-Oct
20 CURRENT R-3							
21							
22 average Usage (Therms)	37	19	14	12	21	52	155
23							
24 Summer:							
25 Cust. Chg							
26 Headblock \$ 0.6167	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
27 Tailblock \$ 0.6167	\$ 23.04	\$ 11.94	\$ 8.53	\$ 7.61	\$ 12.98	\$ 31.78	\$ 95.88
28 HB Threshold -							
29							
30 Total Base Rate Amount	\$ 39.80	\$ 28.70	\$ 25.29	\$ 24.37	\$ 29.74	\$ 48.54	\$ 196.44
31							
32 COG Rate - (Seasonal)	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187
33 COG amount	\$ 0.70	\$ 0.36	\$ 0.26	\$ 0.23	\$ 0.39	\$ 0.96	\$ 2.91
34							
35 LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
36 LDAC amount	\$ 7.42	\$ 3.85	\$ 2.75	\$ 2.45	\$ 4.18	\$ 10.23	\$ 30.88
37							
38 Total Bill	\$ 47.92	\$ 32.91	\$ 28.29	\$ 27.05	\$ 34.32	\$ 59.74	\$ 230.23

DIFFERENCE:

39 Total Bill	\$ 2.00	\$ 1.04	\$ 0.74	\$ 0.66	\$ 1.13	\$ 2.76	\$ 8.32
40 % Change	4.17%	3.15%	2.61%	2.44%	3.28%	4.62%	3.61%
41							
42 Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
43 % Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
44							
45 COG & LDAC	\$ 2.00	\$ 1.04	\$ 0.74	\$ 0.66	\$ 1.13	\$ 2.76	\$ 8.32
46 % Change	24.62%	24.62%	24.62%	24.62%	24.62%	24.62%	24.62%

Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25

GAP Rate

May 1, 2025 - October 31, 2025

Residential Heating (R4-GAP)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	EST	EST	EST	EST	EST	EST	Summer
	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	May-Oct
47 PROPOSED R-4 GAP							
48							
49 average Usage (Therms)	37	19	14	12	21	52	155
50							
51 Summer:							
52 Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
53 Headblock	\$ 0.6167						
54 Tailblock	\$ 23.04	\$ 11.94	\$ 8.53	\$ 7.61	\$ 12.98	\$ 31.78	\$ 95.88
55 HB Threshold	-						
56							
57 Total Base Rate Amount	\$ 39.80	\$ 28.70	\$ 25.29	\$ 24.37	\$ 29.74	\$ 48.54	\$ 196.44
58							
59 COG Rate - (Seasonal)	\$ 0.0397	\$ 0.0397	\$ 0.0397	\$ 0.0397	\$ 0.0397	\$ 0.0397	\$ 0.0397
60 COG amount	\$ 1.48	\$ 0.77	\$ 0.55	\$ 0.49	\$ 0.84	\$ 2.05	\$ 6.17
61							
62 LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
63 LDAC amount	\$ 7.42	\$ 3.85	\$ 2.75	\$ 2.45	\$ 4.18	\$ 10.23	\$ 30.88
64							
65 Total Bill	\$ 48.70	\$ 33.32	\$ 28.58	\$ 27.31	\$ 34.76	\$ 60.82	\$ 233.50

May 1, 2024 - October 31, 2024

Residential Heating (R4-GAP)

	ACT	ACT	ACT	EST	EST	EST	Summer
	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	May-Oct
66 CURRENT R-4 GAP							
67							
68 average Usage (Therms)	37	19	14	12	21	52	155
69							
70 Summer:							
71 Cust. Chg	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 16.76	\$ 100.56
72 Headblock	\$ 0.6167						
73 Tailblock	\$ 23.04	\$ 11.94	\$ 8.53	\$ 7.61	\$ 12.98	\$ 31.78	\$ 95.88
74 HB Threshold	-						
75							
76 Total Base Rate Amount	\$ 39.80	\$ 28.70	\$ 25.29	\$ 24.37	\$ 29.74	\$ 48.54	\$ 196.44
77							
78 COG Rate - (Seasonal)	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187	\$ 0.0187
79 COG amount	\$ 0.70	\$ 0.36	\$ 0.26	\$ 0.23	\$ 0.39	\$ 0.96	\$ 2.91
80							
81 LDAC	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986	\$ 0.1986
82 LDAC amount	\$ 7.42	\$ 3.85	\$ 2.75	\$ 2.45	\$ 4.18	\$ 10.23	\$ 30.88
83							
84 Total Bill	\$ 47.92	\$ 32.91	\$ 28.29	\$ 27.05	\$ 34.32	\$ 59.74	\$ 230.23

DIFFERENCE:

85 Total Bill	\$0.78	\$0.41	\$0.29	\$0.26	\$0.44	\$1.08	\$3.27
86 % Change	1.64%	1.24%	1.03%	0.96%	1.29%	1.81%	1.42%
87							
88 Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
89 % Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
90							
91 COG & LDAC	\$ 0.78	\$ 0.41	\$ 0.29	\$ 0.26	\$ 0.44	\$ 1.08	\$ 3.27
92 % Change	9.67%	9.67%	9.67%	9.67%	9.67%	9.67%	9.67%

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Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25
May 1, 2025 - October 31, 2025

Commercial Rate (G-41)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
93	PROPOSED G-41	EST	EST	EST	EST	EST	EST	Summer
94		May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	May-Oct
95	average Usage (Therms)	91	47	33	25	47	141	383
96								
97	Summer: <u>11/1/23 - Current</u>							
98	Cust. Chg	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 397.38
99	Headblock \$ 0.5367	\$ 10.73	\$ 10.73	\$ 10.73	\$ 10.73	\$ 10.73	\$ 10.73	\$ 64.40
100	Tailblock \$ 0.3692	\$ 26.15	\$ 9.85	\$ 4.65	\$ 1.95	\$ 9.80	\$ 44.77	\$ 97.18
101	HB Threshold 20							
102								
103	Total Base Rate Amount	\$ 103.11	\$ 86.82	\$ 81.62	\$ 78.91	\$ 86.76	\$ 121.74	\$ 558.96
104								
105	COG Rate - (Seasonal)	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722
106	COG amount	\$ 6.56	\$ 3.37	\$ 2.35	\$ 1.82	\$ 3.36	\$ 10.20	\$ 27.67
107								
108	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
109	LDAC amount	\$ 7.94	\$ 4.08	\$ 2.85	\$ 2.21	\$ 4.07	\$ 12.35	\$ 33.49
110								
111	Total Bill	\$117.61	\$94.27	\$86.82	\$82.94	\$94.19	\$144.29	\$620.12

May 1, 2024 - October 31, 2024
Commercial Rate (G-41)

CURRENT G-41		ACT	ACT	ACT	EST	EST	EST	Summer
112		May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	May-Oct
113								
114	average Usage (Therms)	91	47	33	25	47	141	383
115								
116	Summer: <u>11/1/23 - Current</u>							
117	Cust. Chg	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 66.23	\$ 397.38
118	Headblock \$ 0.5367	\$ 10.73	\$ 10.73	\$ 10.73	\$ 10.73	\$ 10.73	\$ 10.73	\$ 64.40
119	Tailblock \$ 0.3692	\$ 26.15	\$ 9.85	\$ 4.65	\$ 1.95	\$ 9.80	\$ 44.77	\$ 97.18
120	HB Threshold 20							
121								
122	Total Base Rate Amount	\$ 103.11	\$ 86.82	\$ 81.62	\$ 78.91	\$ 86.76	\$ 121.74	\$ 558.96
123								
124	COG Rate - (Seasonal)	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181
125	COG amount	\$ 1.64	\$ 0.85	\$ 0.59	\$ 0.46	\$ 0.84	\$ 2.56	\$ 6.94
126								
127	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
128	LDAC amount	\$ 7.94	\$ 4.08	\$ 2.85	\$ 2.21	\$ 4.07	\$ 12.35	\$ 33.49
129								
130	Total Bill	\$112.70	\$91.74	\$85.05	\$81.58	\$91.67	\$136.64	\$599.39

DIFFERENCE:

131	Total Bill	\$ 4.91	\$ 2.53	\$ 1.76	\$ 1.37	\$ 2.52	\$ 7.64	\$ 20.73
132	% Change	4.36%	2.75%	2.07%	1.68%	2.75%	5.59%	3.46%
133								
134	Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
135	% Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
136								
137	COG & LDAC	\$ 4.91	\$ 2.53	\$ 1.76	\$ 1.37	\$ 2.52	\$ 7.64	\$ 20.73
138	% Change	51.28%	51.28%	51.28%	51.28%	51.28%	51.28%	51.28%

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Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25
May 1, 2025 - October 31, 2025

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
139	PROPOSED G-42	EST May-25	EST Jun-25	EST Jul-25	EST Aug-25	EST Sep-25	EST Oct-25	Summer May-Oct
141	average Usage (Therms)	1,031	572	420	343	619	1,610	4,595
142		<u>11/1/23 - Current</u>						
143	Summer:							
144	Cust. Chg	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 1,191.90
145	Headblock \$ 0.4884	\$ 195.36	\$ 195.36	\$ 195.36	\$ 114.30	\$ 195.36	\$ 195.36	\$ 1,091.10
146	Tailblock \$ 0.3336	\$ 210.60	\$ 57.42	\$ 6.52	\$ -	\$ 73.21	\$ 403.57	\$ 751.31
147	HB Threshold 400							
148								
149	Total Base Rate Amount	\$ 604.61	\$ 451.43	\$ 400.53	\$ 312.95	\$ 467.22	\$ 797.58	\$ 3,034.30
150								
151	COG Rate - (Seasonal)	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722	\$ 0.0722
152	COG amount	\$ 74.46	\$ 41.31	\$ 30.29	\$ 24.74	\$ 44.72	\$ 116.22	\$ 331.74
153								
154	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
155	LDAC amount	\$ 90.13	\$ 50.00	\$ 36.67	\$ 29.94	\$ 54.14	\$ 140.69	\$ 401.58
156								
157	Total Bill	\$ 769.20	\$ 542.74	\$ 467.49	\$ 367.63	\$ 566.08	\$ 1,054.49	\$ 3,767.62

May 1, 2024 - October 31, 2024
C&I High Winter Use Medium G-42

158	CURRENT G-42	ACT May-24	ACT Jun-24	ACT Jul-24	EST Aug-24	EST Sep-24	EST Oct-24	Summer May-Oct
159	average Usage (Therms)	1,031	572	420	343	619	1,610	4,595
161		<u>11/1/23 - Current</u>						
162	Summer:							
163	Cust. Chg	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 198.65	\$ 1,191.90
164	Headblock \$ 0.4884	\$ 195.36	\$ 195.36	\$ 195.36	\$ 167.33	\$ 195.36	\$ 195.36	\$ 1,144.13
165	Tailblock \$ 0.3336	\$ 210.60	\$ 57.42	\$ 6.52	\$ -	\$ 73.21	\$ 403.57	\$ 751.31
166	HB Threshold 400							
167								
168	Total Base Rate Amount	\$ 604.61	\$ 451.43	\$ 400.53	\$ 365.98	\$ 467.22	\$ 797.58	\$ 3,087.34
169								
170	COG Rate - (Seasonal)	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181	\$ 0.0181
171	COG amount	\$ 18.67	\$ 10.36	\$ 7.59	\$ 6.20	\$ 11.21	\$ 29.14	\$ 83.16
172								
173	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
174	LDAC amount	\$ 90.13	\$ 50.00	\$ 36.67	\$ 29.94	\$ 54.14	\$ 140.69	\$ 401.58
175								
176	Total Bill	\$ 713.41	\$ 511.78	\$ 444.79	\$ 402.13	\$ 532.57	\$ 967.41	\$ 3,572.09

DIFFERENCE:

177	Total Bill	\$ 55.79	\$ 30.95	\$ 22.70	\$ (34.50)	\$ 33.51	\$ 87.09	\$ 195.54
178	% Change	7.82%	6.05%	5.10%	-8.58%	6.29%	9.00%	5.47%
179								
180	Base Rate	\$ -	\$ -	\$ -	\$ (53.04)	\$ -	\$ -	\$ (53.04)
181	% Change	0.00%	0.00%	0.00%	-14.49%	0.00%	0.00%	-1.72%
182								
183	COG & LDAC	\$ 55.79	\$ 30.95	\$ 22.70	\$ 18.54	\$ 33.51	\$ 87.09	\$ 248.58
184	% Change	51.28%	51.28%	51.28%	51.28%	51.28%	51.28%	51.28%

Docket No. DG 24-106
Exhibit 4

UPDATED Schedule 8
Page 5 of 6

Annual Bill Comparisons, May 24 - Oct 24 Actual Rates vs May 25 - Oct 25
May 1, 2025 - October 31, 2025

Commercial Rate (G-52)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
185	PROPOSED G-52	EST	EST	EST	EST	EST	EST	Summer
186		May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	May-Oct
187	average Usage (Therms)	1,482	1,317	1,269	1,323	1,295	1,611	8,298
188								
189	Summer: <u>11/1/23 - Current</u>							
190	Cust. Chg	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 1,190.88
191	Headblock \$ 0.2059	\$ 205.90	\$ 205.90	\$ 205.90	\$ 205.90	\$ 205.90	\$ 205.90	\$ 1,235.40
192	Tailblock \$ 0.1233	\$ 59.45	\$ 39.15	\$ 33.14	\$ 39.86	\$ 36.39	\$ 75.36	\$ 283.34
193	HB Threshold 1,000							
194								
195	Total Base Rate Amount	\$ 463.83	\$ 443.53	\$ 437.52	\$ 444.24	\$ 440.77	\$ 479.74	\$ 2,709.62
196								
197	COG Rate - (Seasonal)	\$0.0723	\$0.0723	\$0.0723	\$0.0723	\$0.0723	\$0.0723	\$ 0.0723
198	COG amount	\$ 107.16	\$ 95.25	\$ 91.74	\$ 95.67	\$ 93.64	\$ 116.49	\$ 599.94
199								
200	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
201	LDAC amount	\$ 129.54	\$ 115.15	\$ 110.89	\$ 115.65	\$ 113.19	\$ 140.82	\$ 725.24
202								
203	Total Bill	\$700.52	\$653.93	\$640.15	\$655.56	\$647.59	\$737.04	\$4,034.80

May 1, 2024 - October 31, 2024
Commercial Rate (G-52)

CURRENT G-52		ACT	ACT	ACT	EST	EST	EST	Summer
204		May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	May-Oct
205	average Usage (Therms)	1,482	1,317	1,269	1,323	1,295	1,611	8,298
206								
207	Summer: <u>11/1/23 - Current</u>							
208	Cust. Chg	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 198.48	\$ 1,190.88
209	Headblock \$ 0.2059	\$ 205.90	\$ 205.90	\$ 205.90	\$ 205.90	\$ 205.90	\$ 205.90	\$ 1,235.40
210	Tailblock \$ 0.1233	\$ 59.45	\$ 39.15	\$ 33.14	\$ 39.86	\$ 36.39	\$ 75.36	\$ 283.34
211	HB Threshold 1,000							
212								
213	Total Base Rate Amount	\$ 463.83	\$ 443.53	\$ 437.52	\$ 444.24	\$ 440.77	\$ 479.74	\$ 2,709.62
214								
215	COG Rate - (Seasonal)	\$ 0.0193	\$ 0.0193	\$ 0.0193	\$ 0.0193	\$ 0.0193	\$ 0.0193	\$ 0.0193
216	COG amount	\$ 28.61	\$ 25.43	\$ 24.49	\$ 25.54	\$ 25.00	\$ 31.10	\$ 160.15
217								
218	LDAC	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874	\$ 0.0874
219	LDAC amount	\$ 129.54	\$ 115.15	\$ 110.89	\$ 115.65	\$ 113.19	\$ 140.82	\$ 725.24
220								
221								
222	Total Bill	\$621.97	\$584.10	\$572.91	\$585.43	\$578.95	\$651.65	\$3,595.01

DIFFERENCE:

223	Total Bill	\$ 78.55	\$ 69.83	\$ 67.25	\$ 70.13	\$ 68.64	\$ 85.39	\$ 439.79
224	% Change	12.63%	11.95%	11.74%	11.98%	11.86%	13.10%	12.23%
225								
226	Base Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
227	% Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
228								
229	COG & LDAC	\$ 78.55	\$ 69.83	\$ 67.25	\$ 70.13	\$ 68.64	\$ 85.39	\$ 439.79
230	% Change	49.67%	49.67%	49.67%	49.67%	49.67%	49.67%	49.67%

Residential Heating

	Summer 2024	Summer 2025
231 Customer Charge	\$ -	\$ -
232 First 100 Therms	\$ 0.6167	\$ 0.6167
233 Excess 100 Therms	\$ 0.6167	\$ 0.6167
234 LDAC	\$ 0.1986	\$ 0.1986
235 COG	\$ 0.0187	\$ 0.0722
236 Total Adjust	\$ 0.2173	\$ 0.2708

		Summer 2024 @	Summer 2025 @	Total		Base Rate		COG		LDAC	
				\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact	\$ Impact	% Impact
237		\$0.2173	\$0.2708	\$0.05	25%						
238 Cooking alone	5	\$20.93	\$21.20	\$0.27	1.28%	\$0.00	0%	\$0.27	1%	\$0.00	0.00%
239	10	\$25.10	\$25.64	\$0.54	2.13%	\$0.00	0%	\$0.54	2%	\$0.00	0.00%
240	20	\$33.44	\$34.51	\$1.07	3.20%	\$0.00	0%	\$1.07	3%	\$0.00	0.00%
241 Water Heating alone	30	\$41.78	\$43.39	\$1.61	3.84%	\$0.00	0%	\$1.61	4%	\$0.00	0.00%
242	45	\$54.29	\$56.70	\$2.41	4.43%	\$0.00	0%	\$2.41	4%	\$0.00	0.00%
243	50	\$58.46	\$61.14	\$2.68	4.58%	\$0.00	0%	\$2.68	4%	\$0.00	0.00%
244 Heating Alone	80	\$79.31	\$83.32	\$4.01	5.06%	\$0.00	0%	\$4.01	5%	\$0.00	0.00%
245	125	\$127.68	\$134.80	\$7.12	5.57%	\$0.00	0%	\$7.12	5%	\$0.00	0.00%
246	150	\$141.86	\$149.89	\$8.03	5.66%	\$0.00	0%	\$8.03	5%	\$0.00	0.00%
247	200	\$183.56	\$194.26	\$10.70	5.83%	\$0.00	0%	\$10.70	6%	\$0.00	0.00%



[DATE]

[Name]
[Mailing_Address]
[City], [State] [Zip_Code]

Fixed Price Option (FPO)
Service Address:
[Full_Service_Address]
Account:
[Location_ID]-[CUSTNMBR]

Dear [Name]:

Each fall, Liberty offers you the opportunity to “lock in” the price per therm for the Gas Supply Charge portion of your bills, from November 1 through April 30. With the Fixed Price Option, you will pay one fixed price per therm for the Gas Supply Charge portion of your bill during this period, even if the price of natural gas changes during the heating season.

Applications for the program must be returned on or before October 22, 2024. Energy prices – including natural gas – remain volatile as in years past. If you have multiple accounts, please return one form for each service address and account number. This program is available to customers who are billed on Budget Billing as well as those who are billed on a regular billing schedule.

Does the FPO represent the entire amount on my monthly gas bill?

No. Your monthly natural gas bill has two main components: (1) a Gas Delivery Charge and (2) a Gas Supply Charge. The FPO is for the Gas Supply Charge (often the largest portion of your bill during the winter season).

What is the “Fixed Price” for the 2024–2025 heating season?

The 2024–2025 FPO Gas Supply Charge that was submitted to the New Hampshire Public Utility Commission (NHPUC) is **\$0.6992** per therm (**\$0.3846** per therm for customers on Fuel Assistance). **These rates are not guaranteed until we receive a decision from the NHPUC.** A decision is expected prior to November 1. Visit www.libertyenergyandwater.com after November 1st to see the final approved rate.

What will my Gas Supply Charge price be this winter if I don’t enroll in the FPO?

As of today’s date, we estimate that the Gas Supply Charge price for the winter will be approximately **\$0.6792** per therm (**\$0.3736** per therm for customers on Fuel Assistance). This non-guaranteed price may increase if the market price of natural gas increases during the winter or decrease if the market price of natural gas decreases. Price fluctuations are market-driven, and it is difficult for Liberty to predict what those market conditions or prices will be. **These rates are not guaranteed until we receive a decision from the NHPUC.** A decision is expected prior to November 1. Visit www.libertyenergyandwater.com after November 1st to see the final approved rate.

Are there any fees to sign up or minimum or maximum usage requirements?

No. There are no sign-up fees or minimum or maximum usage levels. However, the program is non-transferable, and customers must remain in the program through April 30, 2025. If you move to a new location within our service territory and transfer your account, the FPO rate will apply at your new location through April 30, 2025.

How do I sign up?

Fill out the attached coupon and return it in the enclosed envelope on or before October 22, 2024. You will be notified whether or not you are enrolled in the FPO. Enrollment acceptance is based on a timely response.

Please cut on the dotted line and return this coupon in the envelope provided.

[Name]
[Service_Address]
[Acct #]

YES, please sign me up to participate in the Fixed Price Option (FPO). This program locks in the Gas Supply Charge price listed above for the heating season beginning November 1, 2024 and ending April 30, 2025.

If you would like to receive confirmation that you have been successfully enrolled in the FPO, please provide us with your email address: _____

Signature: _____ Date: _____



[DATE]

[Name]
[Mailing_Address]
[City], [State] [Zip_Code]

Fixed Price Option (FPO)

Service Address:
[Full_Service_Address]
Account:
[Account Number]

Dear [Name]:

To allow customers the ability to better budget and gain peace of mind from fluctuating energy prices, Liberty is pleased to offer customers the ability to 'lock in' the price per therm for the Gas Supply Charge portion of bills from November 1 through April 30 as part of our Fixed Price Option (FPO).

What happens if I choose to enroll in the "Fixed Price" for the 2024-2025 heating season?

Energy prices can be volatile, as price fluctuations are market-driven and difficult to predict. Customers who enroll in the FPO will pay a small premium to 'lock in' the price they pay per therm for the gas supply portion of their bill. The fixed price per therm will be **two cents higher** than the initial Gas Supply Charge rate approved by the Public Utilities Commission in October.

What happens if I choose to stay with the normal Gas Supply Charge rate (non-FPO rate)?

Customers who choose to stay on the normal Gas Supply Charge rate will also pay the initial rate approved by the Public Utilities Commission. However, this non-guaranteed rate may increase if the market price of natural gas increases or decrease if the market price of natural gas decreases.

Does the FPO represent the entire amount on my monthly gas bill?

No. Your monthly gas bill has two main components: (1) a Gas Delivery Charge and (2) a Gas Supply Charge. The FPO is for the Gas Supply Charge. (Often the largest portion of your bill during the winter season)

When will the final approved rates be posted?

The final rate for both the Fixed Price Option and the normal Gas Supply Charge will be proposed by Liberty and approved by the Public Utilities Commission prior to the rates taking effect in November 1. To view submitted rates and to keep up to date on the approval process, visit X.

Are there any rules or restrictions with the Fixed Price Option?

Yes. The program is non-transferable, and customers who enroll must remain in the program through April 30, 2025. If you move to a new location, the FPO rate will apply at your new location through April 30, 2025.

How do I sign up?

Fill out the attached coupon and return it in the enclosed envelope on or before **DATE**. Enrollment acceptance is based on a timely response. If you have multiple accounts, please return one form for each service address and account number.

Sincerely,
Liberty

Please cut on the dotted line and return this coupon in the envelope provided.

[Name]
[Service_Address]
[Acct #]

YES, please sign me up to participate in the Fixed Price Option (FPO). I agree to pay an extra two cents per therm for the gas supply portion of my bill in order to lock in the Gas Supply Charge for the heating season beginning November 1, 2024 and ending April 30, 2025.

If you would like to receive confirmation that you have been successfully enrolled in the FPO, please provide us with your email address: _____

Signature: _____ Date: _____

NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Seventy-second Revised Page 1
Superseding Seventy-first Revised Page 1
Check Sheet

<u>Page</u>	<u>Revision</u>
Title	Original
TOC i	First Revised
TOC ii	Original
TOC iii	First Revised
TOC iv	Original
1	Illustrative Seventy-second Revised
2	Seventh Revised
3	Illustrative Sixty-seventh Revised
4	Illustrative Sixty-fifth Revised
5	Illustrative Fourth Revised
6	Original
7	Original
8	Original
9	Third Revised
10	Original
11	Original
12	Original
13	Original
14	Original
15	Original
16	Original
17	Original
18	Original
19	Original
20	Original
21	Original
22	Original
23	Original
24	Original
25	Original
26	Original

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: November 1, 2024

Neil Proudman
TITLE: President

Authorized by NHPUC Order No. XX,XXX dated XX XX, 2024, in Docket No. DG 24-106

NHPUC NO. 11 GAS
LIBERTY UTILITIES

<u>Page</u>	<u>Revision</u>
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59	Fourth Revised
60	Original
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62	Original
63	Fourth Revised
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65	Fourth Revised
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67	Fourth Revised
68	Original
69	Fourth Revised
70	Original
71	Fourth Revised
72	Original
73	Fifth Revised
74	Original
75	Fourth Revised
76	Original
77	Fourth Revised
78	Original
79	Fourth Revised
80	Original
81	Fourth Revised
82	Original
83	Fourth Revised
84	Original
85	Fourth Revised
86	Original
87	Illustrative Thirty-eighth Revised
88	Forty-third Revised
89	Illustrative Thirty-eighth Revised

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: November 1, 2024

Neil Proudman
TITLE: President

NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Sixty-fifth Revised Page 4
Superseding Sixty-fourth Revised Page 4
Check Sheet

<u>Page</u>	<u>Revision</u>
90	Original
91	Illustrative Fourth Revised
92	Illustrative Twelfth Revised
93	Eighteenth Revised
94	Illustrative Fourth Revised
95	Illustrative Nineteenth Revised
96	Illustrative Fourth Revised
97	Sixteenth Revised
98	Illustrative Fourth Revised
99	Third Revised
100	Third Revised
101	Twelfth Revised
102	Original
103	Original
104	Original
105	Original
106	Original
107	Original
108	Original
109	Original
110	Original
111	Original
112	Original
113	Original
114	Original
115	Original
116	Original
117	Original
118	Original
119	Original
120	Original
121	Original
122	Original
123	Original

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: November 1, 2024

Neil Proudman
TITLE: President

Authorized by NHPUC Order No. XX,XXX dated XX XX, 2024, in Docket No. DG 24-106

NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Fourth Revised Page 5
Superseding Third Revised Page 5
Check Sheet

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124	Original
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146	Original
147	Original
148	Original
149	Original
150	Original
151	Original
152	Original
153	Illustrative Fourth Revised
154	Illustrative Fourth Revised

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman
Neil Proudman

EFFECTIVE: November 1, 2024

TITLE: President

22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS

II RATE SCHEDULES

	Rates Effective November 1, 2024- April 30, 2025 Winter Period				Rates Effective May 1, 2025 - October 31, 2025 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
Residential Non Heating - R-1								
Customer Charge per Month per Meter	\$ 16.76			\$ 16.76	\$ 16.76			\$ 16.76
All therms	\$ 0.5025	\$ 0.6786	\$ 0.1986	\$ 1.3797	\$ 0.5025	\$ 0.0722	\$ 0.1986	\$ 0.7733
Residential Heating - R-3								
Customer Charge per Month per Meter	\$ 16.76			\$ 16.76	\$ 16.76			\$ 16.76
Therms in the first block per month at	\$ 0.6716	\$ 0.6786	\$ 0.1986	\$ 1.5488	\$ 0.6716	\$ 0.0722	\$ 0.1986	\$ 0.9424
Residential Heating - R-4								
Customer Charge per Month per Meter	\$ 9.22			\$ 9.22	\$ 16.76			\$ 16.76
Therms in the first block per month at	\$ 0.3694	\$ 0.3732	\$ 0.1986	\$ 0.9412	\$ 0.6716	\$ 0.0722	\$ 0.1986	\$ 0.9424
Commercial/Industrial - G-41								
Customer Charge per Month per Meter	\$ 66.23			\$ 66.23	\$ 66.23			\$ 66.23
Size of the first block	100 Therms				20 Therms			
Therms in the first block per month at	\$ 0.5367	\$ 0.6786	\$ 0.0874	\$ 1.3027	\$ 0.5367	\$ 0.0722	\$ 0.0874	\$ 0.6963
All therms over the first block per month at	\$ 0.3692	\$ 0.6786	\$ 0.0874	\$ 1.1352	\$ 0.3692	\$ 0.0722	\$ 0.0874	\$ 0.5288
Commercial/Industrial - G-42								
Customer Charge per Month per Meter	\$ 198.65			\$ 198.65	\$ 198.65			\$ 198.65
Size of the first block	1000 Therms				400 Therms			
Therms in the first block per month at	\$ 0.4884	\$ 0.6786	\$ 0.0874	\$ 1.2544	\$ 0.4884	\$ 0.0722	\$ 0.0874	\$ 0.6480
All therms over the first block per month at	\$ 0.3336	\$ 0.6786	\$ 0.0874	\$ 1.0996	\$ 0.3336	\$ 0.0722	\$ 0.0874	\$ 0.4932
Commercial/Industrial - G-43								
Customer Charge per Month per Meter	\$ 850.68			\$ 850.68	\$ 850.68			\$ 850.68
All therms over the first block per month at	\$ 0.3012	\$ 0.6786	\$ 0.0874	\$ 1.0672	\$ 0.1464	\$ 0.0722	\$ 0.0874	\$ 0.3060
Commercial/Industrial - G-51								
Customer Charge per Month per Meter	\$ 66.29			\$ 66.29	\$ 66.29			\$ 66.29
Size of the first block	100 Therms				100 Therms			
Therms in the first block per month at	\$ 0.3234	\$ 0.6789	\$ 0.0874	\$ 1.0897	\$ 0.3234	\$ 0.0723	\$ 0.0874	\$ 0.4831
All therms over the first block per month at	\$ 0.2159	\$ 0.6789	\$ 0.0874	\$ 0.9822	\$ 0.2159	\$ 0.0723	\$ 0.0874	\$ 0.3756
Commercial/Industrial - G-52								
Customer Charge per Month per Meter	\$ 198.48			\$ 198.48	\$ 198.48			\$ 198.48
Size of the first block	1000 Therms				1000 Therms			
Therms in the first block per month at	\$ 0.2788	\$ 0.6789	\$ 0.0874	\$ 1.0451	\$ 0.2059	\$ 0.0723	\$ 0.0874	\$ 0.3656
All therms over the first block per month at	\$ 0.1905	\$ 0.6789	\$ 0.0874	\$ 0.9568	\$ 0.1233	\$ 0.0723	\$ 0.0874	\$ 0.2830
Commercial/Industrial - G-53								
Customer Charge per Month per Meter	\$ 877.45			\$ 877.45	\$ 877.45			\$ 877.45
All therms over the first block per month at	\$ 0.1949	\$ 0.6789	\$ 0.0874	\$ 0.9612	\$ 0.0988	\$ 0.0723	\$ 0.0874	\$ 0.2585
Commercial/Industrial - G-54								
Customer Charge per Month per Meter	\$ 878.18			\$ 878.18	\$ 878.18			\$ 878.18
All therms over the first block per month at	\$ 0.0743	\$ 0.6789	\$ 0.0874	\$ 0.8406	\$ 0.0420	\$ 0.0723	\$ 0.0874	\$ 0.2017

DATED: XX XX, 2024

EFFECTIVE: November 1, 2024

ISSUED BY: /s/Neil Proudman

Neil Proudman

TITLE: President

4 FIRM RATE SCHEDULES – MANAGED EXPANSION PROGRAM - EXCLUDING KEENE CUSTOMERS

II RATE SCHEDULES

	Rates Effective November 1, 2024- April 30, 2025 Winter Period				Rates Effective May 1, 2025 - October 31, 2025 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
Residential Non Heating - R-5								
Customer Charge per Month per Meter	\$ 21.79			\$ 21.79	\$ 21.79			\$ 21.79
All therms	\$ 0.6533	\$ 0.6786	\$ 0.1986	\$ 1.5305	\$ 0.6533	\$ 0.0722	\$ 0.1986	\$ 0.9241
Residential Heating - R-6								
Customer Charge per Month per Meter	\$ 21.79			\$ 21.79	\$ 21.79			\$ 21.79
Therms in the first block per month at	\$ 0.8731	\$ 0.6786	\$ 0.1986	\$ 1.7503	\$ 0.8731	\$ 0.0722	\$ 0.1986	\$ 1.1439
Residential Heating - R-7								
Customer Charge per Month per Meter	\$ 11.99			\$ 11.99	\$ 21.79			\$ 21.79
Therms in the first block per month at	\$ 0.4802	\$ 0.3732	\$ 0.1986	\$ 1.0520	\$ 0.8731	\$ 0.0722	\$ 0.1986	\$ 1.1439
Commercial/Industrial - G-44								
Customer Charge per Month per Meter	\$ 86.10			\$ 86.10	\$ 86.10			\$ 86.10
Size of the first block	100 Therms				20 Therms			
Therms in the first block per month at	\$ 0.6977	\$ 0.6786	\$ 0.0874	\$ 1.4637	\$ 0.6977	\$ 0.0722	\$ 0.0874	\$ 0.8573
All therms over the first block per month at	\$ 0.4800	\$ 0.6786	\$ 0.0874	\$ 1.2460	\$ 0.4800	\$ 0.0722	\$ 0.0874	\$ 0.6396
Commercial/Industrial - G-45								
Customer Charge per Month per Meter	\$ 258.25			\$ 258.25	\$ 258.25			\$ 258.25
Size of the first block	1000 Therms				400 Therms			
Therms in the first block per month at	\$ 0.6349	\$ 0.6786	\$ 0.0874	\$ 1.4009	\$ 0.6349	\$ 0.0722	\$ 0.0874	\$ 0.7945
All therms over the first block per month at	\$ 0.4337	\$ 0.6786	\$ 0.0874	\$ 1.1997	\$ 0.4337	\$ 0.0722	\$ 0.0874	\$ 0.5933
Commercial/Industrial - G-46								
Customer Charge per Month per Meter	\$ 1,105.88			\$ 1,105.88	\$ 1,105.88			\$ 1,105.88
All therms over the first block per month at	\$ 0.3916	\$ 0.6786	\$ 0.0874	\$ 1.1576	\$ 0.1903	\$ 0.0722	\$ 0.0874	\$ 0.3499
Commercial/Industrial - G-55								
Customer Charge per Month per Meter	\$ 86.18			\$ 86.18	\$ 86.18			\$ 86.18
Size of the first block	100 Therms				100 Therms			
Therms in the first block per month at	\$ 0.4204	\$ 0.6789	\$ 0.0874	\$ 1.1867	\$ 0.4204	\$ 0.0723	\$ 0.0874	\$ 0.5801
All therms over the first block per month at	\$ 0.2807	\$ 0.6789	\$ 0.0874	\$ 1.0470	\$ 0.2807	\$ 0.0723	\$ 0.0874	\$ 0.4404
Commercial/Industrial - G-56								
Customer Charge per Month per Meter	\$ 258.02			\$ 258.02	\$ 258.02			\$ 258.02
Size of the first block	1000 Therms				1000 Therms			
Therms in the first block per month at	\$ 0.3624	\$ 0.6789	\$ 0.0874	\$ 1.1287	\$ 0.2677	\$ 0.0723	\$ 0.0874	\$ 0.4274
All therms over the first block per month at	\$ 0.2477	\$ 0.6789	\$ 0.0874	\$ 1.0140	\$ 0.1603	\$ 0.0723	\$ 0.0874	\$ 0.3200
Commercial/Industrial - G-57								
Customer Charge per Month per Meter	\$ 1,140.69			\$ 1,140.69	\$ 1,140.69			\$ 1,140.69
All therms over the first block per month at	\$ 0.2534	\$ 0.6789	\$ 0.0874	\$ 1.0197	\$ 0.1284	\$ 0.0723	\$ 0.0874	\$ 0.2881
Commercial/Industrial - G-58								
Customer Charge per Month per Meter	\$ 1,141.63			\$ 1,141.63	\$ 1,141.63			\$ 1,141.63
All therms over the first block per month at	\$ 0.0966	\$ 0.6789	\$ 0.0874	\$ 0.8629	\$ 0.0546	\$ 0.0723	\$ 0.0874	\$ 0.2143

DATED: XX XX, 2024

EFFECTIVE: November 1, 2024

ISSUED BY: /s/Neil Proudman
Neil Proudman
TITLE: President

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Fourth Revised Page 91
Superseding Third Revised Page 91
Summer Cost of Gas

26 ANTICIPATED SUMMER PERIOD COST OF GAS - EXCLUDING KEENE CUSTOMERS OR GAS LIGHTING

Anticipated Cost of Gas
PERIOD COVERED: SUMMER PERIOD, MAY 1, 2025 THROUGH OCTOBER 31, 2025
(REFER TO TEXT ON IN SECTION 17 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
Anticipated Direct Cost of Gas		
Purchased Gas:		
Demand Costs:	\$ 1,210,454	
Supply Costs:	6,947,947	
Storage Gas:		
Demand, Capacity:	\$ -	
Commodity Costs:	-	
Produced Gas:		
	-	
Hedged Contract (Saving)/Loss	(3,860,898)	
Unadjusted Anticipated Cost of Gas		\$ 4,297,502
Adjustments:		
Prior Period (Over)/Under Recovery (as of 9/1/2024 estimated COG)	\$ (410,878)	
Interest	23,689	
Accounting Adjustments	-	
Refunds from Suppliers	-	
Broker Revenues	-	
Fuel Financing	-	
Transportation CGA Revenues	-	
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(3,069,734)	
Hedging Costs	-	
Fixed Price Option Administrative Costs	-	
Total Adjustments	(3,456,923)	
Total Anticipated Direct Cost of Gas		\$ 840,579
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 05/01/25-10/31/25	\$ 4,297,502	
Working Capital Rate: Lead Lag Days / 365	0.0705	
Prime Rate	8.00%	
Working Capital Percentage	0.564%	
Working Capital	\$ 24,238	
Plus: Working Capital Reconciliation	(5,233)	
Total Working Capital Allowance		19,005
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 05/01/25-10/31/25	\$ 4,297,502	
Less: Refunds	-	
Plus: Total Working Capital	19,005	
Plus: Prior Period (Over)/Under Recovery	(410,878)	
Subtotal	\$ 3,905,630	
Bad Debt Percentage	1.99%	
Bad Debt Allowance	\$ 8,995	
Plus: Bad Debt Reconciliation	749,119	
Total Bad Debt Allowance		\$ 758,114
Production and Storage Capacity		
		\$ -
Miscellaneous Overhead 05/01/25-10/31/25	\$ -	
Times Summer Sales	22,423	
Divided by Total Sales	111,311	
Miscellaneous Overhead		-
Total Anticipated Indirect Cost of Gas		\$ 777,119
Total Cost of Gas		\$ 1,617,699

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman
Neil Proudman

EFFECTIVE: November 1, 2024

TITLE: President

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Twelfth Revised Page 92
Superseding Eleventh Revised Page 92
Summer Cost of Gas

**27 CALCULATION OF FIRM SALES SUMMER PERIOD COST OF GAS RATE -
EXCLUDING KEENE CUSTOMERS**

**CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: SUMMER PERIOD, MAY 1, 2025 THROUGH OCTOBER 31, 2025
(Refer to Text in Section 17 Cost of Gas Clause)**

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 840,579	
Projected Prorated Sales (05/01/2025-10/31/2025)	22,422,719	
Direct Cost of Gas Rate		\$ 0.0375 per therm
Demand Cost of Gas Rate	\$ 1,210,454	\$ 0.0540 per therm
Commodity Cost of Gas Rate	6,947,947	\$ 0.3099 per therm
Adjustment Cost of Gas Rate	(3,456,923)	\$ (0.1542) per therm
Hedge Contract (Savings)	(3,860,898)	\$ (0.1722) per therm
Total Direct Cost of Gas Rate	\$ 840,579	\$ 0.0375 per therm
Total Anticipated Indirect Cost of Gas	\$ 777,119	
Projected Prorated Sales (05/01/2025-10/31/2025)	22,422,719	
Indirect Cost of Gas		\$ 0.0347 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/25		\$ 0.0722 per therm
RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 05/01/25		
COGwr		\$ 0.0722 /therm
Maximum (COG + 25%)		\$ 0.0903
C&I HIGH WINTER USE COST OF GAS RATE - 05/01/25		
COGwh		\$ 0.0722 /therm

Average Demand Cost of Gas Rate Effective 05/01/25	\$ 0.0540		
Times: High Winter Use Ratio (Summer)	0.9995	Maximum (COG + 25%)	\$ 0.0902
Times: Correction Factor	0.9997		
Adjusted Demand Cost of Gas Rate	\$ 0.0540		
Commodity Cost of Gas Rate	\$ 0.3099		
Adjustment Cost of Gas Rate	\$ (0.1542)		
Indirect Cost of Gas Rate	\$ 0.0347		
Hedge Contract (Savings)	\$ (0.1722)		
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.0722		

C&I LOW WINTER USE COST OF GAS RATE - 05/01/25		COGwl	\$ 0.0723 /therm
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Average Demand Cost of Gas Rate Effective 05/01/25	\$ 0.0540		
Times: Low Winter Use Ratio (Summer)	1.0014	Maximum (COG + 25%)	\$ 0.0904
Times: Correction Factor	0.9997		
Adjusted Demand Cost of Gas Rate	\$ 0.0541		
Commodity Cost of Gas Rate	\$ 0.3099		
Adjustment Cost of Gas Rate	\$ (0.1542)		
Indirect Cost of Gas Rate	\$ 0.0347		
Hedge Contract (Savings)	\$ (0.1722)		
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.0723		

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: November 1, 2024

Neil Proudman
TITLE: President

NHPUC NO. 11 GAS
LIBERTY UTILITIES

29 CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

II. RATE SCHEDULES
CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025
(Refer to Text in Section 17(A) Fixed Price Option Program)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$55,600,306	
Projected Prorated Sales (11/01/24 - 04/30/25)	88,888,172	
Direct Cost of Gas Rate		\$ 0.6255 per therm
Demand Cost of Gas Rate	\$14,124,307	\$ 0.1589 per therm
Commodity Cost of Gas Rate	48,298,071	\$ 0.5434 per therm
Adjustment Cost of Gas Rate	(2,327,171)	\$ (0.0262) per therm
Hedge Underground Storage Contract (Savings)/Loss	(4,494,900)	\$ (0.0506) per therm
Total Direct Cost of Gas Rate	\$55,600,306	\$ 0.6255 per therm
Total Anticipated Indirect Cost of Gas	\$ 4,718,363	
Projected Prorated Sales (11/01/24 - 04/30/25)	88,888,172	
Indirect Cost of Gas		\$ 0.0531 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/24)		\$ 0.6786
Calculation of FPO Excluding Low Income - Rate Code R-3		
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/24)		\$ 0.6786
FPO Risk Premium		\$ 0.0200
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/24)		\$ 0.6986
RESIDENTIAL FPO COST OF GAS RATE - EXCLUDING LOW INCOME - (R-3) 11/01/24	COGwr	\$ 0.6986 /therm
Calculation of FPO for Gas Assistance Program - Rate Code R-4		
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/24) FPO (Line 13 * 0.55)		\$ 0.3732
FPO Risk Premium (Line 14 * 0.55)		\$ 0.0110
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/24) (Line 15 * 0.55)		\$ 0.3842
RESIDENTIAL FPO COST OF GAS RATE - LOW INCOME - (R-4) 11/01/24	COGwr	\$ 0.3842 /therm

DATED: XX XX, 2024

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Neil Proudman
TITLE: President

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Nineteenth Revised Page 95
Superseding Eighteenth Revised Page 95
Winter Cost of Gas

**30 CALCULATION OF FIRM SALES WINTER PERIOD COST OF GAS RATE
EXCLUDING KEENE CUSTOMERS**

**CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025
(Refer to Text in Section 17 Cost of Gas Clause)**

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 55,600,306	
Projected Prorated Sales (11/01/2024 - 04/30/2025)	88,888,172	
Direct Cost of Gas Rate		\$ 0.6255 per therm
Demand Cost of Gas Rate	\$ 14,124,307	\$ 0.1589 per therm
Commodity Cost of Gas Rate	48,298,071	\$ 0.5434 per therm
Adjustment Cost of Gas Rate	(2,327,171)	\$ (0.0262) per therm
Hedge Contract (Savings)	(4,494,900)	\$ (0.0506) per therm
Total Direct Cost of Gas Rate	\$ 55,600,306	\$ 0.6255 per therm
Total Anticipated Indirect Cost of Gas	\$ 4,718,363	
Projected Prorated Sales (11/01/2024 - 04/30/2025)	88,888,172	
Indirect Cost of Gas		\$ 0.0531 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/24		\$ 0.6786 per therm

RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 11/01/24	COGwr	\$ 0.6786 /therm
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Maximum (COG + 25%) \$ 0.8483

GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 11/01/24	COGwr	\$ 0.3732 /therm
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Maximum (COG + 25%) \$ 0.4665

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/24	COGwh	\$ 0.6786 /therm
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Average Demand Cost of Gas Rate Effective 11/01/24	\$ 0.1589		
Times: High Winter Use Ratio (Winter)	0.9995	Maximum (COG + 25%)	\$ 0.8482
Times: Correction Factor	1.0002		
Adjusted Demand Cost of Gas Rate	\$ 0.1589		
Commodity Cost of Gas Rate	\$ 0.5434		
Adjustment Cost of Gas Rate	\$ (0.0262)		
Indirect Cost of Gas Rate	\$ 0.0531		
Hedge Contract (Savings)	\$ (0.0506)		
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.6786		

C&I LOW WINTER USE COST OF GAS RATE - 11/01/24	COGwl	\$ 0.6789 /therm
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Average Demand Cost of Gas Rate Effective 11/01/24	\$ 0.1589		
Times: Low Winter Use Ratio (Winter)	1.0014	Maximum (COG + 25%)	\$ 0.8486
Times: Correction Factor	1.0002		
Adjusted Demand Cost of Gas Rate	\$ 0.1592		
Commodity Cost of Gas Rate	\$ 0.5434		
Adjustment Cost of Gas Rate	\$ (0.0262)		
Indirect Cost of Gas Rate	\$ 0.0531		
Hedge Contract (Savings)	\$ (0.0506)		
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.6789		

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: November 1, 2024

Neil Proudman
TITLE: President

NHPUC NO. 11 GAS
LIBERTY UTILITIES

31 ANTICIPATED WINTER PERIOD COST OF GAS - EXCLUDING KEENE CUSTOMERS OR GAS LIGHTING

Anticipated Cost of Gas
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025
(REFER TO TEXT ON IN SECTION 17 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
Anticipated Direct Cost of Gas		
Purchased Gas:		
Demand Costs:	\$ 13,277,648	
Supply Costs:	40,009,791	
Storage Gas:		
Demand, Capacity:	\$ 846,659	
Commodity Costs:	4,210,226	
Produced Gas:		
	4,078,054	
Hedged Contract (Saving)/Loss		
	(4,494,900)	
Unadjusted Anticipated Cost of Gas		
		\$ 57,927,477
Adjustments:		
Prior Period (Over)/Under Recovery (as of 05/01/24)	\$ 306,763	
Interest	180,337	
Accounting Adjustments	23,633	
Gas Assistance Program	(618,933)	
Refunds from Suppliers	-	
Broker Revenues	30,408	
Fuel Financing	462,146	
Transportation CGA Revenues	62,123	
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(2,836,642)	
Hedging Costs	-	
Fixed Price Option Administrative Costs	62,993	
Total Adjustments	(2,327,171)	(2,327,171)
Total Anticipated Direct Cost of Gas		
		\$ 55,600,306
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 11/01/24 - 04/30/25	\$ 57,927,477	
Working Capital Rate: Lead Lag Days / 365	0.0705	
Prime Rate	8.00%	
Working Capital Percentage	0.564%	
Working Capital	\$ 315,708	
Plus: Working Capital Reconciliation	(143,692)	
Total Working Capital Allowance		172,016
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 11/01/24 - 04/30/25	\$ 57,927,477	
Less: Refunds	-	
Plus: Total Working Capital	172,016	
Plus: Prior Period (Over)/Under Recovery	306,763	
Subtotal	\$ 58,406,256	
Bad Debt Percentage	1.99%	
Bad Debt Allowance	\$ 1,026,654	
Plus: Bad Debt Reconciliation	(165,765)	
Total Bad Debt Allowance		\$ 860,889
Production and Storage Capacity		
		\$ 3,685,459
Miscellaneous Overhead 11/01/2024 - 04/30/25	\$ -	
Times Winter Sales	88,888	
Divided by Total Sales	111,311	
Miscellaneous Overhead		-
Total Anticipated Indirect Cost of Gas		\$ 4,718,363
Total Cost of Gas		\$ 60,318,669

DATED: XX XX, 2024
EFFECTIVE: November 1, 2024

ISSUED BY: /s/Neil Proudman
Neil Proudman
TITLE: President

NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Fourth Revised Page 98
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Firm Transportation Cost of Gas

33 CALCULATION OF FIRM TRANSPORTATION COST OF GAS RATE

II. RATE SCHEDULES

Calculation of Firm Transportation Cost of Gas Rate

PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025

(Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:			
PROPANE	\$ 1,039,539		
LNG	<u>4,360,481</u>		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	5,400,020		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES	<u>8.7%</u>		
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	<u>\$ 469,802</u>		
PROJECTED FIRM THROUGHPUT (THERMS):			
FIRM SALES	88,888,172	67.5%	
FIRM TRANSPORTATION SUBJECT TO FTCG	<u>42,888,750</u>	<u>32.5%</u>	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	131,776,922	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	32.5%	x	\$ 469,802 = \$ 152,904
PRIOR (OVER) OR UNDER COLLECTION			<u>(90,781)</u>
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ 62,123
PROJECTED FIRM TRANSPORTATION THROUGHPUT			42,888,750
FIRM TRANSPORTATION COST OF GAS			\$ 0.0014

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: November 1, 2024

Neil Proudman
TITLE: President

NHPUC NO. 11 GAS
LIBERTY UTILITIES

2 ATTACHMENT B
Schedule of Administrative Fees and Charges

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge:	\$	0.11	per MMBtu of Daily Imbalance Volumes")
II. Capacity Mitigation Fee			15% of the Proceeds from the Marketing of Capacity for Mitigation.
III. Peaking Demand Charge	\$	56.21	MMBTU of Peak MDQ
IV. Company Allowance Calculation (per Schedule 25)			
		159,432,155	Total Sendout - Therms Jul-2023 - Jun-2024
		155,226,688	Total Throughput - Therms Jul-2023 - Jun-2024
		<u>4,205,467</u>	Variance (Sendout - Throughput)
Company Allowance Percentage 2024-25		2.6%	Variance / Total Sendout

DATED: XX XX, 2024

ISSUED BY: /s/Neil Proudman
Neil Proudman

EFFECTIVE: November 1, 2024

TITLE: President

Authorized by NHPUC Order No. XX,XXX dated XX XX, 2024, in Docket No. DG 24-106

NHPUC NO. 11 GAS
LIBERTY UTILITIES

**3 ATTACHMENT C
Capacity Allocators**

CAPACITY ALLOCATORS

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual /High Winter Use	72.9%	17.7%	9.4%	100.0%
G-51	Low Annual /Low Winter Use	80.1%	13.0%	6.9%	100.0%
G-42	Medium Annual / High Winter	72.9%	17.7%	9.4%	100.0%
G-52	High Annual / Low Winter Use	80.1%	13.0%	6.9%	100.0%
G-43	High Annual / High Winter	72.9%	17.7%	9.4%	100.0%
G-53	High Annual / Load Factor < 90%	80.1%	13.0%	6.9%	100.0%
G-54	High Annual / Load Factor < 90%	80.1%	13.0%	6.9%	100.0%

DATED: XX XX, 2024

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Neil Proudman

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TITLE: President

NHPUC NO. 11 GAS
LIBERTY UTILITIES

Illustrative Seventy-~~second~~~~first~~ Revised Page 1
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1	<u>Illustrative</u> Seventy- second first Revised
2	Seventh Revised
3	<u>Illustrative</u> Sixty- seventh sixth Revised
4	<u>Illustrative</u> Sixty- fifth fourth Revised
5	<u>Illustrative</u> Fourth Third Revised
6	Original
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8	Original
9	Third Revised
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25	Original
26	Original

DATED: ~~XX XX, 2024~~ July 24, 2024

ISSUED BY: /s/Neil Proudman

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

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81	Fourth Revised
82	Original
83	Fourth Revised
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85	Fourth Revised
86	Original
87	<u>Illustrative</u> Thirty- eighth ^{seventh} Revised
88	Forty-third Revised
89	<u>Illustrative</u> Thirty- eighth ^{seventh} Revised

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

~~Illustrative Sixty-fifth~~
Superseding Sixty-~~fourth~~

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NHPUC NO. 11 GAS
LIBERTY UTILITIES

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22 FIRM RATE SCHEDULES - EXCLUDING KEENE CUSTOMERS

II RATE SCHEDULES

~~Rates Effective April 1, 2024 – April 30, 2024~~

~~Rates Effective May 1, 2024 – October 31, 2024~~

~~Rates Effective November 1, 2024- April 30, 2025~~

~~Rates Effective May 1, 2025 - October 31, 2025~~

~~Winter Period~~

~~Summer Period~~

	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
Residential Non Heating - R-1								
Customer Charge per Month per Meter	\$ 16.76			\$ 16.76	\$ 16.76			\$ 16.76
All therms	\$ 0.5025	\$ 0.6786 \$ -0.3449	\$ 0.1986	\$ 1.3797 \$ -1.0460	\$ 0.5025	\$ 0.0722 \$ -0.0187	\$ 0.1986	\$ 0.7733 \$ -0.7198
Residential Heating - R-3								
Customer Charge per Month per Meter	\$ 16.76			\$ 16.76	\$ 16.76			\$ 16.76
Therms in the first block per month at	\$ 0.6716	\$ 0.6786 \$ -0.3449	\$ 0.1986	\$ 1.5488 \$ -1.2151	\$ 0.6716	\$ 0.0722 \$ -0.0187	\$ 0.1986	\$ 0.9424 \$ -0.8889
Residential Heating - R-4								
Customer Charge per Month per Meter	\$ 9.22			\$ 9.22	\$ 16.76			\$ 16.76
Therms in the first block per month at	\$ 0.3694	\$ 0.3732 \$ -0.1897	\$ 0.1986	\$ 0.9412 \$ -0.7577	\$ 0.6716	\$ 0.0722 \$ -0.0187	\$ 0.1986	\$ 0.9424 \$ -0.8889
Commercial/Industrial - G-41								
Customer Charge per Month per Meter	\$ 66.23			\$ 66.23	\$ 66.23			\$ 66.23
Size of the first block	100 Therms				20 Therms			
Therms in the first block per month at	\$ 0.5367	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.3027 \$ -0.9688	\$ 0.5367	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.6963 \$ -0.6422
All therms over the first block per month at	\$ 0.3692	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.1352 \$ -0.8013	\$ 0.3692	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.5288 \$ -0.4747
Commercial/Industrial - G-42								
Customer Charge per Month per Meter	\$ 198.65			\$ 198.65	\$ 198.65			\$ 198.65
Size of the first block	1000 Therms				400 Therms			
Therms in the first block per month at	\$ 0.4884	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.2544 \$ -0.9205	\$ 0.4884	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.6480 \$ -0.5939
All therms over the first block per month at	\$ 0.3336	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.0996 \$ -0.7657	\$ 0.3336	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.4932 \$ -0.4391
Commercial/Industrial - G-43								
Customer Charge per Month per Meter	\$ 850.68			\$ 850.68	\$ 850.68			\$ 850.68
All therms over the first block per month at	\$ 0.3012	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.0672 \$ -0.7333	\$ 0.1464	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.3060 \$ -0.2519
Commercial/Industrial - G-51								
Customer Charge per Month per Meter	\$ 66.29			\$ 66.29	\$ 66.29			\$ 66.29
Size of the first block	100 Therms				100 Therms			
Therms in the first block per month at	\$ 0.3234	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.0897 \$ -0.7567	\$ 0.3234	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.4831 \$ -0.4301
All therms over the first block per month at	\$ 0.2159	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 0.9822 \$ -0.6492	\$ 0.2159	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.3756 \$ -0.3226
Commercial/Industrial - G-52								
Customer Charge per Month per Meter	\$ 198.48			\$ 198.48	\$ 198.48			\$ 198.48
Size of the first block	1000 Therms				1000 Therms			
Therms in the first block per month at	\$ 0.2788	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.0451 \$ -0.7121	\$ 0.2059	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.3656 \$ -0.3126
All therms over the first block per month at	\$ 0.1905	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 0.9568 \$ -0.6238	\$ 0.1233	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.2830 \$ -0.2300
Commercial/Industrial - G-53								
Customer Charge per Month per Meter	\$ 877.45			\$ 877.45	\$ 877.45			\$ 877.45
All therms over the first block per month at	\$ 0.1949	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 0.9612 \$ -0.6282	\$ 0.0988	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.2585 \$ -0.2055
Commercial/Industrial - G-54								
Customer Charge per Month per Meter	\$ 878.18			\$ 878.18	\$ 878.18			\$ 878.18
All therms over the first block per month at	\$ 0.0743	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 0.8406 \$ -0.5076	\$ 0.0420	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.2017 \$ -0.1487

DATED: ~~XX XX, 2024~~ March 22, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: ~~November 1, 2024~~ April 1, 2024

Neil Proudman
TITLE: President

Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106
Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. 23-076

4 FIRM RATE SCHEDULES – MANAGED EXPANSION PROGRAM - EXCLUDING KEENE CUSTOMERS

	II RATE SCHEDULES							
	Rates Effective April 1, 2024 – April 30, 2024 Rates Effective November 1, 2024- April 30, 2025 Winter Period				Rates Effective May 1, 2024 – October 31, 2024 Rates Effective May 1, 2025 - October 31, 2025 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 95	LDAC Page 101	Total Rate	Delivery Charge	Cost of Gas Rate Page 92	LDAC Page 101	Total Rate
Residential Non Heating - R-5								
Customer Charge per Month per Meter	\$ 21.79			\$ 21.79	\$ 21.79			\$ 21.79
All therms	\$ 0.6533	\$ 0.6786 \$ -0.3449	\$ 0.1986	\$ 1.5305 \$ -1.1968	\$ 0.6533	\$ 0.0722 \$ -0.0187	\$ 0.1986	\$ 0.9241 \$ -0.8796
Residential Heating - R-6								
Customer Charge per Month per Meter	\$ 21.79			\$ 21.79	\$ 21.79			\$ 21.79
Therms in the first block per month at	\$ 0.8731	\$ 0.6786 \$ -0.3449	\$ 0.1986	\$ 1.7503 \$ -1.4166	\$ 0.8731	\$ 0.0722 \$ -0.0187	\$ 0.1986	\$ 1.1439 \$ -1.0904
Residential Heating - R-7								
Customer Charge per Month per Meter	\$ 11.99			\$ 11.99	\$ 21.79			\$ 21.79
Therms in the first block per month at	\$ 0.4802	\$ 0.3732 \$ -0.1897	\$ 0.1986	\$ 1.0520 \$ -0.8685	\$ 0.8731	\$ 0.0722 \$ -0.0187	\$ 0.1986	\$ 1.1439 \$ -1.0904
Commercial/Industrial - G-44								
Customer Charge per Month per Meter	\$ 86.10			\$ 86.10	\$ 86.10			\$ 86.10
Size of the first block	100 Therms				20 Therms			
Therms in the first block per month at	\$ 0.6977	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.4637 \$ -1.1298	\$ 0.6977	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.8573 \$ -0.8032
All therms over the first block per month at	\$ 0.4800	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.2460 \$ -0.9121	\$ 0.4800	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.6396 \$ -0.5855
Commercial/Industrial - G-45								
Customer Charge per Month per Meter	\$ 258.25			\$ 258.25	\$ 258.25			\$ 258.25
Size of the first block	1000 Therms				400 Therms			
Therms in the first block per month at	\$ 0.6349	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.4009 \$ -1.0670	\$ 0.6349	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.7945 \$ -0.7404
All therms over the first block per month at	\$ 0.4337	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.1997 \$ -0.8658	\$ 0.4337	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.5933 \$ -0.5392
Commercial/Industrial - G-46								
Customer Charge per Month per Meter	\$ 1,105.88			\$ 1,105.88	\$ 1,105.88			\$ 1,105.88
All therms over the first block per month at	\$ 0.3916	\$ 0.6786 \$ -0.3447	\$ 0.0874	\$ 1.1576 \$ -0.8237	\$ 0.1903	\$ 0.0722 \$ -0.0181	\$ 0.0874	\$ 0.3499 \$ -0.2958
Commercial/Industrial - G-55								
Customer Charge per Month per Meter	\$ 86.18			\$ 86.18	\$ 86.18			\$ 86.18
Size of the first block	100 Therms				100 Therms			
Therms in the first block per month at	\$ 0.4204	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.1867 \$ -0.8537	\$ 0.4204	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.5801 \$ -0.5271
All therms over the first block per month at	\$ 0.2807	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.0470 \$ -0.7140	\$ 0.2807	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.4404 \$ -0.3874
Commercial/Industrial - G-56								
Customer Charge per Month per Meter	\$ 258.02			\$ 258.02	\$ 258.02			\$ 258.02
Size of the first block	1000 Therms				1000 Therms			
Therms in the first block per month at	\$ 0.3624	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.1287 \$ -0.7957	\$ 0.2677	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.4274 \$ -0.3744
All therms over the first block per month at	\$ 0.2477	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.0140 \$ -0.6810	\$ 0.1603	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.3200 \$ -0.2670
Commercial/Industrial - G-57								
Customer Charge per Month per Meter	\$ 1,140.69			\$ 1,140.69	\$ 1,140.69			\$ 1,140.69
All therms over the first block per month at	\$ 0.2534	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 1.0197 \$ -0.6867	\$ 0.1284	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.2881 \$ -0.2351
Commercial/Industrial - G-58								
Customer Charge per Month per Meter	\$ 1,141.63			\$ 1,141.63	\$ 1,141.63			\$ 1,141.63
All therms over the first block per month at	\$ 0.0966	\$ 0.6789 \$ -0.3459	\$ 0.0874	\$ 0.8629 \$ -0.5299	\$ 0.0546	\$ 0.0723 \$ -0.0193	\$ 0.0874	\$ 0.2143 \$ -0.1613

DATED: ~~XX XX, 2024~~ March 22, 2024

ISSUED BY: /s/Neil Proudman

EFFECTIVE: ~~November 1, 2024~~ April 1, 2024

Neil Proudman
TITLE: President

Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106
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NHPUC NO. 11 GAS
LIBERTY UTILITIES

~~Illustrative Fourth Third~~ Revised Page 91
Superseding ~~Third Second~~ Revised Page 91
Summer Cost of Gas

26 ANTICIPATED SUMMER PERIOD COST OF GAS - EXCLUDING KEENE CUSTOMERS OR GAS LIGHTING

Anticipated Cost of Gas

PERIOD COVERED: SUMMER PERIOD, MAY 1, 2024 THROUGH OCTOBER 31, 2024
PERIOD COVERED: SUMMER PERIOD, MAY 1, 2025 THROUGH OCTOBER 31, 2025
(REFER TO TEXT ON IN SECTION 17 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
Anticipated Direct Cost of Gas		
Purchased Gas:		
Demand Costs:	\$ 1,210,454	\$ 3,222,250
Supply Costs:	6,947,947	5,741,685
Storage Gas:		
Demand, Capacity:	\$ -	\$ -
Commodity Costs:	-	-
Produced Gas:		
	-	114,493
Hedged Contract (Saving)/Loss		
	<u>(3,860,898)</u>	<u>(2,938,092)</u>
Unadjusted Anticipated Cost of Gas		
	<u>\$ 4,297,502</u>	<u>\$ 6,140,336</u>
Adjustments:		
Prior Period (Over)/Under Recovery (as of 9/1/2024/2023 estimated COG)	\$ (410,878)	\$ (4,190,137)
Interest	23,689	(240,092)
Accounting Adjustments	-	-
Refunds from Suppliers	-	-
Broker Revenues	-	-
Fuel Financing	-	-
Transportation CGA Revenues	-	-
Interruptible Sales Margin	-	-
Capacity Release and Off System Sales Margins	(3,069,734)	(2,027,770)
Hedging Costs	-	-
Fixed Price Option Administrative Costs	-	-
Total Adjustments	<u>(3,456,923)</u>	<u>(6,457,999)</u>
Total Anticipated Direct Cost of Gas		
	<u>\$ 840,579</u>	<u>\$ (317,663)</u>
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 05/01/2524-10/31/2524	\$ 4,297,502	\$ 6,140,336
Working Capital Rate: Lead Lag Days / 365	0.0705	0.0705
Prime Rate	8.00%	8.50%
Working Capital Percentage	0.564%	0.599%
Working Capital	\$ 24,238	\$ 36,778
Plus: Working Capital Reconciliation (Acct-1163-1424)	<u>(5,233)</u>	<u>39,326</u>
Total Working Capital Allowance	19,005	76,104
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 05/01/2524-10/31/2524	\$ 4,297,502	\$ 6,140,336
Less: Refunds	-	-
Plus: Total Working Capital	19,005	76,104
Plus: Prior Period (Over)/Under Recovery	<u>(410,878)</u>	<u>(4,190,137)</u>
Subtotal	\$ 3,905,630	\$ 2,026,303
Bad Debt Percentage	1.99%	0.23%
Bad Debt Allowance	\$ 8,995	\$ 4,699
Plus: Bad Debt Reconciliation (Acct-1163-1754)	<u>749,119</u>	<u>698,114</u>
Total Bad Debt Allowance	\$ 758,114	\$ 702,813
Production and Storage Capacity		
	\$ -	\$ -
Miscellaneous Overhead 05/01/2524-10/31/2524	\$ -	\$ -
Times Summer Sales	22,423	24,743
Divided by Total Sales	<u>111,311</u>	<u>119,311</u>
Miscellaneous Overhead		
	-	-
Total Anticipated Indirect Cost of Gas	<u>\$ 777,119</u>	<u>\$ 778,917</u>
Total Cost of Gas		
	<u>\$ 1,617,699</u>	<u>\$ 461,254</u>

DATED: ~~XX XX, 2024~~ November 15, 2023

ISSUED BY: /s/Neil Proudman

EFFECTIVE: ~~November 1, 2024~~ November 1, 2023

Neil Proudman
President

Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106
Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076

NHPUC NO. 11 GAS
LIBERTY UTILITIES

~~Illustrative Twelfth~~ ~~Eleventh~~ Revised Page 92
Superseding ~~Eleventh~~ ~~Tenth~~ Revised Page 92

Summer Cost of Gas

27 CALCULATION OF FIRM SALES SUMMER PERIOD COST OF GAS RATE -
EXCLUDING KEENE CUSTOMERS

CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: ~~SUMMER PERIOD, MAY 1, 2024 THROUGH OCTOBER 31, 2024~~
PERIOD COVERED: ~~SUMMER PERIOD, MAY 1, 2025 THROUGH OCTOBER 31, 2025~~
(Refer to Text in Section 17 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 840,579	\$ (917,664)
Projected Prorated Sales (05/01/20252024-10/31/20252024)	22,422,719	24,742,664
Direct Cost of Gas Rate	\$ 0.0375	\$ (0.0428) per therm
Demand Cost of Gas Rate	\$ 1,210,454	\$3,222,260
Commodity Cost of Gas Rate	6,947,947	\$ -0.1437 per therm
Adjustment Cost of Gas Rate	(3,456,923)	\$ 0.3089
Hedge Contract (Savings)	(3,860,898)	(0.1542) per therm
Total Direct Cost of Gas Rate	\$ 840,579	\$ (0.1722) per therm
	\$ 0.0375	\$ (0.0428) per therm

Total Anticipated Indirect Cost of Gas	\$ 777,119	\$ (776,947)
Projected Prorated Sales (05/01/20252024-10/31/20252024)	22,422,719	24,742,664
Indirect Cost of Gas	\$ 0.0347	\$ -0.0315 per therm

TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/2524 \$ 0.0722 \$ -0.0487 per therm

RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 05/01/2524 **COGwr** \$ 0.0722 \$ -0.0487 /therm
Maximum (COG + 25%) \$ 0.0903 \$ -0.0234

C&I HIGH WINTER USE COST OF GAS RATE - 05/01/2524 **COGwh** \$ 0.0722 \$ -0.0484 /therm

Average Demand Cost of Gas Rate Effective 05/01/2524	\$ 0.0540	\$ -0.1302
Times: High Winter Use Ratio (Summer)	0.9995	-0.9997
Times: Correction Factor	0.9997	-0.9976
Adjusted Demand Cost of Gas Rate	\$ 0.0540	\$ -0.1267
Commodity Cost of Gas Rate	\$ 0.3099	\$ -0.1179
Adjustment Cost of Gas Rate	\$ (0.1542)	\$ (0.2640)
Indirect Cost of Gas Rate	\$ 0.0347	\$ -0.0346
Hedge Contract (Savings)	\$ (0.1722)	
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.0722	\$ -0.0484

Maximum (COG + 25%) \$ 0.0902 \$ -0.0226

C&I LOW WINTER USE COST OF GAS RATE - 05/01/2524 **COGwl** \$ 0.0723 \$ -0.0493 /therm

Average Demand Cost of Gas Rate Effective 05/01/2524	\$ 0.0540	\$ -0.1302
Times: Low Winter Use Ratio (Summer)	1.0014	-1.0060
Times: Correction Factor	0.9997	-0.9976
Adjusted Demand Cost of Gas Rate	\$ 0.0541	\$ -0.1309
Commodity Cost of Gas Rate	\$ 0.3099	\$ -0.1179
Adjustment Cost of Gas Rate	\$ (0.1542)	\$ (0.2640)
Indirect Cost of Gas Rate	\$ 0.0347	\$ -0.0346
Hedge Contract (Savings)	\$ (0.1722)	
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.0723	\$ -0.0493

Maximum (COG + 25%) \$ 0.0904 \$ -0.0244

DATED: ~~XX XX, 2024~~ ~~November 15, 2023~~

ISSUED BY: ~~/s/Neil Proudman~~
Neil Proudman
President

EFFECTIVE: ~~November 1, 2024~~ ~~November 1, 2023~~

Authorized by NHPUC Order No. ~~XX,XXX~~ dated ~~XX XX, 2024~~, in Docket No. ~~DG 24-106~~
~~Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076~~

29 CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

II. RATE SCHEDULES

CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE
 PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2023 THROUGH APRIL 30, 2024
 PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025
 (Refer to Text in Section 17(A) Fixed Price Option Program)

	(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 55,600,306	\$ 55,600,306	\$ 67,828,453
Projected Prorated Sales (11/01/243 - 04/30/254)	88,888,172	88,888,172	94,568,321
Direct Cost of Gas Rate	\$ 0.6255	\$ 0.6255	\$ 0.7472
per therm			
Demand Cost of Gas Rate	\$ 14,124,307	\$ 0.1589	\$ 12,479,766
per therm			
Commodity Cost of Gas Rate	48,298,071	\$ 0.5434	59,033,914
per therm			
Adjustment Cost of Gas Rate	(2,327,171)	\$ (0.0262)	666,498
per therm			
Hedge Underground Storage Contract (Savings)/Loss	(4,494,900)	\$ (0.0506)	(4,364,724)
per therm			
Total Direct Cost of Gas Rate	\$ 55,600,306	\$ 0.6255	\$ 67,828,453
per therm			
Total Anticipated Indirect Cost of Gas	\$ 4,718,363	\$ 3,799,945	\$ 3,799,945
Projected Prorated Sales (11/01/243 - 04/30/254)	88,888,172	88,888,172	94,568,321
Indirect Cost of Gas	\$ 0.0531	\$ 0.0531	\$ 0.0391
per therm			
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/243)	\$ 0.6786	\$ 0.6786	\$ 0.7863
Calculation of FPO Excluding Low Income - Rate Code R-3			
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/243)	\$ 0.6786	\$ 0.6786	\$ 0.7863
FPO Risk Premium	\$ 0.0200	\$ 0.0200	\$ 0.0200
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/243)	\$ 0.6986	\$ 0.6986	\$ 0.7763
FPO Risk Premium (Line 14 * 0.55)	\$ 0.0110	\$ 0.0110	\$ 0.0110
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/243) FPO (Line 13 * 0.55)	\$ 0.3732	\$ 0.3732	\$ 0.4160
Calculation of FPO for Gas Assistance Program - Rate Code R-4			
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/243)	\$ 0.3842	\$ 0.3842	\$ 0.4270
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/243) (Line 15 * 0.55)	\$ 0.3842	\$ 0.3842	\$ 0.4270
RESIDENTIAL FPO COST OF GAS RATE - LOW INCOME - (R-4) 11/01/243	\$ 0.3842	\$ 0.3842	\$ 0.4270
COGWR	\$ 0.3842	\$ 0.3842	\$ 0.4270
per therm			

ISSUED BY: /s/Neil Proudman
Neil Proudman
President

EFFECTIVE: November 1, 2024

DATED: XX XX, 2024

Authorized by NHPUC Order No. XX,XXX dated XX XX, 2024, in Docket No. DG 24-106
 Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076

30 CALCULATION OF FIRM SALES WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

CALCULATION OF FIRM SALES COST OF GAS RATE
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2022 THROUGH APRIL 30, 2024
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025
(Refer to Text in Section 17 Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)
Total Anticipated Direct Cost of Gas	\$ 55,600,306	\$67,828,463
Projected Prorated Sales (11/01/2024-3 - 04/30/20254)	88,888,172	-94,668,324
Direct Cost of Gas Rate	\$ 0.6255	\$ -0.7172 per them
Demand Cost of Gas Rate	\$ 14,124,307	\$ 0.1589 \$-12,470,766 \$ -0.1320 per them
Commodity Cost of Gas Rate	\$ 48,298,071	\$ 0.5434 \$-50,933,914 \$ -0.6242 per them
Adjustment Cost of Gas Rate	\$ (2,327,171)	\$ (0.0262) \$ 666,498 \$ -0.0070 per them
Hedge Contract (Savings)	\$ (4,494,900)	\$ (0.0506) \$ (4,351,724) \$ -(0.0460) per them
Total Direct Cost of Gas Rate	\$ 55,600,306	\$ 0.6255 \$67,828,463 \$ -0.7172 per them
Total Anticipated Indirect Cost of Gas	\$ 4,718,363	\$-3,700,946
Projected Prorated Sales (11/01/2024-3 - 04/30/20254)	88,888,172	-94,668,324
Indirect Cost of Gas	\$ 0.0531	\$ -0.0394 per them
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/243	\$ 0.6786	\$ -0.7563 per them
RESIDENTIAL COST OF GAS RATE - EXCLUDING LOW INCOME - 11/01/243	COGwr	\$ 0.6786 \$ -0.7563 /them
Change in Rate due to change in under/over recovery		\$ (0.0316)
RESIDENTIAL COST OF GAS RATE - 12/01/2023	COGwr	\$ -0.7248 /them
Change in Rate due to change in under/over recovery		\$ (0.0788)
RESIDENTIAL COST OF GAS RATE - 01/01/2024	COGwr	\$ -0.6480 /them
Change in Rate due to change in under/over recovery		\$ -0.0188
RESIDENTIAL COST OF GAS RATE - 2/01/2024	COGwr	\$ -0.6648 /them
Change in Rate due to change in under/over recovery		\$ (0.1609)
RESIDENTIAL COST OF GAS RATE - 3/01/2024	COGwr	\$ -0.6039 /them
Change in Rate due to change in under/over recovery		\$ (0.1690)
RESIDENTIAL COST OF GAS RATE - 4/01/2024	COGwr	\$ -0.3449 /them
Maximum (COG + 25%)	\$ 0.8483	\$ -0.0454
GAS ASSISTANCE PLAN RESIDENTIAL COST OF GAS RATE R-4 - 11/01/243	COGwr	\$ 0.3732 \$ -0.4160 /them
Change in Rate due to change in under/over recovery		\$ (0.0174)
RESIDENTIAL COST OF GAS RATE - 12/01/2023	COGwr	\$ -0.3896 /them
Change in Rate due to change in under/over recovery		\$ (0.0433)
RESIDENTIAL COST OF GAS RATE - 01/01/2024	COGwr	\$ -0.3563 /them
Change in Rate due to change in under/over recovery		\$ -0.0103
RESIDENTIAL COST OF GAS RATE - 2/01/2024	COGwr	\$ -0.3666 /them
Change in Rate due to change in under/over recovery		\$ (0.0885)
RESIDENTIAL COST OF GAS RATE - 3/01/2024	COGwr	\$ -0.2774 /them
Change in Rate due to change in under/over recovery		\$ (0.0874)
RESIDENTIAL COST OF GAS RATE - 4/01/2024	COGwr	\$ -0.1897 /them
Maximum (COG + 25%)	\$ 0.4665	\$ -0.6200
C&I HIGH WINTER USE COST OF GAS RATE - 11/01/243	COGwh	\$ 0.6786 \$ -0.7564 /them
Change in Rate due to change in under/over recovery		\$ (0.0316)
C&I HIGH WINTER USE COST OF GAS RATE - 12/01/2023	COGwh	\$ -0.7246 /them
Change in Rate due to change in under/over recovery		\$ (0.0788)
C&I HIGH WINTER USE COST OF GAS RATE - 01/01/2024	COGwh	\$ -0.6458 /them
Change in Rate due to change in under/over recovery		\$ -0.0188
C&I HIGH WINTER USE COST OF GAS RATE - 2/01/2024	COGwh	\$ -0.6648 /them
Change in Rate due to change in under/over recovery		\$ (0.1609)
C&I HIGH WINTER USE COST OF GAS RATE - 3/01/2024	COGwh	\$ -0.6037 /them
Change in Rate due to change in under/over recovery		\$ (0.1690)
C&I HIGH WINTER USE COST OF GAS RATE - 4/01/2024	COGwh	\$ -0.3447 /them
Average Demand Cost of Gas Rate Effective 11/01/243	\$ 0.1589 \$ -0.1320	
Times: High Winter Use Ratio (Winter)	0.9995 \$ -0.0087	
Times: Correction Factor	1.0002 \$ -0.0007	
Adjusted Demand Cost of Gas Rate	\$ 0.1589 \$ -0.1318	
Commodity Cost of Gas Rate	\$ 0.5434 \$ -0.6242	
Adjustment Cost of Gas Rate	\$ (0.0262) \$ -0.0070	
Indirect Cost of Gas Rate	\$ 0.0531 \$ -0.0394	
Hedge Contract (Savings)	\$ (0.0506) \$ (0.0460)	
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.6786 \$ -0.7564	
Maximum (COG + 25%)	\$ 0.8482	\$ -0.0454
C&I LOW WINTER USE COST OF GAS RATE - 11/01/243	COGwl	\$ 0.6789 \$ -0.7573 /them
Change in Rate due to change in under/over recovery		\$ (0.0316)
C&I LOW WINTER USE COST OF GAS RATE - 12/01/2023	COGwl	\$ -0.7268 /them
Change in Rate due to change in under/over recovery		\$ (0.0788)
C&I LOW WINTER USE COST OF GAS RATE - 01/01/2024	COGwl	\$ -0.6470 /them
Change in Rate due to change in under/over recovery		\$ -0.0188
C&I LOW WINTER USE COST OF GAS RATE - 2/01/2024	COGwl	\$ -0.6658 /them
Change in Rate due to change in under/over recovery		\$ (0.1609)
C&I LOW WINTER USE COST OF GAS RATE - 3/01/2024	COGwl	\$ -0.6048 /them
Change in Rate due to change in under/over recovery		\$ (0.1690)
C&I LOW WINTER USE COST OF GAS RATE - 4/01/2024	COGwl	\$ -0.3489 /them
Average Demand Cost of Gas Rate Effective 11/01/243	\$ 0.1589 \$ -0.1320	
Times: Low Winter Use Ratio (Winter)	1.0014 \$ -1.0080	
Times: Correction Factor	1.0002 \$ -0.0007	
Adjusted Demand Cost of Gas Rate	\$ 0.1592 \$ -0.1330	
Commodity Cost of Gas Rate	\$ 0.5434 \$ -0.6242	
Adjustment Cost of Gas Rate	\$ (0.0262) \$ -0.0070	
Indirect Cost of Gas Rate	\$ 0.0531 \$ -0.0394	
Hedge Contract (Savings)	\$ (0.0506) \$ (0.0460)	
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.6789 \$ -0.7573	
Maximum (COG + 25%)	\$ 0.8486	\$ -0.0466

DATED: ~~XX XX, 2024~~ ^{March 22, 2024}

ISSUED BY: /s/Neil Proudman
Neil Proudman
President

EFFECTIVE: ~~November 1, 2024~~ ^{April 1, 2024}

TITLE:

Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106
Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. 23-076

NHPUC NO. 11 GAS
LIBERTY UTILITIES

~~Illustrative Fourth Third~~ Revised Page 96
Superseding ~~Third Second~~ Revised Page 96
Winter Cost of Gas

31 ANTICIPATED WINTER PERIOD COST OF GAS - EXCLUDING KEENE CUSTOMERS OR GAS LIGHTING

Anticipated Cost of Gas
~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2023 THROUGH APRIL 30, 2024~~
~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025~~
(REFER TO TEXT ON IN SECTION 17 COST OF GAS CLAUSE)

(Col 1)	(Col 2)	(Col 3)
Anticipated Direct Cost of Gas		
Purchased Gas:		
Demand Costs:	\$ 13,277,648	\$ 11,478,067
Supply Costs:	40,009,791	46,903,637
Storage Gas:		
Demand, Capacity:	\$ 846,659	\$ 1,001,699
Commodity Costs:	4,210,226	4,860,737
Produced Gas:		
	4,078,054	7,269,540
Hedged Contract (Saving)/Loss		
	<u>(4,494,900)</u>	<u>(4,351,724)</u>
Unadjusted Anticipated Cost of Gas	\$ 57,927,477	\$ 67,161,955
Adjustments:		
Prior Period (Over)/Under Recovery (as of 05/01/24 23)	\$ 306,763	\$ 3,674,198
Interest	180,337	452,781
Accounting Adjustments	23,633	
Gas Assistance Program	(618,933)	
Refunds from Suppliers	-	
Broker Revenues	30,408	(1,340,480)
Fuel Financing	462,146	861,872
Transportation CGA Revenues	62,123	(120,926)
Interruptible Sales Margin	-	
Capacity Release and Off System Sales Margins	(2,836,642)	(2,860,948)
Hedging Costs	-	
Fixed Price Option Administrative Costs	62,993	
Total Adjustments	<u>(2,327,171)</u>	<u>666,498</u>
Total Anticipated Direct Cost of Gas	\$ 55,600,306	\$ 67,828,453
Anticipated Indirect Cost of Gas		
Working Capital:		
Total Unadjusted Anticipated Cost of Gas 11/01/24 3 - 04/30/254	\$ 57,927,477	\$ 67,161,955
Working Capital Rate: Lead Lag Days / 365	0.0705	0.0705
Prime Rate	8.00%	8.50%
Working Capital Percentage	0.564%	0.599%
Working Capital	\$ 315,708	\$ 402,273
Plus: Working Capital Reconciliation (Acct 142.20)	<u>(143,692)</u>	<u>(162,369)</u>
Total Working Capital Allowance		172,016 239,903
Bad Debt:		
Total Unadjusted Anticipated Cost of Gas 11/01/24 3 - 04/30/254	\$ 57,927,477	\$ 67,161,955
Less: Refunds	-	
Plus: Total Working Capital	172,016	239,903
Plus: Prior Period (Over)/Under Recovery	<u>306,763</u>	<u>3,674,198</u>
Subtotal	\$ 58,406,256	\$ 71,076,057
Bad Debt Percentage	1.99%	0.23%
Bad Debt Allowance	\$ 1,026,654	\$ 164,831
Plus: Bad Debt Reconciliation (Acct 175.52)	<u>(165,765)</u>	<u>(389,248)</u>
Total Bad Debt Allowance	<u>\$ 860,889</u>	<u>(224,417)</u>
Production and Storage Capacity	\$ 3,685,459	\$ 3,685,458
Miscellaneous Overhead 11/01/2024 3 - 04/30/254	\$ -	\$ -
Times Winter Sales	88,888	94,568
Divided by Total Sales	<u>111,311</u>	<u>119,311</u>
Miscellaneous Overhead	-	-
Total Anticipated Indirect Cost of Gas	\$ 4,718,363	\$ 3,700,945
Total Cost of Gas	\$ 60,318,669	\$ 71,529,398

DATED: ~~XX XX, 2024~~ November 15, 2023

ISSUED BY: /s/Neil Proudman

EFFECTIVE: ~~November 1, 2024~~ November 1, 2023

TITLE: Neil Proudman
President

~~Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106~~
~~Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076~~

NHPUC NO. 11 GAS
LIBERTY UTILITIES

~~Illustrative Fourth~~ Revised Page 98
~~Third~~ Revised Page 98
Firm Transportation Cost of Gas

33 CALCULATION OF FIRM TRANSPORTATION COST OF GAS RATE

II. RATE SCHEDULES

Calculation of Firm Transportation Cost of Gas Rate

~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2023 THROUGH APRIL 30, 2024~~

~~PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2024 THROUGH APRIL 30, 2025~~

(Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	(Col 2)	(Col 3)	(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:			
PROPANE	\$ 1,253,503 \$ 1,039,539		
LNG	6,046,038 4,360,481		
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES	7,269,541 5,400,020		
ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES		8.7%	
ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	\$ 632,450 \$ 469,802		
PROJECTED FIRM THROUGHPUT (THERMS):			
FIRM SALES	94,568,324 88,888,172	67.5%	
FIRM TRANSPORTATION SUBJECT TO FTCS	43,224,605 42,888,750	32.5%	
TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	137,792,926 131,776,922	100.0%	
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	32.5%	x	\$ 469,802 =
			\$ 152,904 \$ 198,395
			\$ 632,450
PRIOR (OVER) OR UNDER COLLECTION			(90,781) (120,566)
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS			\$ 62,123 \$ 77,829
PROJECTED FIRM TRANSPORTATION THROUGHPUT			42,888,750 43,224,605
FIRM TRANSPORTATION COST OF GAS			\$ 0.0014 \$ 0.0018

DATED: ~~XX XX, 2024~~ November 15, 2023

ISSUED BY: /s/Neil Proudman

Neil Proudman

EFFECTIVE: ~~November 1, 2024~~ November 1, 2023

TITLE: President

~~Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106~~
~~Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076~~

NHPUC NO. 11 GAS
LIBERTY UTILITIES

~~Illustrative Fourth~~ Revised Page 153
Superseding ~~Third~~ Revised Page 153
Attachments

2 ATTACHMENT B Schedule of Administrative Fees and Charges

Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge:	\$	0.11	\$ 0.14	per MMBtu of Daily Imbalance Volumes")
II. Capacity Mitigation Fee				15% of the Proceeds from the Marketing of Capacity for Mitigation.
III. Peaking Demand Charge	\$	56.21	\$ 43.95	MMBTU of Peak MDQ
IV. Company Allowance Calculation (per Schedule 25)				
		159,432,155	160,052,009	Total Sendout - Therms Jul-2023 2 - Jun-2024 3
		<u>155,226,688</u>	153,641,897	Total Throughput - Therms Jul-2023 2 - Jun-2024 3
		4,205,467	6,410,112	Variance (Sendout - Throughput)
Company Allowance Percentage 2024-25 2023-24		2.6%	4.0%	Variance / Total Sendout

DATED: ~~XX XX, 2024~~ ~~November 15, 2023~~

ISSUED BY: /s/Neil Proudman
Neil Proudman

EFFECTIVE: ~~November 1, 2024~~ ~~November 1, 2023~~

TITLE: President

Authorized by NHPUC Order No. XX.XXX dated XX XX, 2024, in Docket No. DG 24-106
~~Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076~~

**3 ATTACHMENT C
Capacity Allocators**

CAPACITY ALLOCATORS

Rate Class		Pipeline	Storage	Peaking	Total
G-41	Low Annual /High Winter Use	70.6% 72.9%	17.2% 17.7%	12.2% 9.4%	100.0%
G-51	Low Annual /Low Winter Use	79.6% 80.1%	12.0% 13.0%	8.5% 6.9%	100.0%
G-42	Medium Annual / High Winter	70.6% 72.9%	17.2% 17.7%	12.2% 9.4%	100.0%
G-52	High Annual / Low Winter Use	79.6% 80.1%	12.0% 13.0%	8.5% 6.9%	100.0%
G-43	High Annual / High Winter	70.6% 72.9%	17.2% 17.7%	12.2% 9.4%	100.0%
G-53	High Annual / Load Factor < 90%	79.6% 80.1%	12.0% 13.0%	8.5% 6.9%	100.0%
G-54	High Annual / Load Factor < 90%	79.6% 80.1%	12.0% 13.0%	8.5% 6.9%	100.0%

DATED: ~~XX XX, 2024~~ November 20, 2023

ISSUED BY: /s/Neil Proudman
Neil Proudman
TITLE: President

EFFECTIVE: ~~November 1, 2024~~ November 1, 2023

~~Authorized by NHPUC Order No. XX,XXX dated XX XX, 2024, in Docket No. DG 24-106
Authorized by NHPUC Order No. 26,898 dated October 31, 2023, in Docket No. DG 23-076~~

STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION

Docket No. DG 24-106

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Winter 2024/2025 Cost of Gas and Summer 2025 Cost of Gas

DIRECT TESTIMONY

OF

JOSHUA J. TILBURY

AND

KELLY A. ESPOSITO

AND

MARK J. SUMMERFIELD

October 16, 2024



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1 **I. INTRODUCTION**

2 **Q. What are your full names, positions, and business addresses?**

3 A. My name is Joshua J. Tilbury. I am Director, Energy Procurement for Liberty Utilities
4 Service Corp. (“LUSC”), which provides services to Liberty Utilities (EnergyNorth
5 Natural Gas) Corp. (“Liberty” or “the Company”). My business address is 15 Buttrick
6 Road, Londonderry, New Hampshire.

7 A. My name is Kelly A. Esposito. I am Manager, Energy Procurement for LUSC, which
8 provides services to Liberty. My business address is 15 Buttrick Road, Londonderry,
9 New Hampshire.

10 A. My name is Mark J. Summerfield. I am Supply Operations Manager, Energy
11 Procurement for LUSC, which provides services to Liberty. My business address is 15
12 Buttrick Road, Londonderry, New Hampshire.

13 **Q. Mr. Tilbury, please summarize your educational background and your business and**
14 **professional experience.**

15 A. I graduated from the University of Idaho in Moscow, Idaho in 1999 with a Bachelor of
16 Science in Crime and Justice Studies and Sociology. I have 16 years of professional
17 experience in the utilities industry in the areas of gas supply, gas acquisitions,
18 transportation services, planning, hedging, and operations.

19 Prior to joining Liberty Utilities, I was employed by New Mexico Gas Company, where I
20 served as the Director of Gas Management. In that role, I managed gas supply, system
21 planning, gas control, compression, and the transportation program. In 2022, I joined the

1 Liberty team as the Director of Energy Procurement where I am responsible for the gas
2 portfolio management functions including procurement, planning, forecasting,
3 scheduling, hedging, and on-system transportation for Liberty and for Liberty's natural
4 gas distribution affiliates in Georgia, Missouri, Illinois, Iowa, Massachusetts, New York,
5 and New Brunswick.

6 **Q. Mrs. Esposito, please summarize your educational background and your business
7 and professional experience.**

8 A. I graduated from Endicott College in Beverly Massachusetts, in 1981 with an Associate
9 of Science in Hospitality Management. In 1989 I was hired by Commonwealth Gas
10 (EverSource), as an Installation clerk, then in 1992 moved over to Energy Procurement
11 with the Restructuring of Pipeline Services (FERC Order No. 636), where I started as a
12 Contract Administrator, and was promoted to Gas Supply Specialist. In 1997, I joined
13 Bay State Gas Company (Nisource/Columbia Gas), as a Natural Gas Trader. In 2013, I
14 was hired by LUSC as a Natural Gas Scheduler and was promoted to Natural Gas Trader
15 in 2014. In 2023, I was promoted to. Manager of Energy Procurement. In this capacity, I
16 provide gas procurement services to Liberty.

17 **Q. Mr. Summerfield, please summarize your educational background and your
18 business and professional experience.**

19 A. I graduated from University of Humberside and Lincoln in Hull, England, in 2001 with
20 an Higher National Diploma in Media Technology and from Stockport College of High
21 Education in Stockport, England in 2007 with Association of Taxation Technicians in

1 accounting and taxation. I was hired by LUSC as Liberty's revenue accountant in 2013.
2 In 2014 moved to over to Energy Procurement in the retail choice group and in 2015 was
3 promoted the Natural Gas Scheduler. In 2016 was promoted to Scheduling Supervisor,
4 and in 2022 I was promoted to Supply Operations Manager responsible for scheduling
5 and retail choice for Liberty and all its natural gas affiliates.

6 **Q. Mr. Tilbury, have you previously testified in regulatory proceedings?**

7 A. Yes, I have.

8 **Q. Mrs. Esposito have you previously testified in regulatory proceedings?**

9 A. No, I have not.

10 **Q. Mr. Summerfield, have you previously testified in regulatory proceedings?**

11 A. No, I have not.

12 **Q. What is the purpose of your testimony in this proceeding?**

13 A. The purpose of our testimony is to summarize the Company's gas supply and firm
14 transportation portfolio and the forecasted sendout requirements for Liberty for the
15 2024/2025 peak and off-peak seasons. This information is provided in significantly more
16 detail in the schedules that the Company includes with this filing.

17 **Q. Are there any schedules and attachments included in your testimony?**

18 A. Yes. The table below lists the schedules that we are sponsoring.

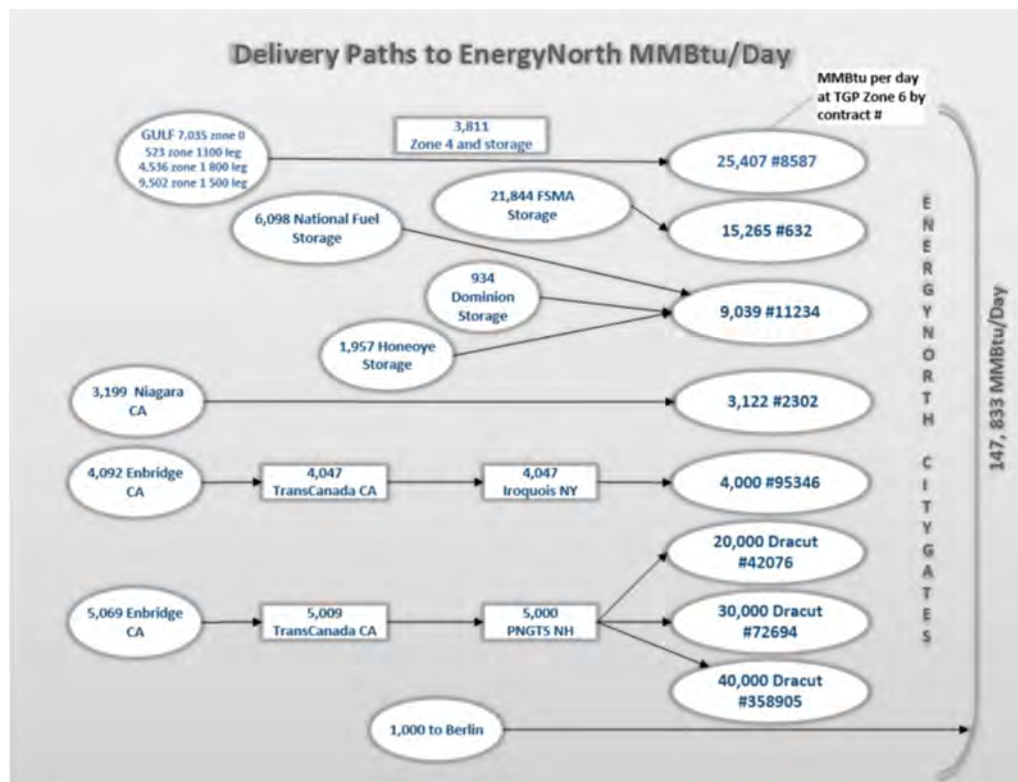
1

Schedule	Description
Pk Schedule 5	Demand Costs, Volumes, and Transportation Rates
Pk Schedule 5D	Pipeline Tariff Sheets
Pk Schedule 6	Supply and Commodity Costs, Volumes, and Transportation Rates
Pk Schedule 10A	Derivation of Class Assignments, Weighting and Correction Factor
Pk Schedule 10B	Firm and Transportation Sales
Pk Schedule 11	Normal and Design Year Volumes and Capacity Utilization
Pk Schedule 11D	Forecast of Upcoming Winter Period Design Day Report
Pk Schedule 12	Transportation Available for Pipeline Supply and Storage, and Agreements for Gas Supply and Transportation
Pk Schedule 16	Storage Inventory, Underground, LPG and LNG
Pk Schedule 21	Calculation of Supplier Balancing Charge, Estimated Daily and Monthly Imbalances, Peaking Demand Rate, and Tennessee Allocations and Capacity Resources
Pk Schedule 22	Capacity Allocators Calculation
OP Schedule 5	Demand Costs, Volumes, and Transportation Rates
OP Schedule 6	Supply and Commodity Costs, Volumes, and Transportation Rates
OP Schedule 10A	Derivation of Class Assignments, Weighting and Correction Factor
OP Schedule 11	Normal and Design Year Volumes and Capacity Utilization
OP Schedule 13	Storage Inventory, Underground, LPG and LNG

II. OVERVIEW OF WINTER 2024/2025 GAS SUPPLY PORTFOLIO

Q. What firm transportation contracts are in the Company’s portfolio?

A. The Company currently holds firm transportation contracts on Tennessee Gas Pipeline (“Tennessee”) (146,833 MMBtu/day) and Portland Natural Gas Transmission System (“PNGTS”) (1,000 MMBtu/day) to provide a daily deliverability of 147,833 MMBtu/day to its citygate stations. In addition to these citygate delivery contracts, the Company also holds other transportation contracts further upstream on other pipelines that feed into the citygate delivery transportation contracts. Schedule 12 in the Company's filing is a schematic diagram of the transportation contracts (example below) which also provides a table listing these contracts. These transportation contracts provide delivery of natural gas from three sources.



1 First, the Company holds firm transportation contracts to allow for delivery of up to
2 13,122 MMBtu/day of Canadian supply. These consist of the following:

- 3 • The Company can receive up to 4,000 MMBtu/day of firm Canadian supply from
4 Dawn, Ontario. This supply is delivered to the Company on Company-held firm
5 transportation contracts on Enbridge Inc. (formally Union Gas Limited),
6 (“Enbridge”), TC Energy Corporation (formally TransCanada Pipelines Limited)
7 (“TC Energy”), Iroquois Gas Transmission System (“Iroquois”), and Tennessee.
- 8 • The Company can receive up to 5,000 MMBtu/day of firm Canadian supply from
9 Dawn, Ontario. This supply is delivered to the Company on Company-held firm
10 transportation contracts on Enbridge, TC Energy, PNGTS, and Tennessee.
- 11 • The Company can receive up to 3,122 MMBtu/day of firm Canadian supply from
12 the Canadian/New York border at Niagara Falls, NY. This supply is delivered to
13 the Company on Company-held firm transportation contracts on Tennessee.
- 14 • The Company can receive up to 1,000 MMBtu/day of firm Canadian supply from
15 a Company-held firm transportation contract PNGTS for delivery to its Berlin
16 service territory.

17 Second, the Company holds the following firm transportation contracts to allow for
18 delivery of up to 106,596 MMBtu/day of domestic supply from the producing and market
19 areas within the United States.

- 1 • The Company can receive up to 21,596 MMBtu/day of firm domestic supplies
2 from Texas and Louisiana production areas. These supplies are delivered to the
3 Company on firm transportation contracts on Tennessee.
- 4 • The Company can receive up to 85,000¹ MMBtu/day of firm supply from
5 Tennessee's Dracut receipt point located in Dracut, Massachusetts. This supply is
6 delivered to the Company on three firm transportation contracts on Tennessee.

7 Third, the Company holds the following firm transportation contracts to allow for
8 delivery of up to 28,115 MMBtu/day of domestic supply from underground storage fields
9 in the New York/Pennsylvania area or the purchase of flowing supply in or downstream
10 of Tennessee Zones 4 and 5.

- 11 • The Company can receive up to 19,076 MMBtu/day of firm domestic supplies
12 from its Tennessee FS-MA storage contract. This contract allows for a storage
13 inventory capacity of 1,560,391 MMBtu. These supplies are delivered to the
14 Company on firm transportation contracts on Tennessee.
- 15 • The Company can receive up to 9,039 MMBtu/day of firm domestic supplies
16 from its storage contracts with National Fuel Gas Supply Corporation, Honeoye
17 Storage Corporation, and BE GT&S, Inc. In aggregate, these contracts allow for

¹ An additional 5,000 MMBtu/day of Dracut capacity is used to transport the previously described 5,000 MMBtu/day of firm Canadian supply from Dawn, Ontario via Enbridge, TC Energy, and PNGTS.

1 a storage inventory capacity of 1,018,780 MMBtu. These supplies are delivered
2 to the Company on a firm transportation contract on Tennessee.

3 **Q. What sources of gas supplies do these firm transportation contracts enable the**
4 **Company to access?**

5 A. The firm transportation contracts that interconnect at the Canadian border allow the
6 Company to purchase firm gas supplies from both Eastern and Western Canada. The
7 Company's domestic long-haul firm transportation contracts provide the Company with
8 ability to buy firm gas supplies primarily from the U.S. Gulf Coast during the winter
9 period and also provide access to natural gas supplies in the Marcellus Shale region.
10 Supplies purchased at the Dracut receipt point, on the other hand, may originate from any
11 number of locations.

12 **Q. Are there any changes to the portfolio of supply contracts for Winter 2024/2025**
13 **compared to last winter?**

14 A. Yes. The Company negotiated a number of different supply contracts for delivery during
15 the peak period. Since its 2023/2024 Cost of Gas filing (Docket No. 23-076), the
16 Company has issued several requests for proposals (“RFP”) for supply for the upcoming
17 winter period. These include a baseload Tennessee Zone 6 citygate or Dracut supply; a
18 Canadian firm transportation capacity interconnecting with Iroquois supply; a Tennessee
19 long-haul capacity from the Gulf Coast and the Zone 4 market areas supply; two requests
20 for proposals for a Tennessee Zone 6 citygate or Dracut swing supply with a call option;
21 and a Canadian firm transportation capacity interconnecting with Tennessee at Dracut

1 supply. Each of these RFPs for the 2024/2025 peak period supply is consistent with the
2 RFPs issued for the 2023/2024 peak period.

3 **Q. What is the status of these RFPs?**

4 A. The Company has completed the process of obtaining and analyzing bids and expects all
5 contracts to be in place by November 1.

6 **Q. What is the status of the Company's storage refill plan?**

7 A. During the 2024 off-peak period, the Company has been injecting supplies into its
8 underground storage fields. The Company plans to have all storage fields, except for its
9 Tennessee FS-MA storage, full by November 1, 2024. The Tennessee FS-MA field is
10 targeted to be approximately 95 percent full by November 1, 2024. The approximate five
11 percent unfilled portion of FS-MA storage provides a buffer that allows the Company
12 operational flexibility to inject some of its supply into storage if needed due to weather
13 fluctuations during the month of November.

14 **Q. What additional sources of gas supply are available to the Company that do not
15 require pipeline transportation capacity?**

16 A. The Company has two additional sources of gas supply available. First, the Company has
17 contracted for dedicated LNG with trucking to refill its LNG storage inventory. Since the
18 Company's LNG storage capacity is limited, having dedicated LNG trucks allows the
19 Company to replenish inventory as it is used, provides supply security for its customers,
20 and enables the Company to adhere to its seven-day storage inventory requirement
21 established by Puc 506.03.

1 Second, the Company has contracted for dedicated deliveries to the Company's three
2 propane facilities including the refill of its propane storage facility located in Amherst,
3 New Hampshire.

4 **Q. What is the capacity of these supplemental gas supply facilities?**

5 A. The Company owns three LNG vaporization facilities in Concord, Manchester, and
6 Tilton that have a combined design vaporization rate of approximately 22,800
7 MMBtu/day, but they are limited operationally by the combined workable storage
8 capacity of approximately 12,600 MMBtu. As described previously, the Company
9 solicited bids for LNG refill and associated trucking to utilize more vaporization capacity
10 from its LNG facilities.

11 Additionally, the Company owns four propane facilities in Amherst (which is only
12 storage), Manchester, Nashua, and Tilton (which have some storage and are connected to
13 the Company's distribution system) that have a combined design vaporization capacity of
14 approximately 28,200 MMBtu/day and a combined workable storage capacity of
15 approximately 122,590 MMBtu. The Company has allocated approximately 12,000
16 MMBtu of the Amherst propane storage capacity to its Keene Division,² leaving
17 approximately 110,600 MMBtu of combined workable storage capacity for EnergyNorth.
18 The Company's propane facilities were refilled during the summer of 2024, and they are
19 ready for the 2024/2025 peak period.

² The Company will make the Keene Division Cost of Gas filing by September 15, 2023.

1 Together, these LNG and propane facilities provide the Company and its customers with
2 necessary system pressure support during peak days as well as a critical gas supply
3 source to meet design day requirements. These facilities contribute to the Company's
4 reliable, flexible, and least-cost resource portfolio.

5 **III. FORECASTED SENDOUT**

6 **Q. What was the source of the projected sendout requirements and costs used in this**
7 **filing?**

8 A. As in prior cost of gas filings, the Company used projected sendout requirements and
9 costs from its forecasts and portfolio of resources.

10 **Q. What are the forecasted sendout requirements for the peak period of 2024/2025?**

11 A. Schedule 11, page 1 of the Company's filing shows the Company's forecasted sendout
12 requirements for sales customers at 88,099,094 therms over the period November 1,
13 2024, to April 30, 2025, under normal weather conditions, which is a slight decrease from
14 last year's forecasted volume of 94,459,064 therms for the period November 1, 2023, to
15 April 30, 2024. In comparison, the normalized actual sendout for firm sales customers
16 for the November 1, 2023, to April 30, 2024, period was 88,011,120 therms.

17 Schedule 11, page 1 also shows the Company's forecasted sendout requirements for sales
18 customers of 98,980,566 therms over the period November 1, 2024, to April 30, 2025,
19 under design weather conditions, which is down from last year's design day forecasted
20 volume of 105,567,453 therms. For the current peak period forecast, design weather

1 requirements are approximately 10 percent greater than normal sendout requirements for
2 weather that is 10 percent colder than normal.

3 On Schedule 11, page 2, the Company summarizes the normal and design year sendout
4 requirements, the seasonally available contract quantities (inclusive of assigned and
5 Company Managed capacity), and the utilization rates of its pipeline firm transportation
6 and storage contracts.

7 Schedule 11D shows the Company's forecasted design day sendout for sales customers
8 for the upcoming 2024/2025 winter period of 1,627,640 therms, which is down from last
9 year's figure of 1,676,882 therms.

10 **Q. Why did the demand forecast decrease relative to what was filed in the 2023/2024**
11 **Cost of Gas filing?**

12 A. The demand forecast in the 2023/2024 Cost of Gas filing was based on the demand
13 forecast presented in Liberty's most recent Integrated Resource Plan, which was filed on
14 October 3, 2022, and relied on historical data through March 2022. Prior to the start of
15 the COVID-19 pandemic the Company experienced growth in demand at a higher rate
16 than during the post-pandemic period. Given the additional two years of historical data
17 on which the current demand forecast relies, which reflects a lower level of growth, the
18 demand forecast has decreased relative to the prior Cost of Gas filing.

19 **Q. What are the forecasted sendout requirements for the off-peak period of 2025?**

20 A. Schedule 11, page 1 of the Company's filing shows the Company's forecasted sendout
21 requirements of 24,555,282 therms over the period May 1 to October 31, 2025, under

1 normal weather conditions, which is lower than last year's forecasted volume of
2 26,848,752 therms over the period May 1 to October 31, 2024.

3 Schedule 11, page 1 also shows the Company's forecasted sendout requirements of
4 24,394,417 therms over the period May 1 to October 31, 2025, under design weather
5 conditions, which is lower than last year's forecasted volume of 26,721,201 therms over
6 the period May 1 to October 31, 2024.

7 On Schedule 11, page 2, the Company summarizes the normal and design off-peak
8 sendout requirements, the seasonally available contract quantities (inclusive of assigned
9 and Company Managed capacity), and the calculated utilization rates of its pipeline
10 transportation and storage contracts based on the normal and design off-peak forecasts
11 contained on Schedule 11, page 1.

12 **IV. GAS SUPPLY COST**

13 **Q. What strategies did the Company employ to stabilize and mitigate costs for winter**
14 **2024/2025?**

15 A. The Company engaged in several strategies to reduce and stabilize costs for customers.
16 First, as described above, over the summer period the Company injected gas into the
17 storage facilities using off-peak summer pricing from the least cost supply points as
18 determined by transportation and storage capacity assets. Next, the Company initiated
19 requests for proposals, or RFPs, from suppliers to obtain the lowest price for supply
20 services. The Company also issued RFPs from suppliers to enter into asset management
21 agreements where the Company allows the winning bidder to use capacity that Liberty

1 holds on various pipelines in exchange for a baseload supply or natural gas call options.

2 This technique results in monthly payments to Liberty, all to the benefit of customers.

3 **Q. How much does the Company expect to recover through asset management credits**
4 **in 2024–2025?**

5 A. For 2024–2025, the Company expects to recover approximately [REDACTED] in asset
6 management credits. These credits will all be used to reduce customer costs.

7 **Q. Has the Company hedged the Tennessee Zone 6 basis for winter 2024/2025?**

8 A. Yes. The Company conducted an RFP to solicit physical supply fixed basis bids for the
9 months of January and February as provided for in Docket No. DG 14-133 and approved
10 in Order No. 25,691 (July 10, 2014). The Company reviewed the bids and selected the
11 supplier who offered the least cost.

12 **Q. How do the forecasted commodity prices in 2024-2025 compare to the actual prices**
13 **from 2023-2024?**

14 A. The current NYMEX forecast for the upcoming 2024-2025 cost of gas period of \$3.0508
15 is down slightly from the 2023-2024 cost of gas period NYMEX forecast of \$3.4163.
16 This can be broken down further by comparing the winter and summer period average
17 pricing. The average NYMEX price for Winter 2023-2024 was \$3.513, as compared to
18 the forecasted NYMEX price for Winter 2024-2025 of \$2.982. The average NYMEX
19 price for Summer 2024 was \$3.32, as compared to the forecasted NYMEX price for
20 Summer 2025 of \$3.12. The Storage weighted average cost (WACOG) is also down for

1 2024-2025. Storage heading into Winter 2023-2024 had a WACOG of \$2.123, as
2 compared to the estimated WACOG of \$1.70 for the upcoming Winter 2024-2025.

3 **Q. Does this conclude your pre-filed direct testimony in this proceeding?**

4 A. Yes, it does.

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 2025 Winter Cost of Gas Filing
Demand Costs, Volumes and Rates

REDACTED
Schedule 5
Page 1 of 3

Demand Costs		EST May 24	EST Jun 24	EST Jul 24	EST Aug 24	EST Sep 24	EST Oct 24	EST Nov 24	EST Dec 24	EST Jan 25	EST Feb 25	EST Mar 25	EST Apr 25	Total
Reference (a)		(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
1	Pipeline Demand													
2	Iroquois Gas Trans Service RTS 470-0	In 65 * In 108	\$ 18,477	\$ 18,477	\$ 18,477	\$ 18,477	\$ 17,369	\$ 17,369	\$ 17,369	\$ 17,369	\$ 17,369	\$ 17,369	\$ 17,369	\$ 212,858
3	Tenn Gas Pipeline 95346 Z5-Z6	In 66 * In 109	23,880	23,880	23,880	23,880	23,880	23,880	23,880	23,880	23,880	23,880	23,880	286,565
4	Tenn Gas Pipeline 2302 Z5-Z6	In 67 * In 110	18,639	18,639	18,639	18,639	18,639	18,639	18,639	18,639	18,639	18,639	18,639	223,664
5	Tenn Gas Pipeline 8587 Z0-Z6	In 68 * In 111	135,803	135,803	135,803	135,803	135,803	135,803	135,803	135,803	135,803	135,803	135,803	1,629,635
6	Tenn Gas Pipeline 8587 Z1-Z6	In 69 * In 112	249,557	249,557	249,557	249,557	249,557	249,557	249,557	249,557	249,557	249,557	249,557	2,994,679
7	Tenn Gas Pipeline 8587 Z4-Z6	In 70 * In 113	25,888	25,888	25,888	25,888	25,888	25,888	25,888	25,888	25,888	25,888	25,888	310,653
8	Tenn Gas Pipeline (Dracut) 42076 Z6-Z6	In 71 * In 114												
9	Tenn Gas Pipeline (Dracut) 358905 Z6-Z6	In 72 * In 115												
10	Tenn Gas Pipeline (Concord Lateral) Z6-Z6	In 73 * In 116												
11	Portland Natural Gas (C2C)	In 74 * In 117												
12	Portland Natural Gas (PXP)	In 75 * In 118												
13	Enbridge Gas M12200 (C2C)	In 76 * In 119	12,204	12,171	12,283	12,283	12,283	12,283	12,283	12,283	12,283	12,283	12,283	147,204
14	Enbridge Gas M12284 (PXP)	In 77 * In 120	15,118	15,077	15,216	15,216	15,216	15,216	15,216	15,216	15,216	15,216	15,216	182,351
15	TransCanada Pipeline 41232 (IRO)	In 78 * In 121	37,005	36,905	37,245	37,245	37,245	37,245	37,245	37,245	39,297	39,297	39,297	454,565
16	TransCanada Pipeline 64195 (PXP)	In 79 * In 122	76,341	76,135	76,835	76,835	76,835	76,835	76,835	76,835	76,835	76,835	76,835	920,827
17	Tenn Gas Pipeline Z4-Z6 stg 632	In 80 * In 123	103,694	103,694	103,694	103,694	103,694	103,694	103,694	103,694	103,694	103,694	103,694	1,244,323
18	Tenn Gas Pipeline Z4-Z6 stg 11234	In 81 * In 124	48,107	48,107	48,107	48,107	48,107	48,107	48,107	48,107	48,107	48,107	48,107	577,288
19	Tenn Gas Pipeline Z5-Z6 stg 11234	In 82 * In 125	11,683	11,683	11,683	11,683	11,683	11,683	11,683	11,683	11,683	11,683	11,683	140,202
20	National Fuel FST 2358	In 83 * In 126	37,411	37,411	37,411	37,411	37,411	37,411	37,411	37,411	37,411	37,411	37,411	448,935
21	Subtotal Pipeline Demand Charges		\$ 1,550,600	\$ 1,550,221	\$ 1,551,512	\$ 1,551,512	\$ 1,550,404	\$ 1,550,404	\$ 1,550,404	\$ 1,552,456	\$ 1,552,456	\$ 1,552,456	\$ 1,552,456	\$ 18,615,286
22	Seasonal Allocation % allocated to Off Peak	Schedule 10B, In 15, col (o) / col (p)	20%	20%	20%	20%	20%	20%	0%	0%	0%	0%	0%	
23	Off-Peak Total	In 21 * In 23	\$ 312,356	\$ 312,280	\$ 312,540	\$ 312,540	\$ 312,317	\$ 312,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,874,350
24	Peak Subtotal	In 21 - In 25	\$ 1,238,244	\$ 1,237,941	\$ 1,238,972	\$ 1,238,972	\$ 1,238,087	\$ 1,238,087	\$ 1,550,404	\$ 1,550,404	\$ 1,552,456	\$ 1,552,456	\$ 1,552,456	\$ 16,740,935
25	Peaking Demand													
26	Tenn Gas Pipeline (Concord Lateral) Z6-Z6	In 87 * In 129												
27	Demand FLS	In 88 * In 130												
28	Peaking Demand	In 89 * In 131												
29	Subtotal Peaking Demand Charges													
30	Subtotal Pipeline & Peaking Demand Charges	In 27 + In 33	\$ 1,238,244	\$ 1,237,941	\$ 1,238,972	\$ 1,238,972	\$ 1,238,087	\$ 1,238,087	\$ 1,820,404	\$ 1,820,404	\$ 1,822,456	\$ 1,822,456	\$ 1,822,456	\$ 18,090,935
31	Capacity Credit Adjustment Factor		-25.09%	-25.09%	-25.09%	-25.09%	-25.09%	-25.09%	-27.49%	-27.49%	-27.49%	-27.49%	-27.49%	
32	Less Transportation Capacity Credit	In 35 * In 37	\$ (310,675)	\$ (310,599)	\$ (310,858)	\$ (310,858)	\$ (310,636)	\$ (310,636)	\$ (500,429)	\$ (500,429)	\$ (500,993)	\$ (500,993)	\$ (500,993)	\$ (4,794,871)
33	Total Pipeline & Peaking Demand Charges	In 35 + In 38	\$ 927,569	\$ 927,341	\$ 928,114	\$ 928,114	\$ 927,451	\$ 927,451	\$ 1,319,975	\$ 1,319,975	\$ 1,321,463	\$ 1,321,463	\$ 1,321,463	\$ 13,296,065
34	Storage Demand													
35	EGTS 300076 - Demand	In 95 * In 134	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 2,498	\$ 29,980
36	EGTS 300076 - Capacity Reservation	In 96 * In 135	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	2,650	31,796
37	Honeoye - EN 11234 - Demand	In 97 * In 136	9,441	9,441	9,441	9,441	-	-	-	-	-	-	-	37,764
38	Honeoye - EN 11234 - Capacity	In 98 * In 137	-	-	-	-	11,038	11,038	11,038	11,038	11,038	11,038	11,038	88,301
39	National Fuel - 002357 - Demand	In 99 * In 138	18,916	18,916	18,916	18,916	18,916	18,916	18,916	18,916	18,916	18,916	18,916	226,992
40	National Fuel - 002357 - Capacity	In 100 * In 139	37,766	37,766	37,766	37,766	37,766	37,766	37,766	37,766	37,766	37,766	37,766	453,192
41	Tenn Gas Pipeline - 523 - Demand	In 101 * In 140	27,091	27,091	27,091	27,091	27,091	27,091	27,091	27,091	27,091	27,091	27,091	325,091
42	Tenn Gas Pipeline - 523 - Capacity	In 102 * In 141	26,527	26,527	26,527	26,527	26,527	26,527	26,527	26,527	26,527	26,527	26,527	318,320
43	Subtotal Storage Demand Charges		\$ 124,889	\$ 124,889	\$ 124,889	\$ 124,889	\$ 126,485	\$ 126,485	\$ 126,485	\$ 126,485	\$ 126,485	\$ 126,485	\$ 126,485	\$ 1,511,436
44	Capacity Credit Adjustment Factor		-25.09%	-25.09%	-25.09%	-25.09%	-25.09%	-25.09%	-27.49%	-27.49%	-27.49%	-27.49%	-27.49%	
45	Less Transportation Capacity Credit	In 51 * In 53	\$ (31,335)	\$ (31,335)	\$ (31,335)	\$ (31,335)	\$ (31,735)	\$ (31,735)	\$ (34,771)	\$ (34,771)	\$ (34,771)	\$ (34,771)	\$ (34,771)	\$ (397,433)
46	Total Storage Demand Charges	In 51 + In 54	\$ 93,554	\$ 93,554	\$ 93,554	\$ 93,554	\$ 94,750	\$ 94,750	\$ 91,714	\$ 91,714	\$ 91,714	\$ 91,714	\$ 91,714	\$ 1,114,003
47	Total Demand Charges	In 35 + In 51	\$ 1,363,133	\$ 1,362,829	\$ 1,363,860	\$ 1,363,860	\$ 1,364,572	\$ 1,364,572	\$ 1,946,889	\$ 1,946,889	\$ 1,948,941	\$ 1,948,941	\$ 1,948,941	\$ 19,602,372
48	Total Transportation Capacity Credit	In 38 + In 54	\$ (342,010)	\$ (341,934)	\$ (342,193)	\$ (342,193)	\$ (342,371)	\$ (342,371)	\$ (535,200)	\$ (535,200)	\$ (535,764)	\$ (535,764)	\$ (535,764)	\$ (5,192,304)
49	Total Demand Charges less Cap. Cr.	In 58 + In 60	\$ 1,021,123	\$ 1,020,895	\$ 1,021,668	\$ 1,021,668	\$ 1,022,201	\$ 1,022,201	\$ 1,411,689	\$ 1,411,689	\$ 1,413,177	\$ 1,413,177	\$ 1,413,177	\$ 14,410,068

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 2025 Winter Cost of Gas Filing
Demand Costs, Volumes and Rates

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Demand Volumes (Dekatherms)														
Reference	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Total
(a)	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	(n)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	
64	Pipeline Demand													
65	Iroquois Gas Trans Service RTS 470-0	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	48,564
66	Tenn Gas Pipeline 95346 Z5-Z6	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	48,000
67	Tenn Gas Pipeline 2302 Z5-Z6	3,122	3,122	3,122	3,122	3,122	3,122	3,122	3,122	3,122	3,122	3,122	3,122	37,464
68	Tenn Gas Pipeline 8587 Z0-Z6	7,035	7,035	7,035	7,035	7,035	7,035	7,035	7,035	7,035	7,035	7,035	7,035	84,420
69	Tenn Gas Pipeline 8587 Z1-Z6	14,561	14,561	14,561	14,561	14,561	14,561	14,561	14,561	14,561	14,561	14,561	14,561	174,732
70	Tenn Gas Pipeline 8587 Z4-Z6	3,811	3,811	3,811	3,811	3,811	3,811	3,811	3,811	3,811	3,811	3,811	3,811	45,732
71	Tenn Gas Pipeline (Dracut) 42076 Z6-Z6													
72	Tenn Gas Pipeline (Dracut) 358905 Z6-Z6													
73	Tenn Gas Pipeline (Concord Lateral) Z6-Z6													
74	Portland Natural Gas (C2C)													
75	Portland Natural Gas (PXP)													
76	Enbridge Gas M12200 (C2C)	4,092	4,092	4,092	4,092	4,092	4,092	4,092	4,092	4,092	4,092	4,092	4,092	49,104
77	Enbridge Gas M12284 (PXP)	5,069	5,069	5,069	5,069	5,069	5,069	5,069	5,069	5,069	5,069	5,069	5,069	60,828
78	TransCanada Pipeline 41232 (IRO)	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	4,047	48,564
79	TransCanada Pipeline 64195 (PXP)	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	5,009	60,108
80	Tenn Gas Pipeline Z4-Z6 stg 632	15,265	15,265	15,265	15,265	15,265	15,265	15,265	15,265	15,265	15,265	15,265	15,265	183,180
81	Tenn Gas Pipeline Z4-Z6 stg 11234	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	7,082	84,984
82	Tenn Gas Pipeline Z5-Z6 stg 11234	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	1,957	23,484
83	National Fuel FST 2358	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	73,176
84	Subtotal Pipeline Demand Volumes	181,195	181,195	181,195	181,195	181,195	181,195	181,195	181,195	181,195	181,195	181,195	181,195	2,174,340
85														
86	Peaking Demand													
87	Tenn Gas Pipeline (Concord Lateral) Z6-Z6													
88	Demand FLS													
89	Peaking Demand													
90	Subtotal Peaking Demand Volumes													
91														
92	Total Pipeline & Peaking Demand Volumes	In 84 + In 90	181,195	181,195	181,195	181,195	181,195	181,195	185,195	185,195	185,195	185,195	181,195	2,194,340
93														
94	Storage Demand													
95	EGTS 300076 - Demand	934	934	934	934	934	934	934	934	934	934	934	934	11,208
96	EGTS 300076 - Capacity Reservation	102,700	102,700	102,700	102,700	102,700	102,700	102,700	102,700	102,700	102,700	102,700	102,700	1,232,400
97	Honeoye - EN 11234 - Demand	1,362	1,362	1,362	1,362	1,362	1,362	1,362	1,362	1,362	1,362	1,362	1,362	16,344
98	Honeoye - EN 11234 -Capacity	245,280	245,280	245,280	245,280	245,280	245,280	245,280	245,280	245,280	245,280	245,280	245,280	2,943,360
99	National Fuel - 002357 - Demand	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	6,098	73,176
100	National Fuel - 002357 - Capacity	670,800	670,800	670,800	670,800	670,800	670,800	670,800	670,800	670,800	670,800	670,800	670,800	8,049,600
101	Tenn Gas Pipeline - 523 - Demand	21,844	21,844	21,844	21,844	21,844	21,844	21,844	21,844	21,844	21,844	21,844	21,844	262,128
102	Tenn Gas Pipeline - 523 - Capacity	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	1,560,391	18,724,892
103	Total Storage Demand Volumes	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	2,609,409	31,312,908
104														
105	Total Demand Volumes	In 92 + In 103	2,790,604	2,790,604	2,790,604	2,790,604	2,790,604	2,790,604	2,794,604	2,794,604	2,794,604	2,794,604	2,790,604	33,507,248
106														

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 2025 Winter Cost of Gas Filing
Demand Costs, Volumes and Rates

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Firm Transportation Rates (Per Month)														Total
Reference	31 EST May-24	30 EST Jun-24	31 EST Jul-24	31 EST Aug-24	30 EST Sep-24	31 EST Oct-24	30 EST Nov-24	31 EST Dec-24	31 EST Jan-25	28 EST Feb-25	31 EST Mar-25	30 EST Apr-25		Total
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		(n)
107	Pipeline Demand													
108	\$ 4.5655	\$ 4.5655	\$ 4.5655	\$ 4.5655	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918
109	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701
110	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701
111	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039
112	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387
113	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929
114	Tenn Gas Pipeline (Dracut) 42076 Z6-Z6													
115	Tenn Gas Pipeline (Dracut) 358905 Z6-Z6													
116	Tenn Gas Pipeline (Concord Lateral) Z6-Z6													
117	Portland Natural Gas (C2C)													
118	Portland Natural Gas (PXP)													
119	2.9824	2.9743	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017
120	2.9824	2.9743	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017
121	9.1438	9.1191	9.2030	9.2030	9.2030	9.2030	9.2030	9.2030	9.2030	9.7101	9.7101	9.7101	9.7101	9.7101
122	15.2407	15.1995	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394
123	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929
124	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929
125	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701
126	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350
127														
128	Peaking Demand													
129	Tenn Gas Pipeline (Concord Lateral) Z6-Z6													
130	Demand FLS													
131	Peaking Demand													
132														
133	Storage Demand													
134	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749	\$ 2.6749
135	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258	0.0258
136	6.9317	6.9317	6.9317	6.9317	-	-	-	-	-	-	-	-	-	-
137	-	-	-	-	0.0450	0.0450	0.0450	0.0450	0.0450	0.0450	0.0450	0.0450	0.0450	0.0450
138	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020	3.1020
139	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563	0.0563
140	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402	1.2402
141	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170	0.0170

Eastern Gas Transmission and Storage, Inc.
 FERC Gas Tariff
 Sixth Revised Volume No. 1

GSS, GSS-E & ISS Rates
 Tariff Record No. 10.30.
 Version 10.0.0
 Superseding Version 9.0.0

RATES APPLICABLE TO RATE SCHEDULES IN:
 FERC GAS TARIFF, VOLUME NO. 1
 (\$ per DT)

Rate Schedule (1)	Rate Component (2)	Base Tariff Rate [1] (3)	Current Acct 858 Base (4)	Current EPCA Base (5)	TCRA [5] Surcharge (6)	EPCA [6] Surcharge (7)	Current Rate [7] (8)	FERC ACA (9)
GSS [2], [3]								
	Maximum							
	Storage Demand	\$2.6065	\$0.0680	\$0.0059	(\$0.0074)	\$0.0019	\$2.6749	-
	Storage Capacity	\$0.0258	-	-	-	-	\$0.0258	-
	Injection Charge	\$0.0252	-	\$0.0137	\$0.0000	\$0.0004	\$0.0393	-
	Withdrawal Charge	\$0.0252	-	-	\$0.0000	\$0.0004	\$0.0256	[8]
	GSS-TE Surcharge	-	-	-	\$0.0000	-	\$0.0000	-
	From Customers Balance	\$0.7282	\$0.0146	\$0.0013	(\$0.0016)	\$0.0008	\$0.7433	[8]
	Minimum							
	Storage Demand	\$0.0000	-	-	-	-	\$0.0000	-
	Storage Capacity	\$0.0000	-	-	-	-	\$0.0000	-
	Injection Charge	\$0.0252	-	-	-	-	\$0.0252	-
	Withdrawal Charge	\$0.0252	-	-	-	-	\$0.0252	[8]
	GSS-TE Surcharge	\$0.0000	-	-	-	-	\$0.0000	-
	From Customers Balance	\$0.7282	\$0.0146	\$0.0013	(\$0.0016)	\$0.0008	\$0.7433	[8]
GSS-E [2], [3]								
	Maximum							
	Storage Demand	\$2.4565	\$0.0680	\$0.0059	(\$0.0074)	\$0.0019	\$2.5249	-
	Storage Capacity	\$0.0409	-	-	-	-	\$0.0409	-
	Injection Charge	\$0.0252	-	\$0.0137	\$0.0000	\$0.0004	\$0.0393	-
	Withdrawal Charge	\$0.0252	-	-	\$0.0000	\$0.0004	\$0.0256	[8]
	Authorized Overruns	\$1.4160	\$0.0146	\$0.0013	(\$0.0016)	\$0.0008	\$1.4311	[8]
	Minimum							
	Storage Demand	\$0.0000	-	-	-	-	\$0.0000	-
	Storage Capacity	\$0.0000	-	-	-	-	\$0.0000	-
	Injection Charge	\$0.0252	-	-	-	-	\$0.0252	-
	Withdrawal Charge	\$0.0252	-	-	-	-	\$0.0252	[8]
	Authorized Overruns	\$1.4160	\$0.0146	\$0.0013	(\$0.0016)	\$0.0008	\$1.4311	[8]

Eastern Gas Transmission and Storage, Inc.
 FERC Gas Tariff
 Sixth Revised Volume No. 1

GSS, GSS-E & ISS Rates
 Tariff Record No. 10.30.
 Version 10.0.0
 Superseding Version 9.0.0

Rate Schedule	Rate Component	Base Tariff Rate [1]	Current Acct 858 Base	Current EPCA Base	TCRA [5] Surcharge	EPCA [6] Surcharge	Current Rate [7]	FERC ACA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
ISS [2]								
	Maximum							
	ISS Capacity	\$0.1123	\$0.0022	\$0.0002	(\$0.0002)	\$0.0001	\$0.1146	-
	Injection Charge	\$0.0252	-	\$0.0137	\$0.0000	\$0.0004	\$0.0393	-
	Withdrawal Charge	\$0.0252	-	-	\$0.0000	\$0.0004	\$0.0256	[8]
	Authorized Overrun/from Cust. Bal	\$0.7282	\$0.0146	\$0.0013	(\$0.0016)	\$0.0008	\$0.7433	[8]
	Excess Injection Charge	\$0.4209	-	\$0.0137	\$0.0000	\$0.0004	\$0.4350	-
	Minimum							
	ISS Capacity	\$0.0000	-	-	-	-	\$0.0000	-
	Injection Charge	\$0.0252	-	-	-	-	\$0.0252	-
	Withdrawal Charge	\$0.0252	-	-	-	-	\$0.0252	[8]
	Authorized Overrun/from Cust. Bal	\$0.7282	\$0.0146	\$0.0013	(\$0.0016)	\$0.0008	\$0.7433	[8]
	Excess Injection Charge	\$0.4209	-	\$0.0137	\$0.0000	\$0.0004	\$0.4350	-

- [1] The base tariff rate is the effective rate on file with the FERC, excluding adjustments approved by the Commission.
- [2] Storage Service Fuel Retention Percentage is 1.29%.
- [3] Applies to withdrawals made under Rate Schedule GSS, Section 5.1.G.
- [4] Daily Capacity Release Rate for GSS per Dt is \$0.7177. Daily Capacity Release Rate for GSS-E per Dt is \$1.4055.
- [5] 858 over/under from previous TCRA period.
- [6] Electric over/under from previous EPCA period.
- [7] The Current Rate shall be increased for the Annual Charge Adjustment (ACA) as applicable.
- [8] The applicable ACA rate is set forth on the FERC website (<https://www.ferc.gov/industries-data/natural-gas/overview/general-information/annual-charges>).

HONEOYE

View Contract

General Information					
Customer Energy North Natural Gas Inc.	Contract Category Storage	Contract Number EN 49234	Service Type FT	Status Active	Commodity UG
Deal Mgr Richard Norman	Deal Date 01/17/2010	Deal Time 09:58:59	Master Agreement None	Units Dth	
Contact Name Sarah Uram	Contact Number 1 800-2163688	Contact Number 2	Contact Email sarah.uran@libertyutilities.com		

Contract Dates	
Effective Date 06/01/2010	Termination Date 01/01/2025

Nomination Deadlines	
Day Before Flow Deadline (at least 24 hr CCT)	Day of Flow Deadline (at least 24 hr CCT)

Transaction Types and Rates						
Transaction Type	Apply Transaction	Use Hourly Profile	Volumetric Charge (\$/Dth)	Over Rate (\$/Dth)	Fuel Percentage	Invoice Qty Type
Storage Injection	Yes	No	0	0	0	Scr Qty
Storage Withdrawal			0	0	0	Scr Qty
Authorized Injection Overrun			0	0	0	Scr Qty
Authorized Withdrawal Overrun			0	0	0	Scr Qty

INS/WO RATES AND FUELS (0)

Storage and Other Rates			
Use Monthly Flat Storage Fee (\$/Month)	Monthly Flat Storage Fee Table		
	From 06/01/10 To 01/01/15	Rate	DEMAND RATE

FERC Information			
Capacity Release Contract	Yes	No	Award
Shopper Affiliation	NO/AE		Negotiated Rate Indicator
Maximum Tariff Rate	0 OR	Market Based Rates	Rate Schedule 157

Contract Quantity Limits			
Monthly HSQ Table	From 06/01/10 To 01/01/15	Max Qty	Min Qty
		245,280	0

Seasonal Ratchets						
Seasonal Ratchet "Annual" (Jan 01 to Dec 31)						
Total Contract MDIQ Ratchets						
Total Contract						
Inventory Level		MDQ				
From	To	MDQ				
0	245,280	1,160				
Interconnect MDIQ Ratchets						
HSC Tennessee Gas RLJ						
Inventory Level		MDQ	Prio Qty		Prio Priority	
From	To	MDQ	Prio Qty		Prio Priority	
0	245,280	1,160	0		0	
Total Contract MDWQ Ratchets						
Total Contract						
Inventory Level		MDQ				
From	To	MDQ				
0	15,453	899				
15,454	57,150	1,228				
57,151	81,678	1,765				
81,679	245,380	2,044				
Interconnect MDWQ Ratchets						
HSC Tennessee Gas WDL						
Inventory Level		MDQ	Prio Qty		Prio Priority	
From	To	MDQ	Prio Qty		Prio Priority	
0	15,453	899	0		0	
15,454	57,150	1,228	0		0	
57,151	81,678	1,765	0		0	
81,679	245,380	2,044	0		0	

Posted Special Terms and Conditions
 This is an evergreen contract. It will continue to automatically renew unless either party wishes to cancel. If either party does wish to cancel, they will make the cancellation request in writing on or before March 31, one year prior to cancellation.

Attached Files
 There are no files saved for this contract.

Iroquois Gas Transmission System, L.P.
 FERC Gas Tariff
 Second Revised Volume No. 1

Fifth Revised Sheet No. 4
 Superseding
 Fourth Revised Sheet No. 4

----- NON-EASTCHESTER RATES (All in \$ Per Dth) -----

	Minimum	RP19-445 Rates	RP22-1065 Rates		
		Maximum 1/ Effective 4/1/2020	Effective 9/1/2022	Effective 9/1/2023	Effective 9/1/2024
RTS DEMAND (Monthly):					
Zone 1	\$0.0000	\$5.2357	\$4.8393	\$4.5655	\$4.2918
Zone 2	\$0.0000	\$4.4878	\$4.3344	\$4.1823	\$4.0302
Inter-Zone	\$0.0000	\$8.2304	\$7.4217	\$7.2240	\$7.0567
RTS COMMODITY (Daily):					
Zone 1	\$0.0034	\$0.0034	\$0.0034	\$0.0034	\$0.0034
Zone 2	\$0.0022	\$0.0022	\$0.0022	\$0.0022	\$0.0022
Inter-Zone	\$0.0056	\$0.0056	\$0.0056	\$0.0056	\$0.0056
ITS COMMODITY (Daily):					
Zone 1	\$0.0034	\$0.1755	\$0.1625	\$0.1535	\$0.1445
Zone 2	\$0.0022	\$0.1497	\$0.1447	\$0.1397	\$0.1347
Inter-Zone	\$0.0056	\$0.2762	\$0.2496	\$0.2431	\$0.2376
VOLUMETRIC CAPACITY RELEASE (Daily) 2/:					
Zone 1	\$0.0000	\$0.1721	\$0.1591	\$0.1501	\$0.1411
Zone 2	\$0.0000	\$0.1475	\$0.1425	\$0.1375	\$0.1325
Inter-Zone	\$0.0000	\$0.2706	\$0.2440	\$0.2375	\$0.2320

**SEE SHEET NOS. 4A, 4B, AND 4C FOR ADJUSTMENTS TO RATES WHICH MAY BE APPLICABLE

(Footnotes continued on Sheet 4.01)

Issued On: September 9, 2022

Effective On: October 1, 2022

Iroquois Gas Transmission System, L.P.
FERC Gas Tariff
Second Revised Volume No. 1

Fifth Revised Sheet No. 4.01
Superseding
Fourth Revised Sheet No. 4.01

-
- 1/ The RP19-445 Rates that became effective 4/1/2020 shall be applicable to any Contesting Party to the Settlement dated July 27, 2022, pursuant to Section 13.3 of that Settlement.
 - 2/ No rate cap shall apply to any capacity releases with terms of less than or equal to one year pursuant to FERC Order Nos. 712 et al.

Issued On: September 9, 2022

Effective On: October 1, 2022

Dear Shipper:

Please find listed below the relevant business data for transportation on Iroquois during **August 2024**. For your convenience, the link below will take you directly to the Iroquois.com Informational Postings page where you can access the formatted fuel report. After clicking the link, expand the Notices folder, click on the Non-Critical section, Retrieve, and select the August 2024 Fuel Factors notice.

<https://iol.iroquois.com/Infopost/>

Note: Iroquois Fuel and Losses Retention (F & LR) format includes Losses+858+Other Fuel. Please refer to “Total” column for the complete fuel %.

1st of the Month Nomination Due: July 31, 2024, at 1:00PM C.C.T.

Losses/858/Other Fuel Factors:

MAINLINE	Losses+ (%)	858+ (%)	Other Fuel (%)	= Total
Zone 1	-1.0	0.0	0.2	-0.8%
Zone 2	-1.0	0.0	0.3	-0.7%
Zone 1-2	-1.0	0.0	0.5	-0.5%
Backhauls	-1.0	0.0	0.0	-1.0%

EASTCHESTER	Losses+ (%)	Other Fuel (%)	= Total
Zone 1	-1.0	0.2	-0.8%
Zone 2	-1.0	0.3	-0.7%
Zone 1-2	-1.0	0.5	-0.5%
Backhauls	-1.0	0.0	-1.0%

BROOKFIELD RECEIPT TRANSFER FUEL FACTOR: 0.9%
--

One Stop Toll Free Number 1-888-IGTS-REP
 New Contracts 203-925-7229

**& Discounts 203-944-7004
Fax 203-925-1925**

If you have questions or require additional information, please call me at 203-944-7028.
John Esposito, Director, Gas Control, Scheduling and System Operations

National Fuel Gas Supply Corporation
 FERC Gas Tariff
 Fifth Revised Volume No. 1

Part 4 - Applicable Rates
 § 4.010 - Transportation Rates
 Version 43.0.0
 Page 1 of 1

RATES FOR TRANSPORTATION SERVICES

Rate Sch. (1)	Rate Component ^{1/} (2)		Base Rate (3)	TSCA (4)	TSCA Surch. (5)	Current Rate ^{2/} (6)
FT/FT-S						
	Reservation	(Max)	\$6.1350	-	-	\$6.1350
		(Min)	0.0000	-	-	\$0.0000
	Commodity	(Max)	0.0069	-	-	\$0.0069 plus ACA ^{3/}
		(Min)	0.0069	-	-	\$0.0069 plus ACA ^{3/}
	Overrun	(Max)	0.2086	-	-	\$0.2086 plus ACA ^{3/}
		(Min)	0.0069	-	-	\$0.0069 plus ACA ^{3/}
EFT						
	Reservation	(Max)	\$6.9865	0.0000	0.0000	\$6.9865
		(Min)	0.0000	0.0000	0.0000	\$0.0000
	Commodity	(Max)	0.0244	0.0000	0.0000	\$0.0244 plus ACA ^{3/}
		(Min)	0.0244	0.0000	0.0000	\$0.0244 plus ACA ^{3/}
	Overrun	(Max)	0.2541	-	-	\$0.2541 plus ACA ^{3/}
		(Min)	0.0244	-	-	\$0.0244 plus ACA ^{3/}
FST						
	Reservation	(Max)	\$6.1350	-	-	\$6.1350
		(Min)	0.0000	-	-	\$0.0000
	Commodity	(Max)	0.0069	-	-	\$0.0069 plus ACA ^{3/}
		(Min)	0.0069	-	-	\$0.0069 plus ACA ^{3/}
	Overrun	(Max)	0.2086	-	-	\$0.2086 plus ACA ^{3/}
		(Min)	0.0069	-	-	\$0.0069 plus ACA ^{3/}
IT						
	Commodity	(Max)	\$0.2086	-	-	\$0.2086 plus ACA ^{3/}
		(Min)	0.0000	-	-	\$0.0000 plus ACA ^{3/}
	Overrun	(Max)	0.2086	-	-	\$0.2086 plus ACA ^{3/}
		(Min)	0.0000	-	-	\$0.0000 plus ACA ^{3/}

The NA15 Retention is 1.05% applicable to use of the Northern Access 2015 Lease.^{243/}

- 1/ The unit of measure for each rate component is Dth (dekatherms) unless otherwise indicated.
- 2/ All rates exclusive of Transportation Fuel and Company Use Retention and Transportation LAUF Retention. The Transportation Fuel and Company Use Retention for all applicable rate schedules is 0.78% and the Transportation LAUF Retention for all applicable rate schedules is 0.31%. Transporter may from time to time identify point pair transactions where the Transportation Fuel and Company Use Retention shall be zero ("Zero Fuel Point Pair Transactions"). Zero Fuel Point Pair Transactions will be assessed the applicable Transportation LAUF Retention.
- 3/ Pursuant to Section 19 of the General Terms and Conditions, the ACA unit charge, as revised annually and posted on the Commission's website, will be charged in addition to the specified rate.
- 4/ Transportation and Storage Retainage definitions are provided in General Terms and Conditions Section 41.2.

Effective On: April 1, 2024

National Fuel Gas Supply Corporation
 FERC Gas Tariff
 Fifth Revised Volume No. 1

Part 4 - Applicable Rates
 § 4.020 - Part 284 Storage Rates
 Version 37.0.0
 Page 1 of 1

RATES FOR PART 284 STORAGE SERVICES

Rate Sch. (1)	Rate Component ^{1/} (2)		Rate ^{2/} (3)
ESS	Demand	(Max)	\$3.2263
		(Min)	\$0.0000
	Capacity	(Max)	\$0.0589
		(Min)	\$0.0000
	Injection/Withdrawal	(Max)	\$0.0396 plus ACA ^{3/}
		(Min)	\$0.0000
Storage Balance Transfer	(Max) ^{4/}	\$3.8600	
	(Min) ^{4/}	\$0.0000	
ISS	Injection	(Max)	\$1.3514 plus ACA ^{3/}
		(Min)	\$0.0000
	Storage Balance Transfer	(Max) ^{4/}	\$3.8600
		(Min) ^{4/}	\$0.0000
FSS	Demand	(Max)	\$3.1020
		(Min)	\$0.0000
	Capacity	(Max)	\$0.0563 ^{1/}
		(Min)	\$0.0000
	Injection/Withdrawal	(Max)	\$0.0381 plus ACA ^{3/}
		(Min)	\$0.0000
Storage Balance Transfer	(Max) ^{4/}	\$3.8600	
	(Min) ^{4/}	\$0.0000	

1/ The unit of measure for each rate component is Dth unless otherwise indicated.
 2/ All rates exclusive of Storage Operating and LAUF Retention, where applicable. The Storage Operating and LAUF Retention for all applicable rate schedules is 0.84%.
 3/ Pursuant to Section 19 of the General Terms and Conditions, the ACA unit charge, as revised annually and posted on the Commission's website, will be charged in addition to the specified rate.
 4/ Rate per nomination.

Effective On: April 1, 2024

TransCanada Pipelines Limited
 Mainline Tolls - effective January 1, 2022 to December 31, 2026 (CER Order TG-014-2020)
 Abandonment Surcharges - effective January 1, 2024 (CER Order TG-007-2023)
 Rate Riders - effective January 1, 2024 to December 31, 2024 (CER Order TG-006-2023)

Storage Transportation Service

Line No.	Particulars (a)	Monthly Toll (\$/GJ/Month) (b)	Daily Equivalent (\$/GJ) (c)	Abandonment Surcharge (\$/GJ/Month) (d)	Daily Equivalent Abandonment Surcharge (\$/GJ) (e)	Rate Rider (\$/GJ/Month) (f)	Daily Equivalent Rate Rider (\$/GJ) (g)
1	Centram MDA	4.1488	0.1364	0.21045	0.0069	-1.16815	-0.0383
2	Union WDA	23.6922	0.7855	1.70800	0.0560	-4.45300	-0.1460
3	Union NDA	13.8006	0.4537	0.57340	0.0188	-1.64090	-0.0538
4	Union EDA	9.0255	0.2966	0.37820	0.0124	-0.51850	-0.0170
5	KPUC EDA	3.5725	0.2940	0.37515	0.0123	-0.51240	-0.0168
6	Energir EDA	15.6372	0.5141	0.75640	0.0248	-0.89365	-0.0293
7	Enbridge CDA	8.5246	0.1499	0.12200	0.0040	-0.26230	-0.0086
8	Enbridge EDA	0.2067	0.3952	0.54900	0.0180	-0.68930	-0.0226
9	Corwall	2.21838	0.4017	0.56120	0.0184	-0.69845	-0.0229

Firm Transportation - Short Notice

Line No.	Particulars (a)	Monthly Toll (\$/GJ/Month) (b)	Daily Equivalent (\$/GJ) (c)	Abandonment Surcharge (\$/GJ/Month) (d)	Daily Equivalent Abandonment Surcharge (\$/GJ) (e)	Rate Rider (\$/GJ/Month) (f)	Daily Equivalent Rate Rider (\$/GJ) (g)
10	Kirkwall to Thorold CDA	5.28946	0.1739	0.13725	0.0045	-0.27755	-0.0091
11	Union Parkway Belt to Goreway CDA	3.82946	0.1259	0.06100	0.0020	-0.20130	-0.0066
12	Union Parkway Belt to Victoria Square #2 CDA	4.59900	0.1512	0.10065	0.0033	-0.24095	-0.0079
13	Union Parkway Belt to Schomberg #2 CDA	4.54729	0.1495	0.09760	0.0032	-0.23790	-0.0078
14	Union Parkway Belt to Napanee #2 EDA	9.17063	0.3015	0.33855	0.0111	-0.47885	-0.0157

Dawn Long Term Fixed Price

Line No.	Particulars (a)	Monthly Toll (\$/GJ/Month) (b)	Daily Equivalent (\$/GJ) (c)
15	For All Dawn LTFP Contract Demand except any portion subject to a reduced term for the final 24 months of such reduced term	23.42083	0.7700
16	Any portion of Contract Demand reduced in term by 12 months for months 85 through 108	26.46250	0.8700
17	Any portion of Contract Demand reduced in term by 24 months for months 73 through 96	28.89583	0.9500
18	Any portion of Contract Demand reduced in term by 36 months for months 61 through 84	30.41667	1.0000
19	Any portion of Contract Demand reduced in term by 48 months for months 49 through 72	31.63333	1.0400
20	Any portion of Contract Demand reduced in term by 60 months for months 37 through 60	31.93750	1.0500

Notes: The tolls are inclusive of Delivery Pressure Toll and Abandonment Surcharge.
 The Abandonment Surcharges are the same as the Empress to Emerson 2 Abandonment Surcharges for FT service.

Herbert Long Term Fixed Price

Line No.	Particulars (a)	Monthly Toll (\$/GJ/Month) (b)	Daily Equivalent (\$/GJ) (c)	Abandonment Surcharge (\$/GJ/Month) (d)	Daily Equivalent Abandonment Surcharge (\$/GJ) (e)
21	Empress to Herbert	3.65000	0.1200	0.24705	0.0081

North Bay Junction Long Term Fixed Price (NBJ LTFF) Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
1	NBJ LTFF	28.28750	0.9300
2	NBJ LTFF Differential Surcharge	0.00000	0.0000

Note: The toll for NBJ LTFF is inclusive of the applicable Abandonment Surcharge for FT service from Empress to North Bay Junction.
 The NBJ LTFF Differential Surcharge is zero provided the Abandonment Surcharge for FT service from Empress to North Bay Junction is equal or less than \$6.69167/GJ/Month.

Market Driven Service (MDS)

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
3	Empress to Emerson 2 (May 2021 Open Season) (Effective November 1, 2022)	10.53938	0.3465	1.18950	0.0390

Enhanced Market Balancing Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)	Rate Rider (\$/GJ/Month)	Daily Equivalent Rate Rider (\$/GJ)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
4	Union Parkway Belt to Union EDA	9.92374	0.3262	0.37820	0.0124	-0.51850	-0.0170

Delivery Pressure

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
5	Average Delivery Pressure Toll	0.60833	0.0200

Note: Delivery Pressure toll applies to the following locations: Emerson 1, Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.
 The Daily Equivalent Toll is only applicable to STS injections, IT, Diversions and STFT.

Union Dawn Receipt Point Surcharge

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
6	Union Dawn Receipt Point Surcharge	0.13135	0.0043

Short Notice Balancing (SNB) Service

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
7	SNB Toll	2.97597	0.0978

Note: This SNB Toll is a representative toll for the Eastern Region.

Energy Deficient Gas Allowance (EDGA) Service

Line No.	Particulars	Capacity Charge (\$/GJ/D)
	(a)	(b)
8	Western Section	0.3388
9	Eastern Section	0.3302

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll.
 The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)	Rate Rider (\$/GJ/Month)	Daily Equivalent Rate Rider (\$/GJ)
1	Union NDA	Enbridge EDA	-	0.4769	-	0.0202	-	-
2	Union NDA	KPUC EDA	-	0.5748	-	0.0258	-	-
3	Union NDA	Energir EDA	-	0.6348	-	0.0292	-	-
4	Union NDA	Enbridge SWDA	-	0.6014	-	0.0273	-	-
5	Union NDA	Union SWDA	-	0.6029	-	0.0274	-	-
6	Union NDA	Chippawa	-	0.5417	-	0.0239	-	-
7	Union NDA	Cornwall	-	0.5224	-	0.0228	-	-
8	Union NDA	East Hereford	-	0.7544	-	0.0360	-	-
9	Union NDA	Emerson 1	-	0.6135	-	0.0604	-	-
10	Union NDA	Emerson 2	-	0.6135	-	0.0604	-	-
11	Union NDA	Iroquois	-	0.5008	-	0.0215	-	-
12	Union NDA	Kirkwall	-	0.4785	-	0.0203	-	-
13	Union NDA	Napierville	-	0.6225	-	0.0285	-	-
14	Union NDA	Niagara Falls	-	0.5401	-	0.0238	-	-
15	Union NDA	North Bay Junction	-	0.1241	-	0.0055	-	-
16	Union NDA	Phillipsburg	-	0.6339	-	0.0291	-	-
17	Union NDA	Spruce	-	0.5665	-	0.0551	-	-
18	Union NDA	St. Clair	-	0.6170	-	0.0282	-	-
19	Union NDA	Welwyn	-	0.6959	-	0.0697	-	-
20	Union NDA	Dawn Export	-	0.6014	-	0.0273	-	-
21	Union Parkway Belt	Empress	36.52433	1.2008	3.24825	0.1065	8.45460	-0.2772
22	Union Parkway Belt	TransGas SSDA	32.93821	1.0829	2.84565	0.0933	7.45420	-0.2444
23	Union Parkway Belt	Centram SSDA	30.35988	0.9981	2.55590	0.0838	6.73440	-0.2208
24	Union Parkway Belt	Centram MDA	27.81908	0.9146	2.26920	0.0744	6.02680	-0.1976
25	Union Parkway Belt	Central MDA	28.49738	0.9369	2.22650	0.0730	5.73705	-0.1881
26	Union Parkway Belt	Union WDA	23.89229	0.7855	1.70800	0.0560	4.45300	-0.1460
27	Union Parkway Belt	Nipigon WDA	21.91217	0.7204	1.48535	0.0487	3.89790	-0.1278
28	Union Parkway Belt	Union NDA	13.80004	0.4537	0.57340	0.0188	-1.64090	-0.0538
29	Union Parkway Belt	Calstock NDA	18.57850	0.6108	1.11020	0.0364	2.97070	-0.0974
30	Union Parkway Belt	Tunis NDA	15.96354	0.5245	0.81740	0.0268	2.23665	-0.0733
31	Union Parkway Belt	Energir NDA	13.73008	0.4514	0.56730	0.0186	-1.61650	-0.0530
32	Union Parkway Belt	Union SSMDA	16.31854	0.5365	0.97600	0.0320	2.81820	-0.0924
33	Union Parkway Belt	Union NCDA	6.64604	0.2185	0.24400	0.0080	0.38125	-0.0125
34	Union Parkway Belt	Union CDA	4.16100	0.1368	0.10065	0.0033	-0.24095	-0.0079
35	Union Parkway Belt	Union ECDA	3.47358	0.1142	0.06100	0.0020	-0.20130	-0.0066
36	Union Parkway Belt	Union EDA	9.02158	0.2966	0.37820	0.0124	0.51850	-0.0170
37	Union Parkway Belt	Union Parkway Belt	2.92000	0.0960	0.03060	0.0010	-0.17080	-0.0056
38	Union Parkway Belt	Enbridge CDA	4.55946	0.1499	0.12200	0.0040	-0.26230	-0.0086
39	Union Parkway Belt	Enbridge Parkway CDA	2.92000	0.0960	0.03060	0.0010	-0.17080	-0.0056
40	Union Parkway Belt	Enbridge EDA	12.02067	0.3952	0.54900	0.0180	0.68930	-0.0226
41	Union Parkway Belt	KPUC EDA	8.94250	0.2940	0.37515	0.0123	0.51240	-0.0168
42	Union Parkway Belt	Energir EDA	15.63721	0.5141	0.75640	0.0248	0.89365	-0.0293
43	Union Parkway Belt	Enbridge SWDA	7.41558	0.2438	0.28670	0.0094	-0.42700	-0.0140
44	Union Parkway Belt	Union SWDA	7.45817	0.2452	0.28975	0.0095	-0.43005	-0.0141
45	Union Parkway Belt	Chippawa	5.59667	0.1840	0.18300	0.0060	-0.32330	-0.0106
46	Union Parkway Belt	Cornwall	12.21838	0.4017	0.56120	0.0184	-0.69845	-0.0229
47	Union Parkway Belt	East Hereford	19.27504	0.6337	0.96380	0.0316	-1.10105	-0.0361
48	Union Parkway Belt	Emerson 1	26.21004	0.8617	2.08925	0.0685	5.57845	-0.1829
49	Union Parkway Belt	Emerson 2	26.21004	0.8617	2.08925	0.0685	5.57845	-0.1829
50	Union Parkway Belt	Iroquois	11.37888	0.3741	0.51240	0.0168	-0.65270	-0.0214
51	Union Parkway Belt	Kirkwall	3.67738	0.1209	0.07320	0.0024	-0.21350	-0.0070
52	Union Parkway Belt	Napierville	15.26004	0.5017	0.73905	0.0241	-0.87230	-0.0286
53	Union Parkway Belt	Niagara Falls	5.55104	0.1825	0.17995	0.0059	-0.32025	-0.0105
54	Union Parkway Belt	North Bay Junction	10.04359	0.3302	0.43615	0.0143	-0.57645	-0.0189
55	Union Parkway Belt	Phillipsburg	15.60679	0.5131	0.75640	0.0248	-0.89365	-0.0293
56	Union Parkway Belt	Spruce	28.49738	0.9369	2.22650	0.0730	5.73705	-0.1881
57	Union Parkway Belt	St. Clair	7.88704	0.2593	0.31415	0.0103	-0.45445	-0.0149
58	Union Parkway Belt	Welwyn	30.35988	0.9981	2.55590	0.0838	6.73440	-0.2208
59	Union Parkway Belt	Dawn Export	7.41558	0.2438	0.28670	0.0094	-0.42700	-0.0140

Forecast for 2024 Summer Fuel Ratios

NOTE: The following is a forecast range of fuel ratios expected for the period of April 1, 2024 to October 31, 2024 based on current information. Actual fuel ratios will be posted on a monthly basis and may fall outside of this range.

Particulars (a)	Range	
	Low (b)	High (c)
1 Empress to Centram MDA	0.8%	1.5%
2 Empress to Centram SSDA	0.6%	1.1%
3 Empress to Centrat MDA	1.0%	1.8%
4 Empress to Herbert Delivery	0.2%	0.3%
5 Empress to Cornwall	3.0%	5.3%
6 Empress to Emerson 1	1.0%	1.8%
7 Empress to Emerson 2	1.0%	1.8%
8 Empress to Enbridge CDA	2.8%	5.1%
9 Empress to Enbridge EDA	2.9%	5.2%
10 Empress to Energir EDA	3.1%	5.6%
11 Empress to Energir NDA	2.4%	4.4%
12 Empress to Iroquois	2.9%	5.3%
13 Empress to KPUC EDA	3.0%	5.5%
14 Empress to Napierville	3.1%	5.6%
15 Empress to Spruce	1.0%	1.8%
16 Empress to Transgas SSDA	0.3%	0.6%
17 Empress to TPLP NDA	1.9%	3.5%
18 Empress to North Bay Junction	2.5%	4.5%
19 Empress to Union EDA	3.0%	5.3%
20 Empress to Union ECDA	2.8%	5.0%
21 Empress to Union NCDA	2.7%	4.8%
22 Empress to Union NDA	2.4%	4.3%
23 Empress to Union SSMDA	2.1%	3.8%
24 Empress to Union SWDA	2.5%	4.6%
25 Empress to Union WDA	1.5%	2.6%
26 Empress to Welwyn	0.6%	1.1%
27 Union Dawn to East Hereford	1.0%	1.8%
28 Union Dawn to Enbridge CDA	0.3%	0.5%
29 Union Dawn to Enbridge EDA	0.7%	1.2%
30 Union Dawn to Energir EDA	0.8%	1.5%
31 Union Dawn to Iroquois	0.6%	1.1%
32 Union Dawn to Union EDA	0.5%	0.9%
33 Union Dawn to Union ECDA	0.2%	0.4%
34 Union Dawn to Union Parkway Belt	0.2%	0.4%
35 Union Parkway Belt to Cornwall	0.5%	0.8%
36 Union Parkway Belt to Enbridge CDA	0.1%	0.1%
37 Union Parkway Belt to Enbridge EDA	0.4%	0.8%
38 Union Parkway Belt to Energir NDA	0.5%	0.8%
39 Union Parkway Belt to Energir EDA	0.6%	1.1%
40 Union Parkway Belt to Goreway CDA	0.0%	0.0%
41 Union Parkway Belt to Iroquois	0.4%	0.7%
42 Union Parkway Belt to KPUC EDA	0.3%	0.5%
43 Union Parkway Belt to Philipsburg	0.6%	1.1%
44 Union Parkway Belt to Schomberg #2 CDA	0.1%	0.1%
45 Union Parkway Belt to Union EDA	0.3%	0.5%
46 Union Parkway Belt to Union NCDA	0.2%	0.3%
47 Union Parkway Belt to Union NDA	0.5%	0.8%
48 Union Parkway Belt to Victoria Square #2 CDA	0.1%	0.1%
49 Union Parkway Belt to Napanee #2 EDA	0.3%	0.5%
50 Union Parkway Belt to East Hereford	0.8%	1.4%

Particulars (a)	Range	
	Low (b)	High (c)
51 Kirkwall to Chippawa	0.1%	0.2%
52 Kirkwall to Thorold CDA	0.1%	0.2%
53 Kirkwall to Union CDA	0.0%	0.0%
54 Niagara Falls to Enbridge CDA	0.2%	0.3%
55 Niagara Falls to Enbridge Parkway CDA	0.1%	0.2%
56 Niagara Falls to Energir EDA	0.8%	1.4%
57 Niagara Falls to Kirkwall	0.1%	0.2%
58 Niagara Falls to KPUC EDA	0.4%	0.8%
59 Niagara Falls to Union Parkway Belt	0.1%	0.2%
60 St. Clair to Chippawa	0.3%	0.6%
61 St. Clair to Union SWDA	0.0%	0.0%
62 North Bay Junction to Iroquois	0.4%	0.8%
63 North Bay Junction to Enbridge CDA	0.3%	0.6%
64 North Bay Junction to Enbridge EDA	0.4%	0.7%
65 North Bay Junction to Energir EDA	0.6%	1.1%
66 North Bay Junction to Energir NDA	0.1%	0.2%
67 North Bay Junction to Union NDA	0.1%	0.2%
68 North Bay Junction to KPUC EDA	0.5%	1.0%
69 North Bay Junction to Cornwall	0.5%	0.8%
70 North Bay Junction to East Hereford	0.8%	1.4%
71 Chippawa to Enbridge Parkway CDA	0.1%	0.2%
72 Lachenaie to Iroquois	0.2%	0.3%
73 Iroquois to Energir EDA	0.2%	0.4%
74 Iroquois to Cornwall	0.1%	0.1%
75 Iroquois to Napierville	0.2%	0.4%
76 Iroquois to KPUC EDA	0.1%	0.2%
77 SS. Marie to Union SSMDA	0.0%	0.0%
78 Ste. Genevieve to Iroquois	0.2%	0.4%
79 Ste. Genevieve to Enbridge EDA	0.3%	0.6%
80 Welwyn to Centram MDA	0.2%	0.4%
81 Emerson 2 to Centram MDA	0.2%	0.3%
82 Union WDA to Union Parkway Belt	1.4%	2.6%
83 Union NDA to Union Parkway Belt	0.5%	0.8%
84 Centram MDA to Emerson 2	0.2%	0.3%

Delivery Pressure Fuel Ratio ⁽¹⁾

0.20%

⁽¹⁾ Applicable to deliveries at Emerson 1, Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.

Service Type	Receipt Location	Delivery Location	From Gas Day	To Gas Day	Combined Ratio
FH	Union Parkway Belt	East Hereford	8/1/2024	8/31/2024	1.69
FH	Union Parkway Belt	Iroquois	8/1/2024	8/31/2024	0.99

Tennessee Gas Pipeline Company, L.L.C.
 FERC NGA Gas Tariff
 Sixth Revised Volume No. 1

Twenty Third Revised Sheet No. 14
 Superseding
 Twenty Second Revised Sheet No. 14

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES
 RATE SCHEDULE FOR FT-A

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Base Reservation Rates	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$4.6004		\$9.6134	\$12.9313	\$13.1602	\$14.4604	\$15.3491	\$19.2577
	L		\$4.0841						
	1	\$6.9255		\$6.6386	\$8.8346	\$12.5152	\$12.3255	\$13.9003	\$17.0925
	2	\$12.9314		\$8.7816	\$4.5673	\$4.2696	\$5.4631	\$7.5139	\$9.6995
	3	\$13.1602		\$6.9558	\$4.6042	\$3.3216	\$5.1023	\$9.2279	\$10.6631
	4	\$16.7090		\$15.4042	\$5.8703	\$8.9212	\$4.3669	\$4.7226	\$6.7467
	5	\$19.9231		\$13.9996	\$6.1579	\$7.4511	\$4.8511	\$4.5504	\$5.9239
	6	\$23.0472		\$16.0796	\$11.0666	\$12.1915	\$8.6116	\$4.5303	\$3.9217

Daily Base Reservation Rate 1/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.1512		\$0.3161	\$0.4251	\$0.4327	\$0.4754	\$0.5046	\$0.6331
	L		\$0.1343						
	1	\$0.2277		\$0.2183	\$0.2905	\$0.4115	\$0.4052	\$0.4570	\$0.5619
	2	\$0.4251		\$0.2887	\$0.1502	\$0.1404	\$0.1796	\$0.2470	\$0.3189
	3	\$0.4327		\$0.2287	\$0.1514	\$0.1092	\$0.1677	\$0.3034	\$0.3506
	4	\$0.5493		\$0.5064	\$0.1930	\$0.2933	\$0.1436	\$0.1553	\$0.2218
	5	\$0.6550		\$0.4603	\$0.2025	\$0.2450	\$0.1595	\$0.1496	\$0.1948
	6	\$0.7577		\$0.5286	\$0.3638	\$0.4008	\$0.2831	\$0.1489	\$0.1289

Maximum Reservation Rates 2 /, 3 /	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$4.6466		\$9.6596	\$12.9775	\$13.2064	\$14.5066	\$15.3953	\$19.3039
	L		\$4.1303						
	1	\$6.9717		\$6.6848	\$8.8808	\$12.5614	\$12.3717	\$13.9465	\$17.1387
	2	\$12.9776		\$8.8278	\$4.6135	\$4.3158	\$5.5093	\$7.5601	\$9.7457
	3	\$13.2064		\$7.0020	\$4.6504	\$3.3678	\$5.1485	\$9.2741	\$10.7093
	4	\$16.7552		\$15.4504	\$5.9165	\$8.9674	\$4.4131	\$4.7688	\$6.7929
	5	\$19.9693		\$14.0458	\$6.2041	\$7.4973	\$4.8973	\$4.5966	\$5.9701
	6	\$23.0934		\$16.1258	\$11.1128	\$12.2377	\$8.6578	\$4.5765	\$3.9679

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.0000.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0462.

Issued: January 23, 2024
 Effective: January 1, 2024

Docket No. RP24-333-000
 Accepted: February 21, 2024

Tennessee Gas Pipeline Company, L.L.C.
 FERC NGA Gas Tariff
 Sixth Revised Volume No. 1

Twenty Fifth Revised Sheet No. 15
 Superseding
 Twenty Fourth Revised Sheet No. 15

RATES PER DEKATHERM

COMMODITY RATES
 RATE SCHEDULE FOR FT-A

Base
 Commodity Rates

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2215	\$0.2114	\$0.2516
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.1884	\$0.1921	\$0.2193
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0610	\$0.0977	\$0.1083
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0814	\$0.1127	\$0.1231
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0377	\$0.0533	\$0.0863
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0530	\$0.0525	\$0.0653
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0816	\$0.0443	\$0.0269

Minimum
 Commodity Rates 1/, 2/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Maximum
 Commodity Rates 1/, 2/, 3/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0051		\$0.0134	\$0.0196	\$0.0238	\$0.2234	\$0.2133	\$0.2535
L		\$0.0031						
1	\$0.0061		\$0.0100	\$0.0166	\$0.0198	\$0.1903	\$0.1940	\$0.2212
2	\$0.0186		\$0.0106	\$0.0031	\$0.0047	\$0.0629	\$0.0996	\$0.1102
3	\$0.0226		\$0.0188	\$0.0045	\$0.0021	\$0.0833	\$0.1146	\$0.1250
4	\$0.0269		\$0.0224	\$0.0106	\$0.0124	\$0.0396	\$0.0552	\$0.0882
5	\$0.0303		\$0.0275	\$0.0119	\$0.0137	\$0.0549	\$0.0544	\$0.0672
6	\$0.0365		\$0.0319	\$0.0162	\$0.0182	\$0.0835	\$0.0462	\$0.0288

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0019.

Issued: January 23, 2024
 Effective: January 1, 2024

Docket No. RP24-333-000
 Accepted: February 21, 2024

Tennessee Gas Pipeline Company, L.L.C.
 FERC NGA Gas Tariff
 Sixth Revised Volume No. 1

Twenty First Revised Sheet No. 32
 Superseding
 Substitute Twentieth Revised Sheet No. 32

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/ -----	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	0.36%		1.21%	1.84%	2.31%	2.70%	3.15%	3.63%
	L		0.16%						
	1	0.47%		0.87%	1.54%	1.86%	2.28%	2.77%	3.16%
	2	1.87%		0.93%	0.15%	0.33%	0.64%	1.13%	1.53%
	3	2.31%		1.86%	0.33%	0.06%	0.91%	1.32%	1.76%
	4	2.70%		2.12%	0.93%	1.11%	0.34%	0.54%	0.97%
	5	3.15%		2.85%	1.13%	1.33%	0.54%	0.53%	0.69%
	6	3.76%		3.26%	1.53%	1.76%	0.91%	0.42%	0.19%

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ 5.85%

EPCR 3/, 4/ -----	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.0021		\$0.0082	\$0.0128	\$0.0159	\$0.0192	\$0.0218	\$0.0262
	L		\$0.0007						
	1	\$0.0029		\$0.0058	\$0.0106	\$0.0129	\$0.0161	\$0.0197	\$0.0226
	2	\$0.0128		\$0.0062	\$0.0007	\$0.0019	\$0.0042	\$0.0076	\$0.0104
	3	\$0.0159		\$0.0129	\$0.0019	\$0.0000	\$0.0061	\$0.0090	\$0.0120
	4	\$0.0192		\$0.0148	\$0.0062	\$0.0075	\$0.0020	\$0.0034	\$0.0065
	5	\$0.0218		\$0.0197	\$0.0076	\$0.0090	\$0.0034	\$0.0034	\$0.0045
	6	\$0.0262		\$0.0226	\$0.0104	\$0.0120	\$0.0060	\$0.0025	\$0.0009

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ \$0.0304

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.03%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.03%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, IT, and to the transportation component of FT-PS.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 5/ The incremental F&LR and EPCR set forth above are applicable to a Shipper(s) utilizing capacity on the Broad Run Expansion Project – Market Component facilities, from any receipt point(s) to any delivery point(s) located on the project's transportation path. Any service provided to a Shipper(s) outside the project's transportation path shall be subject to the greater of the incremental F&LR and EPCR for the project or the applicable F&LR and EPCR for the applicable receipt(s) and delivery point(s) as shown in the rate matrices above. Included in the above F&LR is the Losses component of the F&LR equal to 0.03%.

Issued: February 29, 2024
 Effective: April 1, 2024

Docket No. RP24-453-000
 Accepted: March 28, 2024

Portland Natural Gas Transmission System
 FERC Gas Tariff
 Third Revised Volume No. 1

PART 4.1
 Part 4.1- Stmtnt of Rates
 Recourse Reservation and Usage Rates
 v.8.0.0 Superseding v.7.0.0

Statement of Transportation Rates
 (Rates per DTH)

Rate Schedule	Rate Component	Base Rate	ACA Unit Charge 1/
FT	Recourse Reservation Rate		
	-- Maximum	\$25.9843	-----
	-- Minimum	\$00.0000	-----
	Seasonal Recourse Reservation Rate		
	-- Maximum	\$49.3701	-----
	-- Minimum	\$00.0000	-----
	Recourse Usage Rate		
	-- Maximum	\$00.0000	2/
	-- Minimum	\$00.0000	2/
	-- PXP Project	\$00.0091	
FT-FLEX	Recourse Reservation Rate		
	--Maximum	\$17.4406	-----
	--Minimum	\$00.0000	-----
	Recourse Usage Rate		
	--Maximum	\$00.2809	2/
	--Minimum	\$00.0000	2/

The following adjustment applies to all Rate Schedules above:

MEASUREMENT VARIANCE FACTOR-LAUF:

Minimum down to -1.00%
 Maximum up to +1.00%

MEASUREMENT VARIANCE FACTOR-FUEL 3/

1/ ACA assessed where applicable under Section 154.402 of the Commission's regulations and will be charged pursuant to Section 6.18 of the General Terms and Conditions at such time that initial and successive ACA assessments are made.

2/ The currently effective ACA unit charge as published on the Commission's website (www.ferc.gov) is incorporated herein by reference.

Issued: September 17, 2021
 Effective: November 1, 2021

Docket No. RP21-1126-000
 Accepted: October 12, 2021

TSP Name	Portland Natural Gas Transmission System	TSP	159747872	Date	Time	
Notice ID	25908808	Notice Type Description:	Other	Post	07/19/24	11:52:31 AM
		Notice Stat Desc:	Initiate	Notice Effective	07/19/24	12:00:00 AM
		Prior Notice:		Notice End	10/19/24	12:00:00 AM
		Critical:	N			
		Reqrd Rsp Desc:	No Response Required	Response		

Subject: August 2024 Measurement Variance

Author: Gary White

Notice Text

Portland Natural Gas Transmission System ("PNGTS") hereby notifies shippers of the August 2024 Measurement Variance.

The Measurement Variance factor- LAUF for all Shippers for the month of August 2024 is 0.00%.

As a reminder, all PXP FT contracts with primary rights on the Joint Facilities will also incur Measurement Variance factor- FUEL. For the month of August 2024, this factor is 0.00%.

WXP Phase II, WXP Phase III contracts will also incur Measurement Variance factor - FUEL. For the month of August 2024, this factor is 0.00%.

Customers are encouraged to reach out to their Customer Services Representative with any questions.

RIDER: J	CARBON CHARGES
-----------------	-----------------------

	Federal Carbon Charge (if applicable) <u>¢/m³</u>	Facility Carbon Charge <u>¢/m³</u>
Union Rate Zones		
Union North Rate Class		
Rate 01	15.2500	0.0143
Rate 10	15.2500	0.0143
Rate 20	15.2500	0.0143
Rate 25	15.2500	0.0143
Rate 100	15.2500	0.0143
 Union South Rate Class		
Rate M1	15.2500	0.0143
Rate M2	15.2500	0.0143
Rate M4	15.2500	0.0143
Rate M5	15.2500	0.0143
Rate M7	15.2500	0.0143
Rate M9	15.2500	0.0143
Rate T1	15.2500	0.0143
Rate T2	15.2500	0.0143
Rate T3	15.2500	0.0143
	<u>\$/GJ</u>	<u>\$/GJ</u>
Rate M12	0.0000	0.004
Rate M13	0.0000	0.004
Rate M16	0.0000	0.004
Rate M17	0.0000	0.004
Rate C1	0.0000	0.004

Effective July 1, 2024
Implemented July 1, 2024
OEB Order EB-2024-0166

Supersedes EB-2022-0200 Rate Schedule effective May 1, 2024.

RATE: **M12** **SCHEDULE B - MONTHLY TRANSPORTATION FUEL RATIOS**

FIRM OR INTERRUPTIBLE TRANSPORTATION COMMODITY

Month	Dawn to Parkway	Dawn to Kirkwall	Kirkwall to Parkway	M12-X Westerly	
	Fuel Ratio (%)	Fuel Ratio (%)	Fuel Ratio (%)	Parkway to Kirkwall, Dawn Fuel Ratio (%)	Kirkwall to Dawn Fuel Ratio (%)
January	1.303	0.996	0.518	0.211	0.211
February	1.240	0.941	0.510	0.211	0.211
March	1.160	0.846	0.525	0.211	0.211
April	0.991	0.634	0.568	0.364	0.211
May	0.715	0.444	0.483	0.364	0.211
June	0.604	0.338	0.477	0.364	0.211
July	0.588	0.324	0.475	0.364	0.211
August	0.475	0.212	0.475	0.364	0.211
September	0.472	0.212	0.471	0.364	0.211
October	0.853	0.542	0.522	0.364	0.211
November	1.009	0.718	0.502	0.211	0.211
December	1.137	0.845	0.503	0.211	0.211

cell Nb Union TC PNGS AHA kWh 12284
 (carries over to 1RO AHA kWh) kWh 12200

FIRM OR INTERRUPTIBLE TRANSPORTATION COMMODITY
 AUTHORIZED OVERRUN FUEL RATIOS AND FUEL RATES

Month	Dawn to Parkway	Dawn to Kirkwall	Kirkwall to Parkway	M12-X Westerly	
	Fuel Ratio (%)	Fuel Ratio (%)	Fuel Ratio (%)	Parkway to Kirkwall, Dawn Fuel Ratio (%)	Kirkwall to Dawn Fuel Ratio (%)
January	1.903	1.596	1.118	0.811	0.811
February	1.840	1.541	1.110	0.811	0.811
March	1.760	1.446	1.125	0.811	0.811
April	1.591	1.234	1.168	0.964	0.811
May	1.316	1.044	1.083	0.964	0.811
June	1.204	0.938	1.077	0.964	0.811
July	1.188	0.924	1.075	0.964	0.811
August	1.076	0.812	1.075	0.964	0.811
September	1.072	0.812	1.071	0.964	0.811
October	1.453	1.142	1.122	0.964	0.811
November	1.609	1.318	1.102	0.811	0.811
December	1.737	1.445	1.103	0.811	0.811

Effective May 1, 2024
 Implemented May 1, 2024 *BUT FUEL CHANGES MONTHLY*
 OEB Order EB-2022-0200

Supersedes EB-2024-0093 Rate Schedule effective April 1, 2024.

UNION (ENBRIDGE)

RATE: M12	TRANSPORTATION SERVICE
------------------	-------------------------------

APPLICABILITY

To any Customer who enters into an agreement with the Company pursuant to the Rate M12 Tariff for transportation service on the Company's Dawn-Parkway facilities, as defined in the Tariff.

Applicable Points

- Dawn as a receipt point: Dawn (TCPL), Dawn (Facilities) and Dawn (Vector).
- Dawn as a delivery point: Dawn (Facilities).

MONTHLY RATES AND CHARGES

The identified rates represent maximum prices for service. These rates may change periodically. Multi-year prices may also be negotiated, which may be higher than the identified rates.

	<u>Demand Rate</u> (per month)	<u>Fuel and Commodity Rate</u>	
		<u>Fuel</u> <u>Ratio</u>	<u>Commodity</u> <u>& Charge</u>
Firm Transportation (1) (2)			
Dawn to Parkway	3.864 ✓		Monthly fuel ratios shall be in accordance with Schedule "B".
Dawn to Kirkwall	3.281		\$/GJ
Kirkwall to Parkway	0.583		\$/GJ
M12-X Firm Transportation			
Between Dawn, Kirkwall and Parkway	4.772		Monthly fuel ratios shall be in accordance with Schedule "B".
			\$/GJ
Limited Firm/Interruptible Transportation (1)			
Dawn to Parkway – Maximum	9.273		Monthly fuel ratios shall be in accordance with Schedule "B".
Dawn to Kirkwall – Maximum	9.273		\$/GJ
			\$/GJ

K# M12284 FXF
 K# M12200 IRO
 call NZT Union-TC-IRB AHA (call to get to FXF AHA)

Rate Riders

The rates quoted herein shall be subject to the following Riders (if applicable):

- Rider D - Deferral and Variance Account Clearance
- Rider E - Revenue Adjustment
- Rider J - Carbon Charges

Notes to Transportation Charges

1. The annual transportation fuel required is calculated by application of the YCR Formula, as per Transportation Fuel Charges below.
2. A Demand Charge of \$0.079/GJ/day/month will be applicable for Customers contracting for Firm all day transportation service in addition to the Demand Charges appearing on this schedule for Firm Transportation service to either Kirkwall or Parkway.

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

REDACTED
Schedule 6
Page 1 of 5

For Month of:	Reference	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Total
(a)	(b)	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	(i)
		(c)	(d)	(e)	(f)	(g)	(h)	(c)	(d)	(e)	(f)	(g)	(h)	
Supply and Commodity Costs														
1	Pipeline Gas:													
2	Dawn Iroquois Supply	In 59 * In 97												
3	Dawn PXP Supply	In 60 * In 123												
4	Niagara Supply	In 61 * In 107												
5	TGP Supply (Gulf)	In 62 * In 112												
6	TGP Supply (Z4)	In 63 * In 117												
7	PNGTS - Berlin	In 64 * In 122												
8	Dracut Baseload	In 65 * In 127												
9	Dracut Swing 1	In 66 * In 132												
10	Dracut Swing 2	In 67 * In 137												
11	LNG Truck	In 68 * In 139												
12	Propane Truck	In 69 * In 141												
13														
14	Subtotal Pipeline Gas Costs													
15														
16	Volumetric Commodity Costs													
17	Dawn Iroquois Supply	In 59 * In 168												
18	Dawn PXP Supply	In 60 * In 186												
19	Niagara Supply	In 61 * In 196												
20	TGP Supply (Gulf)	In 62 * In 206												
21	TGP Supply (Z4)	In 63 * In 216												
22	PNGTS - Berlin	In 64 * In 224												
23	Dracut Baseload	In 65 * In 229												
24	Dracut Swing 1	In 66 * In 239												
25	Dracut Swing 2	In 67 * In 249												
26	TGP Storage - Withdrawals	In 81 * In 260												
27														
28	Total Volumetric Commodity Costs													
29														
30	Less - Gas Refill:													
31	LNG Truck - Refills	In 74 * In 144												
32	Propane - Refills	In 75 * In 145												
33	TGP Storage Refill	In 76 * In 146												
34														
35	Subtotal Refills													
36														
37	Subtotal Supply & Pipeline Commodity	In 14 + In 28 + In 35												
38														
39	Seasonal Allocation - % allocated to Off-Peak													
40														
41	Off-Peak Total													
42														
43	Total Peak Supply & Pipeline Commodity Costs													
44														
45	Storage Gas:													
46	TGP Storage	In 81 * In 146												
47														
48	Produced Gas:													
49	LNG Vapor	In 84 * In 149												
50	Propane	In 85 * In 150												
51														
52	Total Produced Gas	In 49 + In 50												
53														
54	AMA Credits													
55	Total Commodity Gas & Trans. Costs	In 37 + In 46 + In 52												
56														
57														

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

REDACTED
Schedule 6
Page 2 of 5

For Month of:	Reference	EST May-24 (c)	EST Jun-24 (d)	EST Jul-24 (e)	EST Aug-24 (f)	EST Sep-24 (g)	EST Oct-24 (h)	EST Nov-24 (c)	EST Dec-24 (d)	EST Jan-25 (e)	EST Feb-25 (f)	EST Mar-25 (g)	EST Apr-25 (h)	Total (i)
Volumes (Dekatherms)														
58	Pipeline Gas:													
59	Dawn Iroquois Supply													
60	Dawn PXP Supply													
61	Niagara Supply													
62	TGP Supply (Gulf)													
63	TGP Supply (Z4)													
64	PNGTS - Berlin													
65	Dracut Baseload													
66	Dracut Swing 1													
67	Dracut Swing 2													
68	LNG Truck													
69	Propane Truck													
70														
71	Subtotal Pipeline Volumes													
72														
73	Less - Gas Refill:													
74	LNG Truck - Refills													
75	Propane - Refills													
76	TGP Storage Refill													
77														
78	Subtotal Refills													
79														
80	Storage Gas:													
81	TGP Storage													
82														
83	Produced Gas:													
84	LNG Vapor													
85	Propane													
86														
87	Subtotal Produced Gas													
88														
89	Total Sendout Volumes													
90														
91														
92														

Docket No. DG 24-106
Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

REDACTED
Schedule 6
Page 3 of 5

For Month of: (a)	Reference (b)	EST May-24 (c)	EST Jun-24 (d)	EST Jul-24 (e)	EST Aug-24 (f)	EST Sep-24 (g)	EST Oct-24 (h)	EST Nov-24 (c)	EST Dec-24 (d)	EST Jan-25 (e)	EST Feb-25 (f)	EST Mar-25 (g)	EST Apr-25 (h)	Peak Nov- Apr (i)	
Supply Costs															
93		Pipeline Gas:													
94		Dawn Iroquois Supply													Average Rate
95		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
96		\$ (0.2425)	\$ (0.2625)	\$ (0.2700)	\$ (0.4975)	\$ (0.6100)	\$ (0.7500)	\$ (0.4500)	\$ (0.4500)	\$ (0.4700)	\$ (0.2200)	\$ (0.0400)	\$ (0.1950)	\$ (0.3715)	
97		\$1.3715	\$2.2305	\$2.3580	\$1.6895	\$1.6140	\$1.5950	\$ 2.3660	\$ 2.8990	\$ 3.1680	\$ 3.2650	\$ 3.0740	\$ 2.7330	\$2.3636	
98															
99		Dawn PXP Supply													
100		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
101		\$ (0.2425)	\$ (0.2625)	\$ (0.2700)	\$ (0.4975)	\$ (0.6100)	\$ (0.7500)	\$ (0.4500)	\$ (0.4500)	\$ (0.4700)	\$ (0.2200)	\$ (0.0400)	\$ (0.1950)	\$ (0.3715)	
102		\$1.3715	\$2.2305	\$2.3580	\$1.6895	\$1.6140	\$1.5950	\$ 2.3660	\$ 2.8990	\$ 3.1680	\$ 3.2650	\$ 3.0740	\$ 2.7330	\$2.3636	
103															
104		Niagara Supply													
105		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
106		\$ (0.2725)	\$ (0.2925)	\$ (0.3000)	\$ (0.5275)	\$ (0.6400)	\$ (0.7800)	\$ (0.4800)	\$ (0.4800)	\$ (0.5000)	\$ (0.2500)	\$ (0.0700)	\$ (0.2250)	\$ (0.4015)	
107		\$1.3415	\$2.2005	\$2.3280	\$1.6595	\$1.5840	\$1.5650	\$ 2.3360	\$ 2.8690	\$ 3.1380	\$ 3.2350	\$ 3.0440	\$ 2.7030	\$2.3336	
108															
109		TGP Supply (Gulf)													
110		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
111		\$ (0.0570)	\$ (0.0622)	\$ (0.1409)	\$ (0.1409)	\$ (0.2224)	\$ (0.3086)	\$ (0.3038)	\$ (0.1168)	\$ 0.0920	\$ 0.0863	\$ (0.1032)	\$ 0.0178	\$ (0.1050)	
112		\$1.5570	\$2.4308	\$2.4871	\$2.0461	\$2.0016	\$2.0364	\$ 2.5122	\$ 3.2322	\$ 3.7300	\$ 3.5713	\$ 3.0108	\$ 2.9458	\$2.6301	
113															
114		TGP Supply (Z4)													
115		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
116		\$ (0.5025)	\$ (0.7500)	\$ (0.7675)	\$ (0.6400)	\$ (0.7050)	\$ (0.9000)	\$ (0.7350)	\$ (0.4875)	\$ (0.4550)	\$ (0.3775)	\$ (0.3225)	\$ (0.3675)	\$ (0.5842)	
117		\$1.1115	\$1.7430	\$1.8605	\$1.5470	\$1.5190	\$1.4450	\$ 2.0810	\$ 2.8615	\$ 3.1830	\$ 3.1075	\$ 2.7915	\$ 2.5605	\$2.1509	
118															
119		PNGTS - Berlin													
120		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
121		\$ (0.1575)	\$ (0.2125)	\$ 0.1600	\$ (0.2550)	\$ (0.2975)	\$ (0.5750)	\$ 1.2600	\$ 5.9500	\$ 10.7525	\$ 9.6100	\$ 2.7575	\$ 0.6550	\$ 2.4706	
122		\$1.4565	\$2.2805	\$2.7880	\$1.9320	\$1.9265	\$1.7700	\$ 4.0760	\$ 9.2990	\$ 14.3905	\$ 13.0950	\$ 5.8715	\$ 3.5830	\$5.2057	
123															
124		Dracut Baseload													
125		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
126		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10.2400	\$ 8.9400	\$ -	\$ -	\$ 1.5983	
127		\$1.6140	\$2.4930	\$2.6280	\$2.1870	\$2.2240	\$2.3450	\$ 2.8160	\$ 3.3490	\$ 13.8780	\$ 12.4250	\$ 3.1140	\$ 2.9280	\$4.3334	
128															
129		Dracut Swing 1													
130		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
131		\$ (0.4775)	\$ (0.7725)	\$ (0.2275)	\$ (0.4075)	\$ (0.4475)	\$ (0.7300)	\$ 1.1600	\$ 11.3000	\$ 20.3050	\$ 18.0150	\$ 4.9150	\$ 0.4550	\$ 4.4240	
132		\$1.1365	\$1.7205	\$2.4005	\$1.7795	\$1.7765	\$1.6150	\$ 3.9760	\$ 14.6490	\$ 23.9430	\$ 21.5000	\$ 8.0290	\$ 3.3830	\$7.1590	
133															
134		Dracut Swing 2													
135		\$ 1,6140	\$ 2,4930	\$ 2,6280	\$ 2,1870	\$ 2,2240	\$ 2,3450	\$ 2,8160	\$ 3,3490	\$ 3,6380	\$ 3,4850	\$ 3,1140	\$ 2,9280	\$ 2,7351	
136		\$ (0.4775)	\$ (0.7725)	\$ (0.2275)	\$ (0.4075)	\$ (0.4475)	\$ (0.7300)	\$ 1.1600	\$ 11.3000	\$ 20.3050	\$ 18.0150	\$ 4.9150	\$ 0.4550	\$ 4.4240	
137		\$1.1365	\$1.7205	\$2.4005	\$1.7795	\$1.7765	\$1.6150	\$ 3.9760	\$ 14.6490	\$ 23.9430	\$ 21.5000	\$ 8.0290	\$ 3.3830	\$7.1590	
138															
139		LNG Truck													
140															
141		Propane Truck													
142															
143		Storage Refill:													
144	In 139														
145	In 141														
146	Sch 16, In 15														
147															
148		Produced Gas:													
149	Sch 16, In 49														
150	Sch 16, In 32														
151															
152															

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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

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Schedule 6
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For Month of:	Reference	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST	Peak
(a)	(b)	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Nov- Apr	
Commodity Costs		(c)	(d)	(e)	(f)	(g)	(h)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	
Per Unit Volumetric Transportation Rates															
153 Dawn Iroquois Supply															
154															
155 Iroquois RTS 470-0 - Commodity (Daily) Zone 1 + ACA		\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480
156 TGP 95346 Z5-Z6 - Base Cmdy + EPCR + ACA + PS/GHG		\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310
157 Enbridge Gas M12200 (C2C) - FT (IRO) Carbon Charge		\$0.00309	\$0.00308	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311
158 TransCanada Pipeline 64195 (PXP) - Commodity		\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
159 Total	In 155 + In 156 + In 157 + In 158	\$0.08099	\$0.08098	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101
160															
161 Commodity Costs	In 97	\$1.3715	\$2.2305	\$2.3580	\$1.6895	\$1.6140	\$1.5950	\$2.3660	\$2.8990	\$3.1680	\$3.2650	\$3.0740	\$2.7330	\$2.3636	\$2.3636
162 Iroquois RTS 470-0 - Fuel Charge %		-0.50%	-0.50%	-0.50%	-0.80%	-0.50%	-0.50%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	-0.50%	0.09%
163 TGP 95346 Z5-Z6 - Fuel Charge %		0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%
164 Enbridge Gas M12200 (C2C) - Fuel Charge %		0.72%	0.60%	0.59%	0.48%	0.47%	0.85%	1.01%	1.14%	1.14%	1.14%	1.14%	1.14%	1.14%	0.87%
165 TransCanada Pipeline 64195 (PXP) - Fuel Charge %		1.47%	1.52%	1.23%	1.69%	1.37%	1.37%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	1.37%	1.46%
166 Total	In 162 + In 163 + In 164 + In 165	2.38%	2.31%	1.91%	2.06%	2.03%	2.41%	4.21%	4.34%	4.34%	4.34%	4.34%	4.34%	2.70%	3.11%
167 Fuel Charge	In 161 x In 166	\$0.03259	\$0.05161	\$0.04499	\$0.03474	\$0.03280	\$0.03849	\$0.09958	\$0.12573	\$0.13740	\$0.14160	\$0.13332	\$0.07371	\$0.07888	\$0.07888
168 Total Volumetric Transportation Rate	In 159 + In 167	\$0.11357	\$0.13259	\$0.12600	\$0.11574	\$0.11380	\$0.11949	\$0.18059	\$0.20674	\$0.21840	\$0.22261	\$0.21433	\$0.15472	\$0.15988	\$0.15988
169															
170															
171 Dawn PXP Supply															
172															
173 TGP (Dracut) 42076 Z6-Z6 - Base Cmdy + EPCR + ACA + PS/GHG		\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110
174 Portland Natural Gas #233320 (PXP) - ACA		\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140
175 Enbridge Gas M12284 (PXP) - Carbon Charge		\$0.00309	\$0.00308	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311
176 TransCanada Pipeline 64195 (PXP) - Commodity		\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
177 Total	In 173 + In 174 + In 175 + In 176	\$0.03559	\$0.03558	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561
178															
179 Commodity Costs	In 102	\$1.3715	\$2.2305	\$2.3580	\$1.6895	\$1.6140	\$1.5950	\$2.3660	\$2.8990	\$3.1680	\$3.2650	\$3.0740	\$2.7330	\$2.3636	\$2.3636
180 TGP (Dracut) 42076 Z6-Z6 - Fuel Charge %		0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
181 Portland Natural Gas #233320 (PXP) - Fuel Charge %		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
182 Enbridge Gas M12284 (PXP) - Fuel Charge %		0.72%	0.60%	0.59%	0.48%	0.47%	0.85%	1.01%	1.14%	1.14%	1.14%	1.14%	1.14%	1.14%	0.87%
183 TransCanada Pipeline 64195 (PXP) - Fuel Charge %		1.47%	1.52%	1.23%	1.69%	1.37%	1.37%	1.51%	1.51%	1.51%	1.51%	1.51%	1.51%	1.37%	1.46%
184 Total	In 180 + In 181 + In 182 + In 183	2.22%	2.15%	1.85%	2.20%	1.87%	2.25%	2.75%	2.88%	2.88%	2.88%	2.88%	2.74%	2.46%	2.46%
185 Fuel Charge	In 179 x In 184	\$0.03039	\$0.04804	\$0.04358	\$0.03710	\$0.03021	\$0.03594	\$0.06504	\$0.08340	\$0.09114	\$0.09393	\$0.08844	\$0.07480	\$0.06017	\$0.06017
186 Total Volumetric Transportation Rate	In 177 + In 185	\$0.06598	\$0.08362	\$0.07918	\$0.07271	\$0.06582	\$0.07154	\$0.10065	\$0.11901	\$0.12675	\$0.12954	\$0.12405	\$0.11041	\$0.09577	\$0.09577
187															
188															
189 Niagara Supply															
190															
191 TGP 2302 Z5-Z6 - Base Cmdy + EPCR + ACA + PS/GHG		\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310
192															
193 Commodity Costs	In 107	\$1.3415	\$2.2005	\$2.3280	\$1.6595	\$1.5840	\$1.5650	\$2.3360	\$2.8690	\$3.1380	\$3.2350	\$3.0440	\$2.7030	\$2.3336	\$2.3336
194 TGP 2302 Z5-Z6 - Fuel Charge %		0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%
195 Fuel Charge	In 193 x In 194	\$0.00926	\$0.01518	\$0.01606	\$0.01145	\$0.01093	\$0.01080	\$0.01612	\$0.01980	\$0.02165	\$0.02232	\$0.02100	\$0.01865	\$0.01610	\$0.01610
196 Total Volumetric Transportation Rate	In 191 + In 195	\$0.08236	\$0.08828	\$0.08916	\$0.08455	\$0.08403	\$0.08390	\$0.08922	\$0.09290	\$0.09475	\$0.09542	\$0.09410	\$0.09175	\$0.08920	\$0.08920
197															
198															
199 TGP Supply (Gulf)															
200															
201 TGP 8587 Z0-Z6 - Base Cmdy + EPCR + ACA+ PS/GHG		\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110
202															
203 Commodity Costs	In 112	\$1.5570	\$2.4308	\$2.4871	\$2.0461	\$2.0016	\$2.0364	\$2.5122	\$3.2322	\$3.7300	\$3.5713	\$3.0108	\$2.9458	\$2.6301	\$2.6301
204 TGP 8587 Z0-Z6 - Fuel Charge %		3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%
205 Fuel Charge	In 203 x In 204	\$0.05652	\$0.08824	\$0.09028	\$0.07427	\$0.07266	\$0.07392	\$0.09119	\$0.11733	\$0.13540	\$0.12964	\$0.10929	\$0.10693	\$0.09547	\$0.09547
206 Total Volumetric Transportation Rate	In 201 + In 205	\$0.33762	\$0.36934	\$0.37138	\$0.35537	\$0.35376	\$0.35502	\$0.37229	\$0.39843	\$0.41650	\$0.41074	\$0.39039	\$0.38803	\$0.37657	\$0.37657
207															
208															
209 TGP Supply (Z4)															
210															
211 TGP 8587 Z4-Z6 - Base Cmdy + EPCR + ACA + PS/GHG		\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610
212															
213 Commodity Costs	In 122	\$1.4565	\$2.2805	\$2.7880	\$1.9320	\$1.9265	\$1.7700	\$4.0760	\$9.2990	\$14.3905	\$13.0950	\$5.8715	\$3.5830	\$5.2057	\$5.2057
214 TGP 8587 Z4-Z6 - Fuel Charge %		0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%
215 Fuel Charge	In 213 x In 214	\$0.01413	\$0.02212	\$0.02704	\$0.01874	\$0.01869	\$0.01717	\$0.03954	\$0.09020	\$0.13959	\$0.12702	\$0.05695	\$0.03476	\$0.05050	\$0.05050
216 Total Volumetric Transportation Rate	In 211 + In 215	\$0.11023	\$0.11822	\$0.12314	\$0.11484	\$0.11479	\$0.11327	\$0.13564	\$0.18630	\$0.23569	\$0.22312	\$0.15305	\$0.13086	\$0.14660	\$0.14660

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Exhibit 4

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

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Schedule 6
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For Month of: (a)	Reference (b)	EST May-24 (c)	EST Jun-24 (d)	EST Jul-24 (e)	EST Aug-24 (f)	EST Sep-24 (g)	EST Oct-24 (h)	EST Nov-24 (c)	EST Dec-24 (d)	EST Jan-25 (e)	EST Feb-25 (f)	EST Mar-25 (g)	EST Apr-25 (h)	Peak Nov- Apr (i)
Commodity Costs														
Per Unit Volumetric Transportation Rates														
217	PNGTS - Berlin													
218														
219	Portland Natural Gas #208544 (C2C) - ACA	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.0014
220														
221	Commodity Costs In 122	\$1.4565	\$2.2805	\$2.7880	\$1.9320	\$1.9265	\$1.7700	\$4.0760	\$9.2990	\$14.3905	\$13.0950	\$5.8715	\$3.5830	\$5.2057
222	Portland Natural Gas #208544 (C2C) - Fuel Charge %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	0.05%
223	Fuel Charge In 221 x In 222	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00408	\$0.00930	\$0.01439	\$0.01310	\$0.00587	\$0.00358	\$0.00419
224	Total Volumetric Transportation Rate In 219 + In 223	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00548	\$0.01070	\$0.01579	\$0.01450	\$0.00727	\$0.00498	\$0.00559
225														
226	Dracut Baseload													
227														
228	Commodity Costs In 127	\$1.6140	\$2.4930	\$2.6280	\$2.1870	\$2.2240	\$2.3450	\$2.8160	\$3.3490	\$13.8780	\$12.4250	\$3.1140	\$2.9280	\$4.3334
229	Total Volumetric Transportation Rate In 228	\$1.61400	\$2.49300	\$2.62800	\$2.18700	\$2.22400	\$2.34500	\$2.81600	\$3.34900	\$13.87800	\$12.42500	\$3.11400	\$2.92800	\$4.33342
230														
231														
232	Dracut Swing 1													
233														
234	TGP (Dracut) 358905 Z6-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.0311
235														
236	Commodity Costs In 132	\$1.1365	\$1.7205	\$2.4005	\$1.7795	\$1.7765	\$1.6150	\$3.9760	\$14.6490	\$23.9430	\$21.5000	\$8.0290	\$3.3830	\$7.1590
237	TGP (Dracut) 358905 Z6-Z6 - Fuel Charge %	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
238	Fuel Charge In 236 x In 237	\$0.00034	\$0.00052	\$0.00072	\$0.00053	\$0.00053	\$0.00048	\$0.00119	\$0.00439	\$0.00718	\$0.00645	\$0.00241	\$0.00101	\$0.00215
239	Total Volumetric Transportation Rate In 234 + In 238	\$0.03144	\$0.03162	\$0.03182	\$0.03163	\$0.03163	\$0.03158	\$0.03229	\$0.03549	\$0.03828	\$0.03755	\$0.03351	\$0.03211	\$0.03325
240														
241														
242	Dracut Swing 2													
243														
244	TGP (Concord Lateral) Z6-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.0311
245														
246	Commodity Costs In 137	\$1.1365	\$1.7205	\$2.4005	\$1.7795	\$1.7765	\$1.6150	\$3.9760	\$14.6490	\$23.9430	\$21.5000	\$8.0290	\$3.3830	\$7.1590
247	TGP (Concord Lateral) Z6-Z6 - Fuel Charge %	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
248	Fuel Charge In 246 x In 247	\$0.00034	\$0.00052	\$0.00072	\$0.00053	\$0.00053	\$0.00048	\$0.00119	\$0.00439	\$0.00718	\$0.00645	\$0.00241	\$0.00101	\$0.00215
249	Total Volumetric Transportation Rate In 244 + In 248	\$0.03144	\$0.03162	\$0.03182	\$0.03163	\$0.03163	\$0.03158	\$0.03229	\$0.03549	\$0.03828	\$0.03755	\$0.03351	\$0.03211	\$0.03325
250														
251														
252	TGP Storage - Withdrawals													
253														
254	TGP 8587 Z4-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.0961
255														
256	Commodity Costs In 146	\$1.62383	\$1.64118	\$1.70438	\$1.68519	\$1.66409	\$1.63941	\$1.68199	\$1.68199	\$1.68199	\$1.68199	\$1.68199	\$1.68386	\$1.6710
257	TGP 8587 Z4-Z6 - Fuel Charge %	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%
258	Fuel Charge In 256 x In 257	\$0.01575	\$0.01592	\$0.01653	\$0.01635	\$0.01614	\$0.01590	\$0.01632	\$0.01632	\$0.01632	\$0.01632	\$0.01632	\$0.01633	\$0.01621
259	TGP - Withdrawal Rate	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140
260	Total Volumetric Transportation Rate In 254 + In 258 + In 259	\$0.11325	\$0.11342	\$0.11403	\$0.11385	\$0.11364	\$0.11340	\$0.11382	\$0.11382	\$0.11382	\$0.11382	\$0.11382	\$0.11383	\$0.11371

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Capacity Assignment Calculations 2024-2025
Derivation of Class Assignments, Weightings and Correction Factor**

Basic assumptions:

- 1 Residential class pays average seasonal gas cost rate (using MBA method to allocate costs to seasons)
- 2 Residual gas costs are allocated to C&I HLF and LLF classes based on MBA method
- 3 The MBA method allocates capacity costs based on design day demands in two pieces:
 - a The base use portion of the class design day demand based on base use
 - b The remaining portion of design day demand based on remaining design day demand
- 4 Base demand is composed solely of pipeline supplies
- 5 Remaining demand consists of a portion of pipeline and all storage and peaking supplies

	Design Day Demand, Dth (a)	Adjusted Design Day Demand, Dth (b)	Percent of Total (c)	Percent of C&I (d)	Avg Daily Base Use Load, Dth (e)	Percent of C&I (f)	Remaining Design Day Demand, Dth (g)	Percent of C&I (h)
1		633	0.4%		94		539	
2		67,357	41.4%		3,533		63,824	
3		67,990	41.8%		3,627		64,363	
4								
5		29,507	18.1%	31.1%	839	11.5%	28,668	32.8%
6		2,204	1.4%	2.3%	683	9.4%	1,521	1.7%
7		38,051	23.4%	40.2%	1,448	19.8%	36,603	41.8%
8		69,762	42.9%	73.6%	2,970	40.7%	66,792	76.4%
9								
10		5,253	3.2%	5.5%	1,567	21.5%	3,686	4.2%
11		11,688	7.2%	12.3%	787	10.8%	10,901	12.5%
12		6,747	4.1%	7.1%	1,390	19.0%	5,357	6.1%
13		1,323	0.8%	1.4%	588	8.1%	735	0.8%
14		25,011	15.4%	26.4%	4,332	59.3%	20,679	23.6%
15		94,773	58.2%	100.0%	7,302	100.0%	87,471	100.0%
16								
17		162,763	100.0%		10,929		151,834	
18								

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Capacity Assignment Calculations 2024-2025
Derivation of Class Assignments, Weightings and Correction Factor

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Schedule 10A
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	Capacity Cost (a)	MDG, Dth (b)	\$/Dth-Mo. (c)	
Pipeline - Baseload	1463152.662	10,929	\$ 11.1565	
Pipeline - Remaining	\$ 14,564,489	108,789	\$ 11.1565	
Pipeline Total	\$ 16,027,642	119,718	\$ 11.1565	
Storage	\$ 4,094,776	28,115	\$ 12.1370	
Peaking				
Total	\$ 21,472,418	162,764	\$ 10.9936	
Residential Allocation				
Pipeline - Baseload	\$ 611,188	4,565	\$ 11.1565	
Pipeline - Remaining	\$ 6,083,863	45,443	\$ 11.1565	
Storage	\$ 1,710,472	11,744	\$ 12.1370	
Peaking				
Total	\$ 8,969,449	67,990	\$ 10.9936	
C&I Allocation				Ratios for COG
Pipeline - Baseload	\$ 851,965	6,364	\$ 11.1565	
Pipeline - Remaining	\$ 8,480,626	63,346	\$ 11.1565	
Storage	\$ 2,384,304	16,371	\$ 12.1370	
Peaking				
Total	\$ 12,502,969	94,774	\$ 10.9936	1.0000
LLF - C&I Allocation				
Pipeline - Baseload	\$ 346,528	2,588	\$ 11.1565	
Pipeline - Remaining	\$ 6,475,721	48,370	\$ 11.1565	
Storage	\$ 1,820,630	12,501	\$ 12.1370	
Peaking				
Total	\$ 9,243,118	70,098	\$ 10.9884	0.9995
HLF - C&I Allocation				
Pipeline - Baseload	\$ 505,437	3,775	\$ 11.1565	
Pipeline - Remaining	\$ 2,004,905	14,976	\$ 11.1565	
Storage	\$ 563,674	3,870	\$ 12.1370	
Peaking				
Total	\$ 3,259,851	24,676	\$ 11.0086	1.0014
Unit Cost				
Pipeline	\$ 11.1565	\$ 11.1565	\$ 11.1565	
Storage	\$ 12.1370	\$ 12.1370	\$ 12.1370	
Peaking				
Total	\$ 10.9936	\$ 10.9936	\$ 10.9936	
Load Makeup				
Pipeline	73.55%	72.70%	75.99%	
Storage	17.27%	17.83%	15.68%	
Peaking				
Total	100.00%	100.00%	100.00%	
Supply Makeup				
Pipeline	41.77%	42.57%	15.66%	100.00%
Storage	41.77%	44.46%	13.77%	100.00%
Peaking				100.00%

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Correction Factor Calculation

		November (a)	December (b)	January (c)	February (d)	March (e)	April (f)	Total Sales (g)
84	G-41	1,907,230	3,011,393	3,794,502	3,186,478	2,635,092	1,405,256	15,939,951
85	G-42	1,451,767	2,168,720	2,661,009	2,246,933	1,929,648	1,162,172	11,620,249
86	G-43	484,636	658,424	798,835	650,349	596,945	404,305	3,593,494
87	High Winter Use	3,843,633	5,838,537	7,254,346	6,083,760	5,161,685	2,971,733	31,153,694
88								
89	G-51	213,674	278,049	302,802	275,076	253,050	229,005	1,551,656
90	G-52	248,449	324,618	351,254	320,402	299,046	268,155	1,811,924
91	G-53	366,300	426,098	512,907	420,095	401,304	344,630	2,471,334
92	G-54	38,178	53,842	69,538	59,664	56,057	46,770	324,049
93	Low Winter Use	866,601	1,082,607	1,236,501	1,075,237	1,009,457	888,560	6,158,963
94								
95	Total	4,710,234	6,921,144	8,490,847	7,158,997	6,171,142	3,860,293	37,312,657
96								
97								
98	Total Sales							37,312,657
99	Low Winter Use							6,158,963
100	Winter Ratio for Low Winter Use							1.0014
101	High Winter Use							31,153,694
102	Winter Ratio for High Winter Use							0.9995
103								
104	Correction Factor = Total Sales/((Low Winter Use x Winter Ratio for Low Winter Use)+(High Winter Use x Winter Ratio for High Winter Use))							
105	Correction Factor =							100.0186%
106								
107	Allocation Calculation for Miscellaneous Overhead							
108								
109	Projected Winter Sales Volume					11/1/2024 - 4/30/2025		88,888,172
110	Projected Annual Sales Volume					11/1/2024 - 10/31/2025		111,310,891
111	Percentage of Winter Sales to Annual Sales							79.86%

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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Sales Projections

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Firm Sales		Dry Therms														Subtotal OP 25	Total
		EST Nov-24 (b)	EST Dec-24 (c)	EST Jan-25 (d)	EST Feb-25 (e)	EST Mar-25 (f)	EST Apr-25 (g)	Subtotal PK 24-25 (h)	EST May-25 (i)	EST Jun-25 (j)	EST Jul-25 (k)	EST Aug-25 (l)	EST Sep-25 (m)	EST Oct-25 (n)			
1	R-1	67,528	87,749	98,313	83,448	79,729	60,145	476,912	45,971	35,461	34,327	33,139	34,181	47,558	230,637	707,549	
2	R-3	6,605,226	9,755,243	11,247,680	9,605,229	8,589,008	5,296,217	51,098,603	3,022,704	1,423,593	1,055,307	978,936	1,607,987	4,014,464	12,102,991	63,201,594	
3	R-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Total Residential.	6,672,754	9,842,992	11,345,993	9,688,677	8,668,737	5,356,362	51,575,515	3,068,675	1,459,054	1,089,634	1,012,075	1,642,168	4,062,022	12,333,628	63,909,143	
5																	
6	G-41	1,907,230	3,011,393	3,794,502	3,186,478	2,635,092	1,405,256	15,939,951	647,283	247,705	182,380	219,642	306,852	911,876	2,515,738	18,455,689	
7	G-42	1,451,767	2,166,720	2,661,009	2,246,933	1,929,648	1,162,172	11,620,249	596,813	252,611	189,820	234,086	304,274	813,450	2,391,054	14,011,303	
8	G-43	484,636	658,424	798,835	650,349	596,945	404,305	3,593,494	260,370	115,571	97,554	126,246	155,207	382,963	1,137,901	4,731,395	
9	G-51	213,674	278,049	302,802	275,076	253,050	229,005	1,551,656	191,960	163,725	163,817	158,238	150,012	176,690	1,004,442	2,556,098	
10	G-52	248,449	324,618	351,254	320,402	299,046	268,155	1,811,924	213,501	181,705	177,982	182,107	166,553	204,017	1,125,865	2,937,789	
11	G-53	366,300	426,098	512,907	420,095	401,304	344,630	2,471,334	294,482	259,770	253,690	262,452	273,240	332,935	1,676,569	4,147,903	
12	G-54	38,178	53,842	69,538	59,664	56,057	46,770	324,049	79,196	29,765	31,362	30,918	29,507	36,774	237,522	561,571	
13	Total C/I	4,710,234	6,921,144	8,490,847	7,158,997	6,171,142	3,860,293	37,312,657	2,283,605	1,250,852	1,096,605	1,213,689	1,385,645	2,858,695	10,089,091	47,401,748	
14																	
15	Sales Volume	11,382,988	16,764,136	19,836,840	16,847,674	14,839,879	9,216,655	88,888,172	5,352,280	2,709,906	2,186,239	2,225,764	3,027,813	6,920,717	22,422,719	111,310,891	
16																	
17	Transportation Sales																
18	G-41	578,114	856,128	1,045,460	878,720	753,973	441,407	4,553,802	245,357	109,205	78,923	96,034	140,097	351,127	1,020,743	5,574,545	
19	G-42	2,164,588	3,023,844	3,632,316	3,082,851	2,713,445	1,660,548	16,277,592	942,015	407,105	316,461	387,914	586,634	1,446,209	4,086,338	20,363,930	
20	G-43	815,365	1,048,729	1,301,075	1,150,330	1,062,783	682,985	6,061,267	469,772	274,390	213,596	263,170	300,671	651,593	2,173,192	8,234,459	
21	G-51	101,234	123,971	138,462	111,832	99,025	75,397	649,921	62,716	53,353	49,876	53,399	66,082	95,059	380,485	1,030,406	
22	G-52	490,002	596,386	658,984	591,518	553,135	443,200	3,333,225	366,155	315,827	310,316	326,475	338,752	417,353	2,074,878	5,408,103	
23	G-53	762,560	879,474	1,006,349	881,540	882,839	610,497	5,023,259	534,966	502,931	446,299	488,299	542,190	628,086	3,142,791	8,166,050	
24	G-54	1,483,201	1,147,149	1,115,912	964,456	1,067,555	1,211,411	6,989,684	1,436,604	1,475,972	1,547,328	1,645,977	1,539,151	1,674,423	9,319,455	16,309,139	
25																	
26	Total Trans. Sales	6,395,064	7,675,681	8,898,558	7,661,247	7,132,755	5,125,445	42,888,750	4,057,605	3,138,783	2,962,799	3,261,268	3,513,577	5,263,850	22,197,882	65,086,632	
27																	
28	Total All Sales	17,778,052	24,439,817	28,735,398	24,508,921	21,972,634	14,342,100	131,776,922	9,409,885	5,848,689	5,149,038	5,487,032	6,541,390	12,184,567	44,620,601	176,397,523	

1/ R-3 sales volumes include R-4 sales volumes. R-4 customers are classified as a subset of R-3 customers in the billing system and get charged different rates when applicable.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Normal and Design Year Volumes and Capacity Utilization

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Normal Year Volumes (Therms)

	EST Nov-24	EST Dec-24	EST Jan-25	EST Feb-25	EST Mar-25	EST Apr-25	Peak Nov - Apr
1 Pipeline Gas:							
2 Dawn Iroquois Supply	1,078,731	1,114,992	1,143,917	1,024,873	1,141,302	670,576	6,174,391
3 Dawn PXP Supply	435,717	750,152	860,086	773,637	816,278	567,630	4,203,500
4 Niagara Supply	598,224	640,267	707,962	637,413	699,874	583,358	3,867,098
5 TGP Supply (Gulf)	5,018,214	6,073,775	6,071,944	5,480,464	5,269,554	4,898,098	32,812,049
6 TGP Supply (Z4)	1,569,008	128,200	136,765	123,112	135,203	880,757	2,973,045
7 PNGTS - Berlin	189,473	195,596	224,529	194,502	221,964	183,729	1,209,793
8 Dracut Baseload	-	-	3,100,000	1,400,000	-	-	4,500,000
9 Dracut Swing 1	1,905,635	1,605,012	8,094	1,505,067	3,621,558	1,166,397	9,811,763
10 Dracut Swing 2	-	-	-	-	186,611	-	186,611
11 LNG Truck							
12 Propane Truck							
13 Subtotal Pipeline Volumes	10,827,645	11,372,427	13,936,170	12,252,902	12,308,524	9,032,758	69,730,426
14							
15 Storage Gas:							
16 TGP Storage	2,592,305	4,991,004	5,758,772	4,547,123	2,073,593	-	19,962,797
17							
18 Produced Gas:							
19 LNG Vapor							
20 Propane							
21 Subtotal Produced Gas							
22							
23 Less - Gas Refills:							
24 LNG Truck - Refills							
25 Propane - Refills							
26 TGP Storage Refill							
27 Subtotal Refills							
28							
29 Total Sendout Volumes	11,429,418	16,687,960	19,882,171	16,841,548	14,290,294	8,967,703	88,099,094

Design Year Volumes (Therms)

	EST Nov-24	EST Dec-24	EST Jan-25	EST Feb-25	EST Mar-25	EST Apr-25	Peak Nov - Apr
30 Pipeline Gas:							
31 Dawn Iroquois Supply	1,078,731	1,114,992	1,143,917	1,024,873	1,141,302	666,287	6,170,102
32 Dawn PXP Supply	497,456	750,152	860,086	773,637	822,786	561,196	4,265,313
33 Niagara Supply	598,224	640,267	707,962	637,413	699,874	581,928	3,865,668
34 TGP Supply (Gulf)	5,016,794	6,073,775	6,071,944	5,480,464	5,269,554	4,898,813	32,811,344
35 TGP Supply (Z4)	2,426,959	2,035,814	1,133,617	1,553,831	2,231,932	43,609	9,425,762
36 PNGTS - Berlin	189,473	195,596	224,529	194,502	221,964	183,729	1,209,793
37 Dracut Baseload	-	-	3,100,000	1,400,000	-	-	4,500,000
38 Dracut Swing 1	2,267,291	1,854,136	1,539,574	2,159,963	3,054,718	1,957,791	12,833,473
39 Dracut Swing 2	23,677	492,969	-	-	686,211	-	1,202,857
40 LNG Truck							
41 Propane Truck							
42 Subtotal Pipeline Volumes	12,222,791	14,022,134	16,589,565	14,512,622	14,283,788	8,975,566	80,606,466
43							
44 Storage Gas:							
45 TGP Storage	2,546,178	4,884,781	5,953,316	4,544,938	1,972,372	-	19,901,585
46							
47 Produced Gas:							
48 LNG Vapor							
49 Propane							
50 Subtotal Produced Gas							
51							
52 Less - Gas Refills:							
53 LNG Truck - Refills							
54 Propane - Refills							
55 TGP Storage Refill							
56 Subtotal Refills							
57							
58 Total Sendout Volumes	12,881,334	18,963,324	22,931,236	19,050,276	16,245,315	8,909,081	98,980,566

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Normal and Design Year Volumes and Capacity Utilization

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Capacity Utilization

	Normal Year			
	Peak Period Use (Therms)	MDQ (MMBtu/day)	Seasonal Quantity (Therms)	Utilization Rate
Pipeline Gas:				
59 Dawn Iroquois Supply	6,174,391	4,000	7,240,000	85%
60 Dawn PXP Supply	4,203,500	5,000	9,050,000	46%
61 Niagara Supply	3,867,098	3,122	5,650,820	68%
62 TGP Supply (Gulf less Z4)	35,785,094	21,596	39,088,760	92%
63 PNGTS - Berlin	1,209,793	1,000	1,810,000	67%
64 Dracut (Baseload, Swing 1, Swing 2)	14,498,374	90,000	162,900,000	9%
65 LNG Truck				
66 Propane Truck				
67 Subtotal Pipeline Volumes	69,730,426			
68				
69 Storage Gas:				
70 TGP Storage	19,962,797		25,791,710	77%
71				
72 Produced Gas:				
73 LNG Vapor				
74 Propane				
75 Subtotal Produced Gas				
76				
77 Less - Gas Refills:				
78 LNG Truck - Refills				
79 Propane - Refills				
80 TGP Storage Refill				
81 Subtotal Refills				
82				
83 Total Sendout Volumes	88,099,094			

	Design Year			
	Peak Period Use (Therms)	MDQ (MMBtu/day)	Seasonal Quantity (Therms)	Utilization Rate
Pipeline Gas:				
59 Dawn Iroquois Supply	6,170,102	4,000	7,240,000	85%
60 Dawn PXP Supply	4,265,313	5,000	9,050,000	47%
61 Niagara Supply	3,865,668	3,122	5,650,820	68%
62 TGP Supply (Gulf less Z4)	42,237,106	21,596	39,088,760	108%
63 PNGTS - Berlin	1,209,793	1,000	1,810,000	67%
64 Dracut (Baseload, Swing 1, Swing 2)	18,536,330	90,000	162,900,000	11%
65 LNG Truck				
66 Propane Truck				
67 Subtotal Pipeline Volumes	80,606,466			
68				
69 Storage Gas:				
70 TGP Storage	19,901,585		25,791,710	77%
71				
72 Produced Gas:				
73 LNG Vapor				
74 Propane				
75 Subtotal Produced Gas				
76				
77 Less - Gas Refills:				
78 LNG Truck - Refills				
79 Propane - Refills				
80 TGP Storage Refill				
81 Subtotal Refills				
82				
83 Total Sendout Volumes	98,980,566			

Forecast of Upcoming Winter Period
Design Day Report
2024/2025 Heating Season
(Therms)

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

Requirements

1	Firm Sales	1,180,202
2	Interruptible Sales	0
3	Firm Transportation	447,438
4	Interruptible Transportation	<u>0</u>
5		
6	Total Requirements	1,627,640
7		

Resources

8		
9		
10		
11	Purchased Pipeline Gas	1,197,180
12	Underground Storage Gas	281,150
13	Propane Air Production	23,310
14	LNG Produced Gas	126,000
15	Third-Party Supply	<u>0</u>
16		
17	Total Resources	1,627,640
18		

19

20 Please refer to the ENNG 2022 IRP filing (DG 22-064)
21 for a complete description of the methodology and
22 assumptions used in the derivation of this data.

23

24

25 Preparation of this report was supervised by:

26

27

28

29

30

31 Joshua Tilbury
32 Director, Energy Procurement

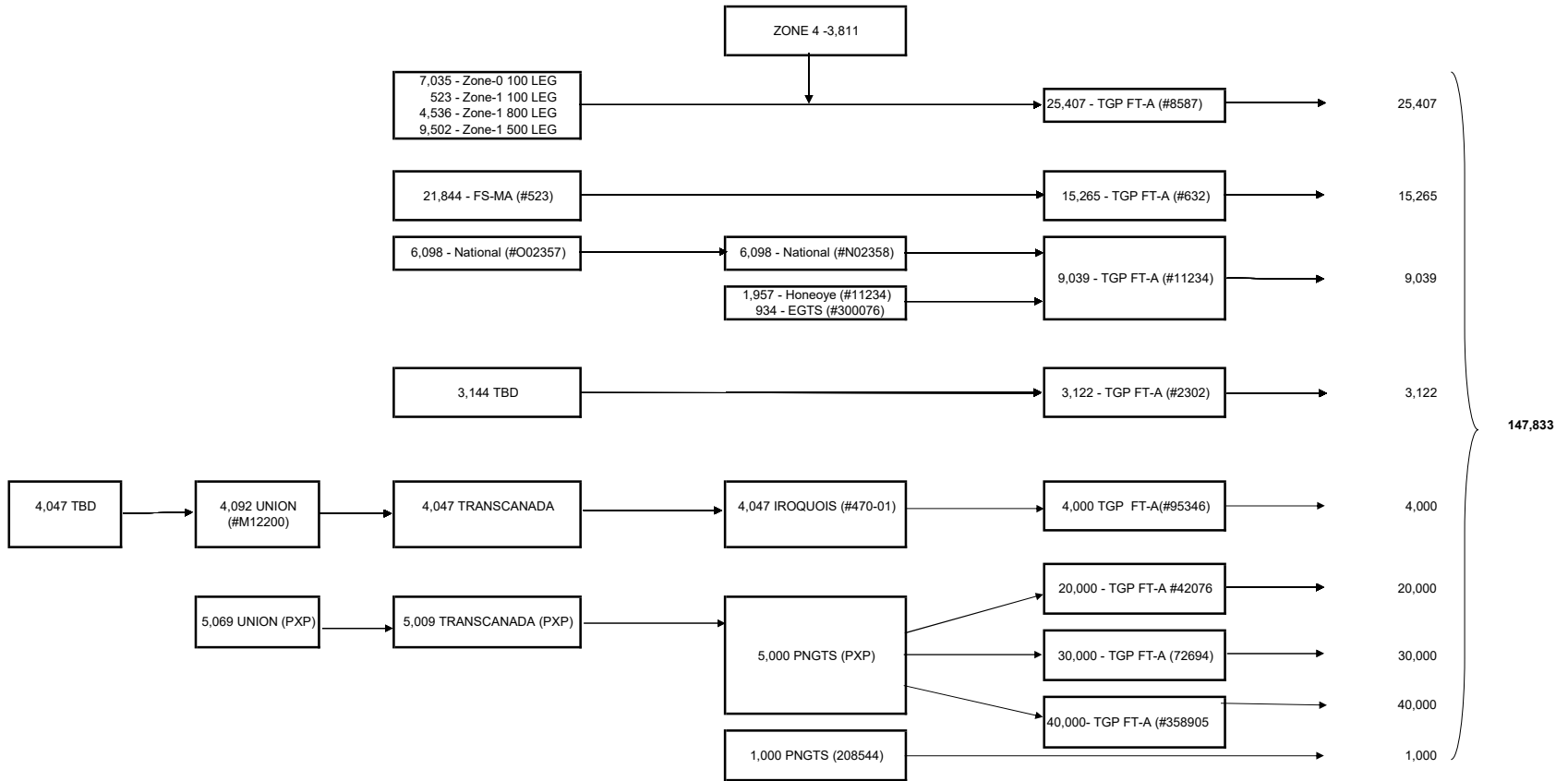
33

34 Note: Forecasted Firm Transportation volumes are for customers
35 using utility capacity only.

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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Transportation Available for Pipeline Supply and Storage
(MMBtu)

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Agreements for Gas Supply and Transportation

SOURCE	RATE SCHEDULE	CONTRACT NUMBER	TYPE	MDQ MMBTU	MAQ * MMBTU	EXPIRATION DATE	NOTIFICATION DATE	RENEWAL OPTIONS
EGTS Incorporated	GSS	300076	Storage	934	102,700	3/31/2027	12 months notice	Mutually agreed upon
Honeoye Storage Corporation	SS-NY	11234	Storage	1,362	245,280	3/31/2025	12 months notice	Evergreen Provision
National Fuel Gas Supply Corporation	FSS	002358	Storage	6,098	670,800	3/31/2025	12 months notice	Evergreen Provision
National Fuel Gas Supply Corporation	FSST	N02358	Transportation	6,098	670,800	3/31/2025	12 months notice	Evergreen Provision
Iroquois Gas Transmission System	RTS	47001	Transportation	4,047	1,477,155	11/1/2027	11/1/2026	Evergreen Provision
Portland Natural Gas Transmission System	FT	208544	Transportation	1,000	365,000	11/30/2032	11/30/2031	Evergreen Provision
Portland Natural Gas Transmission System	FT	PXP	Transportation	5,000	1,825,000	10/31/2040	10/31/2039	Precedent Agreement
Tennessee Gas Pipeline Company	FS-MA	523	Storage	21,844	1,560,391	10/31/2025	10/31/2024	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	8587	Transportation	25,407	9,273,555	10/31/2025	10/31/2024	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	2302	Transportation	3,122	1,139,530	10/31/2025	10/31/2024	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	632	Transportation	15,265	5,571,725	10/31/2025	10/31/2024	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	11234	Transportation	9,039	3,299,235	10/31/2025	10/31/2024	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	72694	Transportation	30,000	10,950,000	10/31/2029	10/31/2028	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	95346	Transportation	4,000	1,460,000	11/30/2026	11/30/2025	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	42076	Transportation	20,000	7,300,000	10/31/2025	10/31/2024	Evergreen Provision
Tennessee Gas Pipeline Company	FTA	358905	Transportation	40,000	14,600,000	10/31/2041	10/31/2040	Evergreen Provision
TransCanada Pipeline	FT	41232	Transportation	4,047	1,477,155	10/31/2026	10/31/2024	Evergreen Provision
TransCanada Pipeline	FT	PXP	Transportation	5,009	1,828,285	10/31/2040	10/31/2038	Precedent Agreement
Union Gas Limited	M12	M12200	Transportation	4,092	1,493,580	10/31/2040	10/31/2038	Evergreen Provision
Union Gas Limited	M12	PXP	Transportation	5,069	1,850,185	10/31/2040	10/31/2038	Precedent Agreement

* MAQ is calculated on a 365 day calendar year.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Storage Inventory, Underground, LPG and LNG including Calculation of Money Pool Interest Costs Associated with Natural Gas

Underground Storage Gas		May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Total
		ACT	ACT	ACT	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST
1	Beginning Balance (MMBtu)	537,692	816,901	1,049,620	1,294,118	1,514,377	1,734,636	1,954,895	1,904,298	1,405,197	829,320	374,608	167,249	537,692
2	Injections (MMBtu)	284,012	235,043	246,901	220,259	220,259	220,259	208,633	-	-	-	-	357	1,635,324
3	Subtotal	821,704	1,051,944	1,296,521	1,514,377	1,734,636	1,954,895	2,163,528	1,904,298	1,405,197	829,320	374,608	167,606	2,173,016
4	Storage Sale/Adjustments (MMBtu)	(4,803)	(2,324)	(2,003)	-	-	-	-	-	-	-	-	-	(9,130)
5	Withdrawals (MMBtu)	-	-	-	-	-	-	(259,231)	(499,100)	(575,877)	(454,712)	(207,359)	-	(1,998,280)
6	Ending Balance (MMBtu)	816,901	1,049,620	1,294,118	1,514,377	1,734,636	1,954,895	1,904,298	1,405,197	829,320	374,608	167,249	167,606	167,606
8	Beginning Balance (\$)	\$ 944,386	\$ 1,332,761	\$ 1,727,906	\$ 2,211,279	\$ 2,552,020	\$ 2,886,593	\$ 3,204,867	\$ 3,203,010	\$ 2,363,528	\$ 1,394,908	\$ 630,087	\$ 281,310	\$ 944,386
9	Injections (\$)	\$ 389,923	\$ 393,673	\$ 481,178	\$ 340,741	\$ 334,573	\$ 318,274	\$ 434,166	\$ -	\$ -	\$ -	\$ -	\$ 915	\$ 2,693,443
10	Subtotal	\$ 1,334,309	\$ 1,726,434	\$ 2,209,084	\$ 2,552,020	\$ 2,886,593	\$ 3,204,867	\$ 3,639,033	\$ 3,203,010	\$ 2,363,528	\$ 1,394,908	\$ 630,087	\$ 282,226	\$ 3,637,829
11	Storage Sale/Adjustments (\$)	\$ (1,547)	\$ 1,472	\$ 2,194	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,119
12	Withdrawals (\$)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (436,023)	\$ (839,482)	\$ (968,620)	\$ (764,822)	\$ (348,776)	\$ -	\$ (3,357,723)
13	Ending Balance	\$ 1,332,761	\$ 1,727,906	\$ 2,211,279	\$ 2,552,020	\$ 2,886,593	\$ 3,204,867	\$ 3,203,010	\$ 2,363,528	\$ 1,394,908	\$ 630,087	\$ 281,310	\$ 282,226	\$ 282,226
14	Average Rate For Withdrawals	In 10 / In 3	\$ 1.6238	\$ 1.6412	\$ 1.7044	\$ 1.6852	\$ 1.6641	\$ 1.6394	\$ 1.6820	\$ 1.6820	\$ 1.6820	\$ 1.6820	\$ 1.6820	\$ 1.6839
16	TGP Storage Rate for Injections	Actual or NYMEX plus TGP Transportation	\$ 1.3729	\$ 1.6749	\$ 1.9520	\$ 1.5470	\$ 1.5190	\$ 1.4450	\$ 2.0810	\$ 2.8615	\$ 3.1830	\$ 3.1075	\$ 2.7915	\$ 2.5605

Liquid Propane Gas (LPG)		May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Total
		ACT	ACT	ACT	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST
18	Beginning Balance (MMBtu)													
19	Injections (MMBtu)													
20	Subtotal													
21	Storage Sale/Adjustments (MMBtu)													
22	Withdrawals (MMBtu)													
23	Ending Balance (MMBtu)													
25	Beginning Balance (\$)													
26	Injections (\$)													
27	Subtotal													
28	Storage Sale/Adjustments (\$)													
29	Withdrawals (\$)													
30	Ending Balance													
31	Average Rate For Withdrawals	In 27 / In 20												
34	Propane Rate for Injections	In 26 / In 19 or Sch. 6, In 145												

Liquid Natural Gas (LNG)		May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	Total
		ACT	ACT	ACT	EST	EST	EST	EST	EST	EST	EST	EST	EST	EST
35	Beginning Balance (MMBtu)													
36	Injections (MMBtu)													
37	Subtotal													
38	Storage Sale/Adjustments (MMBtu)													
39	Withdrawals (MMBtu)													
40	Ending Balance (MMBtu)													
41	Beginning Balance (\$)													
42	Injections (\$)													
43	Subtotal													
44	Storage Sale/Adjustments (\$)													
45	Withdrawals (\$)													
46	Ending Balance													
47	Average Rate For Withdrawals	In 44 / In 37												
48	LNG Rate for Injections	In 43 / In 36 or Sch. 6, In 144												

**Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
 Peak 2024 – 2025 Winter Cost of Gas Filing
 Calculation of Supplier Balancing Charge
 2024-2025**

Rate: \$ 0.1126 /MMBtu

	Rate	Volume	Total
Injection Cost	\$ 0.0087	446,567	\$ 3,885
Fuel 1.38%	\$ 0.0228	446,567	\$ 10,168
Withdrawal Cost	\$ 0.0087	132,916	\$ 1,156
Delivery Rate	\$ 0.0408	132,916	\$ 5,422
FTA Demand Charge	\$ 0.2235	132,916	\$ 29,700
FTA Commodity Charge	\$ 0.0961	132,916	\$ 12,773
Fuel 0.97%	\$ 0.0160	132,916	\$ 2,127
		Total Cost	\$ 65,233
	Absolute Value of the	Sendout Error	579,483 MMBtu
		Rate	\$ 0.1126 /MMBTU

NOTES: See Tennessee Gas Pipeline Tariff Pages in PK Schedule 6

TGP FSMA Injection Charge	\$	0.0087	/ MMBtu
TGP FSMA Withdrawal Charge	\$	0.0087	/ MMBtu
TGP FSMA Deliverability Charge	\$	1.2402	/ MMBtu per month
	\$	0.0408	/ MMBtu per day
TGP Z4-6 Demand Charge	\$	6.7929	/ MMBtu per month
	\$	0.2235	/ MMBtu per day
TGP Z4-6 Commodity Charge	\$	0.0961	/ MMBtu

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Calculation of Supplier Balancing Charge
2024-2025
Estimated Monthly Imbalances

Date	Forecasted DD	Actual DD	Forecaster Error DD	Forecasted Sendout (MMBtu)	Actual Sendout (MMBtu)	Sendout Error (MMBtu)	Abs.Value	Injections (MMBtu)	Withdrawals (MMBtu)
							Sendout Error (MMBtu)		
1 Nov	790	755	35	1,768,588	1,708,204	60,383	98,339	79,361	18,978
2 Dec	861	832	29	1,984,142	1,929,459	54,684	88,626	71,655	16,971
3 Jan	1,095	1,077	18	2,578,370	2,542,682	35,688	99,132	67,410	31,722
4 Feb	890	875	15	2,080,014	2,050,732	29,282	52,707	40,995	11,713
5 Mar	768	747	21	1,813,231	1,767,003	46,229	84,553	65,391	19,162
6 Apr	452	433	19	1,051,903	1,022,630	29,273	63,168	46,220	16,947
7 May	203	190	13	631,622	617,725	13,897	28,864	21,380	7,483
8 Jun	79	79	0	420,668	420,668	0	7,991	3,995	3,995
9 Jul	0	0	0	358,777	358,777	0	0	0	0
10 Aug	4	2	2	376,692	376,350	342	342	342	-
11 Sep	96	82	14	432,973	423,002	9,970	12,819	11,395	1,424
12 Oct	301	271	30	744,298	710,396	33,903	42,943	38,423	4,520
13									
14 Total	5,539	5,343	196	14,241,279	13,927,628	313,650	579,483	446,567	132,916

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Docket DE 98-124 Gas Restructuring
Peaking Demand Rate

1	Peak Day		162,764	Dekatherm
2				
3	Pipeline MDQ			
4		PNGTS	1,000	Dekatherm
5		TGP NET-NE 95346	4,000	
6		TGP FT-A (Z5-Z6) 2302	3,122	
7		TGP FT-A (Z0-Z6) 8587	7,035	
8		TGP FT-A (Z1-Z6) 8587	14,561	
9		TGP FT-A (Z6-Z6) 42076	20,000	
10		TGP FT-A (Z6-Z6) 358905	40,000	
11		TGP FT-A (Z6-Z6) 72694	30,000	
12			<u>119,718</u>	Dekatherm
13				
14	Underground Storage MDQ			
15		TGP FT-A (Z4-Z6) 632	15,265	Dekatherm
16		TGP FT-A (Z4-Z6) 8587	3,811	
17		TGP FT-A (Z4-Z6) 11234	7,082	
18		TGP FT-A (Z5-Z6) 11234	1,957	
19			<u>28,115</u>	Dekatherm
20				
21				
22	Peaking MDQ		14,931	Dekatherm
23				
24				
25	Peaking Costs			
26				
27	Gas Supply		\$ 1,350,000	
28	Indirect Production & Storage Capacity		\$ 3,685,459	
29	Granite Ridge		\$ -	
30	Total		<u>\$ 5,035,459</u>	
31				
32	Annual Peaking Rate per MDQ		\$ 337.25	
33				
34	Monthly Peaking MDQ		\$ 56.21	/Dekatherm

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing

Tennessee Allocations

Resource Type	High Load Factor	Low Load Factor
Pipeline	80.1%	72.9%
Storage	13.0%	17.7%
Peaking	6.9%	9.4%
TOTAL:	100.00%	100.00%

Capacity Resources effective November 1, 2023*

*proposed

Resource	Pipeline Company	Rate Schedule	Contract #	Peak MDQ/ MDWQ	Storage MSQ	Rate \$/Dth/Month Demand	Storage Capacity	Termination Date	LDC Managed	
Pipeline	Enbridge	Dawn to Parkway	M12200	4,317		\$3.7600		10/31/2026		
	TCPL	Parkway to Iroquois	41232	4,270		\$12.5438		10/31/2026		
	Iroquois	RTS to Wright	470-01	4,047		\$4.8393		11/1/2027		
	TGP	NET-NE (Z5-Z6)	95346	4,000		\$6.0905		11/30/2026		
	TGP	FT-A (Z5-Z6)	2302	3,122		\$6.0905		10/31/2025		
	TGP	FT-A (Z0-Z6)	8587	7,035		\$19.6964		10/31/2025		
	TGP	FT-A (Z1-Z6)	8587	14,561		\$17.4870		10/31/2025		
	Enbridge	Dawn to Parkway	M12284	5,348		\$3.7600		10/31/2040		
	TCPL	Parkway to E. Hereford	64195	5,285		\$12.5438		10/31/2040		
	PNGTS	FT	225800	5,000		\$22.7943		10/31/2040		
	TGP	FT-A (Z6-Z6)	42076	20,000		\$4.0474		10/31/2025		
	TGP	FT-A (Z6-Z6)	358905	40,000		\$4.0474		10/31/2041		
	TGP	FT-A (Z6-Z6)	72694	30,000		\$12.2157		10/31/2029		
	Storage	TGP	FS-MA (Storage)	523*	21,844	1,560,391	\$1.2655	\$0.0173	10/31/2025	
		TGP	FT-A (Z4-Z6)	632	15,265		\$6.9301		10/31/2025	
		TGP	FT-A (Z4-Z6)	8587	3,811		\$6.9301		10/31/2025	
		National Fuel	FSS-1 (Storage)	O02357*	6,098	670,800	\$2.6469	\$0.0478	3/31/2025	
		National Fuel	FST (Transport)	N02358	6,098		\$5.0175		3/31/2025	
TGP		FT-A (Z4-Z6)	11234	6,150		\$6.9301		10/31/2025		
Honeoye		SS-NY (Storage)	SS-NY**	1,957	245,380	\$4.8254	\$0.0000	3/31/2025		
TGP		FT-A (Z5-Z6)	11234	1,957		\$6.0905		10/31/2025	X	
Dominion		GSS (Storage)	300076*	934	102,700	\$2.6784	\$0.0258	3/31/2026		
TGP		FT-A (Z4-Z6)	11234	932		\$6.9301		10/31/2025		
Peaking		Energy North	LNG/Propane****		19,855	-	\$43.9500	\$0.0000		
		Energy North	LNG/Propane****		14,931	-	\$56.2100	\$0.0000		X

* All gas transferred for storage contracts will be based on LDC's monthly WACOG

**All commodity volumes nominated will be invoiced at LDC's WACOG + fuel retention. Demand charge applicable for 6 months

Note All capacity will be released at maximum tariff rates. Above rates are maximum tariff rates effective 11/01/23. Because rates can change, please refer to the applicable pipeline tariff for current rates.

Above capacity is for all customers in the EnergyNorth Service territory with the exception of Berlin, NH. Any customers behind the Berlin citygate will be allocated 100% PNGTS capacity at a demand rate of \$18.2633 /dth.

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Docket 98-124 Gas Restructuring
Peaking Demand Rate
Peaking Costs

	Volume	Rate	Monthly Cost	Months/Year	Annual Cost
1					
2					
3					
4 Subtotal					\$ 1,350,000.00 *
5					
6 Total					\$ 1,350,000.00

* Effective November 2023

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Calculation of Capacity Allocators

1 Capacity Assignment Table

			Pipeline	% of Peak Day Requirement		Total
				Storage	Peaking	
6	G-41 LAHW	Low Annual C&I - High Winter Use	72.9%	17.7%	9.4%	100.0%
7	G-51 LALW	Low Annual C&I - Low Winter Use	80.1%	13.0%	6.9%	100.0%
8	G-42 MAHW	Medium C&I - High Winter Use	72.9%	17.7%	9.4%	100.0%
9	G-52 MALW	Medium C&I - Low Winter Use	80.1%	13.0%	6.9%	100.0%
10	G-43 HAHW	High Annual C&I - High Winter Use	72.9%	17.7%	9.4%	100.0%
11	G-53 HALW90	High Annual C&I - LF < 90%	80.1%	13.0%	6.9%	100.0%
12	G-54 HALWG90	High Annual C&I - LF > 90%	80.1%	13.0%	6.9%	100.0%

16 Allocation of Peak Day

18 Design Day Throughput Allocated to Rate Classes

20 Design DD 69.39

			Base Load	Heat Load	Total
22	HLF	R-1 RNSH	94	543	637
23	LLF	R-3 RSH	3,533	64,294	67,827
24	LLF	G-41 SL	839	28,879	29,718
25	HLF	G-51 SH	683	1,533	2,216
26	LLF	G-42 ML	1,541	36,607	38,147
27	HLF	G-52 MH	1,660	3,284	4,944
28	LLF	G-43 LL	832	10,835	11,667
29	HLF	G-53 LLL90	1,476	5,000	6,476
30	HLF	G-54 LLL90	684	449	1,134
31		TOTAL	11,340	151,424	162,764

33	HLF	4,596	10,809	15,405
34	LLF	6,744	140,615	147,359
35	Total	11,340	151,424	162,764

37 Allocate Class Design Day Throughput to Supply Sources

			Base Pipeline	Remaining Pipeline	Sub-total Pipeline	Storage	Peaking	Total
41	HLF	R-1 RNSH	94	389	483	101	54	637
42	LLF	R-3 RSH	3,533	46,017	49,550	11,938	6,340	67,827
43	LLF	G-41 SL	839	20,669	21,508	5,362	2,848	29,718
44	HLF	G-51 SH	683	1,097	1,780	285	151	2,216
45	LLF	G-42 ML	1,541	26,200	27,741	6,797	3,610	38,147
46	HLF	G-52 MH	1,660	2,350	4,010	610	324	4,944
47	LLF	G-43 LL	832	7,755	8,586	2,012	1,068	11,667
48	HLF	G-53 LLL90	1,476	3,578	5,054	928	493	6,476
49	HLF	G-54 LLL90	684	322	1,006	83	44	1,134
50		TOTAL	11,340	108,378	119,718	28,115	14,931	162,764

52	HLF	4,596	7,737	12,333	2,007	1,066	15,405
53	LLF	6,744	100,642	107,385	26,108	13,865	147,359
54	Total	11,340	108,378	119,718	28,115	14,931	162,764

56 % of Peak Day Requirement

			Pipeline	Storage	Peaking	Total
59	HLF	R-1 RNSH	75.8%	15.8%	8.4%	100.0%
60	LLF	R-3 RSH	73.1%	17.6%	9.3%	100.0%
61	LLF	G-41 SL	72.4%	18.0%	9.6%	100.0%
62	HLF	G-51 SH	80.3%	12.8%	6.8%	100.0%
63	LLF	G-42 ML	72.7%	17.8%	9.5%	100.0%
64	HLF	G-52 MH	81.1%	12.3%	6.6%	100.0%
65	LLF	G-43 LL	73.6%	17.2%	9.2%	100.0%
66	HLF	G-53 LLL90	78.1%	14.3%	7.6%	100.0%
67	HLF	G-54 LLL90	88.7%	7.4%	3.9%	100.0%
68		TOTAL	73.6%	17.3%	9.2%	100.0%

70	HLF	80.1%	13.0%	6.9%	100.0%
71	LLF	72.9%	17.7%	9.4%	100.0%
72	Total	73.6%	17.3%	9.2%	100.0%

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Calculation of Capacity Allocators

73 Allocate Design Day Sendout

74

75 Calculate Design Day Throughput (BBTU)

76

77 Design DD 69.39

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	Daily Baseload * 1000	Heating Factor * 1000	Heat Load Heating Factor * Design DD	Total
HLF R-1 RNSH	94	7.08	491	585
LLF R-3 RSH	3,533	838.00	58,149	61,682
LLF G-41 SL	839	376.40	26,119	26,957
HLF G-51 SH	683	19.98	1,386	2,069
LLF G-42 ML	1,541	477.13	33,108	34,649
HLF G-52 MH	1,660	42.80	2,970	4,630
LLF G-43 LL	832	141.22	9,799	10,631
HLF G-53 LLL90	1,476	65.16	4,522	5,998
HLF G-54 LLG90	684	5.86	406	1,091
TOTAL	11,340	1,974	136,951	148,291

89

HLF	4,596	141	9,776	14,372
LLF	6,744	1,833	127,175	133,918
Total	11,340	1,974	136,951	148,291

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Design Day from 2024-2025 COG	162,764
Design Day from Gas Load Calculation	148,291
Variance	14,473

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99 Allocate Design Day Sendout to Rate Classes

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	Baseload as a % of Total Class Load	Heat Load as a % of Total	Base Load	Heat Load	Total
HLF R-1 RNSH	16%	0.359%	94	543	637
LLF R-3 RSH	6%	42.460%	3,533	64,294	67,827
LLF G-41 SL	3%	19.072%	839	28,879	29,718
HLF G-51 SH	33%	1.012%	683	1,533	2,216
LLF G-42 ML	4%	24.175%	1,541	36,607	38,147
HLF G-52 MH	36%	2.169%	1,660	3,284	4,944
LLF G-43 LL	8%	7.155%	832	10,835	11,667
HLF G-53 LLL90	25%	3.302%	1,476	5,000	6,476
HLF G-54 LLG90	63%	0.297%	684	449	1,134
TOTAL		100.000%	11,340	151,424	162,764

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Calculation of Capacity Allocators

1 Calculation of Normal Sales Volumes

2
3 Actual Volumes

4 Total Core Sales Volumes (000's) MMBTU

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Total	Monthly Baseload (Jul+Aug)/2	Daily Baseload
HLF R-1 RNSH	8	9	10	9	8	6	4	3	3	3	3	4	70	2,905	0.094
LLF R-3 RSH	657	807	969	843	712	456	222	137	103	116	127	235	5,383	109,514	3.533
LLF G-41 SL	263	339	419	359	290	183	68	37	24	28	34	80	2,124	26,000	0.839
HLF G-51 SH	32	35	39	36	33	30	25	22	20	22	21	24	340	21,161	0.683
LLF G-42 ML	368	445	527	461	389	274	115	65	45	51	64	135	2,939	47,759	1.541
HLF G-52 MH	78	85	95	86	82	71	59	53	49	54	53	60	823	51,448	1.660
LLF G-43 LL	119	135	169	147	129	93	53	32	24	27	31	58	1,018	25,782	0.832
HLF G-53 LLL90	68	68	77	67	65	77	58	53	43	48	47	55	725	45,752	1.476
HLF G-54 LLL90	25	21	28	24	22	21	22	18	21	21	20	24	267	21,215	0.684
TOTAL	1,617	1,944	2,333	2,030	1,729	1,211	627	419	332	371	400	675	13,689	351,534	11.340

HLF	210	217	248	221	210	205	168	149	136	149	143	168	2,225	142,479	4.596
LLF	1,407	1,726	2,084	1,809	1,520	1,006	458	270	196	222	256	508	11,464	209,055	6.744

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22 Baseload (= the lesser of actual volumes or the average of July and August volumes)

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Total
HLF R-1 RNSH	30	31	31	28	31	30	31	30	31	31	30	31	365
LLF R-3 RSH	3	3	3	3	3	3	3	3	3	3	3	3	34
LLF G-41 SL	106	110	110	99	110	106	110	106	103	116	106	110	1,289
HLF G-51 SH	25	26	26	23	26	25	26	25	24	28	25	26	306
HLF G-51 SH	20	21	21	19	21	20	21	20	20	22	20	21	249
LLF G-42 ML	46	48	48	43	48	46	48	46	45	51	46	48	562
HLF G-52 MH	50	51	51	46	51	50	51	50	49	54	50	51	606
LLF G-43 LL	25	26	26	23	26	25	26	25	24	27	25	26	304
HLF G-53 LLL90	44	46	46	41	46	44	46	44	43	48	44	46	539
HLF G-54 LLL90	21	21	21	19	21	21	21	18	21	21	20	21	250
TOTAL	340	351	352	318	352	340	352	338	332	371	339	352	4,139

HLF	138	142	142	129	142	138	142	136	136	149	137	142	1,678
LLF	202	209	209	189	209	202	209	202	196	222	202	209	2,461

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40
41 Heating Volumes (= Actual Volumes - Baseload)

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Total
HLF R-1 RNSH	5	6	7	6	5	3	1	1	0	0	0	1	35
LLF R-3 RSH	551	697	859	744	602	350	112	31	0	0	21	125	4,094
LLF G-41 SL	238	313	393	335	264	158	42	11	0	0	9	54	1,818
HLF G-51 SH	11	14	18	16	12	10	4	2	0	0	1	3	91
LLF G-42 ML	322	397	480	417	342	228	68	19	0	0	18	88	2,377
HLF G-52 MH	28	34	43	39	30	21	7	3	0	0	3	9	217
LLF G-43 LL	95	110	143	124	103	68	27	7	0	0	6	32	714
HLF G-53 LLL90	24	22	31	26	19	32	12	8	0	0	2	10	187
HLF G-54 LLL90	4	0	6	5	1	0	1	0	0	0	0	3	17
TOTAL	1,277	1,592	1,981	1,713	1,378	871	275	81	0	0	60	324	9,550

HLF	72	75	106	93	67	67	26	13	0	0	6	25	547
LLF	1,205	1,517	1,875	1,620	1,311	804	249	68	0	0	54	299	9,002

Actual HDD	762	832	1,077	915	728	497	150	79	0	2	82	271	5,395
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Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Peak 2024 – 2025 Winter Cost of Gas Filing
Calculation of Capacity Allocators

59 Heat Factors

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Max	AVG	Max Peak	AVG Peak	
61																	
62	HLF R-1 RNSH	0.0062	0.0068	0.0064	0.0067	0.0071	0.0067	0.0099	0.0073	0.0000	0.0000	0.0036	0.0041	0.0071	0.0054	0.0071	0.0066
63	LLF R-3 RSH	0.7234	0.8380	0.7978	0.8127	0.8275	0.7048	0.7486	0.3869	0.0000	0.0000	0.2597	0.4630	0.8275	0.5469	0.8380	0.7841
64	LLF G-41 SL	0.3119	0.3764	0.3654	0.3664	0.3625	0.3178	0.2808	0.1455	0.0000	0.0000	0.1121	0.1986	0.3664	0.2365	0.3764	0.3501
65	HLF G-51 SH	0.0145	0.0169	0.0169	0.0180	0.0167	0.0200	0.0267	0.0192	0.0000	0.0000	0.0116	0.0097	0.0180	0.0142	0.0200	0.0171
66	LLF G-42 ML	0.4220	0.4771	0.4453	0.4563	0.4693	0.4578	0.4514	0.2351	0.0000	0.0000	0.2181	0.3234	0.4693	0.3296	0.4771	0.4546
67	HLF G-52 MH	0.0372	0.0403	0.0400	0.0427	0.0413	0.0428	0.0497	0.0351	0.0000	0.0000	0.0336	0.0322	0.0427	0.0329	0.0428	0.0407
68	LLF G-43 LL	0.1241	0.1318	0.1328	0.1351	0.1412	0.1369	0.1821	0.0943	0.0000	0.0000	0.0690	0.1177	0.1412	0.1054	0.1412	0.1337
69	HLF G-53 LLL90	0.0310	0.0265	0.0291	0.0281	0.0263	0.0652	0.0803	0.1064	0.0000	0.0000	0.0272	0.0354	0.0291	0.0380	0.0652	0.0344
70	HLF G-54 LLL90	0.0059	0.0000	0.0058	0.0057	0.0009	0.0007	0.0053	0.0000	0.0000	0.0000	0.0000	0.0113	0.0058	0.0030	0.0059	0.0032
71	TOTAL	1.6762	1.9138	1.8395	1.8717	1.8928	1.7527	1.8349	1.0298	0.0000	0.0000	0.7348	1.1953	1.9072	1.3118	1.9736	1.8245

72																
73	Actual HDD	762	832	1,077	915	728	497	150	79	0	2	82	271	5,395		
74	Normal HDD	717	1,044	1,220	1,041	896	516	231	49	5	8	101	405	6,233		

75
76
77 Normal Volumes (= Heating Volumes * Normal HDD/Actual HDD + Baseload)

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Total
78													
79	HLF R-1 RNSH	7	10	11	10	9	6	5	3	3	3	5	75
80	LLF R-3 RSH	625	984	1,083	945	851	470	282	125	103	116	132	297
81	LLF G-41 SL	249	419	472	405	351	189	91	32	24	28	36	106
82	HLF G-51 SH	31	39	42	38	36	31	27	21	20	22	25	354
83	LLF G-42 ML	349	546	591	518	468	282	152	58	45	51	68	179
84	HLF G-52 MH	76	94	100	91	88	72	63	52	49	54	53	857
85	LLF G-43 LL	114	163	188	164	152	96	68	30	24	27	32	73
86	HLF G-53 LLL90	67	73	81	71	69	78	64	49	43	48	47	60
87	HLF G-54 LLL90	25	21	28	25	22	21	22	18	21	20	26	270
88	TOTAL	1,542	2,349	2,596	2,266	2,047	1,245	775	388	332	371	414	836
89													
90													
91	HLF	206	237	262	234	225	208	182	144	136	149	145	180
92	LLF	1,336	2,113	2,333	2,032	1,822	1,037	593	245	196	222	269	656

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Demand Costs, Volumes and Rates

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Demand Costs

Reference	EST May-25	EST Jun-25	EST Jul-25	EST Aug-25	EST Sep-25	EST Oct-25	Total
(a)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
1 Pipeline Demand							
2 Iroquois Gas Trans Service RTS 470-0	In 36 * In 57	\$ 17,369	\$ 17,369	\$ 17,369	\$ 17,369	\$ 17,369	\$ 104,213
3 Tenn Gas Pipeline 95346 Z5-Z6	In 37 * In 58	23,880	23,880	23,880	23,880	23,880	143,282
4 Tenn Gas Pipeline 2302 Z5-Z6	In 38 * In 59	18,639	18,639	18,639	18,639	18,639	111,832
5 Tenn Gas Pipeline 8587 Z0-Z6	In 39 * In 60	135,803	135,803	135,803	135,803	135,803	814,818
6 Tenn Gas Pipeline 8587 Z1-Z6	In 40 * In 61	249,557	249,557	249,557	249,557	249,557	1,497,340
7 Tenn Gas Pipeline 8587 Z4-Z6	In 41 * In 62	25,888	25,888	25,888	25,888	25,888	155,326
8 Tenn Gas Pipeline (Dracut) 42076 Z6-Z6	In 42 * In 63						
9 Tenn Gas Pipeline (Dracut) 358905 Z6-Z6	In 43 * In 64						
10 Tenn Gas Pipeline (Concord Lateral) Z6-Z6	In 44 * In 65						
11 Portland Natural Gas (C2C)	In 45 * In 66						
12 Portland Natural Gas (PXP)	In 46 * In 67						
13 Enbridge Gas M12200 (C2C)	In 47 * In 68	12,283	12,283	12,283	12,283	12,283	73,698
14 Enbridge Gas M12284 (PXP)	In 48 * In 69	15,216	15,216	15,216	15,216	15,216	91,294
15 TransCanada Pipeline 41232 (IRO)	In 49 * In 70	39,297	39,297	39,297	39,297	39,297	235,780
16 TransCanada Pipeline 64195 (PXP)	In 50 * In 71	76,835	76,835	76,835	76,835	76,835	461,011
17 Tenn Gas Pipeline Z4-Z6 stg 632	In 51 * In 72	103,694	103,694	103,694	103,694	103,694	622,162
18 Tenn Gas Pipeline Z4-Z6 stg 11234	In 52 * In 73	48,107	48,107	48,107	48,107	48,107	288,644
19 Tenn Gas Pipeline Z5-Z6 stg 11234	In 53 * In 74	11,683	11,683	11,683	11,683	11,683	70,101
20 National Fuel FST 2358	In 54 * In 75	37,411	37,411	37,411	37,411	37,411	224,467
21 Subtotal Pipeline Demand Charges		\$ 1,552,456	\$ 1,552,456	\$ 1,552,456	\$ 1,552,456	\$ 1,552,456	\$ 9,314,737
22							
23 Seasonal Allocation - % allocated to Off-Peak		20%	20%	20%	20%	20%	
24							
25 Off-Peak Total	In 21 * In 23	\$ 312,730	\$ 312,730	\$ 312,730	\$ 312,730	\$ 312,730	\$ 1,876,382
26							
27 Peak Subtotal	In 21 - In 25	\$ 1,239,726	\$ 1,239,726	\$ 1,239,726	\$ 1,239,726	\$ 1,239,726	\$ 7,438,355
28							
29 Total Demand Charges	In 25	\$ 312,730	\$ 312,730	\$ 312,730	\$ 312,730	\$ 312,730	\$ 1,876,382
30							
31 Capacity Credit Adjustment Factor		-35.49%	-35.49%	-35.49%	-35.49%	-35.49%	
32 Less Transportation Capacity Credit	In 29 * In 31	\$ (110,988)	\$ (110,988)	\$ (110,988)	\$ (110,988)	\$ (110,988)	\$ (665,928)
33							
34 Total Demand Charges less Cap. Cr.	In 29 + In 32	\$ 201,742	\$ 201,742	\$ 201,742	\$ 201,742	\$ 201,742	\$ 1,210,454

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Demand Volumes

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Reference	EST May-25	EST Jun-25	EST Jul-25	EST Aug-25	EST Sep-25	EST Oct-25	Total
(a)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
35 Pipeline Demand							
36 Iroquois Gas Trans Service RTS 470-0	4,047	4,047	4,047	4,047	4,047	4,047	24,282
37 Tenn Gas Pipeline 95346 Z5-Z6	4,000	4,000	4,000	4,000	4,000	4,000	24,000
38 Tenn Gas Pipeline 2302 Z5-Z6	3,122	3,122	3,122	3,122	3,122	3,122	18,732
39 Tenn Gas Pipeline 8587 Z0-Z6	7,035	7,035	7,035	7,035	7,035	7,035	42,210
40 Tenn Gas Pipeline 8587 Z1-Z6	14,561	14,561	14,561	14,561	14,561	14,561	87,366
41 Tenn Gas Pipeline 8587 Z4-Z6	3,811	3,811	3,811	3,811	3,811	3,811	22,866
42 Tenn Gas Pipeline (Dracut) 42076 Z6-Z6							
43 Tenn Gas Pipeline (Dracut) 358905 Z6-Z6							
44 Tenn Gas Pipeline (Concord Lateral) Z6-Z6							
45 Portland Natural Gas (C2C)							
46 Portland Natural Gas (PXP)							
47 Enbridge Gas M12200 (C2C)	4,092	4,092	4,092	4,092	4,092	4,092	24,552
48 Enbridge Gas M12284 (PXP)	5,069	5,069	5,069	5,069	5,069	5,069	30,414
49 TransCanada Pipeline 41232 (IRO)	4,047	4,047	4,047	4,047	4,047	4,047	24,282
50 TransCanada Pipeline 64195 (PXP)	5,009	5,009	5,009	5,009	5,009	5,009	30,054
51 Tenn Gas Pipeline Z4-Z6 stg 632	15,265	15,265	15,265	15,265	15,265	15,265	91,590
52 Tenn Gas Pipeline Z4-Z6 stg 11234	7,082	7,082	7,082	7,082	7,082	7,082	42,492
53 Tenn Gas Pipeline Z5-Z6 stg 11234	1,957	1,957	1,957	1,957	1,957	1,957	11,742
54 National Fuel FST 2358	6,098	6,098	6,098	6,098	6,098	6,098	36,588
55 Total Demand Volumes	181,195	181,195	181,195	181,195	181,195	181,195	1,087,170

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Firm Transportation Rates (Per Month)

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Reference	31 EST May-25	30 EST Jun-25	31 EST Jul-25	31 EST Aug-25	30 EST Sep-25	31 EST Oct-25	Total
(a)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
56 Pipeline Demand							
57 Iroquois Gas Trans Service RTS 470-0	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	\$ 4.2918	
58 Tenn Gas Pipeline 95346 Z5-Z6	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	
59 Tenn Gas Pipeline 2302 Z5-Z6	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	
60 Tenn Gas Pipeline 8587 Z0-Z6	19.3039	19.3039	19.3039	19.3039	19.3039	19.3039	
61 Tenn Gas Pipeline 8587 Z1-Z6	17.1387	17.1387	17.1387	17.1387	17.1387	17.1387	
62 Tenn Gas Pipeline 8587 Z4-Z6	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	
63 Tenn Gas Pipeline (Dracut) 42076 Z6-Z6							
64 Tenn Gas Pipeline (Dracut) 358905 Z6-Z6							
65 Tenn Gas Pipeline (Concord Lateral) Z6-Z6							
66 Portland Natural Gas (C2C)							
67 Portland Natural Gas (PXP)							
68 Enbridge Gas M12200 (C2C)	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	
69 Enbridge Gas M12284 (PXP)	3.0017	3.0017	3.0017	3.0017	3.0017	3.0017	
70 TransCanada Pipeline 41232 (IRO)	9.7101	9.7101	9.7101	9.7101	9.7101	9.7101	
71 TransCanada Pipeline 64195 (PXP)	15.3394	15.3394	15.3394	15.3394	15.3394	15.3394	
72 Tenn Gas Pipeline Z4-Z6 stg 632	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	
73 Tenn Gas Pipeline Z4-Z6 stg 11234	6.7929	6.7929	6.7929	6.7929	6.7929	6.7929	
74 Tenn Gas Pipeline Z5-Z6 stg 11234	5.9701	5.9701	5.9701	5.9701	5.9701	5.9701	
75 National Fuel FST 2358	6.1350	6.1350	6.1350	6.1350	6.1350	6.1350	

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

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For Month of: (a)	Reference (b)	EST May-25 (c)	EST Jun-25 (d)	EST Jul-25 (e)	EST Aug-25 (f)	EST Sep-25 (g)	EST Oct-25 (h)	Total (i)
Supply and Commodity Costs								
1 Pipeline Gas:								
2	Dawn Iroquois Supply	In 41 * In 67						
3	Dawn PXP Supply	In 42 * In 72						
4	Niagara Supply	In 43 * In 77						
5	TGP Supply (Gulf)	In 44 * In 82						
6	TGP Supply (Z4)	In 45 * In 87						
7	PNGTS - Berlin	In 46 * In 92						
8	Dracut Baseload	In 47 * In 97						
9	Dracut Swing 1	In 48 * In 102						
10	Dracut Swing 2	In 49 * In 107						
11	LNG Truck	In 50 * In 109						
12	Propane Truck	In 51 * In 111						
13								
14	Subtotal Pipeline Gas Costs							
15								
16 Volumetric Transportation Costs								
17	Dawn Iroquois Supply	In 41 * In 132						
18	Dawn PXP Supply	In 42 * In 150						
19	Niagara Supply	In 43 * In 160						
20	TGP Supply (Gulf)	In 44 * In 170						
21	TGP Supply (Z4)	In 45 * In 178						
22	PNGTS - Berlin	In 46 * In 188						
23	Dracut Baseload	In 47 * In 193						
24	Dracut Swing 1	In 48 * In 203						
25	Dracut Swing 2	In 49 * In 107						
26								
27	Total Volumetric Transportation Costs							
28								
29	Less - Gas Refill:							
30	LNG Truck - Refills	In 56 * In 114						
31	Propane - Refills	In 57 * In 115						
32	TGP Storage Refill	In 58 * In 116						
33								
34	Subtotal Refills							
35								
36	Total Supply & Pipeline Commodity Costs	In 14 + In 27 + In 34						
37								
38	AMA Credits							
39	Total Commodity Gas & Trans. Costs	In 36 + In 38						

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
 Off-Peak 2025 Summer Cost of Gas Filing
 Supply and Commodity Costs, Volumes and Rates

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For Month of: (a)	Reference (b)	EST May-25 (c)	EST Jun-25 (d)	EST Jul-25 (e)	EST Aug-25 (f)	EST Sep-25 (g)	EST Oct-25 (h)	Total (i)
Volumes (Therms)								
40	Pipeline Gas:							
41	Dawn Iroquois Supply							
42	Dawn PXP Supply							
43	Niagara Supply							
44	TGP Supply (Gulf)							
45	TGP Supply (Z4)							
46	PNGTS - Berlin							
47	Dracut Baseload							
48	Dracut Swing 1							
49	Dracut Swing 2							
50	LNG Truck							
51	Propane Truck							
52								
53	Subtotal Pipeline Volumes							
54								
55	Less - Gas Refill:							
56	LNG Truck							
57	Propane							
58	TGP Storage Refill							
59								
60	Subtotal Refills							
61								
62	Total Sendout Volumes							

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

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For Month of: (a)	Reference (b)	EST May-25 (c)	EST Jun-25 (d)	EST Jul-25 (e)	EST Aug-25 (f)	EST Sep-25 (g)	EST Oct-25 (h)	Peak Nov- Apr (i)
Supply Costs								
63 Pipeline Gas:								
64 Dawn Iroquois Supply								Average Rate
65 NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
66 Basis Differential		\$ (0.3100)	\$ (0.4200)	\$ (0.4500)	\$ (0.4800)	\$ (0.5800)	\$ (0.5750)	(\$0.4692)
67 Net Commodity Costs		\$ 2.6570	\$ 2.7060	\$ 2.8540	\$ 2.8640	\$ 2.7270	\$ 2.7940	\$2.7670
68								
69 Dawn PXP Supply								
70 NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
71 Basis Differential		\$ (0.3100)	\$ (0.4200)	\$ (0.4500)	\$ (0.4800)	\$ (0.5800)	\$ (0.5750)	(\$0.4692)
72 Net Commodity Costs		\$ 2.6570	\$ 2.7060	\$ 2.8540	\$ 2.8640	\$ 2.7270	\$ 2.7940	\$2.7670
73								
74 Niagara Supply								
75 NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
76 Basis Differential		\$ (0.3400)	\$ (0.4500)	\$ (0.4800)	\$ (0.5100)	\$ (0.6100)	\$ (0.6050)	(\$0.4992)
77 Net Commodity Costs		\$ 2.6270	\$ 2.6760	\$ 2.8240	\$ 2.8340	\$ 2.6970	\$ 2.7640	\$2.7370
78								
79 TGP Supply (Gulf)								
80 Commodity Costs - NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
81 Basis Differential		\$ (0.0472)	\$ (0.0193)	\$ (0.0061)	\$ (0.0315)	\$ (0.1021)	\$ (0.1826)	(\$0.0648)
82 Net Commodity Costs		\$ 2.9198	\$ 3.1067	\$ 3.2979	\$ 3.3125	\$ 3.2049	\$ 3.1865	\$3.1714
83								
84 TGP Supply (Z4)								
85 Commodity Costs - NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
86 Basis Differential		\$ (0.5375)	\$ (0.7250)	\$ (0.7300)	\$ (0.8150)	\$ (1.1300)	\$ (1.2150)	(\$0.8588)
87 Net Commodity Costs		\$ 2.4295	\$ 2.4010	\$ 2.5740	\$ 2.5290	\$ 2.1770	\$ 2.1540	\$2.3774
88								
89 PNGTS - Berlin								
90 Commodity Costs - NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
91 Basis Differential		\$ (0.1750)	\$ (0.1600)	\$ 0.2275	\$ 0.0375	\$ (0.7550)	\$ (0.6900)	(\$0.2525)
92 Net Commodity Costs		\$ 2.7920	\$ 2.9660	\$ 3.5315	\$ 3.3815	\$ 2.5520	\$ 2.6790	\$2.9837
93								
94 Dracut Baseload								
95 NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
96 Basis Differential		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.0000
97 Net Commodity Costs		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
98								
99 Dracut Swing 1								
100 NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
101 Basis Differential		\$ (0.2250)	\$ (0.2100)	\$ 0.1775	\$ (0.0125)	\$ (0.8050)	\$ (0.7400)	(\$0.3025)
102 Net Commodity Cost		\$ 2.7420	\$ 2.9160	\$ 3.4815	\$ 3.3315	\$ 2.5020	\$ 2.6290	\$2.9337
103								
104 Dracut Swing 2								
105 NYMEX Price		\$ 2.9670	\$ 3.1260	\$ 3.3040	\$ 3.3440	\$ 3.3070	\$ 3.3690	\$3.2362
106 Basis Differential		\$ (0.2250)	\$ (0.2100)	\$ 0.1775	\$ (0.0125)	\$ (0.8050)	\$ (0.7400)	(\$0.3025)
107 Net Commodity Cost		\$ 2.7420	\$ 2.9160	\$ 3.4815	\$ 3.3315	\$ 2.5020	\$ 2.6290	\$2.9337
108								
109 LNG Truck		\$ 11.5000	\$ 11.5000	\$ 11.5000	\$ 11.5000	\$ 11.5000	\$ 11.5000	\$11.5000
110								
111 Propane Truck		\$ 13.7200	\$ 13.7200	\$ 13.7200	\$ 13.7200	\$ 13.7200	\$ 13.7200	\$13.7200
112								
113 Storage Refill:								
114 LNG Truck - Refills	In 109							
115 Propane - Refills	In 111							
116 TGP Storage Refill	Sch 16, In 15							

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

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For Month of: (a)	Reference (b)	EST May-25 (c)	EST Jun-25 (d)	EST Jul-25 (e)	EST Aug-25 (f)	EST Sep-25 (g)	EST Oct-25 (h)	Peak Nov- Apr (i)
Commodity Costs								
Per Unit Volumetric Transportation Rates								Average Rate
117 Dawn Iroquois Supply								
118								
119	Iroquois RTS 470-0 - Commodity (Daily) Zone 1 + ACA	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.00480	\$0.0048
120	TGP 95346 Z5-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.0731
121	Enbridge Gas M12200 (C2C) - FT (IRO) Carbon Charge	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.0031
122	TransCanada Pipeline 64195 (PXP) - Commodity	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.0000
123	Total In 119 + In 120 + In 121 + In 122	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.08101	\$0.0810
124								
125	Commodity Costs In 67	\$2.6570	\$2.7060	\$2.8540	\$2.8640	\$2.7270	\$2.7940	\$2.7670
126	Iroquois RTS 470-0 - Fuel Charge %	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%	-0.50%
127	TGP 95346 Z5-Z6 - Fuel Charge %	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%
128	Enbridge Gas M12200 (C2C) - Fuel Charge %	1.14%	1.14%	1.14%	1.14%	1.14%	1.14%	1.14%
129	TransCanada Pipeline 64195 (PXP) - Fuel Charge %	1.37%	1.37%	1.37%	1.37%	1.37%	1.37%	1.37%
130	Total In 126 + In 127 + In 128 + In 129	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%
131	Fuel Charge In 125 x In 130	\$0.07166	\$0.07298	\$0.07697	\$0.07724	\$0.07355	\$0.07535	\$0.07463
132	Total Volumetric Transportation Rate In 123 + In 131	\$0.15267	\$0.15399	\$0.15798	\$0.15825	\$0.15455	\$0.15636	\$0.15563
133								
134								
135 Dawn PXP Supply								
136								
137	TGP (Dracut) 42076 Z6-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.0311
138	Portland Natural Gas #233320 (PXP) - ACA	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.0014
139	Enbridge Gas M12284 (PXP) - Carbon Charge	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.00311	\$0.0031
140	TransCanada Pipeline 64195 (PXP) - Commodity	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.0000
141	Total In 137 + In 138 + In 139 + In 140	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.03561	\$0.0356
142								
143	Commodity Costs In 72	\$2.6570	\$2.7060	\$2.8540	\$2.8640	\$2.7270	\$2.7940	\$2.7670
144	TGP (Dracut) 42076 Z6-Z6 - Fuel Charge %	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
145	Portland Natural Gas #233320 (PXP) - Fuel Charge %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
146	Enbridge Gas M12284 (PXP) - Fuel Charge %	1.14%	1.14%	1.14%	1.14%	1.14%	1.14%	1.14%
147	TransCanada Pipeline 64195 (PXP) - Fuel Charge %	1.37%	1.37%	1.37%	1.37%	1.37%	1.37%	1.37%
148	Total In 144 + In 145 + In 146 + In 147	2.54%	2.54%	2.54%	2.54%	2.54%	2.54%	2.54%
149	Fuel Charge In 143 x In 148	\$0.06741	\$0.06865	\$0.07241	\$0.07266	\$0.06918	\$0.07088	\$0.07020
150	Total Volumetric Transportation Rate In 141 + In 149	\$0.10302	\$0.10426	\$0.10801	\$0.10827	\$0.10479	\$0.10649	\$0.10581
151								
152								
153 Niagara Supply								
154								
155	TGP 2302 Z5-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.07310	\$0.0731
156								
157	Commodity Costs In 77	\$2.6270	\$2.6760	\$2.8240	\$2.8340	\$2.6970	\$2.7640	\$2.7370
158	TGP 2302 Z5-Z6 - Fuel Charge %	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%	0.69%
159	Fuel Charge In 157 x In 158	\$0.01813	\$0.01846	\$0.01949	\$0.01955	\$0.01861	\$0.01907	\$0.01889
160	Total Volumetric Transportation Rate In 155 + In 159	\$0.09123	\$0.09156	\$0.09259	\$0.09265	\$0.09171	\$0.09217	\$0.09199
161								
162								
163 TGP Supply (Gulf)								
164								
165	TGP 8587 Z0-Z6 - Base Cmdy + EPCR + ACA+ PS/GHG	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.28110	\$0.2811
166								
167	Commodity Costs In 82	\$2.9198	\$3.1067	\$3.2979	\$3.3125	\$3.2049	\$3.1865	\$3.1714
168	TGP 8587 Z0-Z6 - Fuel Charge %	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%	3.63%
169	Fuel Charge In 167 x In 168	\$0.10599	\$0.11277	\$0.11971	\$0.12024	\$0.11634	\$0.11567	\$0.11512
170	Total Volumetric Transportation Rate In 165 + In 169	\$0.38709	\$0.39387	\$0.40081	\$0.40134	\$0.39744	\$0.39677	\$0.39622

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Supply and Commodity Costs, Volumes and Rates

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For Month of: (a)	Reference (b)	EST May-25 (c)	EST Jun-25 (d)	EST Jul-25 (e)	EST Aug-25 (f)	EST Sep-25 (g)	EST Oct-25 (h)	Peak Nov- Apr (i)
Commodity Costs								
Per Unit Volumetric Transportation Rates								Average Rate
171	TGP Supply (Z4)							
172								
173	TGP 8587 Z4-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.09610	\$0.0961
174								
175	Commodity Costs In 87	\$2.4295	\$2.4010	\$2.5740	\$2.5290	\$2.1770	\$2.1540	\$2.3774
176	TGP 8587 Z4-Z6 - Fuel Charge %	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%
177	Fuel Charge In 175 x In 176	\$0.02357	\$0.02329	\$0.02497	\$0.02453	\$0.02112	\$0.02089	\$0.02306
178	Total Volumetric Transportation Rate In 173 + In 177	\$0.11967	\$0.11939	\$0.12107	\$0.12063	\$0.11722	\$0.11699	\$0.11916
179								
180								
181	PNGTS - Berlin							
182								
183	Portland Natural Gas #208544 (C2C) - ACA	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.0014
184								
185	Commodity Costs In 92	\$2.7920	\$2.9660	\$3.5315	\$3.3815	\$2.5520	\$2.6790	\$2.9837
186	Portland Natural Gas #208544 (C2C) - Fuel Charge %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
187	Fuel Charge In 185 x In 186	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
188	Total Volumetric Transportation Rate In 183 + In 187	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140	\$0.00140
189								
190	Dracut Baseload							
191								
192	Commodity Costs In 97	\$2.9670	\$3.1260	\$3.3040	\$3.3440	\$3.3070	\$3.3690	\$3.2362
193	Total Volumetric Transportation Rate In 192	\$2.96700	\$3.12600	\$3.30400	\$3.34400	\$3.30700	\$3.36900	\$3.23617
194								
195								
196	Dracut Swing 1							
197								
198	TGP (Dracut) 358905 Z6-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.0311
199								
200	Commodity Costs In 102	\$2.7420	\$2.9160	\$3.4815	\$3.3315	\$2.5020	\$2.6290	\$2.9337
201	TGP (Dracut) 358905 Z6-Z6 - Fuel Charge %	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
202	Fuel Charge In 200 x In 201	\$0.00082	\$0.00087	\$0.00104	\$0.00100	\$0.00075	\$0.00079	\$0.00088
203	Total Volumetric Transportation Rate In 198 + In 202	\$0.03192	\$0.03197	\$0.03214	\$0.03210	\$0.03185	\$0.03189	\$0.03198
204								
205								
206	Dracut Swing 2							
207								
208	TGP (Concord Lateral) Z6-Z6 - Base Cmdy + EPCR + ACA + PS/GHG	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.03110	\$0.0311
209								
210	Commodity Costs In 107	\$2.7420	\$2.9160	\$3.4815	\$3.3315	\$2.5020	\$2.6290	\$2.9337
211	TGP (Concord Lateral) Z6-Z6 - Fuel Charge %	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%
212	Fuel Charge In 210 x In 211	\$0.00082	\$0.00087	\$0.00104	\$0.00100	\$0.00075	\$0.00079	\$0.00088
213	Total Volumetric Transportation Rate In 208 + In 212	\$0.03192	\$0.03197	\$0.03214	\$0.03210	\$0.03185	\$0.03189	\$0.03198

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Capacity Assignment Calculations 2024-2025
Derivation of Class Assignments, Weightings and Correction Factor

Basic assumptions:

- 1 Residential class pays average seasonal gas cost rate (using MBA method to allocate costs to seasons)
- 2 Residual gas costs are allocated to C&I HLF and LLF classes based on MBA method
- 3 The MBA method allocates capacity costs based on design day demands in two pieces:
 - a The base use portion of the class design day demand based on base use
 - b The remaining portion of design day demand based on remaining design day demand
- 4 Base demand is composed solely of pipeline supplies
- 5 Remaining demand consists of a portion of pipeline and all storage and peaking supplies

	Design Day Demand, Dth (a)	Adjusted Design Day Demand, Dth (b)	Percent of Total (c)	Percent of C&I (d)	Avg Daily Base Use Load, Dth (e)	Percent of C&I (f)	Remaining Design Day Demand, Dth (g)	Percent of C&I (h)
1		633	0.4%		94		539	
2		67,357	41.4%		3,533		63,824	
3		67,990	41.8%		3,627		64,363	
4								
5		29,507	18.1%	31.1%	839	11.5%	28,668	32.8%
6		2,204	1.4%	2.3%	683	9.4%	1,521	1.7%
7		38,051	23.4%	40.2%	1,448	19.8%	36,603	41.8%
8		69,762	42.9%	73.6%	2,970	40.7%	66,792	76.4%
9								
10		5,253	3.2%	5.5%	1,567	21.5%	3,686	4.2%
11		11,688	7.2%	12.3%	787	10.8%	10,901	12.5%
12		6,747	4.1%	7.1%	1,390	19.0%	5,357	6.1%
13		1,323	0.8%	1.4%	588	8.1%	735	0.8%
14		25,011	15.4%	26.4%	4,332	59.3%	20,679	23.6%
15		94,773	58.2%	100.0%	7,302	100.0%	87,471	100.0%
16								
17		162,763	100.0%		10,929		151,834	
18								

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Capacity Assignment Calculations 2024-2025
Derivation of Class Assignments, Weightings and Correction Factor

	Capacity Cost (a)	MDG, Dth (b)	\$/Dth-Mo. (c)	
Pipeline - Baseload	1463152.662	10,929	\$ 11.1565	
Pipeline - Remaining	\$ 14,564,489	108,789	\$ 11.1565	
Pipeline Total	\$ 16,027,642	119,718	\$ 11.1565	
Storage	\$ 4,094,776	28,115	\$ 12.1370	
Peaking				
Total	\$ 21,472,418	162,764	\$ 10.9936	
Residential Allocation				
Pipeline - Baseload	\$ 611,188	4,565	\$ 11.1565	
Pipeline - Remaining	\$ 6,083,863	45,443	\$ 11.1565	
Storage	\$ 1,710,472	11,744	\$ 12.1370	
Peaking				
Total	\$ 8,969,449	67,990	\$ 10.9936	
C&I Allocation				Ratios for COG
Pipeline - Baseload	\$ 851,965	6,364	\$ 11.1565	
Pipeline - Remaining	\$ 8,480,626	63,346	\$ 11.1565	
Storage	\$ 2,384,304	16,371	\$ 12.1370	
Peaking				
Total	\$ 12,502,969	94,774	\$ 10.9936	1.0000
LLF - C&I Allocation				
Pipeline - Baseload	\$ 346,528	2,588	\$ 11.1565	
Pipeline - Remaining	\$ 6,475,721	48,370	\$ 11.1565	
Storage	\$ 1,820,630	12,501	\$ 12.1370	
Peaking				
Total	\$ 9,243,118	70,098	\$ 10.9884	0.9995
HLF - C&I Allocation				
Pipeline - Baseload	\$ 505,437	3,775	\$ 11.1565	
Pipeline - Remaining	\$ 2,004,905	14,976	\$ 11.1565	
Storage	\$ 563,674	3,870	\$ 12.1370	
Peaking				
Total	\$ 3,259,851	24,676	\$ 11.0086	1.0014
Unit Cost				
Pipeline	\$ 11.1565	\$ 11.1565	\$ 11.1565	
Storage	\$ 12.1370	\$ 12.1370	\$ 12.1370	
Peaking				
Total	\$ 10.9936	\$ 10.9936	\$ 10.9936	
Load Makeup				
Pipeline	73.55%	72.70%	75.99%	
Storage	17.27%	17.83%	15.68%	
Peaking				
Total	100.00%	100.00%	100.00%	
Supply Makeup				
Pipeline	41.77%	42.57%	15.66%	100.00%
Storage	41.77%	44.46%	13.77%	100.00%
Peaking				100.00%

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Correction Factor Calculation

		May (a)	June (b)	July (c)	August (d)	September (e)	October (f)	Total Sales (g)
84	G-41	647,283	247,705	182,380	219,642	306,852	911,876	2,515,738
85	G-42	596,813	252,611	189,820	234,086	304,274	813,450	2,391,054
86	G-43	260,370	115,571	97,554	126,246	155,207	382,953	1,137,901
87	High Winter Use	1,504,466	615,887	469,754	579,974	766,333	2,108,279	6,044,693
88								
89	G-51	191,960	163,725	163,817	158,238	150,012	176,690	1,004,442
90	G-52	213,501	181,705	177,982	182,107	166,553	204,017	1,125,865
91	G-53	294,482	259,770	253,690	262,452	273,240	332,935	1,676,569
92	G-54	79,196	29,765	31,362	30,918	29,507	36,774	237,522
93	Low Winter Use	779,139	634,965	626,851	633,715	619,312	750,416	4,044,398
94								
95	Total	2,283,605	1,250,852	1,096,605	1,213,689	1,385,645	2,858,695	10,089,091
96								
97								
98	Total Sales							10,089,091
99	Low Winter Use							4,044,398
100	Summer Ratio for Low Winter Use							1.0014
101	High Winter Use							6,044,693
102	Summer Ratio for High Winter Use							0.9995
103								
104	Correction Factor = Total Sales/((Low Winter Use x Summer Ratio for Low Winter Use)+(High Winter Use x Summer Ratio for High Winter Use))							
105	Correction Factor =							99.9738%
106								
107	Allocation Calculation for Miscellaneous Overhead							
108								
109	Projected Summer Sales Volume					5/1/2025 - 10/31/2025		22,422,719
110	Projected Annual Sales Volume					11/1/2024 - 10/31/2025		111,310,891
111	Percentage of Summer Sales to Annual Sales							20.14%

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Normal and Design Year Volumes and Capacity Utilization

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Normal Year Volumes (Therms)

	EST May-25	EST Jun-25	EST Jul-25	EST Aug-25	EST Sep-25	EST Oct-25	Off Peak May - Oct
1 Pipeline Gas:							
2 Dawn Iroquois Supply	128,558	27,125	-	-	-	406,775	562,458
3 Dawn PXP Supply	59,492	-	-	-	-	285,409	344,901
4 Niagara Supply	661,939	39,111	-	-	25,333	377,434	1,103,817
5 TGP Supply (Gulf)	1,028,467	1,162,602	1,488,098	1,413,488	1,673,832	1,349,026	8,115,513
6 TGP Supply (Z4)	5,336,541	4,760,802	4,785,979	4,574,326	4,663,746	5,206,719	29,328,113
7 PNGTS - Berlin	60,860	12,616	-	-	1,854	112,030	187,360
8 Dracut Baseload	-	-	-	-	-	-	-
9 Dracut Swing 1	-	-	-	-	-	407,442	407,442
10 Dracut Swing 2	-	-	-	-	-	-	-
11 LNG Truck							
12 Propane Truck							
13 Subtotal Pipeline Volumes	7,354,496	6,074,800	6,344,676	6,066,439	6,456,211	8,292,874	40,589,496
14							
15 Less - Gas Refills:							
16 LNG Truck - Refills							
17 Propane - Refills							
18 TGP Storage Refill							
19 Subtotal Refills							
20							
21 Total Sendout Volumes	5,165,585	3,326,947	3,037,586	2,894,453	3,567,630	6,563,081	24,555,282

Design Year Volumes (Therms)

	EST May-25	EST Jun-25	EST Jul-25	EST Aug-25	EST Sep-25	EST Oct-25	Off Peak May - Oct
22 Pipeline Gas:							
23 Dawn Iroquois Supply	123,088	24,602	-	-	-	400,773	548,463
24 Dawn PXP Supply	54,706	-	-	-	-	280,741	335,447
25 Niagara Supply	661,939	39,111	-	-	22,861	374,766	1,098,677
26 TGP Supply (Gulf)	1,137,195	1,336,078	1,287,352	1,362,440	1,514,420	1,423,712	8,061,197
27 TGP Supply (Z4)	2,238,831	2,867,079	3,056,004	3,061,090	2,658,113	1,667,110	15,548,227
28 PNGTS - Berlin	58,125	12,616	-	-	618	112,030	183,389
29 Dracut Baseload	-	-	-	-	-	-	-
30 Dracut Swing 1	3,097,026	1,893,092	1,729,976	1,513,236	2,006,869	3,833,020	14,073,219
31 Dracut Swing 2	-	-	-	-	-	94,025	94,025
32 LNG Truck							
33 Propane Truck							
34 Subtotal Pipeline Volumes	7,449,549	6,245,122	6,143,931	6,015,978	6,291,238	8,313,544	40,459,362
35							
36 Less - Gas Refills:							
37 LNG Truck - Refills							
38 Propane - Refills							
39 TGP Storage Refill							
40 Subtotal Refills							
41							
42 Total Sendout Volumes	5,132,079	3,305,499	3,017,328	2,875,676	3,544,768	6,519,067	24,394,417

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Normal and Design Year Volumes and Capacity Utilization

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Capacity Utilization

		Normal Year			
		Off-Peak Period Use (Therms)	MDQ (MMBtu/day)	Seasonal Quantity (Therms)	Utilization Rate
Pipeline Gas:					
43	Dawn Iroquois Supply	562,458	4,000	7,240,000	8%
44	Dawn PXP Supply	344,901	5,000	9,050,000	4%
45	Niagara Supply	1,103,817	3,122	5,650,820	20%
46	TGP Supply (Gulf less Z4)	37,443,626	21,596	39,088,760	96%
47	PNGTS - Berlin	187,360	1,000	1,810,000	10%
48	Dracut (Baseload, Swing 1, Swing 2)	407,442	90,000	162,900,000	0%
49	LNG Truck				
50	Propane Truck				
51	Subtotal Pipeline Volumes	40,589,496			
52					
Less - Gas Refills:					
54	LNG Truck - Refills				
55	Propane - Refills				
56	TGP Storage Refill				
57	Subtotal Refills				
58					
59	Total Sendout Volumes	24,555,282			

		Design Year			
		Off-Peak Period Use (Therms)	MDQ (MMBtu/day)	Seasonal Quantity (Therms)	Utilization Rate
		548,463	4,000	7,240,000	8%
		335,447	5,000	9,050,000	4%
		1,098,677	3,122	5,650,820	19%
		23,609,424	21,596	39,088,760	60%
		183,389	1,000	1,810,000	10%
		14,167,244	90,000	162,900,000	9%
		40,459,362			
		24,394,417			

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty
Off-Peak 2025 Summer Cost of Gas Filing
Storage Inventory, Underground, LPG and LNG including Calculation of Money Pool Interest Costs Associated with Natural Gas

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Underground Storage Gas		May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Total	
		EST	EST	EST	EST	EST	EST		
1	Beginning Balance (MMBtu)	167,606	378,633	646,164	969,813	1,279,149	1,558,863	5,000,229	
2	Injections (MMBtu)	211,027	267,531	323,649	309,336	279,714	158,175	1,549,432	
3	Subtotal	378,633	646,164	969,813	1,279,149	1,558,863	1,717,038	6,549,661	
4	Storage Sale/Adjustments (MMBtu)	-	-	-	-	-	-	-	
5	Withdrawals (MMBtu)	-	-	-	-	-	-	-	
6	Ending Balance (MMBtu)	378,633	646,164	969,813	1,279,149	1,558,863	1,717,038	6,549,661	
7									
8	Beginning Balance (\$)	\$ 282,226	\$ 708,712	\$ 1,508,897	\$ 2,571,760	\$ 3,604,633	\$ 4,480,696	\$ 13,156,923	
9	Injections (\$)		In 2 * In 17	\$ 426,486	\$ 800,185	\$ 1,062,864	\$ 1,032,873	\$ 876,063	\$ 4,405,404
10	Subtotal	\$ 708,712	\$ 1,508,897	\$ 2,571,760	\$ 3,604,633	\$ 4,480,696	\$ 4,886,100	\$ 17,760,797	
11	Storage Sale/Adjustments (\$)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	Withdrawals (\$)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13	Ending Balance	\$ 708,712	\$ 1,508,897	\$ 2,571,760	\$ 3,604,633	\$ 4,480,696	\$ 4,886,100	\$ 17,760,797	
14									
15	Average Rate For Withdrawals	In 10 / In 3	\$ 1,8718	\$ 2,3352	\$ 2,6518	\$ 2,8180	\$ 2,8743	\$ 2,8457	
16									
17	TGP Storage Rate for Injections	Actual or NYMEX plus TGP Transportation	\$ 2,0210	\$ 2,9910	\$ 3,2840	\$ 3,3390	\$ 3,1320	\$ 2,5630	

Liquid Propane Gas (LPG)		May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Total
		EST	EST	EST	EST	EST	EST	
18	Beginning Balance (MMBtu)							
19	Injections (MMBtu)							
20	Subtotal							
21	Storage Sale/Adjustments (MMBtu)							
22	Withdrawals (MMBtu)							
23	Ending Balance (MMBtu)							
24								
25	Beginning Balance (\$)							
26	Injections (\$)		In 19 * In 34					
27	Subtotal							
28	Storage Sale/Adjustments (\$)							
29	Withdrawals (\$)		In 22 * In 32					
30	Ending Balance							
31								
32	Average Rate For Withdrawals		In 27 / In 20					
33								
34	Propane Rate for Injections		In 26 / In 19 or Sch. 6, In 115					

Liquid Natural Gas (LNG)		May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Total
		EST	EST	EST	EST	EST	EST	
35	Beginning Balance (MMBtu)							
36	Injections (MMBtu)							
37	Subtotal							
38	Storage Sale/Adjustments (MMBtu)							
39	Withdrawals (MMBtu)							
40	Ending Balance (MMBtu)							
41								
42	Beginning Balance (\$)							
43	Injections (\$)		In 36 * In 51					
44	Subtotal							
45	Storage Sale/Adjustments (\$)							
46	Withdrawals (\$)		In 39 * In 49					
47	Ending Balance							
48								
49	Average Rate For Withdrawals		In 44 / In 37					
50								
51	LNG Rate for Injections		In 43 / In 36 or Sch. 6, In 114					