



## **Kenneth A. Sosnick**

Managing Director

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### **Education**

B.S. Accounting,  
Indiana University  
of Pennsylvania

Mr. Sosnick has over 18 years of experience with electric utility, natural gas pipeline and crude/product pipeline industry matters before the Federal Energy Regulatory Commission ("FERC"), state regulators, as well as civil litigation proceedings and management consulting engagements.

Prior to joining Black & Veatch, Mr. Sosnick spent over 9 years as a consultant extensively engaged in the natural gas, crude/product and electricity markets. His work has included analysis of onshore and offshore natural gas pipeline and crude/product pipeline cost of service rates, levelized rates, market-based rates, discounted and negotiated rates, incremental vs. rolled-in project costs, Certificate Proceedings, allocation of corporate overhead costs, master-limited partnership income taxes, throughput/system rate design quantities, fuel recovery mechanisms, NGA Section 5 rate complaints, Return on Equity calculations under the DCF/Risk Premium/CAPM/Expected Earnings methods, depreciation rate and negative salvage rate calculations, Asset Retirement Obligations, FERC Form 1 and 2 filing requirements as well as being proficient in the application of FERC's Uniform System of Accounts.

Mr. Sosnick has prepared expert testimony and provided expert advisory services for clients in proceedings at FERC, state commissions as well as expert reports assessing and quantifying damages in civil litigation, conducted strategic analysis for a large energy company considering alternatives for its existing pipeline and storage portfolio, written a whitepaper on the impacts of the Tax Cuts and Jobs Act on FERC regulated assets as well as a whitepaper on the impacts of FERC Orders in SFPP, LP Docket No. IS08-390 related to Master Limited Partnerships and other pass-through entities income tax allowance. In addition, he conducted confidential buy-side valuations and assessments of regulated electric and natural gas utilities in the U.S. and has also utilized GPCM® to support capital investment and cost recovery of investment in natural gas pipeline infrastructure for a major US utility.

Mr. Sosnick spent 10 years at FERC in which he spent two years as an auditor in the Office of Enforcement, and eight years as an expert witness and one of the lead technical staff negotiators on major electric utility proceedings, interstate natural gas pipeline and crude/product pipeline in the Office of Administrative Litigation. Mr. Sosnick's insights were incorporated into the revision of the FERC Form 2 in Docket No. RM07-9-000, which led to the FERC-initiated Section 5 natural gas pipeline proceedings.

Mr. Sosnick currently teaches multiple courses in coordination with EUCI, and previously taught at the New Mexico State University Center for Public Utilities Practical and Regulatory Training for the Natural Gas Interstate Pipeline Industry specifically addressing FERC requirements for determining "Just and Reasonable" rates.

### **PROFESSIONAL EXPERIENCE**

- *Black & Veatch, Managing Director, Overland Park, KS, 2022 – Present*
- *FTI Consulting, Managing Director, Boston, MA, 2019 – 2022*
- *Concentric Energy Advisors, Senior Project Manager, Marlborough MA, 2015 – 2019*
- *MRW & Associates, LLC, Energy Consultants, Senior Project Manager, Oakland, CA, 2013 – 2015*
- *Federal Energy Regulatory Commission, Energy Industry Analyst, Office of Administrative Litigation, Washington, D.C., 2005 – 2013*
- *Federal Energy Regulatory Commission, Auditor, Office of Enforcement, Washington, D.C., 2003 – 2005*

### **Testimony/Affidavits**

- Michigan Electric Transmission Company, Docket Nos. ER06-56-000 and ER06-56-002
- ANR Pipeline Company, Docket No. RP07-439-000
- SFPP L.P., Docket No. OR03-5-000
- SFPP L.P., Docket No. OR03-5-001
- SFPP L.P., Docket No. IS08-390-002
- SFPP L.P., Docket No. IS09-437-000
- Portland Natural Gas Transmission System, Inc., Docket No. RP08-306-000
- El Paso Natural Gas Company, Docket No. RP08-426-000
- Sea Robin Pipeline Company, Docket No. RP09-995-000
- Florida Gas Transmission Company, LLC, Docket No. RP10-21-000
- Northern Natural Gas Company, Docket No. RP10-148-000
- Tuscarora Gas Transmission Company, Docket No. RP11-1823-000
- Midwest Independent Transmission System Operator, Inc., Docket No. ER12-715-003



## BLACK & VEATCH

- Gulf South Pipeline Company, Docket No. RP15-65-000
- Liquids Shippers Group, Docket No. RM15-19-000
- KO Transmission Company, Docket No. RP16-1097-000
- Colonial Pipeline Company, Docket No. OR16-17-000
- Mississippi River Transmission, Docket No. RP18-923-000
- Nebraska Public Power District, Docket No. EL18-194-000
- Northern Natural Gas Company, Docket Nos. RP19-59-000 and RP19-1353-000
- Dominion Energy Cove Point, Docket No. RP20-467-000
- Transcontinental Gas Pipeline, Docket Nos. RP20-614-000 and RP20-618-000
- Energy North, Docket No. DG20-105
- Midwestern Gas Transmission Company, Docket No. RP21-525-000
- NPPD vs. Tri-State Generation and Transmission, Docket No. EL21-100-000
- Piedmont Natural Gas Company, Docket Nos. G-9, Sub 781, G-9, Sub 722
- DTE Gas, Docket No. U-20236
- DTE Gas, Docket No. U-20544
- DTE Electric, Docket No. U-20528
- DTE Electric, Docket. No. U-20826
- DTE Electric, Docket No. U-21050
- VEPCO, Docket No. PUR-2021-00058
- System Energy Resources, Inc., Docket No. EL20-72-001

### SELECTED PROJECTS

#### *Cost of Service*

Mr. Sosnick assists clients, state regulatory agencies, and other experts developing and refining cost of service models regarding rate base calculations, appropriate levels of operations and maintenance expenses, appropriate levels of directly assigned or allocated affiliated or parent company overhead costs, the application of cost allocation procedures in the allocation of costs between jurisdictional activities, between non-jurisdictional and jurisdictional activities or amongst separate jurisdictional systems.

#### **Natural Gas Experience**

- Paiute Pipeline Company, Docket Nos. RP05-163-000 and RP09-406-000
- El Paso Natural Gas Company, Docket No. RP06-369-000
- Transcontinental Pipeline Company, Docket Nos. RP06-569-000 and RP12-993-000
- Black Marlin Pipeline Company, Docket No. RP07-39-000
- Sea Robin Pipeline Company, Section 4 Rate Case Docket Nos. RP07-513-000 and



## **BLACK & VEATCH**

- Hurricane Surcharge RP09-995-000
- Portland Natural Gas Transmission System, Inc., Docket No. RP08-306-000

### **Natural Gas Experience-Continued**

- UTOS, Docket No. RP10-1393
- Florida Gas Transmission Company, LLC, Docket Nos. RP10-21-000 and RP21-441-000
- Northern Natural Gas Company, Docket No. RP10-148-000
- Kinder Morgan Interstate Gas Transmission, Docket No. RP11-1494-000
- Tuscarora Gas Transmission Company, Docket No. RP11-1823-000
- Tennessee Gas Pipeline Company, Docket No. RP11-1566-000
- Trailblazer Pipeline Company, Docket No. RP11-2168-000
- Stingray Pipeline Company, Docket No. RP11-1957-000
- Northern Natural, Docket No. RP11-1781-000
- National Fuel Supply Corporation, Docket No. RP12-88-000
- MIGC, Docket No. RP12-122-000
- Wyoming Interstate Company, Docket No. RP13-184-000
- Southern Star Central Pipeline Company, Docket No. RP13-941-000
- Saltville Gas Storage, Docket No. RP14-251-000
- Sea Robin Pipeline Company, Docket No. RP14-247-000
- Williston Basin Pipeline Company, Docket No. RP14-118-000
- HIOS Pipeline Company, Docket No. RP14-218-000
- Mojave Pipeline Company, Docket No. RP14-1275-000
- Saltville Gas Storage, Docket No. RP14-251-000
- Florida Gas Transmission, Docket No. RP15-101-000
- Alliance Pipeline Company, Docket No. RP15-1022-000
- Gulf South Pipeline Company, Docket No. RP15-65-000
- Columbia Gas Pipeline, Docket No. RP16-314-000
- KO Transmission Company, Docket No. RP16-1097-000
- ANR Pipeline Company, Docket No. RP16-440-000
- Columbia Gas Transmission, Docket No. RP16-302-000
- ECA/Greylock Pipeline, Docket No. CP16-35-000: Initial Rates
- Natural Gas Pipeline Company of America, Docket No. RP17-303-000
- Great Lakes Gas Transmission, Docket No. RP17-598-000
- Eastern Shore Pipeline Company, Docket No. RP17-363-000
- Mississippi River Transmission, Docket No. RP18-923-000
- Empire Pipeline Company, Docket No. RP18-940-000



- Transcontinental Gas Pipeline, Docket No. RP18-1126-000

#### **Natural Gas Experience-Continued**

- Texas Eastern Transmission Company, Docket No. RP19-343-000
- Saltville Gas Storage, Docket No. RP18-1115-000
- East Tennessee Natural Gas Company, Docket Nos. RP19-63-000, RP19-64-000 & RP20-980-000
- Northern Natural Gas Company, Docket Nos. RP19-59-000 and RP19-1353-000
- Panhandle Eastern Pipeline Company, Docket No. RP19-78-000
- National Fuel Gas Supply, Docket No. RP19-1426-000
- Kinetica Deepwater Express, Docket Nos. RP19-53-000 and RP19-1634-000
- Dominion Energy Cove Point, Docket No. RP20-467-000
- Transcontinental Gas Pipeline, Docket Nos. RP20-614-000 and RP20-618-000
- Bridge-Line-LIGG Section 311 Filing, Docket No. PR20-48-000
- Columbia Gas Transmission, Docket No. RP20-1060-000
- Energy North, Docket No. DG 20-105
- Midwestern Gas Transmission Company, Docket No. RP21-525-000
- Southern Star Central Gas Pipeline, Inc., Docket. No. RP21-778-000
- Eastern Gas Transmission and Storage, L.P., Docket No. RP21-1187-000
- Texas Eastern Transmission Company, Docket No. RP21-1188-000
- Developed Section 7 Initial Rates to support LNG export for a confidential client
- Confidential Client, FERC Form 501-G Filing Assistance

#### **Electric Experience**

- AEP, Docket No. ER05-751-000
- Michigan Electric Transmission Company, Docket Nos. ER06-56-000 and ER06-56-002
- Duke Energy Vermillion, LLC, Docket No. ER05-123-000
- GenOn Power Midwest, LP (Now NRG), Docket No. ER12-1901-000
- SDG&E, Docket No. ER05-853-000
- Southern California Edison Company, Docket No. ER05-763-000
- Berkshire Power Company, LLC, Docket No. ER05-1179-000
- Milford Power Company, LLC, Docket No. ER05-163-000
- City of Anaheim, Docket No. ER11-3594-000
- City of Banning, Docket No. ER11-3962-000
- Delmarva Power and Light Company, Docket No. ER18-903-000
- Potomac Electric Power Company, Docket No. ER18-905-000
- Baltimore Gas & Electric Company, Docket No. ER17-528-000



## **BLACK & VEATCH**

- Nebraska Public Power District, Docket No. EL18-194-000

### **Electric Experience-Continued**

- Delmarva P&L Company, PEPCO, BG&E Company, Docket No. ER19-5-000
- Tri-State Generation and Transmission Association, Inc. Docket Nos. ER20-686-000, ER20-688-001, ER20-726-000 and EL20-25-000
- NPPD vs. Tri-State Generation and Transmission, Docket No. EL21-100-000
- Confidential Client: Review of multiple entities RTO/ISO Formula Rates to ensure compliance with current FERC precedent.

### **Liquids Experience**

- SFPP L.P., Docket No. OR03-5-000
- SFPP L.P., Docket No. OR03-5-001
- SFPP L.P., Docket No. IS08-390-002
- SFPP L.P., Docket No. IS09-437-000

### **Cost Allocation and Rate Design**

Mr. Sosnick assists clients, regulatory agencies, and other experts developing and refining cost allocation and rate design models.

### **Natural Gas Experience**

- ANR Pipeline Company, Docket No. RP07-439-000
- El Paso Natural Gas Company, Docket No. RP08-426-000
- Sea Robin Pipeline Company, LLC, Docket Nos. RP10-422-000 & RP09-995-000
- Wyoming Interstate Company, Docket No. RP13-184-000
- Southern Star Central Pipeline Company, Docket No. RP13-941-000
- Sea Robin Pipeline Company, Docket No. RP14-247-000
- HIOS Pipeline Company, Docket No. RP14-218-000
- Saltville Gas Storage, Docket No. RP14-251-000
- Mojave Pipeline Company, Docket No. RP14-1275-000
- Florida Gas Transmission, Docket No. RP15-101-000
- Gulf South Pipeline Company, Docket No. RP15-65-000
- Columbia Gas Pipeline, Docket No. RP16-314-000
- KO Transmission Company, Docket No. RP16-1097-000
- ANR Pipeline Company, Docket No. RP16-440-000
- Columbia Gas Transmission, Docket No. RP16-302-000
- ECA/Greylock Pipeline; Docket No. CP16-35-000: Initial Rates



## **BLACK & VEATCH**

- Natural Gas Pipeline Company of America, Docket No. RP17-303-000
- Great Lakes Gas Transmission, Docket No. RP17-598-000
- Eastern Shore Pipeline Company, Docket No. RP17-363-000

### **Natural Gas Experience-Continued**

- Mississippi River Transmission, Docket No. RP18-923-000
- Empire Pipeline Company, Docket No. RP18-940-000
- Transcontinental Gas Pipeline, Docket No. RP18-1126-000
- Saltville Gas Storage, Docket No. RP18-1115-000
- East Tennessee Natural Gas Company, Docket Nos. RP19-63-000 and RP19-64-000
- Northern Natural Gas Company, Docket Nos. RP19-59-000 and RP19-1353-000
- National Fuel Gas Supply, Docket No. RP19-1426-000
- Kinetica Deepwater Express, Docket Nos. RP19-53-000 and RP19-1634-000
- Dominion Energy Cove Point, Docket No. RP20-467-000
- Transcontinental Gas Pipeline, Docket Nos. RP20-614-000 and RP20-618-000
- Bridge-Line-LIGG Section 311 Filing, Docket No. PR20-48-000
- Columbia Gas Transmission, Docket No. RP20-1060-000
- Florida Gas transmission, Docket No. RP21-441-000
- Midwestern Gas Transmission Company, Docket No. RP21-525-000
- Southern Star Central Gas Pipeline, Inc., Docket. No. RP21-778-000
- Eastern Gas Transmission and Storage, L.P., Docket No. RP21-1187-000
- Confidential Client, FERC Form 501-G Filing Assistance
- Developed Section 7 Initial Rates to support LNG exporting for a confidential client
- Pacific Gas & Electric, Docket No. A.13-12-012: PG&E's 2015 Gas Accord

### **Electric Experience**

- Pacific Gas & Electric, Docket No. ER05-116-000
- Michigan Electric Transmission Company, Docket Nos. ER06-56-000 and ER06-56-002
- City of Anaheim, Docket No. ER11-3594-000
- City of Banning, Docket No. ER11-3962-000
- Entergy Arkansas, Inc., Entergy Gulf States, Inc., Entergy Louisiana, Inc., Entergy Mississippi, Inc., and Entergy New Orleans, Inc., Docket No. ER07-927-000
- Oklahoma Gas and Electric Company, Docket No. ER08-281-000
- Midwest Independent Transmission System Operator, Inc., Docket No. ER12-715-003
- Nebraska Public Power District, Docket No. EL18-194-000
- Delmarva P&L Company, PEPCO, BG&E Company, Docket No. ER19-5-000



- Tri-State Generation and Transmission Association, Inc. Docket Nos. ER20-686-000, ER20-688-001, ER20-726-000 and EL20-25-000

### **Electric Experience-Continued**

- Confidential Client: Review of multiple entities RTO/ISO Formula Rates to ensure compliance with current FERC precedent

### ***Regulatory Policy and Strategic Analysis***

Utilizing his background in accounting, regulatory affairs, and the nuances of the energy sector Mr. Sosnick has helped clients ensure they are charging or paying appropriate rates, under terms and conditions that are just, reasonable, and not unduly discriminatory or preferential. In addition, Mr. Sosnick helps clients develop safe, reliable, and efficient energy infrastructure that serves the public interest.

### **Natural Gas Experience**

- Strategic analysis for a large energy company considering alternatives for its existing pipeline and storage portfolio
- PG&E, Docket No. A.13-06-011: Participated in their Interstate Pipeline Capacity proceeding, for Core Transport Aggregators
- Confidential buy-side valuation and assessment of a regulated combination electric and natural gas utility in the U.S.
- Prepared expert report assessing and quantifying damages in civil litigation regarding the revenue sharing provisions of an Asset Management Agreement
- Strategic analysis of FERC's Form 501-G Final Order for a FERC regulated asset
- DTE Gas, Docket No. U-20236-- Developed rebuttal testimony regarding benefits analysis of NEXUS pipeline on DTE and other Michigan consumers.
- Confidential Client--Civil Litigation--Winter Storm Uri

### **Electric Experience**

- Assisted in the formation of the Small Utility Distribution Company tariff language and operating agreement formed by the California Independent System Operator
- Developed GAAP to FERC accounting mapping for a new electric transmission provider Wisconsin Public Service Corporation, Led FERC Trial Staff review of the Wind-Up plan, costs, amortization and customers affected by the underlying the sale of the Kewaunee Nuclear Power Plant owned by Wisconsin Public Service Corp. Additionally, he ensured FERC precedent was followed in the determining the accounting for the costs included in the final settlement
- Assessed impacts of FERC Formula Rate challenge for a Transmission Owner in SPP
- Delmarva Power and Light Company, Docket No. ER18-903-000
- Potomac Electric Power Company, Docket No. ER18-905-000
- Baltimore Gas & Electric Company, Docket No. ER17-528-000





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- Nebraska Public Power District, Docket No. EL18-194-000;
- Delmarva Power and Light Company, Potomac Electric Power Company, Baltimore Gas & Electric Company, Docket No. ER19-5-000

### **Electric Experience-Continued**

- Tri-State Generation and Transmission Association, Inc. Docket Nos. ER20-686-000, ER20-688-001, ER20-726-000 and EL20-25-000
- NPPD vs. Tri-State Generation and Transmission, Docket No. EL21-100-000
- DTE Electric, Docket No. U-20528--Developed benefits analysis of NEXUS pipeline on DTE and other Michigan consumers
- DTE Electric, Docket No. U-20826 --Developed benefits analysis of NEXUS pipeline on DTE and other Michigan consumers
- DTE Electric, Docket No. U-21050 --Developed benefits analysis of NEXUS pipeline on DTE and other Michigan consumers
- Confidential Client: Review of multiple entities RTO/ISO Formula Rates to ensure compliance with current FERC precedent

### **Liquids Experience**

- Liquids Shippers Group, Airlines for America and the National Propane Gas Association, Docket No. RM15-19-000
- Colonial Pipeline Company, Docket No. OR16-17-000
- SFPP, L.P., Opinion No. 511 & 511A: Examined Corporate Overhead Allocation methodologies of. for its compliance with Federal Energy Regulatory Commission policy
- Constructed a whitepaper on the impacts of FERC Orders in SFPP, LP Docket No. IS08-390 related to Master Limited Partnership and other pass-through entities income tax allowance

### **Tariffs**

- Analyzed Open Access Transmission Tariff formula rates to verify conformity to FERC's Uniform System of Accounts and the structure of their formula had FERC's approval
- Participated in the review and refunding of Southern Company's RTO Development Costs that were collected erroneously through their Open Access Transmission Tariff, Unit Power Sales Agreements, and Transmission Service Agreements
- Confidential Client: Review of a SPP Member's ATRR to provide an opinion on the appropriateness of the inclusion of certain costs
- Confidential Client: Review of multiple entities RTO/ISO Formula Rates to ensure compliance with current FERC precedent
- Served the role of advisor to clients to internal FERC Trial Staff on settlements on FERC wholesale electric, liquid pipeline, and natural gas pipelines Tariff matters

### **Negotiations**



- Coordinated Pre-filing Settlement negotiations on behalf of a firm storage customer in a state rate proceeding in the western US
- Facilitated the settlement of the refund amounts associated with the sale and related costs of the portion of the Kewaunee Nuclear Power Plant owned by Wisconsin Public Service Corp.

### ***Negotiations--Continued***

- California Independent System Operator Corporation, ER05-150: Reviewed the Utility Distribution Company Operating Agreement to ensure compliance with FERC precedent and coordinated with all parties to confirm understanding of commitments being filed
- PG&E, ER05-130: Reviewed the CASIO requirements and Western Interconnection Agreement as well as the FERC precedent to assist TPUD and PG&E to reach a settlement resolving the interconnection issue
- KO Transmission Company, Docket No. RP16-1097-000: Filed testimony on behalf of KO Transmission and served as the Rate Case Filing/Settlement Coordinator
- Served the role of lead FERC Trial Staff Technical Witness on settlements on FERC wholesale electric, liquid pipeline and natural gas pipelines related to cost of service and cost allocation and rate design

### ***Presentations/Publication***

- Panelist—EBA Energizer—FERC Pass-Through Taxation and Income Tax Allowance Recovery Policy Discussion
- Panelist EBA-Section 5 Perspectives, January 2018
- FC Intelligence-Natural Gas Impact, Transportation Options and Regulatory Oversight, May 2016
- Western States Association of Tax Administrators, four presentations between 2015 to 2017
- Panelist, “Will Fracking Change the Gas Pipeline Flows in Ways that Affect Rate Design and Cost Allocation?” EBA Mid-Year Meeting, November 2014
- Panelist AGA Rates School “FERC Issues”, September 2021
- NARUC—State Approaches to Intervenor Compensation, December 2021

### ***Courses Taught***

- FERC Natural Gas 101, FERC Natural Gas Pipeline Cost of Service, Cost Allocation and rate Design, FERC Natural Gas Pipeline Rate Case Process—Presenter—EUCI, Inc., 2013 to present
- New Mexico State University Center for Public Utilities Practical and Regulatory Training for the Natural Gas Interstate Pipeline Industry at the Sheraton Uptown in Albuquerque, NM specifically addressing FERC requirements for determining “Just and Reasonable” rates (Cost of Service Ratemaking), five presentations between 2007 to 2011



**BLACK & VEATCH**

- Centra Gas/Manitoba Hydro-On-site in Winnipeg, Canada--Two-day course on FERC Electric and Natural Gas Rates and Regulatory Oversight

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Incremental Production Cost Support Summary (LNG Facility)**

<b>Line</b>	<b>Description</b>	<b>Total</b>	<b>Units</b>	
1	Cost of incremental LNG capacity	7,361,103	\$, 2021	[1]
2	Incremental capacity	9,600	dth	[2]
3	Unit cost of incremental capacity	766.78	\$/dth	[3]
4	Year of incremental LNG capacity analysis	2021		[4]
5	Base year of MCS study	2023		[5]
6	Period adjustment	1.114		[6]
7	Current-year unit cost of incremental capacity	854.41	\$/dth	[7]
8	Percentage related to pressure support	8.73%		[8]
9	Marginal cost of production plant for distribution function (\$/dth)	74.62	\$/dth	[9]

[1] Source: Company data

[2] Source: Company data

[3] Equals [1]/[2]

[6] Source: U.S. Bureau of Economic Analysis, Gross Domestic Product Implicit Price Deflator

[7] Equals [3]\*[6]

[8] Source: Company data

[9] Equals [7]\*[8]

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Marginal Capacity-Related Distribution Plant Costs for Reinforcements**

Line No.	Year	Design Day Demand (Dth)	Incremental Design Day Demand (Dth)	Reinforcement Cost (Constant \$)	Cumulative Total
	[1]	[2]	[3]	[4]	[5]
1	2023	178,071	0	\$1,375,000	\$1,375,000
2	2024	179,745	1,675	\$1,250,000	\$2,625,000
3	2025	182,040	2,294	\$1,300,000	\$3,925,000
4	2026	183,164	1,125	\$3,350,000	\$7,275,000
5	2027	184,091	927	\$11,710,000	\$18,985,000
6	2028	184,503	412	\$15,265,000	\$34,250,000
7	2029	186,526	2,023	\$1,450,000	\$35,700,000
8	2030	187,739	1,213	\$3,265,000	\$38,965,000
9	2031	188,888	1,149	\$2,675,000	\$41,640,000
10	2032	189,267	379	\$3,721,000	\$45,361,000
11	2033	191,197	1,930	\$1,150,000	\$46,511,000
12	Total (2023 - 2033)		13,126	\$46,511,000	
13	<b>REGRESSION RESULTS</b>			<u>Col. [5] vs. Col. [2]</u>	
14	Slope			4,205.320	
15	Y Intercept			(752,925,952.933)	
16	R <sup>2</sup>			0.886	
17	t-stat			8.346	
18	p-value			0.000	
19	Regression Estimate		[Line 14]	\$4,205.32	
20	ASSUMED MARGINAL COSTS FOR REINFORCEMENT				
21	Mains Reinforcements - System Enhancement Projects 2023-2033			\$51,320,000	
22	Increase in Decatherms for System Enhancement Projects			40,000	
23	Marginal Cost For System Enhancement Projects			\$1,283	
24	Mains Reinforcements - Gas System Planning and Reliability - Regression Slope			\$4,205.3	
25					
26	\$s per Design Day Decatherm			<u><u>\$5,488.3</u></u>	

NOTES:

1 Forecast used to develop marginal distribution investment taken from engineer's estimates (company data).

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.941048351
R Square	0.885572
Adjusted R Square	0.872857777
Standard Error	6577063.71
Observations	11

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	3.01299E+15	3.01299E+15	69.65207783	1.57608E-05
Residual	9	3.8932E+14	4.32578E+13		
Total	10	3.40231E+15			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-752925952.9	93250517.72	-8.074228126	2.05588E-05	-963873279.5	-541978626.3	-963873279.5	-541978626.3
X Variable 1	4205.320454	503.8857275	8.345782038	1.57608E-05	3065.451746	5345.189161	3065.451746	5345.189161

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Marginal Capacity Related Distribution Plant Costs for Mains Extensions

Line No.	Year	Design Day Demand (Dth)	Dummy	Interaction Variable: Col [2] x Col [3]	Dummy Variable: 2001 - 2003	Incremental Design Day Demand (Dth)	Cost of Mains		Steel/Plastic Mains	Conversion Factor (\$2022)	Cost of Mains		
			Variable: 2012 - 2022				Extensions Installed	Handy-Whitman Cost Index (Weighted Avg)	Installed (\$2022)		Cumulative Total	Incremental Avg Cost	
		[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]
1	1989	94,340	0	0	0	0	\$2,102,827	283	2.66	\$5,587,935	\$5,587,935	34yr avg	\$2,044.06
2	1990	95,525	0	0	0	1,185	\$1,724,250	290	2.59	\$4,469,248	\$10,057,182	33yr avg	\$1,978.72
3	1991	97,891	0	0	0	2,366	\$1,341,529	297	2.52	\$3,387,169	\$13,444,351	32yr avg	\$1,953.53
4	1992	101,018	0	0	0	3,127	\$1,489,922	303	2.48	\$3,696,356	\$17,140,707	31yr avg	\$1,968.58
5	1993	101,899	0	0	0	882	\$1,018,848	311	2.42	\$2,461,995	\$19,602,702	30yr avg	\$1,999.78
6	1994	104,535	0	0	0	2,635	\$975,268	320	2.35	\$2,291,566	\$21,894,268	29yr avg	\$1,990.82
7	1995	107,163	0	0	0	2,628	\$667,884	329	2.28	\$1,522,904	\$23,417,172	28yr avg	\$2,030.04
8	1996	112,323	0	0	0	5,160	\$1,138,184	333	2.25	\$2,565,470	\$25,982,642	27yr avg	\$2,082.48
9	1997	118,475	0	0	0	6,152	\$4,396,282	340	2.21	\$9,695,119	\$35,677,761	26yr avg	\$2,203.59
10	1998	119,650	0	0	0	1,176	\$1,792,794	349	2.15	\$3,853,297	\$39,531,058	25yr avg	\$2,266.49
11	1999	127,994	0	0	0	8,344	\$2,415,815	354	2.12	\$5,123,793	\$44,654,851	24yr avg	\$2,246.75
12	2000	123,296	0	0	0	-4,698	\$3,440,754	362	2.07	\$7,128,180	\$51,783,031	23yr avg	\$2,509.37
13	2001	120,420	0	0	1	-2,876	\$8,588,507	389	1.93	\$16,590,382	\$68,373,413	22yr avg	\$2,174.97
14	2002	117,163	0	0	1	-3,257	\$5,787,927	380	1.97	\$11,424,671	\$79,798,084	21yr avg	\$1,790.65
15	2003	129,188	0	0	1	12,025	\$6,335,289	389	1.93	\$12,216,808	\$92,014,892	20yr avg	\$1,515.42
16	2004	135,096	0	0	0	5,908	\$2,804,933	415	1.81	\$5,080,465	\$97,095,357	19yr avg	\$1,633.95
17	2005	138,566	0	0	0	3,470	\$1,761,281	446	1.68	\$2,964,556	\$100,059,913	18yr avg	\$1,736.10
18	2006	142,066	0	0	0	3,500	\$1,531,679	496	1.51	\$2,317,644	\$102,377,557	17yr avg	\$1,810.17
19	2007	146,269	0	0	0	4,203	\$2,092,072	496	1.51	\$3,164,611	\$105,542,168	16yr avg	\$1,916.49
20	2008	148,760	0	0	0	2,491	\$1,779,635	582	1.29	\$2,296,546	\$107,838,714	15yr avg	\$2,062.03
21	2009	147,487	1	147,487	0	-1,273	\$5,177,230	554	1.36	\$7,020,939	\$114,859,653	14yr avg	\$2,153.33
22	2010	150,439	1	150,439	0	2,952	\$1,853,067	554	1.36	\$2,511,715	\$117,371,368	13yr avg	\$1,851.80
23	2011	145,478	1	145,478	0	-4,961	\$1,419,065	545	1.38	\$1,954,361	\$119,325,729	12yr avg	\$1,952.23
24	2012	149,203	1	149,203	0	3,725	\$3,379,136	561	1.34	\$4,526,812	\$123,852,541	11yr avg	\$1,613.74
25	2013	154,471	1	154,471	0	5,268	\$2,245,707	567	1.32	\$2,975,039	\$126,827,581	10yr avg	\$1,662.16
26	2014	160,216	1	160,216	0	5,745	\$2,424,524	568	1.32	\$3,202,729	\$130,030,310	9yr avg	\$1,889.84
27	2015	158,060	1	158,060	0	-2,157	\$2,684,371	569	1.32	\$3,539,404	\$133,569,713	8yr avg	\$2,279.45
28	2016	163,606	1	163,606	0	5,546	\$2,246,935	602	1.25	\$2,802,472	\$136,372,186	7yr avg	\$1,891.66
29	2017	169,976	1	169,976	0	6,370	\$4,426,087	601	1.25	\$5,532,214	\$141,904,399	6yr avg	\$2,364.56
30	2018	173,822	1	173,822	0	3,846	\$9,277,518	616	1.22	\$11,303,449	\$153,207,848	5yr avg	\$3,328.27
31	2019	179,564	1	179,564	0	5,742	\$8,477,001	630	1.19	\$10,107,467	\$163,315,315	4yr avg	\$3,575.89
32	2020	175,262	1	175,262	0	-4,301	\$4,521,654	646	1.16	\$5,254,390	\$168,569,705	3yr avg	\$38,206.55
33	2021	176,760	1	176,760	0	1,498	\$3,192,152	695	1.08	\$3,448,668	\$172,018,372	2yr avg	\$1,357.58
34	2022	179,865	1	179,865	0	3,105	\$2,799,448	751	1.00	\$2,799,448	\$174,817,820	Current	\$901.67
35	34yr avg												\$2,044.06
36	20yr avg												\$1,515.42
37	10yr avg												\$1,662.16
38	5yr avg												\$3,328.27
39	Current												\$901.67

Col. [11] vs. Col. [2] to Col. [5]

Slope for the period 2009 and beyond	1,620.78
Y Intercept	(185,489,978)
R <sup>2</sup>	0.977
t-stat	16.985
p-value	0.000

[Line 41] \$1,620.78

MARGINAL COSTS FOR MAINS EXTENSIONS ADDITIONS  
\$ per Design Day Decathem \$1,620.78

NOTES:  
1 Source: Company data.

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.988514836
R Square	0.977161581
Adjusted R Square	0.974011454
Standard Error	8685541.054
Observations	34

ANOVA					
	df	SS	MS	F	Significance F
Regression	4	9.36035E+16	2.34009E+16	310.1975461	2.40774E-23
Residual	29	2.18772E+15	7.54386E+13		
Total	33	9.57912E+16			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-185489978.5	13927159.46	-13.31857935	6.91142E-14	-213974217.8	-157005739.1	-213974217.8	-157005739.1
X Variable 1	1972.844351	116.1554729	16.98451482	1.3074E-16	1735.279734	2210.408967	1735.279734	2210.408967
X Variable 2	62192865.65	34232112.83	1.816798921	0.079597052	-7819666.221	132205397.5	-7819666.221	132205397.5
X Variable 3	-352.0624452	223.6594794	-1.574100262	0.126312143	-809.4974422	105.3725518	-809.4974422	105.3725518
X Variable 4	24357933.29	5456376.671	4.464122394	0.000112113	13198389.98	35517476.6	13198389.98	35517476.6

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Marginal Capacity-Related Distribution O&M Expense

Line No.	Year	Design Day Demand (Dth)	Capacity-Related O&M Expense (\$)	GDP Implicit Price Deflator	Conversion Factor (\$2022)	Capacity-Related O&M Expense (\$2022)		Average Cost
						[6]	[7]	
1	1989	94,340	\$1,945,026	61.34	2.07	\$4,034,465	34yr avg	\$42.62
2	1990	95,525	\$1,893,462	63.63	2.00	\$3,785,793	33yr avg	\$42.61
3	1991	97,891	\$1,918,550	65.78	1.93	\$3,710,466	32yr avg	\$42.68
4	1992	101,018	\$2,040,158	67.28	1.89	\$3,857,750	31yr avg	\$42.79
5	1993	101,899	\$2,151,230	68.88	1.85	\$3,973,577	30yr avg	\$42.89
6	1994	104,535	\$2,529,506	70.35	1.81	\$4,574,663	29yr avg	\$42.99
7	1995	107,163	\$2,598,141	71.82	1.77	\$4,602,228	28yr avg	\$42.97
8	1996	112,323	\$2,558,264	73.14	1.74	\$4,450,116	27yr avg	\$42.97
9	1997	118,475	\$2,645,969	74.40	1.71	\$4,524,668	26yr avg	\$43.07
10	1998	119,650	\$2,768,391	75.24	1.69	\$4,681,347	25yr avg	\$43.22
11	1999	127,994	\$2,626,392	76.30	1.67	\$4,379,523	24yr avg	\$43.36
12	2000	123,296	\$2,781,957	78.03	1.63	\$4,536,133	23yr avg	\$43.69
13	2001	120,420	\$2,518,609	79.78	1.59	\$4,016,238	22yr avg	\$43.95
14	2002	117,163	\$2,241,570	81.03	1.57	\$3,519,629	21yr avg	\$44.34
15	2003	129,188	\$3,479,902	82.63	1.54	\$5,358,271	20yr avg	\$44.88
16	2004	135,096	\$3,370,059	84.84	1.50	\$5,053,480	19yr avg	\$45.02
17	2005	138,566	\$3,675,620	87.50	1.45	\$5,344,066	18yr avg	\$45.38
18	2006	142,066	\$4,093,085	90.20	1.41	\$5,772,900	17yr avg	\$45.73
19	2007	146,269	\$4,154,511	92.64	1.37	\$5,705,334	16yr avg	\$46.01
20	2008	148,760	\$4,431,308	94.42	1.35	\$5,970,925	15yr avg	\$46.43
21	2009	147,487	\$4,882,340	95.02	1.34	\$6,536,779	14yr avg	\$46.84
22	2010	150,439	\$5,316,649	96.17	1.32	\$7,033,727	13yr avg	\$47.02
23	2011	145,478	\$4,976,899	98.16	1.30	\$6,450,236	12yr avg	\$47.04
24	2012	149,203	\$3,277,420	100.00	1.27	\$4,169,665	11yr avg	\$47.25
25	2013	154,471	\$4,743,594	101.75	1.25	\$5,931,136	10yr avg	\$48.95
26	2014	160,216	\$7,930,472	103.65	1.23	\$9,733,791	9yr avg	\$50.01
27	2015	158,060	\$7,395,141	104.69	1.22	\$8,986,822	8yr avg	\$48.76
28	2016	163,606	\$6,501,276	105.74	1.20	\$7,822,190	7yr avg	\$47.71
29	2017	169,976	\$7,161,084	107.75	1.18	\$8,455,408	6yr avg	\$47.70
30	2018	173,822	\$8,255,274	110.34	1.15	\$9,518,566	5yr avg	\$47.30
31	2019	179,564	\$8,185,922	112.32	1.13	\$9,272,296	4yr avg	\$45.48
32	2020	175,262	\$6,955,984	113.78	1.12	\$7,777,614	3yr avg	\$43.40
33	2021	176,760	\$7,248,202	118.90	1.07	\$7,755,964	2yr avg	\$42.92
34	2022	179,865	\$7,551,791	127.22	1.00	\$7,551,791	Current	\$41.99
35	34yr avg							\$42.62
36	20yr avg							\$44.88
37	10yr avg							\$48.95
38	5yr avg							\$47.30
39	Current							\$41.99

40 REGRESSION RESULTS

41	Slope	Col. [6] vs. Col. [2]	61.687
42	Y Intercept	(2,616,951)	
43	R <sup>2</sup>		0.765
44	t-stat		10.210
45	p-value		0.000

46 Regression Estimate [Line 41] \$61.69

47 ASSUMED MARGINAL COSTS FOR CAPACITY-RELATED O&M  
48 \$s per Design Day Decatherm \$61.69

NOTES:

- Source: Company data.
- GDP implicit price deflator obtained from Bureau of Economic Analysis/FRED database.

SUMMARY OUTPUT

Regression Statistics

Multiple R	0.874710898
R Square	0.765119156
Adjusted R Square	0.75777913
Standard Error	929967.0097
Observations	34

ANOVA

	df	SS	MS	F	Significance F
Regression	1	9.01502E+13	9.01502E+13	104.2392924	1.36091E-11
Residual	32	2.76748E+13	8.64839E+11		
Total	33	1.17825E+14			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95%
Intercept	-2616950.997	844347.8416	-3.099375481	0.004023846	-4336831.269	-897070.73	-4336831.27	-897070.725
X Variable 1	61.68741391	6.042001609	10.20976456	1.36091E-11	49.38025937	73.9945684	49.38025937	73.9945684

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Marginal Capacity-Related Production Expense

Line No.	Year	Design Day Demand (Dth) [2]	Capacity-Related Production Expense (\$) [3]	GDP Implicit Price Deflator [4]	Conversion Factor (\$2022) [5]	Capacity-Related Production Expense (\$2022) [6]	Annual Avg.	Cumulative Avg. Capacity Related Production O&M Per Customer [8]	Capacity Related Production O&M Per Customer [9]
							Capacity Related Production O&M Per Customer [7]		
1	1989	94,340	\$715,386	61.34	2.07	\$1,483,888	\$15.73	34yr avg	\$8.63
2	1990	95,525	\$835,263	63.63	2.00	\$1,670,027	\$17.48	33yr avg	\$8.42
3	1991	97,891	\$729,836	65.78	1.93	\$1,411,499	\$14.42	32yr avg	\$8.14
4	1992	101,018	\$636,334	67.28	1.89	\$1,203,248	\$11.91	31yr avg	\$7.93
5	1993	101,899	\$669,158	68.88	1.85	\$1,236,014	\$12.13	30yr avg	\$7.80
6	1994	104,535	\$769,726	70.35	1.81	\$1,392,065	\$13.32	29yr avg	\$7.65
7	1995	107,163	\$744,765	71.82	1.77	\$1,319,243	\$12.31	28yr avg	\$7.45
8	1996	112,323	\$796,685	73.14	1.74	\$1,385,838	\$12.34	27yr avg	\$7.27
9	1997	118,475	\$814,444	74.40	1.71	\$1,392,718	\$11.76	26yr avg	\$7.07
10	1998	119,650	\$770,390	75.24	1.69	\$1,302,729	\$10.89	25yr avg	\$6.89
11	1999	127,994	\$727,651	76.30	1.67	\$1,213,362	\$9.48	24yr avg	\$6.72
12	2000	123,296	\$341,597	78.03	1.63	\$556,992	\$4.52	23yr avg	\$6.60
13	2001	120,420	\$420,954	79.78	1.59	\$671,264	\$5.57	22yr avg	\$6.69
14	2002	117,163	\$556,957	81.03	1.57	\$874,513	\$7.46	21yr avg	\$6.75
15	2003	129,188	\$453,628	82.63	1.54	\$698,486	\$5.41	20yr avg	\$6.71
16	2004	135,096	\$477,344	84.84	1.50	\$715,788	\$5.30	19yr avg	\$6.78
17	2005	138,566	\$589,292	87.50	1.45	\$856,785	\$6.18	18yr avg	\$6.86
18	2006	142,066	\$493,007	90.20	1.41	\$695,339	\$4.89	17yr avg	\$6.90
19	2007	146,269	\$501,463	92.64	1.37	\$688,652	\$4.71	16yr avg	\$7.03
20	2008	148,760	\$513,967	94.42	1.35	\$692,540	\$4.66	15yr avg	\$7.18
21	2009	147,487	\$441,329	95.02	1.34	\$590,879	\$4.01	14yr avg	\$7.36
22	2010	150,439	\$347,937	96.17	1.32	\$460,308	\$3.06	13yr avg	\$7.62
23	2011	145,478	\$336,030	98.16	1.30	\$435,507	\$2.99	12yr avg	\$8.00
24	2012	149,203	\$489,978	100.00	1.27	\$623,370	\$4.18	11yr avg	\$8.46
25	2013	154,471	\$892,778	101.75	1.25	\$1,116,282	\$7.23	10yr avg	\$8.88
26	2014	160,216	\$1,004,578	103.65	1.23	\$1,233,010	\$7.70	9yr avg	\$9.07
27	2015	158,060	\$1,067,268	104.69	1.22	\$1,296,979	\$8.21	8yr avg	\$9.24
28	2016	163,606	\$1,008,813	105.74	1.20	\$1,213,781	\$7.42	7yr avg	\$9.39
29	2017	169,976	\$1,348,685	107.75	1.18	\$1,592,452	\$9.37	6yr avg	\$9.72
30	2018	173,822	\$1,318,304	110.34	1.15	\$1,520,042	\$8.74	5yr avg	\$9.79
31	2019	179,564	\$1,610,711	112.32	1.13	\$1,824,472	\$10.16	4yr avg	\$10.05
32	2020	175,262	\$1,638,576	113.78	1.12	\$1,832,122	\$10.45	3yr avg	\$10.01
33	2021	176,760	\$1,597,542	118.90	1.07	\$1,709,455	\$9.67	2yr avg	\$9.79
34	2022	179,865	\$1,780,735	127.22	1.00	\$1,780,735	\$9.90	Current	\$9.90
35	34yr avg								\$8.63
36	20yr avg								\$6.71
37	10yr avg								\$8.88
38	5yr avg								\$9.79
39	Current								\$9.90

40	<b>REGRESSION RESULTS</b>			<u>Col. [6] vs. Col. [2]</u>
41	Slope			1.982
42	Y Intercept			865,942.06
43	R <sup>2</sup>			0.015
44	t-stat			0.709
45	p-value			0.484
46	Regression Estimate	[Line 41]		\$1.98

47	<b>ASSUMED MARGINAL COSTS FOR CAPACITY-RELATED PRODUCTION</b>								
48	5yr avg								
49	\$s per Design Day Decatherm				\$9.79				

<b>Allocation to Distribution Function</b>	<b>Production (Pressure Support) Expense</b>
<b>8.73%</b>	<b>\$0.85</b>

NOTES:

- 1 Source: Company data.
- 2 GDP implicit price deflator obtained from Bureau of Economic Analysis/FRED database.
- 3 Regression results show negative coefficient, low R<sup>2</sup> value, so average cost estimate used.

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.1243207
R Square	0.01545564
Adjusted R Squar	-0.01531138
Standard Error	430447.426
Observations	34

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	93076875214	93076875214	0.502344399	0.483603659
Residual	32	5.92912E+12	1.85285E+11		
Total	33	6.0222E+12			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	865942.057	390817.4712	2.215719923	0.033945774	69872.91886	1662011.196	69872.91886	1662011.2
X Variable 1	1.98213939	2.796619679	0.708762583	0.483603659	-3.714388486	7.678667261	-3.714388486	7.67866726



**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Services and Meters Plant Investment Costs**

Line Description	R-1	R3, R-4	G-41	G-42	G-43	G-51	G-52	G-53	G-54	
1 <u>Services</u>										
2 Cost per Service	\$7,487	\$7,487	\$7,952	\$11,510	\$7,169	\$7,952	\$11,510	\$7,169	\$7,169	[1]
3 Customers per Service	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	<u>1.43</u>	[2]
4 Average Service Cost Per Customer	\$5,250	\$5,250	\$5,576	\$8,072	\$5,027	\$5,576	\$8,072	\$5,027	\$5,027	[3]
5 <u>Meters and regulators</u>										
6 Installed Cost per Meter	\$732	\$732	\$1,805	\$4,060	\$9,858	\$1,805	\$4,060	\$9,858	\$9,858	[4]
7 Customers per Meter	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	<u>1.00</u>	[5]
8 Average Meter Cost per Customer	\$732	\$732	\$1,805	\$4,060	\$9,858	\$1,805	\$4,060	\$9,858	\$9,858	[6]

[1] Source: Company data

[2] Source: Company data

[3] Equals [1]/ [2]

[4] Source: Company data

[5] Source: Company data

[6] Equals [4] / [5]

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Marginal Customer-Related O&M Expense

Line No.	Year	Annual Customers	Customer-Related O&M Expense (\$)	GDP Implicit Price Deflator	Conversion Factor (\$2022)	Customer-Related O&M Expense (\$2022)	Annual Avg.	Cummulative Avg.	
							Related O&M Per Customer	Customer Related O&M Per Customer	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
1	1989	58,809	\$3,265,009	61.34	2.07	\$6,772,439	\$115.16	34yr avg	\$73.74
2	1990	60,216	\$3,297,919	63.63	2.00	\$6,593,869	\$109.50	33yr avg	\$72.49
3	1991	60,958	\$3,391,122	65.78	1.93	\$6,558,413	\$107.59	32yr avg	\$71.33
4	1992	61,725	\$3,502,421	67.28	1.89	\$6,622,751	\$107.29	31yr avg	\$70.16
5	1993	62,566	\$3,522,064	68.88	1.85	\$6,505,671	\$103.98	30yr avg	\$68.92
6	1994	64,044	\$3,720,493	70.35	1.81	\$6,728,589	\$105.06	29yr avg	\$67.71
7	1995	65,385	\$3,736,123	71.82	1.77	\$6,617,999	\$101.22	28yr avg	\$66.38
8	1996	66,464	\$3,391,523	73.14	1.74	\$5,899,575	\$88.76	27yr avg	\$65.09
9	1997	67,928	\$3,405,043	74.40	1.71	\$5,822,702	\$85.72	26yr avg	\$64.18
10	1998	69,588	\$3,507,511	75.24	1.69	\$5,931,197	\$85.23	25yr avg	\$63.32
11	1999	71,291	\$3,481,936	76.30	1.67	\$5,806,148	\$81.44	24yr avg	\$62.40
12	2000	73,106	\$2,984,429	78.03	1.63	\$4,866,273	\$66.56	23yr avg	\$61.58
13	2001	74,959	\$3,275,394	79.78	1.59	\$5,223,026	\$69.68	22yr avg	\$61.35
14	2002	74,721	\$2,439,210	81.03	1.57	\$3,829,957	\$51.26	21yr avg	\$60.95
15	2003	78,438	\$2,340,691	82.63	1.54	\$3,604,139	\$45.95	20yr avg	\$61.44
16	2004	80,221	\$2,348,327	84.84	1.50	\$3,521,369	\$43.90	19yr avg	\$62.25
17	2005	81,735	\$2,621,664	87.50	1.45	\$3,811,695	\$46.64	18yr avg	\$63.27
18	2006	82,474	\$2,750,067	90.20	1.41	\$3,878,703	\$47.03	17yr avg	\$64.25
19	2007	83,637	\$3,087,832	92.64	1.37	\$4,240,477	\$50.70	16yr avg	\$65.33
20	2008	83,943	\$3,445,440	94.42	1.35	\$4,642,526	\$55.31	15yr avg	\$66.30
21	2009	84,346	\$3,828,174	95.02	1.34	\$5,125,395	\$60.77	14yr avg	\$67.09
22	2010	84,420	\$4,444,691	96.17	1.32	\$5,880,158	\$69.65	13yr avg	\$67.57
23	2011	85,286	\$4,037,750	98.16	1.30	\$5,233,067	\$61.36	12yr avg	\$67.40
24	2012	85,862	\$3,209,604	100.00	1.27	\$4,083,386	\$47.56	11yr avg	\$67.95
25	2013	86,972	\$3,817,221	101.75	1.25	\$4,772,849	\$54.88	10yr avg	\$69.99
26	2014	87,754	\$6,271,678	103.65	1.23	\$7,697,801	\$87.72	9yr avg	\$71.67
27	2015	90,335	\$5,696,782	104.69	1.22	\$6,922,920	\$76.64	8yr avg	\$69.66
28	2016	95,236	\$5,856,722	105.74	1.20	\$7,046,677	\$73.99	7yr avg	\$68.66
29	2017	93,291	\$5,832,460	107.75	1.18	\$6,886,643	\$73.82	6yr avg	\$67.78
30	2018	94,965	\$6,333,758	110.34	1.15	\$7,303,003	\$76.90	5yr avg	\$66.57
31	2019	96,597	\$6,001,828	112.32	1.13	\$6,798,345	\$70.38	4yr avg	\$63.99
32	2020	98,022	\$5,534,841	113.78	1.12	\$6,188,608	\$63.13	3yr avg	\$61.85
33	2021	98,689	\$6,327,434	118.90	1.07	\$6,770,692	\$68.61	2yr avg	\$61.21
34	2022	99,014	\$5,329,069	127.22	1.00	\$5,329,069	\$53.82	Current	\$53.82
35	34yr avg								\$73.74
36	20yr avg								\$61.44
37	10yr avg								\$69.99
38	5yr avg								\$66.57
39	Current								\$53.82
40	<b>REGRESSION RESULTS</b>				<u>Col. [6] vs. Col. [2]</u>				
41	Slope				(2.551)				
42	Y Intercept				5,894,420.73				
43	R <sup>2</sup>				0.001				
44	t-stat				(0.151)				
45	p-value				0.881				
46	Regression Estimate		[Line 41]		(\$2.55)				
47	ASSUMED MARGINAL COSTS FOR CUSTOMER-RELATED O&M								
48	10yr avg								
49	\$s per Customer				\$69.99				

- NOTES:  
1 Source: Company data.  
2 GDP implicit price deflator obtained from Bureau of Economic Analysis/FRED database.  
3 Regression results show extremely low R<sup>2</sup> value and negative sign, so average cost estimate is used.

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.0265982
R Square	0.0007075
Adjusted R Square	-0.0305204
Standard Error	1223741.8
Observations	34

ANOVA

	df	SS	MS	F	Significance F
Regression	1	33926700742	33926700742	0.022654892	0.881302761
Residual	32	4.79214E+13	1.49754E+12		
Total	33	4.79553E+13			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	5894420.7	1363418.538	4.323265793	0.000140102	3117228.045	8671613.41	3117228	9E+06
X Variable 1	-2.5505664	16.94554841	-0.150515422	0.881302761	-37.06751897	31.9663862	-37.068	31.966

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Class Weighting of Services and Meter Plant Expense**

Line	Description	R1	R-3, R-4	G-41	G-42	G-43	G-51	G-52	G-53	G-54	Total	
1	Test year customers	3,420	81,934	9,678	1,476	65	1,295	414	34	27	95,602	[1]
2	Meters cost per customer	\$732	\$732	\$1,805	\$4,060	\$9,858	\$1,805	\$4,060	\$9,858	\$9,858		[2]
3	Services cost per customer	\$5,250	\$5,250	\$5,576	\$8,072	\$5,027	\$5,576	\$8,072	\$5,027	\$5,027		[3]
4	Services and meters per customer total	\$5,982	\$5,982	\$7,381	\$12,132	\$14,885	\$7,381	\$12,132	\$14,885	\$14,885		[4]
5	Total cost	\$20,457,818	\$490,111,480	\$71,440,340	\$17,903,388	\$964,143	\$9,561,042	\$5,017,805	\$513,514	\$397,673	\$616,367,203	[5]
6	Average cost per customer										\$6,447	[6]
7	Relative weight per customer	0.93	0.93	1.14	1.88	2.31	1.14	1.88	2.31	2.31		[7]
8	System average marginal cost per customer	\$69.99	\$69.99	\$69.99	\$69.99	\$69.99	\$69.99	\$69.99	\$69.99	\$69.99		[8]
9	Class weighted marginal cost per customer	\$64.94	\$64.94	\$80.13	\$131.70	\$161.58	\$80.13	\$131.70	\$161.58	\$161.58		[9]

[1] Source: Company data

[2] MCOS-3, p. 1, ln 6

[3] MCOS-3, p. 1, ln 4

[4] Equals [2]+[3]

[5] Equals [1]\*[4]

[6] Equals  $\sum_{[5]} / \sum_{[1]}$

[7] Equals [3]/[6]

[8] MCOS-3, p. 2, ln 49

[9] Equals [7]\*[8]

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Marginal Customer-Related Accounting & Marketing Expense

Line No.	Year	Annual Customers	Customer-Related Accounting & Marketing Expense (\$)	GDP Implicit Price Deflator	Conversion Factor (\$2022)	Customer-Related Accounting & Marketing Expense (\$2022)	Annual Avg. Customer Acct. & Mrkt. Exp. O&M Per Customer	Cummulative Avg. Customer Acct. & Mrkt. Exp. O&M Per Customer
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
1	1989	58,809	\$2,864,392	61.34	2.07	\$5,941,459	\$101.03	34yr avg
2	1990	60,216	\$3,442,112	63.63	2.00	\$6,882,168	\$114.29	33yr avg
3	1991	60,958	\$3,565,057	65.78	1.93	\$6,894,803	\$113.11	32yr avg
4	1992	61,725	\$3,740,667	67.28	1.89	\$7,073,253	\$114.59	31yr avg
5	1993	62,566	\$4,032,636	68.88	1.85	\$7,448,758	\$119.05	30yr avg
6	1994	64,044	\$3,935,631	70.35	1.81	\$7,117,670	\$111.14	29yr avg
7	1995	65,385	\$3,677,860	71.82	1.77	\$6,514,794	\$99.64	28yr avg
8	1996	66,464	\$3,695,729	73.14	1.74	\$6,428,743	\$96.73	27yr avg
9	1997	67,928	\$3,390,219	74.40	1.71	\$5,797,352	\$85.35	26yr avg
10	1998	69,588	\$3,377,588	75.24	1.69	\$5,711,498	\$82.08	25yr avg
11	1999	71,291	\$3,319,897	76.30	1.67	\$5,535,947	\$77.65	24yr avg
12	2000	73,106	\$3,042,687	78.03	1.63	\$4,961,266	\$67.86	23yr avg
13	2001	74,959	\$1,318,450	79.78	1.59	\$2,102,434	\$28.05	22yr avg
14	2002	74,721	\$1,114,892	81.03	1.57	\$1,750,562	\$23.43	21yr avg
15	2003	78,438	\$2,340,981	82.63	1.54	\$3,604,587	\$45.95	20yr avg
16	2004	80,221	\$3,171,337	84.84	1.50	\$4,755,492	\$59.28	19yr avg
17	2005	81,735	\$3,204,083	87.50	1.45	\$4,658,487	\$57.00	18yr avg
18	2006	82,474	\$4,130,827	90.20	1.41	\$5,826,131	\$70.64	17yr avg
19	2007	83,637	\$3,990,833	92.64	1.37	\$5,480,557	\$65.53	16yr avg
20	2008	83,943	\$3,927,632	94.42	1.35	\$5,292,251	\$63.05	15yr avg
21	2009	84,346	\$4,317,533	95.02	1.34	\$5,780,580	\$68.53	14yr avg
22	2010	84,420	\$4,816,133	96.17	1.32	\$6,371,563	\$75.47	13yr avg
23	2011	85,286	\$7,556,567	98.16	1.30	\$9,793,577	\$114.83	12yr avg
24	2012	85,862	\$9,647,965	100.00	1.27	\$12,274,527	\$142.96	11yr avg
25	2013	86,972	\$3,519,219	101.75	1.25	\$4,400,243	\$50.59	10yr avg
26	2014	87,754	\$5,036,775	103.65	1.23	\$6,182,093	\$70.45	9yr avg
27	2015	90,335	\$5,637,886	104.69	1.22	\$6,851,348	\$75.84	8yr avg
28	2016	95,236	\$4,757,333	105.74	1.20	\$5,723,916	\$60.10	7yr avg
29	2017	93,291	\$4,616,915	107.75	1.18	\$5,451,395	\$58.43	6yr avg
30	2018	94,965	\$4,956,435	110.34	1.15	\$5,714,911	\$60.18	5yr avg
31	2019	96,597	\$3,956,378	112.32	1.13	\$4,481,439	\$46.39	4yr avg
32	2020	98,022	\$3,513,760	113.78	1.12	\$3,928,800	\$40.08	3yr avg
33	2021	98,689	\$3,578,346	118.90	1.07	\$3,829,021	\$38.80	2yr avg
34	2022	99,014	\$3,344,679	127.22	1.00	\$3,344,679	\$33.78	Current
35	34yr avg							\$74.47
36	20yr avg							\$64.89
37	10yr avg							\$53.47
38	5yr avg							\$43.85
39	Current							\$33.78
40	<b>REGRESSION RESULTS</b>				<u>Col. [6] vs. Col. [2]</u>			
41	Slope				(33.046)			
42	Y Intercept				8,330,289.92			
43	R <sup>2</sup>				0.046			
44	t-stat				(1.240)			
45	p-value				0.224			
46	Regression Estimate			[Line 41]	(\$33.05)			
47	ASSUMED MARGINAL COSTS FOR CUSTOMER-RELATED ACCTG & MRKT EXPENSE							
48	5yr avg							
49	\$s per Customer				\$43.85			

NOTES:

- Source: Company data.
- GDP implicit price deflator obtained from Bureau of Economic Analysis/FRED database.
- Regression results show extremely low R<sup>2</sup> value and negative coefficient, so average cost estimate used.

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.214162358
R Square	0.045865516
Adjusted R Square	0.016048813
Standard Error	1924161.107
Observations	34

ANOVA

	df	SS	MS	F	Significance F
Regression	1	5.69521E+12	5.69521E+12	1.538249089	0.223896063
Residual	32	1.18477E+14	3.7024E+12		
Total	33	1.24172E+14			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	8330289.919	2143782.959	3.885789783	0.000482209	3963546.929	12697032.91	3963546.93	12697032.91
X Variable 1	-33.04612807	26.64447997	-1.240261702	0.223896063	-87.31915773	21.2269016	-87.3191577	21.2269016

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Plant-Related A&G Marginal Loading Factor**

Line No.	Year	Plant Related A&G		Loading Factor	Cumulative Avg. Loading	
		Expense (\$)	Total Utility Plant (\$)		Factor Customer	Factor Customer
	[1]	[2]	[3]	[4]	[5]	[6]
1	1989	\$1,364,240	\$90,119,098	1.51%	34yr avg	0.572%
2	1990	\$1,429,254	\$99,467,339	1.44%	33yr avg	0.543%
3	1991	\$1,427,802	\$106,202,255	1.34%	32yr avg	0.515%
4	1992	\$1,435,822	\$112,423,806	1.28%	31yr avg	0.488%
5	1993	\$1,445,997	\$118,656,821	1.22%	30yr avg	0.462%
6	1994	\$1,342,813	\$124,120,097	1.08%	29yr avg	0.436%
7	1995	\$1,200,572	\$129,472,654	0.93%	28yr avg	0.413%
8	1996	\$1,405,850	\$135,806,318	1.04%	27yr avg	0.394%
9	1997	\$1,422,193	\$145,866,429	0.97%	26yr avg	0.369%
10	1998	\$1,311,090	\$156,424,246	0.84%	25yr avg	0.345%
11	1999	\$1,624,095	\$166,682,099	0.97%	24yr avg	0.324%
12	2000	\$2,209,040	\$174,018,261	1.27%	23yr avg	0.296%
13	2001	\$1,000,753	\$189,363,169	0.53%	22yr avg	0.252%
14	2002	\$1,127,386	\$202,252,941	0.56%	21yr avg	0.239%
15	2003	\$413,762	\$227,692,187	0.18%	20yr avg	0.223%
16	2004	\$401,446	\$239,474,276	0.17%	19yr avg	0.225%
17	2005	\$686,615	\$242,115,491	0.28%	18yr avg	0.228%
18	2006	\$696,565	\$263,405,595	0.26%	17yr avg	0.225%
19	2007	\$705,896	\$280,967,870	0.25%	16yr avg	0.222%
20	2008	\$734,523	\$298,931,548	0.25%	15yr avg	0.220%
21	2009	\$756,942	\$318,900,861	0.24%	14yr avg	0.219%
22	2010	\$1,218,997	\$328,222,369	0.37%	13yr avg	0.217%
23	2011	\$388,947	\$338,986,146	0.11%	12yr avg	0.204%
24	2012	\$689,718	\$339,610,905	0.20%	11yr avg	0.212%
25	2013	\$1,071,232	\$360,914,157	0.30%	10yr avg	0.213%
26	2014	\$1,132,042	\$379,562,429	0.30%	9yr avg	0.204%
27	2015	\$1,135,511	\$426,165,148	0.27%	8yr avg	0.192%
28	2016	\$909,139	\$459,143,909	0.20%	7yr avg	0.182%
29	2017	\$776,521	\$491,757,243	0.16%	6yr avg	0.179%
30	2018	\$939,134	\$538,745,644	0.17%	5yr avg	0.183%
31	2019	\$1,039,393	\$595,576,448	0.17%	4yr avg	0.185%
32	2020	\$1,107,384	\$636,781,754	0.17%	3yr avg	0.189%
33	2021	\$1,197,349	\$673,463,476	0.18%	2yr avg	0.196%
34	2022	\$1,696,014	\$788,328,597	0.22%	Current	0.215%

35	Average Loading Factor	Col [6]
36	34yr avg	0.57%
37	20yr avg	0.22%
38	10yr avg	0.21%
39	5yr avg	0.18%
40	Current	0.22%

41	MARGINAL LOADING FACTOR FOR PLANT A&G	
42	5yr avg	
43	%	<b>0.18%</b>

NOTES:

1 Source: Company data.

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Non-Plant Related A&G Marginal Loading Factor**

Line No.	Year	Non-Plant Related A&G			Cummulative Avg.	
		Expense (\$)	Adjusted O&M (\$)	Loading Factor	Loading Factor	Customer
	[1]	[2]	[3]	[4]	[5]	[6]
1	1989	\$5,909,986	\$8,789,813	67.24%	34yr avg	62.8%
2	1990	\$5,916,868	\$9,468,756	62.49%	33yr avg	62.7%
3	1991	\$6,262,331	\$9,604,565	65.20%	32yr avg	62.7%
4	1992	\$6,307,455	\$9,919,580	63.59%	31yr avg	62.6%
5	1993	\$6,311,505	\$10,375,088	60.83%	30yr avg	62.6%
6	1994	\$6,463,160	\$10,955,356	59.00%	29yr avg	62.6%
7	1995	\$5,625,812	\$10,756,889	52.30%	28yr avg	62.8%
8	1996	\$5,708,347	\$10,442,201	54.67%	27yr avg	63.2%
9	1997	\$5,543,252	\$10,255,675	54.05%	26yr avg	63.5%
10	1998	\$5,620,410	\$10,423,880	53.92%	25yr avg	63.9%
11	1999	\$6,187,199	\$10,155,876	60.92%	24yr avg	64.3%
12	2000	\$6,308,523	\$9,150,670	68.94%	23yr avg	64.4%
13	2001	\$11,088,012	\$7,533,407	147.18%	22yr avg	64.2%
14	2002	\$4,904,823	\$6,352,629	77.21%	21yr avg	60.3%
15	2003	\$4,376,775	\$8,615,202	50.80%	20yr avg	59.4%
16	2004	\$5,713,357	\$9,367,067	60.99%	19yr avg	59.9%
17	2005	\$4,218,671	\$10,090,659	41.81%	18yr avg	59.8%
18	2006	\$5,464,787	\$11,466,986	47.66%	17yr avg	60.9%
19	2007	\$5,829,666	\$11,734,639	49.68%	16yr avg	61.7%
20	2008	\$7,666,805	\$12,318,347	62.24%	15yr avg	62.5%
21	2009	\$7,997,073	\$13,469,376	59.37%	14yr avg	62.5%
22	2010	\$9,072,506	\$14,925,410	60.79%	13yr avg	62.7%
23	2011	\$6,668,773	\$16,907,246	39.44%	12yr avg	62.9%
24	2012	\$14,901,222	\$16,624,967	89.63%	11yr avg	65.0%
25	2013	\$13,527,831	\$12,972,812	104.28%	10yr avg	62.6%
26	2014	\$9,650,588	\$20,243,503	47.67%	9yr avg	57.9%
27	2015	\$11,452,287	\$19,797,077	57.85%	8yr avg	59.2%
28	2016	\$12,293,594	\$18,126,160	67.82%	7yr avg	59.4%
29	2017	\$11,392,447	\$18,961,161	60.08%	6yr avg	58.0%
30	2018	\$9,952,862	\$20,865,808	47.70%	5yr avg	57.6%
31	2019	\$11,610,667	\$19,756,858	58.77%	4yr avg	60.1%
32	2020	\$11,582,770	\$17,643,161	65.65%	3yr avg	60.5%
33	2021	\$10,485,218	\$18,751,524	55.92%	2yr avg	58.0%
34	2022	\$10,815,922	\$18,006,274	60.07%	Current	60.1%
35	Average Loading Factor				Col [6]	
36	34yr avg					62.82%
37	20yr avg					59.41%
38	10yr avg					62.58%
39	5yr avg					57.62%
40	Current					60.07%
43	MARGINAL LOADING FACTOR FOR NON-PLANT A&G					
44	34yr avg					
45	%					<b>62.82%</b>

NOTES:

1 Source: Company data.

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Materials & Supplies and Prepayments Marginal Loading Factor**

Line No.	Year	Materials & Supplies and Prepayments (\$)	Total Utility Plant (\$)	Loading Factor	Cumulative Avg. Loading Factor Customer	
	[1]	[2]	[3]	[4]	[5]	[6]
1	1989	\$3,629,263	\$90,119,098	4.03%	34yr avg	1.4%
2	1990	\$2,814,685	\$99,467,339	2.83%	33yr avg	1.3%
3	1991	\$2,978,851	\$106,202,255	2.80%	32yr avg	1.2%
4	1992	\$2,903,000	\$112,423,806	2.58%	31yr avg	1.2%
5	1993	\$2,911,222	\$118,656,821	2.45%	30yr avg	1.1%
6	1994	\$2,603,364	\$124,120,097	2.10%	29yr avg	1.1%
7	1995	\$2,653,717	\$129,472,654	2.05%	28yr avg	1.0%
8	1996	\$2,551,060	\$135,806,318	1.88%	27yr avg	1.0%
9	1997	\$2,737,535	\$145,866,429	1.88%	26yr avg	1.0%
10	1998	\$2,351,916	\$156,424,246	1.50%	25yr avg	0.9%
11	1999	\$2,472,925	\$166,682,099	1.48%	24yr avg	0.9%
12	2000	\$1,694,816	\$174,018,261	0.97%	23yr avg	0.9%
13	2001	\$1,423,213	\$189,363,169	0.75%	22yr avg	0.9%
14	2002	\$688,197	\$202,252,941	0.34%	21yr avg	0.9%
15	2003	\$12,491	\$227,692,187	0.01%	20yr avg	0.9%
16	2004	\$89,880	\$239,474,276	0.04%	19yr avg	1.0%
17	2005	\$464,721	\$242,115,491	0.19%	18yr avg	1.0%
18	2006	\$570,708	\$263,405,595	0.22%	17yr avg	1.1%
19	2007	\$556,729	\$280,967,870	0.20%	16yr avg	1.1%
20	2008	\$338,049	\$298,931,548	0.11%	15yr avg	1.2%
21	2009	\$356,896	\$318,900,861	0.11%	14yr avg	1.3%
22	2010	\$46,167	\$328,222,369	0.01%	13yr avg	1.3%
23	2011	\$2,715,050	\$338,986,146	0.80%	12yr avg	1.5%
24	2012	\$3,479,465	\$339,610,905	1.02%	11yr avg	1.5%
25	2013	\$2,870,074	\$360,914,157	0.80%	10yr avg	1.6%
26	2014	\$4,730,829	\$379,562,429	1.25%	9yr avg	1.7%
27	2015	\$6,132,549	\$426,165,148	1.44%	8yr avg	1.7%
28	2016	\$7,076,674	\$459,143,909	1.54%	7yr avg	1.7%
29	2017	\$8,037,125	\$491,757,243	1.63%	6yr avg	1.8%
30	2018	\$10,609,413	\$538,745,644	1.97%	5yr avg	1.8%
31	2019	\$11,069,588	\$595,576,448	1.86%	4yr avg	1.8%
32	2020	\$12,021,071	\$636,781,754	1.89%	3yr avg	1.7%
33	2021	\$11,431,168	\$673,463,476	1.70%	2yr avg	1.7%
34	2022	\$12,842,146	\$788,328,597	1.63%	Current	1.6%

35	Average Loading Factor	<u>Col [6]</u>
36	34yr avg	1.35%
37	20yr avg	0.92%
38	10yr avg	1.57%
39	5yr avg	1.81%
40	Current	1.63%

41	MARGINAL LOADING FACTOR FOR MATERIALS & SUPPLIES AND PREPAYMENTS	
42	10yr avg	
43	%	<b>1.57%</b>

NOTES:

1 Source: Company data.

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**General Plant Marginal Loading Factor**

Line No.	Year	General Plant (\$)	Total Utility Plant (\$)	Total Utility Plant Less		Cumulative Avg.	
				General Plant (\$)	Loading Factor	Loading Factor	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]
1	1989	\$5,933,582	\$90,119,098	\$84,185,516	7.05%	34yr avg	5.7%
2	1990	\$6,503,724	\$99,467,339	\$92,963,615	7.00%	33yr avg	5.6%
3	1991	\$6,849,445	\$106,202,255	\$99,352,810	6.89%	32yr avg	5.6%
4	1992	\$7,659,250	\$112,423,806	\$104,764,556	7.31%	31yr avg	5.6%
5	1993	\$7,970,207	\$118,656,821	\$110,686,614	7.20%	30yr avg	5.5%
6	1994	\$8,384,740	\$124,120,097	\$115,735,357	7.24%	29yr avg	5.4%
7	1995	\$8,221,795	\$129,472,654	\$121,250,859	6.78%	28yr avg	5.4%
8	1996	\$8,870,155	\$135,806,318	\$126,936,163	6.99%	27yr avg	5.3%
9	1997	\$9,203,222	\$145,866,429	\$136,663,207	6.73%	26yr avg	5.3%
10	1998	\$9,478,301	\$156,424,246	\$146,945,945	6.45%	25yr avg	5.2%
11	1999	\$11,244,509	\$166,682,099	\$155,437,590	7.23%	24yr avg	5.2%
12	2000	\$7,255,965	\$174,018,261	\$166,762,296	4.35%	23yr avg	5.1%
13	2001	\$8,348,042	\$189,363,169	\$181,015,127	4.61%	22yr avg	5.1%
14	2002	\$11,173,887	\$202,252,941	\$191,079,054	5.85%	21yr avg	5.1%
15	2003	\$11,582,178	\$227,692,187	\$216,110,009	5.36%	20yr avg	5.1%
16	2004	\$10,499,392	\$239,474,276	\$228,974,884	4.59%	19yr avg	5.1%
17	2005	\$10,220,042	\$242,115,491	\$231,895,449	4.41%	18yr avg	5.1%
18	2006	\$11,333,343	\$263,405,595	\$252,072,252	4.50%	17yr avg	5.1%
19	2007	\$12,089,175	\$280,967,870	\$268,878,695	4.50%	16yr avg	5.2%
20	2008	\$15,097,758	\$298,931,548	\$283,833,790	5.32%	15yr avg	5.2%
21	2009	\$16,049,203	\$318,900,861	\$302,851,658	5.30%	14yr avg	5.2%
22	2010	\$16,060,707	\$328,222,369	\$312,161,662	5.14%	13yr avg	5.2%
23	2011	\$16,195,189	\$338,986,146	\$322,790,957	5.02%	12yr avg	5.2%
24	2012	\$8,811,783	\$339,610,905	\$330,799,122	2.66%	11yr avg	5.2%
25	2013	\$9,473,843	\$360,914,157	\$351,440,314	2.70%	10yr avg	5.5%
26	2014	\$10,590,671	\$379,562,429	\$368,971,758	2.87%	9yr avg	5.8%
27	2015	\$18,670,190	\$426,165,148	\$407,494,958	4.58%	8yr avg	6.2%
28	2016	\$23,861,850	\$459,143,909	\$435,282,059	5.48%	7yr avg	6.4%
29	2017	\$25,425,819	\$491,757,243	\$466,331,424	5.45%	6yr avg	6.5%
30	2018	\$28,196,651	\$538,745,644	\$510,548,993	5.52%	5yr avg	6.8%
31	2019	\$34,662,196	\$595,576,448	\$560,914,252	6.18%	4yr avg	7.1%
32	2020	\$44,408,335	\$636,781,754	\$592,373,419	7.50%	3yr avg	7.4%
33	2021	\$48,182,265	\$673,463,476	\$625,281,211	7.71%	2yr avg	7.3%
34	2022	\$51,053,039	\$788,328,597	\$737,275,558	6.92%	Current	6.9%

35	Average Loading Factor	Col [6]
36	34yr avg	7.05%
37	20yr avg	5.36%
38	10yr avg	2.70%
39	5yr avg	5.52%
40	Current	6.92%

41	MARGINAL LOADING FACTOR FOR GENERAL PLANT	
42	34yr avg	
43	%	<b>7.05%</b>

NOTES:

1 Source: Company data.



**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Class Weighted Bad Debt Expense**

Line No.	Rate Class	2022 Gross Bad Debt Expense	Percent of Total	2022 Adjusted Bad Debt Accounts Expense	TY Calendar and Weather Normalized Delivery Revenues @ Current Rates (Eff. 8/1/23)	Bad Debt Expense Percentage
		[1]	[2]	[3]	[4]	[5]
1	R-1/R-5	\$46,991	5.04%	\$58,189	\$1,053,354	5.52%
2	R-3/R-4/R6/R-7	\$786,231	84.41%	\$973,593	\$52,353,807	1.86%
3	G-41/G-44	\$69,324	7.44%	\$85,845	\$16,380,339	0.52%
4	G-42/G-45	\$15,036	1.61%	\$18,619	\$15,647,893	0.12%
5	G-43/G-46	\$0	0.00%	\$0	\$3,739,454	0.00%
6	G-51/G-55	\$2,953	0.32%	\$3,657	\$1,871,369	0.20%
7	G-52/G-56	\$10,929	1.17%	\$13,533	\$2,598,462	0.52%
8	G-53/G-57	\$0	0.00%	\$0	\$1,767,887	0.00%
9	G-54/G-58	\$0	0.00%	\$0	\$1,140,581	0.00%
10	Total	\$931,464	100.00%	\$1,153,435	\$96,553,144	1.19%

[1] Company data

[2] Col [1] Line (n) / Col [1] Line 10

[3] Col [2] Line (n) x Col [3] Line 10

[4] See Rate Design Model

[5] Col [3] / Col [4]

**Liberty Utilities (EnergyNorth Natural Gas) Corp.**  
**Marginal Cost Study**

**Carrying Charges Inputs**

Line	Description	Peaking plant	Main Reinforcement	Main Extensions	Services	Meters	
1	Plant data						
2	Capitalized cost	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
3	Book life	34	58	59	50	28	[1]
4	Salvage value	0%	-14%	-14%	-60%	0%	[2]
5	MACRS life	20	20	20	20	20	[3]
6	Capital structure						
7	Long-term debt ratio	45.00%	45.00%	45.00%	45.00%	45.00%	[4]
8	Short-term debt ratio	0.00%	0.00%	0.00%	0.00%	0.00%	[5]
9	Preferred ratio	0.00%	0.00%	0.00%	0.00%	0.00%	[6]
10	Common ratio	55.00%	55.00%	55.00%	55.00%	55.00%	[7]
11	Other	0.00%	0.00%	0.00%	0.00%	0.00%	[8]
12	Cost of capital						
13	Long-term debt cost	4.42%	4.42%	4.42%	4.42%	4.42%	[9]
14	Short-term debt cost	0.00%	0.00%	0.00%	0.00%	0.00%	
15	Preferred cost	0.00%	0.00%	0.00%	0.00%	0.00%	[10]
16	Common cost	10.35%	10.35%	10.35%	10.35%	10.35%	[11]
17	Other	0.00%	0.00%	0.00%	0.00%	0.00%	[12]
18	WACC	7.68%	7.68%	7.68%	7.68%	7.68%	[13]
19	After tax WACC	7.14%	7.14%	7.14%	7.14%	7.14%	[14]
20	Tax affected cost of capital	9.78%	9.78%	9.78%	9.78%	9.78%	[15]
21	Tax info						
22	Tax rate	26.93%	26.93%	26.93%	26.93%	26.93%	[16]
23	Property tax rate	2.04%	2.04%	2.04%	2.04%	2.04%	[17]
24	Property insurance rate	0.20%	0.20%	0.20%	0.20%	0.20%	[18]
25	Misc data						
26	Inflation rate	2.98%	2.98%	2.98%	2.98%	2.98%	[19]
27	Constant \$ disc rate	4.17%	4.17%	4.17%	4.17%	4.17%	[20]
28	Property tax escalation rate	2.98%	2.98%	2.98%	2.98%	2.98%	[21]

[1] MCOS-5 Page 2

[2] MCOS-5 Page 2

[3] MCOS-5 Page 2

[4] Ann E. Bukley and Christopher M. Wall

[5] Ann E. Bukley and Christopher M. Wall

[6] Ann E. Bukley and Christopher M. Wall

[7] Ann E. Bukley and Christopher M. Wall

[8] Ann E. Bukley and Christopher M. Wall

[9] Ann E. Bukley and Christopher M. Wall

[10] Ann E. Bukley and Christopher M. Wall

[11] Ann E. Bukley and Christopher M. Wall

[12] Ann E. Bukley and Christopher M. Wall

[13] Line 7 x Line 13 + Line 8 x Line 14 + Line 9 x Line 15 + Line 10 x Line 16 + Line 11 x Line 17

[14] (1 - Line 22) \* Line 20

[15] Line 19 / (1 - Line 22)

[16] Revenue Requirements RR-1

[17] Revenue Requirements Step-EN-2023

[18] Revenue Requirements Step-EN-2023

[20] Line 19 - Line 26

[21] Line 26

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study**

**Development of Plant Service Lives and Net Salvage**

Line	Account	Description	[A]	[B]	[C]	
			Test Year Plant Balance	Average Service Life	Net Salvage Value	
1		<u>Service Life For Hypothetical Production Plant</u>				
2	305	Structures and Improvements	\$852,167	35.0	0.0%	[1]
3	319	Gas Mixing Equipment	\$577,923	20.0	0.0%	[1]
4	320	Other Equipment-LNG	\$7,323,561	35.0	0.0%	[1]
5	360	Structures and Improvements	\$96,980	35.0	0.0%	[1]
6	363.5	Other Equipment	\$7,646	35.0	0.0%	[1]
7		<b>Total Hypothetical Production Plant</b>	<b>\$8,858,275</b>	<b>34.0</b>	<b>0.0%</b>	[2]
			<b>Projected Plant through 2033</b>	<b>Average Service Life</b>	<b>Net Salvage Value</b>	
8		<u>Service Life for Mains Related Reinforcements</u>				
9	379	Gate Station	\$1,000,000	35.0	0.0%	[1]
10	369/378/379	Measuring and Regulating Station	\$5,775,000	35.0	0.0%	[1]
11	376	Mains	\$91,056,000	60.0	-15.0%	[1]
12		<b>Total Mains Related Reinforcements</b>	<b>\$97,831,000</b>	<b>58.3</b>	<b>-14.0%</b>	[2]
			<b>Test Year Plant Balance</b>	<b>Average Service Life</b>	<b>Net Salvage Value</b>	
13		<u>Service Life For Mains Extensions</u>				
14	367	Trans. Plant - Mains	\$11,737,328	60.0	-15.0%	[1]
15	369	Trans. Plant Measuring and Regulation Station Equipment	\$252,390	35.0	0.0%	[1]
16	375	Dist. Plant - Structures and Improvements	\$1,699,681	35.0	0.0%	[1]
17	376	Dist. Plant - Mains	\$391,905,351	60.0	-15.0%	[1]
18	377	Dist Plant - Compressor Station Equipment	\$2,246,186	35.0	0.0%	[1]
19	378	Dist. Plant Measuring and Regulation Station Equip. General	\$9,590,382	35.0	0.0%	[1]
20	379	Dist. Plant Measuring and Regulation Station Equip. City Gate	\$5,482,605	35.0	0.0%	[1]
21	387	Other Equipment	\$2,596,695	19.0	0.0%	[1]
22		<b>Mains Extensions Total</b>	<b>\$425,510,617</b>	<b>58.6</b>	<b>-14.2%</b>	[2]
			<b>Test Year Plant Balance</b>	<b>Average Service Life</b>	<b>Net Salvage Value</b>	
23		<u>Service Life for Services</u>				
24	380	Services	\$217,226,816	50.0	-60.0%	[1]
25		<b>Services Total</b>	<b>\$217,226,816</b>	<b>50.0</b>	<b>-60.0%</b>	
			<b>Test Year Plant Balance</b>	<b>Average Service Life</b>	<b>Net Salvage Value</b>	
26		<u>Service Life for Meters</u>				
27	381	Meters	\$18,719,903	30.0	0.0%	[1]
28	381.2	Meters - ERTs/Comm Devices	\$6,347,958	15.0	0.0%	[1]
29	382	Meter Installation	\$28,547,303	30.0	0.0%	[1]
30		<b>Meters Total</b>	<b>\$53,615,164</b>	<b>28.2</b>	<b>0.0%</b>	[2]

[1] Source: Company data

[2] Weighted average of lines above

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Development of Revenue Requirements Stream  
Peaker Plant

Year	PV Factor	Rate Base	Interest on Debt	Return on Preferred Equity	Return on Common Equity	Tax Depreciation	Tax Depreciation Rate	Book Depreciation	Deferred Taxes	Taxable Income	Income Taxes	Property Tax	Property Insurance	Revenue Requirement	% of Original Investment Revenue	PV of Revenue Requirement
0	1.00	1000														
1	0.93	968.41	19.25	0.00	55.13	37.50	3.75%	29.41	2.18	67.36	18.14	20.40	2.00	146.50	14.65%	136.73
2	0.87	927.48	18.44	0.00	52.80	72.19	7.22%	29.41	11.52	29.48	7.94	21.01	2.06	143.17	14.32%	124.71
3	0.81	888.01	17.65	0.00	50.55	66.77	6.68%	29.41	10.06	31.82	8.57	21.63	2.12	140.00	14.00%	113.82
4	0.76	849.88	16.89	0.00	48.38	61.77	6.18%	29.41	8.71	33.85	9.12	22.28	2.18	136.98	13.70%	103.93
5	0.71	813.00	16.16	0.00	46.28	57.13	5.71%	29.41	7.46	35.62	9.59	22.94	2.25	134.10	13.41%	94.97
6	0.66	777.28	15.45	0.00	44.25	52.85	5.29%	29.41	6.31	37.12	10.00	23.63	2.32	131.36	13.14%	86.82
7	0.62	742.63	14.76	0.00	42.27	48.88	4.89%	29.41	5.24	38.39	10.34	24.33	2.39	128.74	12.87%	79.42
8	0.58	708.96	14.09	0.00	40.36	45.22	4.52%	29.41	4.26	39.42	10.62	25.06	2.46	126.25	12.62%	72.69
9	0.54	675.45	13.43	0.00	38.45	44.62	4.46%	29.41	4.10	37.41	10.08	25.80	2.53	123.79	12.38%	66.52
10	0.50	641.94	12.76	0.00	36.54	44.61	4.46%	29.41	4.09	34.81	9.37	26.57	2.60	121.36	12.14%	60.86
11	0.47	608.44	12.09	0.00	34.64	44.62	4.46%	29.41	4.10	32.19	8.67	27.36	2.68	118.95	11.90%	55.68
12	0.44	574.93	11.43	0.00	32.73	44.61	4.46%	29.41	4.09	29.59	7.97	28.18	2.76	116.57	11.66%	50.92
13	0.41	541.43	10.76	0.00	30.82	44.62	4.46%	29.41	4.10	26.97	7.26	29.02	2.84	114.21	11.42%	46.57
14	0.38	507.92	10.10	0.00	28.91	44.61	4.46%	29.41	4.09	24.37	6.56	29.88	2.93	111.89	11.19%	42.58
15	0.36	474.41	9.43	0.00	27.01	44.62	4.46%	29.41	4.10	21.75	5.86	30.77	3.02	109.59	10.96%	38.92
16	0.33	440.91	8.76	0.00	25.10	44.61	4.46%	29.41	4.09	19.15	5.16	31.69	3.11	107.32	10.73%	35.57
17	0.31	407.40	8.10	0.00	23.19	44.62	4.46%	29.41	4.10	16.53	4.45	32.63	3.20	105.08	10.51%	32.51
18	0.29	373.90	7.43	0.00	21.28	44.61	4.46%	29.41	4.09	13.93	3.75	33.61	3.29	102.87	10.29%	29.70
19	0.27	340.39	6.77	0.00	19.38	44.62	4.46%	29.41	4.10	11.31	3.05	34.61	3.39	100.70	10.07%	27.14
20	0.25	306.88	6.10	0.00	17.47	44.61	4.46%	29.41	4.09	8.71	2.35	35.64	3.49	98.55	9.86%	24.79
21	0.23	279.39	5.55	0.00	15.90	22.31	2.23%	29.41	(1.91)	28.87	7.77	36.70	3.60	97.03	9.70%	22.78
22	0.22	257.89	5.13	0.00	14.68	0.00		29.41	(7.92)	49.50	13.33	37.79	3.71	96.13	9.61%	21.06
23	0.20	236.40	4.70	0.00	13.46	0.00		29.41	(7.92)	47.83	12.88	38.92	3.82	95.26	9.53%	19.48
24	0.19	214.91	4.27	0.00	12.23	0.00		29.41	(7.92)	46.15	12.43	40.08	3.93	94.44	9.44%	18.02
25	0.18	193.42	3.84	0.00	11.01	0.00		29.41	(7.92)	44.48	11.98	41.27	4.05	93.65	9.36%	16.68
26	0.17	171.93	3.42	0.00	9.79	0.00		29.41	(7.92)	42.81	11.53	42.50	4.17	92.89	9.29%	15.44
27	0.16	150.44	2.99	0.00	8.56	0.00		29.41	(7.92)	41.13	11.08	43.77	4.29	92.18	9.22%	14.30
28	0.14	128.95	2.56	0.00	7.34	0.00		29.41	(7.92)	39.46	10.63	45.07	4.42	91.51	9.15%	13.25
29	0.14	107.46	2.14	0.00	6.12	0.00		29.41	(7.92)	37.78	10.17	46.42	4.55	90.89	9.09%	12.28
30	0.13	85.96	1.71	0.00	4.89	0.00		29.41	(7.92)	36.11	9.72	47.80	4.69	90.31	9.03%	11.39
31	0.12	64.47	1.28	0.00	3.67	0.00		29.41	(7.92)	34.43	9.27	49.23	4.83	89.77	8.98%	10.57
32	0.11	42.98	0.85	0.00	2.45	0.00		29.41	(7.92)	32.76	8.82	50.69	4.97	89.28	8.93%	9.81
33	0.10	21.49	0.43	0.00	1.22	0.00		29.41	(7.92)	31.09	8.37	52.20	5.12	88.83	8.88%	9.11
34	0.10	0.00	0.00	0.00	0.00	0.00		29.41	(7.92)	29.41	7.92	53.76	5.27	88.44	8.84%	8.46
<b>Total</b>			<b>288.71</b>		<b>826.85</b>	<b>1,000.00</b>		<b>1,000.00</b>	<b>(0.00)</b>	<b>1,131.59</b>	<b>304.74</b>	<b>1,173.25</b>	<b>115.02</b>	<b>3,708.58</b>	<b>370.86%</b>	<b>1,527.50</b>
<b>PV</b>			<b>153.91</b>		<b>440.78</b>	<b>538.31</b>		<b>372.25</b>	<b>44.72</b>	<b>437.17</b>	<b>117.73</b>	<b>362.57</b>	<b>35.55</b>	<b>1,527.50</b>	<b>152.75%</b>	
<b>Levelized payment current \$</b>			<b>12.16</b>		<b>34.83</b>	<b>42.53</b>		<b>29.41</b>	<b>3.53</b>	<b>34.54</b>	<b>9.30</b>	<b>28.65</b>	<b>2.81</b>	<b>120.69</b>	<b>12.07%</b>	
<b>Levelized payment constant \$</b>			<b>8.54</b>		<b>24.47</b>	<b>29.88</b>		<b>20.66</b>	<b>2.48</b>	<b>24.27</b>	<b>6.54</b>	<b>20.13</b>	<b>1.97</b>	<b>84.80</b>	<b>8.48%</b>	

**Liberty Utilities (EnergyNorth Natural Gas) Corp.  
 Marginal Cost Study**

**Development of Revenue Requirements Stream  
 Capacity-Related Main Reinforcement**

Year	Rate Base	Interest on Debt	Return on Preferred Equity	Return on Common Equity	Tax Depreciation	Tax Depreciation Rate	Book Depreciation	Deferred Taxes	Taxable Income	Income Taxes	Property Tax	Property Insurance	Revenue Requirement	% of Original Investment Revenue	PV of Revenue Requirement
0	1000.00														
1	975.54	19.39	0.00	55.53	37.50	3.75%	19.65	4.81	58.15	15.66	20.40	2.00	137.44	13.74%	128.27
2	941.75	18.72	0.00	53.61	72.19	7.22%	19.65	14.15	20.82	5.61	21.01	2.06	134.80	13.48%	117.42
3	909.41	18.08	0.00	51.77	66.77	6.68%	19.65	12.69	23.73	6.39	21.63	2.12	132.33	13.23%	107.58
4	878.42	17.46	0.00	50.00	61.77	6.18%	19.65	11.34	26.31	7.09	22.28	2.18	130.00	13.00%	98.64
5	848.67	16.87	0.00	48.31	57.13	5.71%	19.65	10.09	28.63	7.71	22.94	2.25	127.82	12.78%	90.52
6	820.08	16.30	0.00	46.68	52.85	5.29%	19.65	8.94	30.69	8.26	23.63	2.32	125.78	12.58%	83.13
7	792.56	15.75	0.00	45.12	48.88	4.89%	19.65	7.87	32.51	8.76	24.33	2.39	123.86	12.39%	76.41
8	766.03	15.23	0.00	43.61	45.22	4.52%	19.65	6.89	34.11	9.18	25.06	2.46	122.06	12.21%	70.28
9	739.66	14.70	0.00	42.10	44.62	4.46%	19.65	6.72	32.65	8.79	25.80	2.53	120.30	12.03%	64.65
10	713.28	14.18	0.00	40.60	44.61	4.46%	19.65	6.72	30.61	8.24	26.57	2.60	118.57	11.86%	59.46
11	686.91	13.65	0.00	39.10	44.62	4.46%	19.65	6.72	28.54	7.69	27.36	2.68	116.86	11.69%	54.70
12	660.54	13.13	0.00	37.60	44.61	4.46%	19.65	6.72	26.50	7.14	28.18	2.76	115.18	11.52%	50.32
13	634.17	12.61	0.00	36.10	44.62	4.46%	19.65	6.72	24.43	6.58	29.02	2.84	113.52	11.35%	46.29
14	607.80	12.08	0.00	34.60	44.61	4.46%	19.65	6.72	22.39	6.03	29.88	2.93	111.89	11.19%	42.58
15	581.42	11.56	0.00	33.10	44.62	4.46%	19.65	6.72	20.32	5.47	30.77	3.02	110.29	11.03%	39.17
16	555.05	11.03	0.00	31.60	44.61	4.46%	19.65	6.72	18.28	4.92	31.69	3.11	108.72	10.87%	36.04
17	528.68	10.51	0.00	30.10	44.62	4.46%	19.65	6.72	16.22	4.37	32.63	3.20	107.18	10.72%	33.16
18	502.31	9.98	0.00	28.59	44.61	4.46%	19.65	6.72	14.17	3.82	33.61	3.29	105.67	10.57%	30.51
19	475.94	9.46	0.00	27.09	44.62	4.46%	19.65	6.72	12.11	3.26	34.61	3.39	104.19	10.42%	28.08
20	449.57	8.94	0.00	25.59	44.61	4.46%	19.65	6.72	10.06	2.71	35.64	3.49	102.74	10.27%	25.84
21	429.20	8.53	0.00	24.43	22.31	2.23%	19.65	0.72	30.78	8.29	36.70	3.60	101.91	10.19%	23.92
22	414.84	8.25	0.00	23.61	0.00		19.65	(5.29)	51.97	13.99	37.79	3.71	101.71	10.17%	22.28
23	400.49	7.96	0.00	22.80	0.00		19.65	(5.29)	50.85	13.69	38.92	3.82	101.54	10.15%	20.76
24	386.13	7.67	0.00	21.98	0.00		19.65	(5.29)	49.73	13.39	40.08	3.93	101.41	10.14%	19.35
25	371.77	7.39	0.00	21.16	0.00		19.65	(5.29)	48.61	13.09	41.27	4.05	101.32	10.13%	18.05
26	357.41	7.10	0.00	20.35	0.00		19.65	(5.29)	47.49	12.79	42.50	4.17	101.27	10.13%	16.84
27	343.06	6.82	0.00	19.53	0.00		19.65	(5.29)	46.37	12.49	43.77	4.29	101.25	10.13%	15.71
28	328.70	6.53	0.00	18.71	0.00		19.65	(5.29)	45.26	12.19	45.07	4.42	101.28	10.13%	14.67
29	314.34	6.25	0.00	17.89	0.00		19.65	(5.29)	44.14	11.89	46.42	4.55	101.35	10.14%	13.70
30	299.99	5.96	0.00	17.08	0.00		19.65	(5.29)	43.02	11.58	47.80	4.69	101.47	10.15%	12.80
31	285.63	5.68	0.00	16.26	0.00		19.65	(5.29)	41.90	11.28	49.23	4.83	101.63	10.16%	11.96
32	271.27	5.39	0.00	15.44	0.00		19.65	(5.29)	40.78	10.98	50.69	4.97	101.84	10.18%	11.19
33	256.91	5.11	0.00	14.62	0.00		19.65	(5.29)	39.66	10.68	52.20	5.12	102.09	10.21%	10.47
34	242.56	4.82	0.00	13.81	0.00		19.65	(5.29)	38.54	10.38	53.76	5.27	102.40	10.24%	9.80
35	228.20	4.54	0.00	12.99	0.00		19.65	(5.29)	37.43	10.08	55.36	5.43	102.75	10.28%	9.18
36	213.84	4.25	0.00	12.17	0.00		19.65	(5.29)	36.31	9.78	57.01	5.59	103.16	10.32%	8.60
37	199.49	3.97	0.00	11.36	0.00		19.65	(5.29)	35.19	9.48	58.71	5.76	103.62	10.36%	8.06
38	185.13	3.68	0.00	10.54	0.00		19.65	(5.29)	34.07	9.18	60.46	5.93	104.14	10.41%	7.56
39	170.77	3.39	0.00	9.72	0.00		19.65	(5.29)	32.95	8.87	62.26	6.10	104.71	10.47%	7.10
40	156.41	3.11	0.00	8.90	0.00		19.65	(5.29)	31.83	8.57	64.12	6.29	105.34	10.53%	6.66
41	142.06	2.82	0.00	8.09	0.00		19.65	(5.29)	30.72	8.27	66.03	6.47	106.04	10.60%	6.26
42	127.70	2.54	0.00	7.27	0.00		19.65	(5.29)	29.60	7.97	67.99	6.67	106.79	10.68%	5.89
43	113.34	2.25	0.00	6.45	0.00		19.65	(5.29)	28.48	7.67	70.02	6.86	107.61	10.76%	5.53
44	98.99	1.97	0.00	5.63	0.00		19.65	(5.29)	27.36	7.37	72.11	7.07	108.50	10.85%	5.21
45	84.63	1.68	0.00	4.82	0.00		19.65	(5.29)	26.24	7.07	74.25	7.28	109.46	10.95%	4.90
46	70.27	1.40	0.00	4.00	0.00		19.65	(5.29)	25.12	6.77	76.47	7.50	110.48	11.05%	4.62
47	55.91	1.11	0.00	3.18	0.00		19.65	(5.29)	24.00	6.46	78.75	7.72	111.58	11.16%	4.35
48	41.56	0.83	0.00	2.37	0.00		19.65	(5.29)	22.89	6.16	81.09	7.95	112.75	11.28%	4.11
49	27.20	0.54	0.00	1.55	0.00		19.65	(5.29)	21.77	5.86	83.51	8.19	114.00	11.40%	3.88
50	12.84	0.26	0.00	0.73	0.00		19.65	(5.29)	20.65	5.56	86.00	8.43	115.33	11.53%	3.66
51	(1.51)	(0.03)	0.00	(0.09)	0.00		19.65	(5.29)	19.53	5.26	88.56	8.68	116.74	11.67%	3.46
52	(15.87)	(0.32)	0.00	(0.90)	0.00		19.65	(5.29)	18.41	4.96	91.20	8.94	118.24	11.82%	3.27
53	(30.23)	(0.60)	0.00	(1.72)	0.00		19.65	(5.29)	17.29	4.66	93.92	9.21	119.82	11.98%	3.09
54	(44.59)	(0.89)	0.00	(2.54)	0.00		19.65	(5.29)	16.18	4.36	96.71	9.48	121.48	12.15%	2.92
55	(58.94)	(1.17)	0.00	(3.36)	0.00		19.65	(5.29)	15.06	4.05	99.60	9.76	123.24	12.32%	2.77
56	(73.30)	(1.46)	0.00	(4.17)	0.00		19.65	(5.29)	13.94	3.75	102.56	10.06	125.10	12.51%	2.62
57	(87.66)	(1.74)	0.00	(4.99)	0.00		19.65	(5.29)	12.82	3.45	105.62	10.35	127.05	12.71%	2.49
58	(102.01)	(2.03)	0.00	(5.81)	0.00		19.65	(5.29)	11.70	3.15	108.77	10.66	129.10	12.91%	2.36
59	(159.26)	(3.17)	0.00	(9.07)	159.26		19.65	37.60	(152.02)	(40.94)	112.01	10.98	127.06	12.71%	2.17
<b>Total</b>		<b>400.02</b>		<b>1145.62</b>	<b>1159.26</b>		<b>1159.26</b>	<b>0.00</b>	<b>1,567.84</b>	<b>422.22</b>	<b>3,186.31</b>	<b>312.38</b>	<b>6,625.80</b>	<b>662.58%</b>	<b>1,625.28</b>
<b>PV</b>		<b>176.65</b>		<b>505.90</b>	<b>541.02</b>		<b>270.31</b>	<b>72.90</b>	<b>421.64</b>	<b>113.55</b>	<b>442.57</b>	<b>43.39</b>	<b>1,625.28</b>	<b>\$1.63</b>	
<b>Levelized payment current \$</b>		<b>12.86</b>		<b>36.82</b>	<b>39.37</b>		<b>19.67</b>	<b>5.31</b>	<b>30.69</b>	<b>8.26</b>	<b>32.21</b>	<b>3.16</b>	<b>118.28</b>	<b>11.83%</b>	
<b>Levelized payment constant</b>		<b>8.12</b>		<b>23.25</b>	<b>24.87</b>		<b>12.42</b>	<b>3.35</b>	<b>19.38</b>	<b>5.22</b>	<b>20.34</b>	<b>1.99</b>	<b>74.70</b>	<b>7.47%</b>	

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Development of Revenue Requirements Stream  
Capacity-Related Main Extension

Year	Rate Base	Interest on Debt	Return on Preferred Equity	Return on Common Equity	Tax Depreciation	Tax Depreciation Rate	Book Depreciation	Deferred Taxes	Taxable Income	Income Taxes	Property Tax	Property Insurance	Revenue Requirement	% of Original Investment Revenue	PV of Revenue Requirement
0	1000.00														
1	975.75	19.39	0.00	55.54	37.50	3.75%	19.36	4.88	57.88	15.59	20.40	2.00	137.17	13.72%	128.02
2	942.17	18.73	0.00	53.63	72.19	7.22%	19.36	14.23	20.57	5.54	21.01	2.06	134.55	13.46%	117.21
3	910.04	18.09	0.00	51.80	66.77	6.68%	19.36	12.77	23.49	6.33	21.63	2.12	132.10	13.21%	107.40
4	879.26	17.48	0.00	50.05	61.77	6.18%	19.36	11.42	26.09	7.03	22.28	2.18	129.80	12.98%	98.49
5	849.72	16.89	0.00	48.37	57.13	5.71%	19.36	10.17	28.43	7.66	22.94	2.25	127.64	12.76%	90.39
6	821.35	16.33	0.00	46.76	52.85	5.29%	19.36	9.02	30.50	8.21	23.63	2.32	125.62	12.56%	83.03
7	794.03	15.78	0.00	45.20	48.88	4.89%	19.36	7.95	32.34	8.71	24.33	2.39	123.72	12.37%	76.32
8	767.71	15.26	0.00	43.70	45.22	4.52%	19.36	6.96	33.95	9.14	25.06	2.46	121.94	12.19%	70.21
9	741.55	14.74	0.00	42.21	44.62	4.46%	19.36	6.80	32.51	8.76	25.80	2.53	120.20	12.02%	64.59
10	715.39	14.22	0.00	40.72	44.61	4.46%	19.36	6.80	30.48	8.21	26.57	2.60	118.49	11.85%	59.42
11	689.22	13.70	0.00	39.23	44.62	4.46%	19.36	6.80	28.43	7.66	27.36	2.68	116.80	11.68%	54.67
12	663.06	13.18	0.00	37.74	44.61	4.46%	19.36	6.80	26.41	7.11	28.18	2.76	115.14	11.51%	50.30
13	636.90	12.66	0.00	36.26	44.62	4.46%	19.36	6.80	24.36	6.56	29.02	2.84	113.50	11.35%	46.28
14	610.74	12.14	0.00	34.77	44.61	4.46%	19.36	6.80	22.33	6.01	29.88	2.93	111.89	11.19%	42.58
15	584.58	11.62	0.00	33.28	44.62	4.46%	19.36	6.80	20.28	5.46	30.77	3.02	110.31	11.03%	39.18
16	558.42	11.10	0.00	31.79	44.61	4.46%	19.36	6.80	18.25	4.92	31.69	3.11	108.76	10.88%	36.05
17	532.25	10.58	0.00	30.30	44.62	4.46%	19.36	6.80	16.21	4.36	32.63	3.20	107.24	10.72%	33.18
18	506.09	10.06	0.00	28.81	44.61	4.46%	19.36	6.80	14.18	3.82	33.61	3.29	105.75	10.57%	30.53
19	479.93	9.54	0.00	27.32	44.62	4.46%	19.36	6.80	12.13	3.27	34.61	3.39	104.29	10.43%	28.10
20	453.77	9.02	0.00	25.83	44.61	4.46%	19.36	6.80	10.10	2.72	35.64	3.49	102.86	10.29%	25.87
21	433.61	8.62	0.00	24.68	22.31	2.23%	19.36	0.79	30.83	8.30	36.70	3.60	102.06	10.21%	23.96
22	419.47	8.34	0.00	23.88	0.00		19.36	(5.21)	52.04	14.01	37.79	3.71	101.88	10.19%	22.32
23	405.32	8.06	0.00	23.07	0.00		19.36	(5.21)	50.94	13.72	38.92	3.82	101.73	10.17%	20.80
24	391.17	7.78	0.00	22.27	0.00		19.36	(5.21)	49.84	13.42	40.08	3.93	101.62	10.16%	19.39
25	377.03	7.49	0.00	21.46	0.00		19.36	(5.21)	48.73	13.12	41.27	4.05	101.55	10.15%	18.09
26	362.88	7.21	0.00	20.66	0.00		19.36	(5.21)	47.63	12.83	42.50	4.17	101.51	10.15%	16.88
27	348.73	6.93	0.00	19.85	0.00		19.36	(5.21)	46.53	12.53	43.77	4.29	101.52	10.15%	15.75
28	334.58	6.65	0.00	19.05	0.00		19.36	(5.21)	45.43	12.23	45.07	4.42	101.57	10.16%	14.71
29	320.44	6.37	0.00	18.24	0.00		19.36	(5.21)	44.32	11.94	46.42	4.55	101.66	10.17%	13.74
30	306.29	6.09	0.00	17.44	0.00		19.36	(5.21)	43.22	11.64	47.80	4.69	101.80	10.18%	12.84
31	292.14	5.81	0.00	16.63	0.00		19.36	(5.21)	42.12	11.34	49.23	4.83	101.98	10.20%	12.01
32	278.00	5.53	0.00	15.82	0.00		19.36	(5.21)	41.02	11.05	50.69	4.97	102.21	10.22%	11.23
33	263.85	5.24	0.00	15.02	0.00		19.36	(5.21)	39.92	10.75	52.20	5.12	102.48	10.25%	10.51
34	249.70	4.96	0.00	14.21	0.00		19.36	(5.21)	38.81	10.45	53.76	5.27	102.81	10.28%	9.84
35	235.56	4.68	0.00	13.41	0.00		19.36	(5.21)	37.71	10.16	55.36	5.43	103.18	10.32%	9.22
36	221.41	4.40	0.00	12.60	0.00		19.36	(5.21)	36.61	9.86	57.01	5.59	103.61	10.36%	8.64
37	207.26	4.12	0.00	11.80	0.00		19.36	(5.21)	35.51	9.56	58.71	5.76	104.09	10.41%	8.10
38	193.11	3.84	0.00	10.99	0.00		19.36	(5.21)	34.41	9.27	60.46	5.93	104.63	10.46%	7.60
39	178.97	3.56	0.00	10.19	0.00		19.36	(5.21)	33.30	8.97	62.26	6.10	105.22	10.52%	7.13
40	164.82	3.28	0.00	9.38	0.00		19.36	(5.21)	32.20	8.67	64.12	6.29	105.88	10.59%	6.70
41	150.67	2.99	0.00	8.58	0.00		19.36	(5.21)	31.10	8.37	66.03	6.47	106.59	10.66%	6.29
42	136.53	2.71	0.00	7.77	0.00		19.36	(5.21)	30.00	8.08	67.99	6.67	107.37	10.74%	5.92
43	122.38	2.43	0.00	6.97	0.00		19.36	(5.21)	28.89	7.78	70.02	6.86	108.21	10.82%	5.57
44	108.23	2.15	0.00	6.16	0.00		19.36	(5.21)	27.79	7.48	72.11	7.07	109.12	10.91%	5.24
45	94.09	1.87	0.00	5.36	0.00		19.36	(5.21)	26.69	7.19	74.25	7.28	110.09	11.01%	4.93
46	79.94	1.59	0.00	4.55	0.00		19.36	(5.21)	25.59	6.89	76.47	7.50	111.14	11.11%	4.65
47	65.79	1.31	0.00	3.75	0.00		19.36	(5.21)	24.49	6.59	78.75	7.72	112.26	11.23%	4.38
48	51.64	1.03	0.00	2.94	0.00		19.36	(5.21)	23.38	6.30	81.09	7.95	113.45	11.35%	4.13
49	37.50	0.75	0.00	2.13	0.00		19.36	(5.21)	22.28	6.00	83.51	8.19	114.72	11.47%	3.90
50	23.35	0.46	0.00	1.33	0.00		19.36	(5.21)	21.18	5.70	86.00	8.43	116.07	11.61%	3.68
51	9.20	0.18	0.00	0.52	0.00		19.36	(5.21)	20.08	5.41	88.56	8.68	117.50	11.75%	3.48
52	(4.94)	(0.10)	0.00	(0.28)	0.00		19.36	(5.21)	18.98	5.11	0.00	8.94	27.82	2.78%	0.77
53	(19.09)	(0.38)	0.00	(1.09)	0.00		19.36	(5.21)	17.87	4.81	0.00	9.21	26.70	2.67%	0.69
54	(33.24)	(0.66)	0.00	(1.89)	0.00		19.36	(5.21)	16.77	4.52	0.00	9.48	25.59	2.56%	0.62
55	(47.38)	(0.94)	0.00	(2.70)	0.00		19.36	(5.21)	15.67	4.22	0.00	9.76	24.49	2.45%	0.55
56	(61.53)	(1.22)	0.00	(3.50)	0.00		19.36	(5.21)	14.57	3.92	0.00	10.06	23.40	2.34%	0.49
57	(75.68)	(1.50)	0.00	(4.31)	0.00		19.36	(5.21)	13.47	3.63	0.00	10.35	22.32	2.23%	0.44
58	(89.83)	(1.79)	0.00	(5.11)	0.00		19.36	(5.21)	12.36	3.33	0.00	10.66	21.24	2.12%	0.39
59	(142.29)	(2.83)	0.00	(8.10)	142.29		19.36	33.11	-134.02	(36.09)	1.00	10.98	17.43	1.74%	0.30
<b>Total</b>		<b>407.50</b>		<b>1167.05</b>	<b>1142.29</b>		<b>1142.29</b>	<b>0.00</b>	<b>1,597.17</b>	<b>430.12</b>	<b>2,376.92</b>	<b>312.38</b>	<b>5,836.27</b>	<b>583.63%</b>	<b>1,607.67</b>
<b>PV</b>		<b>177.45</b>		<b>508.21</b>	<b>540.73</b>		<b>266.36</b>	<b>73.89</b>	<b>421.13</b>	<b>113.41</b>	<b>424.97</b>	<b>43.39</b>	<b>1,607.67</b>	<b>160.77%</b>	
<b>Levelized payment current \$</b>		<b>12.90</b>		<b>36.94</b>	<b>39.30</b>		<b>19.36</b>	<b>5.37</b>	<b>30.61</b>	<b>8.24</b>	<b>30.89</b>	<b>3.15</b>	<b>116.86</b>	<b>11.69%</b>	
<b>Levelized payment constant</b>		<b>8.12</b>		<b>23.26</b>	<b>24.75</b>		<b>12.19</b>	<b>3.38</b>	<b>19.28</b>	<b>5.19</b>	<b>19.45</b>	<b>1.99</b>	<b>73.59</b>	<b>7.36%</b>	

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Development of Revenue Requirements Stream  
Services

Year	Rate Base	Interest on Debt	Return on Preferred Equity	Return on Common Equity	Tax Depreciation	Tax Depreciation Rate	Book Depreciation	Deferred Taxes	Taxable Income	Income Taxes	Property Tax	Property Insurance	Revenue Requirement	% of Original Investment Revenue	PV of Revenue Requirement
0	1000.00														
1	966.52	19.21	0.00	55.02	37.50	3.75%	32.00	1.48	69.80	18.80	20.40	2.00	148.91	14.89%	138.98
2	923.70	18.36	0.00	52.58	72.19	7.22%	32.00	10.82	31.77	8.56	21.01	2.06	145.39	14.54%	126.64
3	882.33	17.54	0.00	50.23	66.77	6.68%	32.00	9.36	33.97	9.15	21.63	2.12	142.03	14.20%	115.47
4	842.32	16.74	0.00	47.95	61.77	6.18%	32.00	8.02	35.85	9.65	22.28	2.18	138.83	13.88%	105.34
5	803.55	15.97	0.00	45.74	57.13	5.71%	32.00	6.77	37.47	10.09	22.94	2.25	135.76	13.58%	96.14
6	765.93	15.22	0.00	43.60	52.85	5.29%	32.00	5.61	38.82	10.45	23.63	2.32	132.84	13.28%	87.80
7	729.39	14.50	0.00	41.52	48.88	4.89%	32.00	4.55	39.94	10.76	24.33	2.39	130.04	13.00%	80.22
8	693.83	13.79	0.00	39.50	45.22	4.52%	32.00	3.56	40.83	11.00	25.06	2.46	127.35	12.74%	73.32
9	658.43	13.09	0.00	37.48	44.62	4.46%	32.00	3.40	38.67	10.42	25.80	2.53	124.71	12.47%	67.01
10	623.03	12.38	0.00	35.47	44.61	4.46%	32.00	3.40	35.93	9.68	26.57	2.60	122.10	12.21%	61.23
11	587.63	11.68	0.00	33.45	44.62	4.46%	32.00	3.40	33.16	8.93	27.36	2.68	119.50	11.95%	55.94
12	552.24	10.98	0.00	31.44	44.61	4.46%	32.00	3.40	30.41	8.19	28.18	2.76	116.94	11.69%	51.09
13	516.84	10.27	0.00	29.42	44.62	4.46%	32.00	3.40	27.64	7.44	29.02	2.84	114.40	11.44%	46.64
14	481.44	9.57	0.00	27.41	44.61	4.46%	32.00	3.40	24.90	6.70	29.88	2.93	111.89	11.19%	42.58
15	446.04	8.87	0.00	25.39	44.62	4.46%	32.00	3.40	22.13	5.96	30.77	3.02	109.40	10.94%	38.86
16	410.65	8.16	0.00	23.38	44.61	4.46%	32.00	3.40	19.38	5.22	31.69	3.11	106.95	10.69%	35.45
17	375.25	7.46	0.00	21.36	44.62	4.46%	32.00	3.40	16.61	4.47	32.63	3.20	104.53	10.45%	32.34
18	339.85	6.76	0.00	19.35	44.61	4.46%	32.00	3.40	13.87	3.73	33.61	3.29	102.13	10.21%	29.49
19	304.46	6.05	0.00	17.33	44.62	4.46%	32.00	3.40	11.10	2.99	34.61	3.39	99.77	9.98%	26.89
20	269.06	5.35	0.00	15.32	44.61	4.46%	32.00	3.40	8.35	2.25	35.64	3.49	97.44	9.74%	24.51
21	239.67	4.76	0.00	13.64	22.31	2.23%	32.00	(2.61)	28.36	7.64	36.70	3.60	95.73	9.57%	22.47
22	216.29	4.30	0.00	12.31	0.00		32.00	(8.62)	48.85	13.16	37.79	3.71	94.65	9.46%	20.74
23	192.90	3.83	0.00	10.98	0.00		32.00	(8.62)	47.03	12.66	38.92	3.82	93.60	9.36%	19.14
24	169.52	3.37	0.00	9.65	0.00		32.00	(8.62)	45.21	12.17	40.08	3.93	92.59	9.26%	17.67
25	146.14	2.90	0.00	8.32	0.00		32.00	(8.62)	43.39	11.68	41.27	4.05	91.61	9.16%	16.32
26	122.76	2.44	0.00	6.99	0.00		32.00	(8.62)	41.56	11.19	42.50	4.17	90.67	9.07%	15.07
27	99.38	1.98	0.00	5.66	0.00		32.00	(8.62)	39.74	10.70	43.77	4.29	89.78	8.98%	13.93
28	75.99	1.51	0.00	4.33	0.00		32.00	(8.62)	37.92	10.21	45.07	4.42	88.92	8.89%	12.88
29	52.61	1.05	0.00	2.99	0.00		32.00	(8.62)	36.10	9.72	0.00	0.00	37.14	3.71%	5.02
30	29.23	0.58	0.00	1.66	0.00		32.00	(8.62)	34.28	9.23	0.00	0.00	34.86	3.49%	4.40
31	5.85	0.12	0.00	0.33	0.00		32.00	(8.62)	32.46	8.74	0.00	0.00	32.57	3.26%	3.83
32	(17.54)	(0.35)	0.00	(1.00)	0.00		32.00	(8.62)	30.63	8.25	0.00	0.00	30.29	3.03%	3.33
33	(40.92)	(0.81)	0.00	(2.33)	0.00		32.00	(8.62)	28.81	7.76	0.00	0.00	28.00	2.80%	2.87
34	(64.30)	(1.28)	0.00	(3.66)	0.00		32.00	(8.62)	26.99	7.27	0.00	0.00	25.71	2.57%	2.46
35	(87.68)	(1.74)	0.00	(4.99)	0.00		32.00	(8.62)	25.17	6.78	0.00	0.00	23.43	2.34%	2.09
36	(111.07)	(2.21)	0.00	(6.32)	0.00		32.00	(8.62)	23.35	6.29	0.00	0.00	21.14	2.11%	1.76
37	(134.45)	(2.67)	0.00	(7.65)	0.00		32.00	(8.62)	21.53	5.80	0.00	0.00	18.85	1.89%	1.47
38	(157.83)	(3.14)	0.00	(8.98)	0.00		32.00	(8.62)	19.70	5.31	0.00	0.00	16.57	1.66%	1.20
39	(181.21)	(3.60)	0.00	(10.32)	0.00		32.00	(8.62)	17.88	4.82	0.00	0.00	14.28	1.43%	0.97
40	(204.60)	(4.07)	0.00	(11.65)	0.00		32.00	(8.62)	16.06	4.33	0.00	0.00	11.99	1.20%	0.76
41	(227.98)	(4.53)	0.00	(12.98)	0.00		32.00	(8.62)	14.24	3.83	0.00	0.00	9.71	0.97%	0.57
42	(251.36)	(5.00)	0.00	(14.31)	0.00		32.00	(8.62)	12.42	3.34	0.00	0.00	7.42	0.74%	0.41
43	(274.74)	(5.46)	0.00	(15.64)	0.00		32.00	(8.62)	10.60	2.85	0.00	0.00	5.14	0.51%	0.26
44	(408.00)	(8.11)	0.00	(23.23)	408.00		32.00	101.26	-407.79	(109.82)	0.00	0.00	-7.89	-0.79%	-0.38
<b>Total</b>		<b>225.82</b>		<b>646.73</b>	<b>1,408.00</b>		<b>1,408.00</b>	<b>0.00</b>	<b>885.09</b>	<b>238.35</b>	<b>873.15</b>	<b>85.60</b>	<b>3,477.66</b>	<b>347.77%</b>	<b>1,505.18</b>
<b>PV</b>		<b>145.99</b>		<b>418.12</b>	<b>557.89</b>		<b>426.37</b>	<b>35.42</b>	<b>440.70</b>	<b>118.68</b>	<b>328.40</b>	<b>32.20</b>	<b>1,505.18</b>	<b>150.52%</b>	
<b>Levelized payment current \$</b>		<b>10.77</b>		<b>30.85</b>	<b>41.17</b>		<b>31.46</b>	<b>2.61</b>	<b>32.52</b>	<b>8.76</b>	<b>24.23</b>	<b>2.38</b>	<b>111.07</b>	<b>11.11%</b>	
<b>Levelized payment constant \$</b>		<b>6.99</b>		<b>20.02</b>	<b>26.71</b>		<b>20.41</b>	<b>1.70</b>	<b>21.10</b>	<b>5.68</b>	<b>15.72</b>	<b>1.54</b>	<b>72.06</b>	<b>7.21%</b>	

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Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Development of Revenue Requirements Stream  
Meters

Year	Rate Base	Interest on Debt	Return on Preferred Equity	Return on Common Equity	Tax Depreciation	Tax Depreciation Rate	Book Depreciation	Deferred Taxes	Taxable Income	Income Taxes	Property Tax	Property Insurance	Revenue Requirement	% of Original Investment Revenue	PV of Revenue Requirement
0	1000.00														
1	963.80	19.16	0.00	54.86	37.50	3.75%	35.71	0.48	73.30	19.74	20.40	2.00	152.36	15.24%	142.20
2	918.27	18.25	0.00	52.27	72.19	7.22%	35.71	9.82	35.06	9.44	21.01	2.06	148.57	14.86%	129.42
3	874.19	17.38	0.00	49.76	66.77	6.68%	35.71	8.36	37.05	9.98	21.63	2.12	144.95	14.49%	117.84
4	831.46	16.53	0.00	47.33	61.77	6.18%	35.71	7.02	38.72	10.43	22.28	2.18	141.48	14.15%	107.35
5	789.98	15.70	0.00	44.97	57.13	5.71%	35.71	5.77	40.13	10.81	22.94	2.25	138.15	13.82%	97.84
6	749.65	14.90	0.00	42.67	52.85	5.29%	35.71	4.61	41.27	11.11	23.63	2.32	134.96	13.50%	89.20
7	710.39	14.12	0.00	40.44	48.88	4.89%	35.71	3.55	42.18	11.36	24.33	2.39	131.89	13.19%	81.36
8	672.11	13.36	0.00	38.26	45.22	4.52%	35.71	2.56	42.86	11.54	25.06	2.46	128.95	12.89%	74.24
9	634.00	12.60	0.00	36.09	44.62	4.46%	35.71	2.40	40.49	10.90	25.80	2.53	126.04	12.60%	67.73
10	595.89	11.84	0.00	33.92	44.61	4.46%	35.71	2.40	37.53	10.11	26.57	2.60	123.16	12.32%	61.77
11	557.78	11.09	0.00	31.75	44.62	4.46%	35.71	2.40	34.55	9.30	27.36	2.68	120.30	12.03%	56.31
12	519.67	10.33	0.00	29.58	44.61	4.46%	35.71	2.40	31.59	8.51	28.18	2.76	117.47	11.75%	51.32
13	481.56	9.57	0.00	27.41	44.62	4.46%	35.71	2.40	28.61	7.70	29.02	2.84	114.66	11.47%	46.75
14	443.45	8.81	0.00	25.24	44.61	4.46%	35.71	2.40	25.65	6.91	29.88	2.93	111.89	11.19%	42.58
15	405.33	8.06	0.00	23.07	44.62	4.46%	35.71	2.40	22.67	6.11	30.77	3.02	109.14	10.91%	38.76
16	367.22	7.30	0.00	20.90	44.61	4.46%	35.71	2.40	19.71	5.31	31.69	3.11	106.42	10.64%	35.28
17	329.11	6.54	0.00	18.73	44.62	4.46%	35.71	2.40	16.73	4.51	32.63	3.20	103.73	10.37%	32.09
18	291.00	5.78	0.00	16.57	44.61	4.46%	35.71	2.40	13.77	3.71	33.61	3.29	101.07	10.11%	29.18
19	252.89	5.03	0.00	14.40	44.62	4.46%	35.71	2.40	10.80	2.91	34.61	3.39	98.44	9.84%	26.53
20	214.78	4.27	0.00	12.23	44.61	4.46%	35.71	2.40	7.84	2.11	35.64	3.49	95.85	9.58%	24.11
21	182.68	3.63	0.00	10.40	22.31	2.23%	35.71	(3.61)	27.64	7.44	36.70	3.60	93.87	9.39%	22.04
22	156.58	3.11	0.00	8.91	0.00		35.71	(9.62)	47.91	12.90	37.79	3.71	92.52	9.25%	20.27
23	130.48	2.59	0.00	7.43	0.00		35.71	(9.62)	45.88	12.36	38.92	3.82	91.21	9.12%	18.65
24	104.39	2.07	0.00	5.94	0.00		35.71	(9.62)	43.85	11.81	40.08	3.93	89.93	8.99%	17.16
25	78.29	1.56	0.00	4.46	0.00		35.71	(9.62)	41.81	11.26	41.27	4.05	88.69	8.87%	15.80
26	52.19	1.04	0.00	2.97	0.00		35.71	(9.62)	39.78	10.71	42.50	4.17	87.49	8.75%	14.54
27	26.10	0.52	0.00	1.49	0.00		35.71	(9.62)	37.75	10.17	43.77	4.29	86.33	8.63%	13.39
28	(0.00)	(0.00)	0.00	(0.00)	0.00		35.71	(9.62)	35.71	9.62	45.07	4.42	85.21	8.52%	12.34

<b>Total</b>		<b>245.14</b>		<b>702.07</b>	<b>1,000.00</b>		<b>1,000.00</b>	<b>0.00</b>	<b>960.82</b>	<b>258.75</b>	<b>873.15</b>	<b>85.60</b>	<b>3,164.71</b>	<b>316.47%</b>	<b>1,486.04</b>
<b>PV</b>		<b>141.88</b>		<b>406.33</b>	<b>538.31</b>		<b>427.47</b>	<b>29.85</b>	<b>445.25</b>	<b>119.91</b>	<b>328.40</b>	<b>32.20</b>	<b>1,486.04</b>	<b>148.60%</b>	
<b>Levelized payment current \$</b>		<b>11.85</b>		<b>33.95</b>	<b>44.97</b>		<b>35.71</b>	<b>2.49</b>	<b>37.20</b>	<b>10.02</b>	<b>27.44</b>	<b>2.69</b>	<b>124.15</b>	<b>12.42%</b>	
<b>Levelized payment constant \$</b>		<b>8.68</b>		<b>24.85</b>	<b>32.92</b>		<b>26.14</b>	<b>1.83</b>	<b>27.23</b>	<b>7.33</b>	<b>20.09</b>	<b>1.97</b>	<b>90.89</b>	<b>9.09%</b>	



Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Fixed Carrying Charge Rates

Line	Description	Production Plant				Mains Reinforcements				Mains Extensions				Services				Meters			
		Current Dollars		Constant Dollars		Current Dollars		Constant Dollars		Current Dollars		Constant Dollars		Current Dollars		Constant Dollars		Current Dollars		Constant Dollars	
		Engineer's FCCR		Economist's FCCR		Engineer's FCCR		Economist's FCCR		Engineer's FCCR		Economist's FCCR		Engineer's FCCR		Economist's FCCR		Engineer's FCCR		Economist's FCCR	
		Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant	Current	Constant
Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital	Levelized	% of Capital
Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment	Dollars	Investment
1	Interest on Debt	\$12.16	1.2%	\$8.54	0.9%	\$12.86	1.3%	\$8.12	0.8%	\$12.90	1.3%	\$8.12	0.8%	\$10.77	1.1%	\$6.99	0.7%	\$11.85	1.2%	\$8.68	0.9%
2	Return on Preferred	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%
3	Return on Common	\$34.83	3.5%	\$24.47	2.4%	\$36.82	3.7%	\$23.25	2.3%	\$36.94	3.7%	\$23.26	2.3%	\$30.85	3.1%	\$20.02	2.0%	\$33.95	3.4%	\$24.85	2.5%
4	Total Return	\$46.99	4.7%	\$33.01	3.3%	\$49.67	5.0%	\$31.37	3.1%	\$49.84	5.0%	\$31.38	3.1%	\$41.63	4.2%	\$27.01	2.7%	\$45.80	4.6%	\$33.53	3.4%
5	Depreciation	\$29.41	2.9%	\$20.66	2.1%	\$19.67	2.0%	\$12.42	1.2%	\$19.36	1.9%	\$12.19	1.2%	\$31.46	3.1%	\$20.41	2.0%	\$35.71	3.6%	\$26.14	2.6%
6	Income tax	\$9.30	0.9%	\$6.54	0.7%	\$8.26	0.8%	\$5.22	0.5%	\$8.24	0.8%	\$5.19	0.5%	\$8.76	0.9%	\$5.68	0.6%	\$10.02	1.0%	\$7.33	0.7%
7	Deferred Taxes	\$3.53	0.4%	\$2.48	0.2%	\$5.31	0.5%	\$3.35	0.3%	\$5.37	0.5%	\$3.38	0.3%	\$2.61	0.3%	\$1.70	0.2%	\$2.49	0.2%	\$1.83	0.2%
8	Revenue Tax	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%	\$0.00	0.0%
9	Property Tax	\$28.65	2.9%	\$20.13	2.0%	\$32.21	3.2%	\$20.34	2.0%	\$30.89	3.1%	\$19.45	1.9%	\$24.23	2.4%	\$15.72	1.6%	\$27.44	2.7%	\$20.09	2.0%
10	Total Taxes	\$41.48	4.1%	\$29.15	2.9%	\$45.78	4.6%	\$28.91	2.9%	\$44.50	4.5%	\$28.02	2.8%	\$35.60	3.6%	\$23.10	2.3%	\$39.95	4.0%	\$29.24	2.9%
11	Property Insurance	\$2.81	0.3%	\$1.97	0.2%	\$3.16	0.3%	\$1.99	0.2%	\$3.15	0.3%	\$1.99	0.2%	\$2.38	0.2%	\$1.54	0.2%	\$2.69	0.3%	\$1.97	0.2%
						\$0.00	0.0%	\$0.00	0.0%												
12	Total Revenue Required	\$120.69	12.1%	\$84.80	8.5%	\$118.28	11.8%	\$74.70	7.5%	\$116.86	11.7%	\$73.59	7.4%	\$111.07	11.1%	\$72.06	7.2%	\$124.15	12.4%	\$90.89	9.1%

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Summary of Marginal Capacity-Related Costs

Line	Description	Production in lieu of reinforcement	Mains reinforcement	Mains extension	Total distribution	
1	<b>Plant Investment</b>					
2	Long-run unit costs - \$/design day dth	\$74.62	\$4,205.32	\$1,620.78	\$5,900.72	[1]
3	General plant loading factor	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	--	[2]
4	Gross-up unit costs	\$79.88	\$4,501.72	\$1,735.02	\$6,316.62	[3]
5	Fixed charge rate	8.48%	7.47%	7.36%	--	[4]
6	Plant-related A&G loading factor	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	--	[5]
7	Grossed up fixed charge rate	8.66%	7.65%	7.54%	--	[6]
8	Annualized cost	\$6.92	\$344.52	\$130.85	\$482.29	[7]
9	<b>Operating Expense</b>					
10	Production capacity costs	\$0.85	--	--	\$0.85	[8]
11	Distribution capacity costs	--	--	\$61.69	\$61.69	[9]
12	Non-plant A&G loading factor	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	--	[10]
13	Total O&M expense	\$1.39	\$0.00	\$100.44	\$101.83	[11]
14	<b>Working Capital</b>					
15	M&S and prepayments rate	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>0.00%</u>	[12]
16	M&S and prepayments cost	\$1.25	\$70.67	\$27.24	\$99.16	[13]
17	Working cash allowance lag (days)	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	--	[14]
18	Working cash allowance lag (rate)	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	--	[15]
19	Working cash O&M allowance	<u>\$0.10</u>	<u>\$0.56</u>	<u>\$7.06</u>	<u>\$7.72</u>	[16]
20	Total working capital	\$1.36	\$71.23	\$34.29	\$106.88	[17]
21	Tax affected cost of capital rate	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>0.00%</u>	[18]
22	Working capital revenue requirement	\$0.13	\$6.97	\$3.35	\$10.45	[19]
23	<b>System Seasonal Capacity Related Cost</b>					
24	\$/design day dth	\$8.44	\$351.48	\$234.64	\$594.57	[20]
25	Sales/sendout factor	<u>95.81%</u>	<u>95.81%</u>	<u>95.81%</u>	--	[21]
26	Inflation	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	--	[22]
27	<b>Seasonal Capacity Cost</b>	\$9.06	\$377.14	\$251.77	\$637.97	[23]

- [1] MCOS-1 and MCOS-2
- [2] MCOS-4
- [3] (1 + Line 3) x Line 2
- [4] MCOS-5
- [5] MCOS-4
- [6] Line 5 + Line 6
- [7] Line 4 x Line 7
- [8] MCOS-2
- [9] MCOS-2
- [10] MCOS-4
- [11] (1 + Line 12) x (Line 10 + Line 11)
- [12] MCOS-4
- [13] Line 15 x Line 4
- [14] Company data
- [15] Line 17 / 365
- [16] [(Line 6 x Line 4) + Line 13] x Line 18
- [17] Line 19 + Line 16
- [18] MCOS-5
- [19] Line 21 x Line 20
- [20] Line 22 + Line 13 + Line 8
- [21] Company data
- [23] ((1 + (1 - Line 25)) x Line 24) x (1 + Line 26)

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Summary of Marginal Customer-Related Costs

Line	Description	R-1	R3, R-4	G-41	G-42	G-43	G-51	G-52	G-53	G-54
1	<b>Plant Investment</b>									
2	Meters and regulators	\$731.51	\$731.51	\$1,805.26	\$4,060.18	\$9,857.54	\$1,805.26	\$4,060.18	\$9,857.54	\$9,857.54
3	General plant loading factor	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>
4	Grossed up meter costs	\$783.07	\$783.07	\$1,932.50	\$4,346.35	\$10,552.32	\$1,932.50	\$4,346.35	\$10,552.32	\$10,552.32
5	Fixed charge rate	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>	<u>9.09%</u>
6	Meter carrying costs	\$71.17	\$71.17	\$175.64	\$395.03	\$959.07	\$175.64	\$395.03	\$959.07	\$959.07
7	Services	\$5,250.30	\$5,250.30	\$5,576.19	\$8,071.70	\$5,027.08	\$5,576.19	\$8,071.70	\$5,027.08	\$5,027.08
8	General plant loading factor	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>	<u>7.05%</u>
9	Grossed up services costs	\$5,620.35	\$5,620.35	\$5,969.22	\$8,640.62	\$5,381.40	\$5,969.22	\$8,640.62	\$5,381.40	\$5,381.40
10	Fixed charge rate	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>	<u>7.21%</u>
11	Services carrying costs	<u>\$405.00</u>	<u>\$405.00</u>	<u>\$430.13</u>	<u>\$622.63</u>	<u>\$387.78</u>	<u>\$430.13</u>	<u>\$622.63</u>	<u>\$387.78</u>	<u>\$387.78</u>
12	Total plant carrying costs	\$476.17	\$476.17	\$605.77	\$1,017.66	\$1,346.84	\$605.77	\$1,017.66	\$1,346.84	\$1,346.84
13	Plant -related A&G loading factor	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>	<u>0.18%</u>
14	Annualized cost	\$477.04	\$477.04	\$606.88	\$1,019.52	\$1,349.31	\$606.88	\$1,019.52	\$1,349.31	\$1,349.31
15	<b>Operating Expense</b>									
16	Plant-related O&M/customer	\$64.94	\$64.94	\$80.13	\$131.70	\$161.58	\$80.13	\$131.70	\$161.58	\$161.58
17	Customer accounting & marketing expense	\$43.85	\$43.85	\$43.85	\$43.85	\$43.85	\$43.85	\$43.85	\$43.85	\$43.85
18	Non-plant A&G loading factor	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>	<u>62.82%</u>
19	Total O&M expense	\$177.12	\$177.12	\$201.85	\$285.82	\$334.47	\$201.85	\$285.82	\$334.47	\$334.47
20	<b>Working Capital</b>									
21	M&S and prepayments rate	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>	<u>1.57%</u>
22	M&S and prepayments cost	\$100.52	\$100.52	\$124.04	\$203.87	\$250.13	\$124.04	\$203.87	\$250.13	\$250.13
23	Working cash allowance (days)	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>	<u>24.86</u>
24	Working cash lag (rate)	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>	<u>6.81%</u>
25	Working cash O&M allowance	<u>\$12.12</u>	<u>\$12.12</u>	<u>\$13.82</u>	<u>\$19.59</u>	<u>\$22.95</u>	<u>\$13.82</u>	<u>\$19.59</u>	<u>\$22.95</u>	<u>\$22.95</u>
26	Total working capital	\$112.65	\$112.65	\$137.87	\$223.47	\$273.08	\$137.87	\$223.47	\$273.08	\$273.08
27	Tax affected cost of capital	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>	<u>9.78%</u>
28	Working capital revenue requirement	\$11.01	\$11.01	\$13.48	\$21.85	\$26.70	\$13.48	\$21.85	\$26.70	\$26.70
29	<b>Customer Related Cost</b>									
30	Annual cost per customer	\$665.17	\$665.17	\$822.22	\$1,327.19	\$1,710.48	\$822.22	\$1,327.19	\$1,710.48	\$1,710.48
31	Inflation	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>	<u>2.98%</u>
32	Annual customer related cost	\$684.99	\$684.99	\$846.72	\$1,366.74	\$1,761.45	\$846.72	\$1,366.74	\$1,761.45	\$1,761.45

- [1] Company data
- [2] MCOS-4
- [3] (1 + Line 3) x Line 2
- [4] MCOS-5
- [5] Line 5 x Line 4
- [6] Company data
- [7] MCOS-4
- [8] (1 + Line 8) x Line 7
- [9] MCOS-5
- [10] Line 10 x Line 9
- [11] Line 11 + Line 6
- [12] MCOS-4
- [13] (1 + Line 13) x Line 12
- [14] MCOS-3
- [15] MCOS-3
- [16] MCOS-4
- [20] (Line 16 + Line 17) x (1 + Line 18)
- [21] MCOS-4
- [22] (Line 9 + Line 4) x Line 21
- [23] Company data
- [24] Line 23 / 365
- [25] [(Line 12 x Line 13) + Line 19] x Line 24
- [26] Line 25 + Line 22
- [27] MCOS-5
- [28] Line 26 x Line 27
- [29] Line 28 + Line 19 + Line 14
- [31] Line 30 x (1 + Line 31)

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Marginal Cost Study

Marginal Cost Estimates

Line	Description	R-1	R3, R-4	G-41	G-42	G-43	G-51	G-52	G-53	G-54	
1	<b>Bad debt factor</b>	4.38%	3.18%	0.83%	0.15%	0.00%	0.57%	0.05%	0.00%	0.00%	[1]
2	<b>Customer - Monthly Charge</b>										
3	Monthly customer charge	\$57.08	\$57.08	\$70.56	\$113.89	\$146.79	\$70.56	\$113.89	\$146.79	\$146.79	[2]
4	Adjustment for uncollectible	<u>\$2.50</u>	<u>\$1.81</u>	<u>\$0.58</u>	<u>\$0.17</u>	<u>\$0.00</u>	<u>\$0.40</u>	<u>\$0.06</u>	<u>\$0.00</u>	<u>\$0.00</u>	[3]
5	Grossed up monthly cust charge	\$59.58	\$58.90	\$71.14	\$114.07	\$146.79	\$70.96	\$113.95	\$146.79	\$146.79	[4]
6	<b>Capacity - Winter Charge</b>										
7	Distribution charge - pressure support	\$9.06	\$9.06	\$9.06	\$9.06	\$9.06	\$9.06	\$9.06	\$9.06	\$9.06	[5]
8	Distribution charge - reinforcement	\$377.14	\$377.14	\$377.14	\$377.14	\$377.14	\$377.14	\$377.14	\$377.14	\$377.14	[6]
9	Distribution charge - main extension	\$251.77	\$251.77	\$251.77	\$251.77	\$251.77	\$251.77	\$251.77	\$251.77	\$251.77	[7]
10	Adjustment for uncollectible	<u>\$27.95</u>	<u>\$20.28</u>	<u>\$5.27</u>	<u>\$0.96</u>	<u>\$0.00</u>	<u>\$3.64</u>	<u>\$0.33</u>	<u>\$0.00</u>	<u>\$0.00</u>	[8]
11	Grossed up winter charge	\$665.92	\$658.25	\$643.24	\$638.93	\$637.97	\$641.61	\$638.30	\$637.97	\$637.97	[9]
12	<b>Capacity - Summer Charge</b>										
13	Summer Charge	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	[10]
13	<b>Billing Determinants</b>										
14	2022 Average Customers	3,420	81,934	9,678	1,476	65	1,295	414	34	27	[11]
15	2022 Design Day Load (dth)	<u>613</u>	<u>71,447</u>	<u>30,215</u>	<u>38,888</u>	<u>11,459</u>	<u>3,057</u>	<u>6,851</u>	<u>9,510</u>	<u>7,824</u>	[12]
16	2022 Normalized Winter demand (dth)	57,075	4,884,442	2,063,014	2,779,486	939,955	245,175	536,476	580,160	741,905	[13]
17	2022 Normalized Summer demand (dth)	23,790	1,013,556	297,341	554,616	280,442	159,896	344,527	529,881	1,024,454	[14]
18	<b>Total Customer Marginal Costs</b>										
19	Total customer-related cost (annual)	\$2,445,300	\$57,907,438	\$8,262,487	\$2,019,960	\$114,097	\$1,102,994	\$565,576	\$60,769	\$47,061	[15]
20	<b>Total Capacity - Winter Costs</b>										
21	Pressure support	\$5,799	\$667,941	\$276,034	\$352,885	\$103,829	\$27,853	\$62,108	\$86,165	\$70,891	[16]
22	Reinforcements	\$241,389	\$27,802,192	\$11,489,556	\$14,688,371	\$4,321,751	\$1,159,334	\$2,585,175	\$3,586,507	\$2,950,768	[17]
23	Main extension	<u>\$161,144</u>	<u>\$18,559,879</u>	<u>\$7,670,070</u>	<u>\$9,805,500</u>	<u>\$2,885,066</u>	<u>\$773,935</u>	<u>\$1,725,782</u>	<u>\$2,394,241</u>	<u>\$1,969,841</u>	[18]
24	Total winter	\$408,332	\$47,030,012	\$19,435,660	\$24,846,756	\$7,310,646	\$1,961,121	\$4,373,066	\$6,066,913	\$4,991,500	[19]
25	<b>Total Capacity - Summer Costs</b>										
26	Capacity related - summer	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	[20]
27	<b>Total Marginal Costs</b>										
28	Total Annual Marginal Cost	<u>\$2,853,633</u>	<u>\$104,937,450</u>	<u>\$27,698,147</u>	<u>\$26,866,716</u>	<u>\$7,424,743</u>	<u>\$3,064,115</u>	<u>\$4,938,642</u>	<u>\$6,127,682</u>	<u>\$5,038,560</u>	[21]
29	Class % Share	1.5%	55.5%	14.7%	14.2%	3.9%	1.6%	2.6%	3.2%	2.7%	[22]
30	<b>Unit Costs</b>										
31	\$/customer	\$59.58	\$58.90	\$71.14	\$114.07	\$146.79	\$70.96	\$113.95	\$146.79	\$146.79	[23]
32	Capacity - Winter (\$/dth)										
33	Pressure support	\$0.10	\$0.14	\$0.13	\$0.13	\$0.11	\$0.11	\$0.12	\$0.15	\$0.10	[24]
34	Reinforcements	\$4.23	\$5.69	\$5.57	\$5.28	\$4.60	\$4.73	\$4.82	\$6.18	\$3.98	[25]
35	Main extensions	\$2.82	\$3.80	\$3.72	\$3.53	\$3.07	\$3.16	\$3.22	\$4.13	\$2.66	[26]
36	Capacity - Summer (\$/dth)	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>	[27]
37	Total Capacity - Average Annual (\$/dth)	\$5.05	\$7.97	\$8.23	\$7.45	\$5.99	\$4.84	\$4.96	\$5.47	\$2.83	[28]

[1] MCOS-4  
[2] MCOS-6 Page 2 Line 32 / 12  
[3] Line 1 x Line 3  
[4] Line 4 + Line 3  
[5] MCOS-6 Page 1 Line 27  
[6] MCOS-6 Page 1 Line 27  
[7] MCOS-6 Page 1 Line 27  
[8] (Line 7 + Line 8 + Line 9) x Line 1  
[9] Line 7 + Line 8 + Line 9 + Line 10  
[10] Company data  
[11] Company data  
[12] Company data  
[13] Company data  
[14] Company data  
[15] Line 14 x Line 5 x 12  
[16] (1 + Line 1) x Line 15 x Line 7  
[17] (1 + Line 1) x Line 15 x Line 8  
[18] (1 + Line 1) x Line 15 x Line 9  
[19] Line 21 + Line 22 + Line 23  
[20] Company data  
[21] Line 19 + Line 24  
[22] Line 28 / Sum of Line 28  
[23] Line 5  
[24] Line 21 / Line 16  
[25] Line 22 / Line 16  
[26] Line 23 / Line 16  
[27] Line 26 / Line 17  
[28] (Line 26 + Line 24) / (Line 16 + Line 17)

**Consolidated Calendarized Customer Bills Allocated to Rate Classes**

Line	Consolidated Class	Rate Class	2022		2022		2022		2022		2022		2022		2022		Avg Cust
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	R-1	R-1	3,548	3,195	3,526	3,391	3,499	3,381	3,482	3,470	3,404	3,412	3,319	3,414			3,420
2	R-3	R-3	77,345	69,940	77,446	74,856	77,213	74,576	77,734	77,605	75,654	76,852	74,362	76,749			75,866
3	R-3	R-4	6,467	5,812	6,455	6,264	6,477	6,208	6,506	5,446	5,493	6,028	6,230	6,404			6,068
4	R-1	R-5	79	71	79	76	79	76	77	76	75	75	73	75			76
5	R-3	R-6	335	303	335	325	335	322	339	338	329	335	326	334			330
6	R-3	R-7	7	7	7	7	7	7	4	4	4	6	6	6			6
7	G-41	G-41	10,077	9,122	10,102	9,724	9,899	9,418	9,624	9,578	9,337	9,708	9,584	9,967			9,678
8	G-42	G-42	1,507	1,365	1,512	1,463	1,505	1,451	1,498	1,496	1,463	1,498	1,456	1,495			1,476
9	G-43	G-43	66	60	66	64	66	64	66	66	65	65	64	65			65
10	G-41	G-44	17	15	17	16	17	16	17	17	16	16	15	16			16
11	G-42	G-45	8	7	8	8	8	8	8	8	8	8	8	8			8
12	G-43	G-46	0	0	0	0	0	0	0	0	0	0	0	0			0
13	G-51	G-51	1,324	1,197	1,327	1,285	1,326	1,282	1,324	1,320	1,283	1,308	1,267	1,299			1,295
14	G-52	G-52	420	380	420	405	420	408	422	421	412	421	410	425			414
15	G-53	G-53	36	33	35	34	35	34	35	35	35	35	34	33			34
16	G-54	G-54	27	24	27	27	28	27	28	28	27	26	26	26			27
17	G-51	G-55	4	4	4	4	4	4	4	4	4	4	4	4			4
18	G-52	G-56	1	1	1	1	1	1	1	1	1	1	1	1			1
19	G-53	G-57	0	0	0	0	0	0	0	0	0	0	0	0			0
20	G-54	G-58	1	1	1	1	1	1	1	1	1	1	1	1			1
21		Total	101,270	91,558	101,369	97,950	100,921	97,283	100,169	99,974	97,611	99,799	97,187	100,321			98,784

**Consolidated Calendarized Customer Bills for 2022**

Line	Consolidated Class	Block Number	2022		2022		2022		2022		2022		2022		2022		TOTAL
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
22	R-1	0	3,627	3,266	3,605	3,467	3,577	3,457	3,558	3,546	3,479	3,488	3,392	3,489			41,950
23	R-3	0	84,155	76,083	84,244	81,452	84,033	81,113	83,583	83,453	81,480	83,220	80,924	83,493			987,231
24	G-41	0	10,093	9,137	10,118	9,740	9,916	9,434	9,640	9,595	9,354	9,724	9,599	9,982			116,333
25	G-42	0	1,516	1,372	1,520	1,471	1,513	1,459	1,507	1,504	1,471	1,506	1,464	1,503			17,806
26	G-43	0	66	60	66	64	66	64	66	66	65	65	64	65			777
27	G-51	0	1,328	1,201	1,331	1,289	1,330	1,286	1,329	1,325	1,287	1,312	1,271	1,303			15,552
28	G-52	0	421	381	421	406	421	409	423	422	413	422	411	426			4,975
29	G-53	0	36	33	35	34	35	34	35	35	35	35	34	33			414
30	G-54	0	28	25	28	28	29	28	29	29	28	27	27	27			333
31		Grand Total	101,270	91,558	101,369	97,950	100,921	97,283	100,169	99,974	97,611	99,799	97,187	100,321			1,185,412

**Proration for Allocating Consolidated Customer Bills**

Based on July 2021 - June 2022 Bills By Class

Line	Consolidated Class	Rate Class	Block Number	2022		2022		2022		2022		2021		2021		2021	
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
32	R-1	R-1	0	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
33	R-3	R-3	0	91.9%	91.9%	91.9%	91.9%	91.9%	91.9%	91.9%	93.0%	93.1%	92.8%	92.3%	91.9%	91.9%	91.9%
34	R-3	R-4	0	7.7%	7.7%	7.7%	7.7%	7.7%	7.7%	6.6%	6.5%	6.7%	7.2%	7.7%	7.7%	7.7%	7.7%
35	R-1	R-5	0	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	2.1%	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%
36	R-3	R-6	0	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%
37	R-3	R-7	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
38	G-41	G-41	0	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%
39	G-42	G-42	0	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%	99.4%	99.4%	99.4%	99.5%	99.5%	99.5%	99.5%	99.5%
40	G-43	G-43	0	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
41	G-41	G-44	0	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
42	G-42	G-45	0	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.6%	0.6%	0.6%	0.6%	0.5%	0.5%	0.5%	0.5%
43	G-43	G-46	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
44	G-51	G-51	0	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%	99.7%
45	G-52	G-52	0	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%
46	G-53	G-53	0	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
47	G-54	G-54	0	96.3%	96.3%	96.4%	96.4%	96.3%	96.2%	96.4%	96.4%	96.4%	96.4%	96.4%	96.4%	96.3%	96.3%
48	G-51	G-55	0	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%
49	G-52	G-56	0	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
50	G-53	G-57	0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
51	G-54	G-58	0	3.7%	3.7%	3.6%	3.6%	3.7%	3.8%	3.6%	3.6%	3.6%	3.6%	3.6%	3.6%	3.6%	3.7%

Col.1	Col.2	Col.3	Col.4	Col.5	Col.6	Col.7	Col.8	Col.9	Col.10	Col.11	Col.12	Col.13	Col.14	Col.15	Col.16	Col.17	Col.18
<b>July 2021 - June 2022 Bills By Class</b>																	
<b>Non MEP</b>																	
			2022	2022	2022	2022	2022	2022	2021	2021	2021	2021	2021	2021			
Line	Consolidated Class	Block Rate Class	Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
1	R-1	R-1	0	3,624	3,264	3,603	3,465	3,575	3,453	3,653	3,640	3,522	3,639	3,519	3,636	42,593	
2	R-3	R-3	0	77,659	70,233	77,759	75,154	77,510	74,848	77,748	77,721	75,048	77,293	74,777	77,555	913,256	
52	R-3	R-4	0	6,473	5,837	6,460	6,268	6,481	6,211	6,487	6,431	6,430	6,042	6,244	6,450	72,813	
53	G-41	G-41	0	10,092	9,136	10,117	9,739	9,915	9,432	9,594	9,560	9,242	9,701	9,615	10,046	116,188	
54	G-42	G-42	0	1,516	1,372	1,520	1,471	1,513	1,458	1,490	1,490	1,442	1,497	1,456	1,511	17,736	
55	G-43	G-43	0	66	60	66	64	65	63	64	64	61	65	63	66	767	
56	G-51	G-51	0	1,328	1,201	1,331	1,289	1,330	1,286	1,334	1,332	1,287	1,331	1,288	1,329	15,666	
57	G-52	G-52	0	421	381	421	406	421	408	418	419	406	419	405	420	4,946	
58	G-53	G-53	0	34	31	33	32	32	30	35	35	34	35	34	35	400	
59	G-54	G-54	0	28	25	28	28	28	26	29	29	28	29	28	28	334	
60	Total			101,242	91,531	101,339	97,916	100,871	97,214	99,850	99,721	96,500	100,051	97,428	101,075	1,184,738	

<b>July 2021 - June 2022 Bills By Class</b>																	
<b>MEP</b>																	
			2022	2022	2022	2022	2022	2022	2021	2021	2021	2021	2021	2021	2021		
Line	Consolidated Class	Block Rate Class	Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
61	R-1	R-5	0	79	71	79	76	79	76	79	78	76	79	76	79	924	
62	R-3	R-6	0	335	303	335	324	335	322	337	337	325	335	326	336	3,951	
63	R-3	R-7	0	7	7	7	7	7	7	4	4	4	6	6	6	73	
64	G-41	G-44	0	17	15	17	16	17	16	16	17	16	16	15	16	192	
65	G-42	G-45	0	8	7	8	8	8	8	8	8	8	8	8	8	97	
66	G-43	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
67	G-51	G-55	0	4	4	4	4	4	4	4	4	4	4	4	4	49	
68	G-52	G-56	0	1	1	1	1	1	1	1	1	1	1	1	1	12	
69	G-53	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70	G-54	G-58	0	1	1	1	1	1	1	1	1	1	1	1	1	12	
71	Total			452	409	452	437	452	435	451	450	435	450	437	451	131,120,060	

<b>July 2021 - June 2022 Bills By Class</b>																	
<b>All Classes</b>																	
			2022	2022	2022	2022	2022	2022	2021	2021	2021	2021	2021	2021	2021		
Line	Consolidated Class	Block Rate Class	Number	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
72	R-1	R-1	0	3,546	3,193	3,524	3,389	3,496	3,377	3,574	3,562	3,446	3,560	3,443	3,557	41,669	
73	R-3	R-3	0	77,324	69,920	77,423	74,830	77,175	74,526	77,410	77,384	74,723	76,958	74,451	77,219	909,344	
74	R-3	R-4	0	6,466	5,831	6,453	6,261	6,474	6,204	6,483	6,426	6,036	6,238	6,443	6,443	72,740	
75	R-1	R-5	0	79	71	79	76	79	76	79	78	76	79	76	79	924	
76	R-3	R-6	0	335	303	335	324	335	322	337	337	325	335	326	336	3,951	
77	R-3	R-7	0	7	7	7	7	7	7	4	4	4	6	6	6	73	
78	G-41	G-41	0	10,076	9,121	10,101	9,723	9,898	9,416	9,577	9,543	9,226	9,685	9,600	10,031	115,996	
79	G-42	G-42	0	1,507	1,365	1,512	1,463	1,505	1,450	1,481	1,482	1,434	1,489	1,448	1,503	19,639	
80	G-43	G-43	0	66	60	66	64	65	63	64	64	61	65	63	65	767	
81	G-41	G-44	0	17	15	17	16	17	16	16	17	16	16	15	16	192	
82	G-42	G-45	0	8	7	8	8	8	8	8	8	8	8	8	8	97	
83	G-43	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
84	G-51	G-51	0	1,324	1,197	1,327	1,285	1,326	1,282	1,329	1,328	1,283	1,327	1,284	1,325	15,617	
85	G-52	G-52	0	420	380	420	405	420	407	417	418	405	418	404	419	4,934	
86	G-53	G-53	0	34	31	33	32	32	30	35	35	34	35	34	35	400	
87	G-54	G-54	0	27	24	27	27	27	25	28	28	27	28	27	27	322	
88	G-51	G-55	0	4	4	4	4	4	4	4	4	4	4	4	4	49	
89	G-52	G-56	0	1	1	1	1	1	1	1	1	1	1	1	1	12	
90	G-53	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
91	G-54	G-58	0	1	1	1	1	1	1	1	1	1	1	1	1	12	
92	Total			101,242	91,531	101,339	97,916	100,871	97,214	99,850	99,721	96,500	100,051	97,428	101,075	1,184,738	









Normalized TY Revenues at Current Rates

ENERGY COMPONENT

HEADBLOCK

2022 Calendar and Weather Normalized Therms																
Headblock																
Line	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total	Summer	Winter	
1	R-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	R-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	R-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	R-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	R-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	R-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	<b>Total Resid.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
8	G-41	978,516	799,670	820,506	591,748	190,422	73,372	60,909	59,405	86,034	147,690	690,079	878,351	5,376,700	617,830	4,758,870
9	G-42	1,583,628	1,312,063	1,438,136	1,175,760	552,363	320,487	262,015	261,195	359,731	553,891	1,298,441	1,490,432	10,608,140	2,309,680	8,298,460
10	G-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	G-44	1,377	1,201	1,163	910	252	80	28	18	33	171	979	1,144	7,357	583	6,773
12	G-45	8,265	7,465	8,218	7,177	3,802	1,720	1,944	1,421	2,065	3,414	8,018	8,207	61,716	14,367	47,350
13	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	G-51	98,483	81,881	89,809	83,939	80,390	82,610	79,869	79,791	78,390	87,945	82,865	92,331	1,018,303	488,995	529,308
15	G-52	427,645	353,290	386,423	355,519	329,312	335,151	325,177	325,514	321,186	369,376	359,851	404,141	4,292,585	2,005,716	2,286,869
16	G-53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	G-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	G-55	217	199	217	212	215	206	235	231	230	231	222	218	2,632	1,348	1,285
19	G-56	1,033	933	1,031	959	844	751	802	787	767	823	974	1,031	10,735	4,774	5,961
20	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	<b>Total C/I</b>	<b>3,099,164</b>	<b>2,556,702</b>	<b>2,745,501</b>	<b>2,216,224</b>	<b>1,157,600</b>	<b>814,378</b>	<b>730,978</b>	<b>728,361</b>	<b>848,436</b>	<b>1,163,541</b>	<b>2,441,429</b>	<b>2,875,854</b>	<b>21,378,169</b>	<b>5,443,293</b>	<b>15,934,875</b>
23	<b>Total All</b>	<b>3,099,164</b>	<b>2,556,702</b>	<b>2,745,501</b>	<b>2,216,224</b>	<b>1,157,600</b>	<b>814,378</b>	<b>730,978</b>	<b>728,361</b>	<b>848,436</b>	<b>1,163,541</b>	<b>2,441,429</b>	<b>2,875,854</b>	<b>21,378,169</b>	<b>5,443,293</b>	<b>15,934,875</b>

Current HeadBlock Rate																
Effective 8/1/23																
Line	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total	Summer	Winter	
26	R-1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27	R-3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
28	R-4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
29	R-5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
30	R-6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
31	R-7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
32	G-41	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928	\$ 0.4928
33	G-42	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485	\$ 0.4485
34	G-43	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
35	G-44	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407	\$ 0.6407
36	G-45	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830	\$ 0.5830
37	G-46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
38	G-51	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970	\$ 0.2970
39	G-52	\$ 0.2560	\$ 0.2560	\$ 0.2560	\$ 0.2560	\$ 0.1891	\$ 0.1891	\$ 0.1891	\$ 0.1891	\$ 0.1891	\$ 0.1891	\$ 0.1891	\$ 0.2560	\$ 0.2560	\$ 0.2560	\$ 0.2560
40	G-53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41	G-54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
42	G-55	\$ 0.3892	\$ 0.3892	\$ 0.3892	\$ 0.3892	\$ 0.3861	\$ 0.3861	\$ 0.3861	\$ 0.3861	\$ 0.3861	\$ 0.3861	\$ 0.3861	\$ 0.3892	\$ 0.3892	\$ 0.3892	\$ 0.3892
43	G-56	\$ 0.3328	\$ 0.3328	\$ 0.3328	\$ 0.3328	\$ 0.2458	\$ 0.2458	\$ 0.2458	\$ 0.2458	\$ 0.2458	\$ 0.2458	\$ 0.2458	\$ 0.3328	\$ 0.3328	\$ 0.3328	\$ 0.3328
44	G-57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
45	G-58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Calendar and Weather Normalized																
Headblock Revenues @ Current Rates																
Line	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total	Summer	Winter	
48	R-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
49	R-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
50	R-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
51	R-5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
52	R-6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
53	R-7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
54	<b>Total Resid.</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	
55	G-41	\$482,213	\$394,077	\$404,346	\$291,613	\$93,840	\$36,158	\$30,016	\$29,275	\$42,397	\$72,781	\$340,071	\$432,851	\$2,649,638	\$304,467	\$2,345,171
56	G-42	\$710,257	\$588,460	\$645,004	\$527,328	\$247,735	\$143,738	\$117,514	\$117,146	\$161,339	\$248,420	\$582,351	\$668,459	\$4,757,751	\$1,035,892	\$3,721,859
57	G-43	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
58	G-44	\$882	\$769	\$745	\$583	\$162	\$51	\$18	\$12	\$21	\$110	\$627	\$733	\$4,714	\$374	\$4,340
59	G-45	\$4,819	\$4,352	\$4,791	\$4,184	\$2,217	\$1,003	\$1,133	\$828	\$1,204	\$1,990	\$4,675	\$4,785	\$35,981	\$8,376	\$27,605
60	G-46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
61	G-51	\$29,249	\$24,319	\$26,673	\$24,930	\$23,876	\$24,535	\$23,721	\$23,698	\$23,282	\$26,120	\$24,611	\$27,422	\$302,436	\$145,232	\$157,204
62	G-52	\$109,477	\$90,442	\$98,924	\$91,013	\$62,273	\$63,377	\$61,491	\$61,555	\$60,736	\$69,849	\$92,122	\$103,460	\$964,719	\$379,281	\$585,439
63	G-53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
64	G-54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	G-55	\$84	\$77	\$84	\$83	\$83	\$80	\$91	\$89	\$89	\$89	\$89	\$85	\$1,020	\$520	\$500
66	G-56	\$344	\$311	\$343	\$319	\$208	\$185	\$197	\$193	\$189	\$202	\$324	\$343	\$3,157	\$1,173	\$1,984
67	G-57	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
68	G-58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
69	<b>Total C/I</b>	<b>\$1,337,326</b>	<b>\$1,102,808</b>	<b>\$1,180,910</b>	<b>\$940,053</b>	<b>\$430,392</b>	<b>\$269,127</b>	<b>\$234,180</b>	<b>\$232,795</b>	<b>\$289,258</b>	<b>\$419,562</b>	<b>\$1,044,867</b>	<b>\$1,238,138</b>	<b>\$8,719,416</b>	<b>\$1,875,314</b>	<b>\$6,844,102</b>
70	<b>Total All</b>	<b>\$1,337,326</b>	<b>\$1,102,808</b>	<b>\$1,180,910</b>	<b>\$940,053</b>	<b>\$430,392</b>	<b>\$269,127</b>	<b>\$234,180</b>	<b>\$232,795</b>	<b>\$289,258</b>	<b>\$419,562</b>	<b>\$1,044,867</b>	<b>\$1,238,138</b>	<b>\$8,719,416</b>	<b>\$1,875,314</b>	<b>\$6,844,102</b>

Normalized TY Revenues at Current Rates

TAILBLOCK

2022 Calendar and Weather Normalized Therms Tailblock													Total	Summer	Winter	
Line	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22				
1	R-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	R-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	R-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	R-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	R-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	R-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	<b>Total Resid.</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
8	G-41	4,292,655	3,716,388	2,721,265	1,313,121	525,507	265,223	194,150	178,781	325,556	866,580	1,857,231	3,321,547	19,578,003	2,355,796	17,222,207
9	G-42	5,156,735	4,549,199	3,394,721	1,698,451	680,154	325,742	236,334	237,514	474,538	1,285,506	2,446,973	4,069,658	24,555,524	3,239,788	21,315,736
10	G-43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	G-44	5,902	4,805	3,610	1,599	839	296	0	0	23	477	2,173	4,790	24,515	1,635	22,880
12	G-45	46,082	37,956	29,940	13,883	4,374	0	279	74	1,171	8,197	20,685	36,208	198,849	14,094	184,754
13	G-46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	G-51	422,235	364,092	327,721	243,697	191,017	180,133	166,423	150,107	173,529	248,655	283,735	358,438	3,109,780	1,109,863	1,999,917
15	G-52	710,962	607,312	528,014	360,476	258,689	228,317	196,313	198,936	231,050	326,136	426,211	567,184	4,639,600	1,439,441	3,200,159
16	G-53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	G-54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	G-55	762	605	568	471	271	166	207	181	258	412	452	597	4,950	1,496	3,454
19	G-56	744	558	188	0	0	0	0	0	0	0	45	282	1,817	0	1,817
20	G-57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	G-58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	<b>Total C/I</b>	<b>10,636,076</b>	<b>9,280,915</b>	<b>7,006,027</b>	<b>3,631,696</b>	<b>1,660,850</b>	<b>999,877</b>	<b>793,706</b>	<b>765,593</b>	<b>1,206,126</b>	<b>2,735,962</b>	<b>5,037,506</b>	<b>8,358,704</b>	<b>52,113,039</b>	<b>8,162,114</b>	<b>43,950,925</b>
23	<b>Total All</b>	<b>10,636,076</b>	<b>9,280,915</b>	<b>7,006,027</b>	<b>3,631,696</b>	<b>1,660,850</b>	<b>999,877</b>	<b>793,706</b>	<b>765,593</b>	<b>1,206,126</b>	<b>2,735,962</b>	<b>5,037,506</b>	<b>8,358,704</b>	<b>52,113,039</b>	<b>8,162,114</b>	<b>43,950,925</b>

Current Tailblock Rate Effective 8/1/23												
Line	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
26	R-1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	R-3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	R-4	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	R-5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	R-6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
31	R-7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
32	G-41	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390	\$ 0.3390
33	G-42	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063	\$ 0.3063
34	G-43	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
35	G-44	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406	\$ 0.4406
36	G-45	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982	\$ 0.3982
37	G-46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
38	G-51	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983	\$ 0.1983
39	G-52	\$ 0.1749	\$ 0.1749	\$ 0.1749	\$ 0.1749	\$ 0.1132	\$ 0.1132	\$ 0.1132	\$ 0.1132	\$ 0.1132	\$ 0.1132	\$ 0.1749
40	G-53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41	G-54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
42	G-55	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579	\$ 0.2579
43	G-56	\$ 0.2274	\$ 0.2274	\$ 0.2274	\$ 0.2274	\$ 0.1472	\$ 0.1472	\$ 0.1472	\$ 0.1472	\$ 0.1472	\$ 0.1472	\$ 0.2274
44	G-57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
45	G-58	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Calendar and Weather Normalized Tailblock Revenues @ Current Rates													Total	Summer	Winter	
Line	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22				
48	R-1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
49	R-3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
50	R-4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
51	R-5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
52	R-6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
53	R-7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
54	<b>Total Resid.</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
55	G-41	\$1,455,210	\$1,259,856	\$922,509	\$445,148	\$178,147	\$89,910	\$65,817	\$60,607	\$110,364	\$293,771	\$629,601	\$1,126,004	\$6,636,943	\$798,615	\$5,838,328
56	G-42	\$1,579,508	\$1,393,420	\$1,039,803	\$520,235	\$208,331	\$99,775	\$72,389	\$72,750	\$145,351	\$393,750	\$749,508	\$1,246,536	\$7,521,357	\$992,347	\$6,529,010
57	G-43	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
58	G-44	\$2,601	\$2,117	\$1,591	\$704	\$370	\$131	\$0	\$0	\$10	\$210	\$958	\$2,111	\$10,801	\$720	\$10,081
59	G-45	\$18,350	\$15,114	\$11,922	\$5,528	\$1,742	\$0	\$111	\$29	\$466	\$3,264	\$8,237	\$14,418	\$79,182	\$5,612	\$73,569
60	G-46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
61	G-51	\$83,729	\$72,199	\$64,987	\$48,325	\$37,879	\$35,720	\$33,002	\$29,766	\$34,411	\$49,308	\$56,265	\$71,078	\$616,669	\$220,086	\$396,584
62	G-52	\$124,347	\$106,219	\$92,350	\$63,047	\$29,284	\$25,846	\$22,223	\$22,520	\$26,155	\$36,919	\$74,544	\$99,201	\$722,653	\$162,945	\$559,708
63	G-53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
64	G-54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	G-55	\$197	\$156	\$146	\$121	\$70	\$43	\$53	\$47	\$67	\$106	\$117	\$154	\$1,277	\$386	\$891
66	G-56	\$169	\$127	\$43	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10	\$84	\$413	\$0	\$413
67	G-57	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
68	G-58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
69	<b>Total C/I</b>	<b>\$3,264,110</b>	<b>\$2,849,208</b>	<b>\$2,133,351</b>	<b>\$1,083,110</b>	<b>\$455,821</b>	<b>\$251,425</b>	<b>\$193,595</b>	<b>\$185,719</b>	<b>\$316,823</b>	<b>\$777,328</b>	<b>\$1,519,239</b>	<b>\$2,559,566</b>	<b>\$15,589,295</b>	<b>\$2,180,711</b>	<b>\$13,408,584</b>
70	<b>Total All</b>	<b>\$3,264,110</b>	<b>\$2,849,208</b>	<b>\$2,133,351</b>	<b>\$1,083,110</b>	<b>\$455,821</b>	<b>\$251,425</b>	<b>\$193,595</b>	<b>\$185,719</b>	<b>\$316,823</b>	<b>\$777,328</b>	<b>\$1,519,239</b>	<b>\$2,559,566</b>	<b>\$15,589,295</b>	<b>\$2,180,711</b>	<b>\$13,408,584</b>

Check

\$15,589,295 \$2,180,711 \$13,408,584



Normalized TY Revenues at Current Rates

HEADBLOCK + TAILBLOCK + ALL BLOCK THERMS

2022 Calendar and Weather Normalized Therms  
Headblock+Tailblock+All Block

Table with columns for Line, Jan-22, Feb-22, Mar-22, Apr-22, May-22, Jun-22, Jul-22, Aug-22, Sep-22, Oct-22, Nov-22, Dec-22, Total, Summer, Winter. Rows include R-1 through R-7, G-41 through G-58, and Total C/I, Total All.

Check

TOTAL CALENDAR AND WEATHER NORMALIZED VOLUMETRIC REVENUES (HEADBLOCK + TAILBLOCK + ALL BLOCK)

2022 Calendar and Weather Normalized Revenues

Table with columns for Line, Jan-22, Feb-22, Mar-22, Apr-22, May-22, Jun-22, Jul-22, Aug-22, Sep-22, Oct-22, Nov-22, Dec-22, Total, Summer, Winter. Rows include R-1 through R-7, G-41 through G-58, and Total C/I, Total All.

Check

TOTAL CALENDAR AND WEATHER NORMALIZED REVENUES (CUSTOMER + VOLUMETRIC)

2022 Calendar and Weather Normalized Revenues  
Customer + Volumetric

Table with columns for Line, Jan-22, Feb-22, Mar-22, Apr-22, May-22, Jun-22, Jul-22, Aug-22, Sep-22, Oct-22, Nov-22, Dec-22, Total, Summer, Winter. Rows include R-1 through R-7, G-41 through G-58, and Total C/I, Total All.

Check

Normalized TY Revenues at Current Rates  
Base Revenue Per Customer

Line		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	
1	R-1	\$31.49	\$30.80	\$28.25	\$24.96	\$21.53	\$20.83	\$19.64	\$19.41	\$20.27	\$22.81	\$26.88	\$31.49	
2	R-3	\$104.08	\$99.83	\$77.75	\$53.18	\$31.88	\$25.58	\$23.49	\$23.09	\$26.52	\$37.79	\$64.52	\$88.95	
3	R-4	\$55.13	\$52.80	\$42.11	\$29.19	\$32.05	\$25.81	\$23.79	\$23.13	\$25.54	\$34.12	\$30.21	\$41.31	
4	<b>Total Resid.</b>	<b>\$97.57</b>	<b>\$93.61</b>	<b>\$73.16</b>	<b>\$50.31</b>	<b>\$31.51</b>	<b>\$25.41</b>	<b>\$23.38</b>	<b>\$22.97</b>	<b>\$26.22</b>	<b>\$36.95</b>	<b>\$60.51</b>	<b>\$83.21</b>	
5	G-41	\$253.08	\$242.13	\$192.17	\$136.58	\$88.29	\$74.20	\$70.77	\$70.20	\$77.17	\$98.57	\$161.99	\$217.22	
6	G-42	\$1,701.60	\$1,634.82	\$1,296.74	\$898.46	\$485.41	\$350.19	\$309.16	\$309.39	\$392.11	\$611.14	\$1,097.09	\$1,463.56	
7	G-43	\$9,964.89	\$9,384.57	\$7,787.07	\$5,600.97	\$1,934.30	\$1,549.77	\$1,384.79	\$1,430.91	\$1,624.56	\$2,534.15	\$6,544.03	\$8,364.91	
8	G-51	\$146.20	\$141.47	\$129.94	\$117.90	\$107.46	\$107.89	\$103.70	\$101.36	\$105.82	\$118.53	\$124.68	\$136.69	
9	G-52	\$738.64	\$700.02	\$637.46	\$562.25	\$400.16	\$401.15	\$380.82	\$382.08	\$393.26	\$436.03	\$588.48	\$659.64	
10	G-53	\$6,942.57	\$6,450.90	\$5,929.00	\$4,923.04	\$2,475.74	\$2,662.15	\$2,378.35	\$2,449.84	\$2,545.23	\$2,887.12	\$5,530.13	\$6,267.70	
11	G-54	\$4,154.00	\$3,813.81	\$3,978.58	\$4,494.28	\$2,686.50	\$2,821.81	\$2,811.63	\$3,137.95	\$2,798.18	\$3,275.13	\$4,192.23	\$3,430.07	
12	<b>Total C/I</b>	<b>\$494.92</b>	<b>\$472.53</b>	<b>\$384.67</b>	<b>\$282.95</b>	<b>\$166.46</b>	<b>\$140.18</b>	<b>\$130.69</b>	<b>\$131.40</b>	<b>\$147.63</b>	<b>\$196.62</b>	<b>\$333.13</b>	<b>\$425.66</b>	
13	<b>Total All</b>	<b>\$150.49</b>	<b>\$144.13</b>	<b>\$114.71</b>	<b>\$81.26</b>	<b>\$49.31</b>	<b>\$40.41</b>	<b>\$37.34</b>	<b>\$37.04</b>	<b>\$41.95</b>	<b>\$57.90</b>	<b>\$96.61</b>	<b>\$128.74</b>	
14	<b>Base Fixed Revenue Per Customer</b>													
		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	
15	R-1	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	
16	R-3	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	
17	R-4	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	
18	<b>Total Resid.</b>	<b>\$14.90</b>	<b>\$14.90</b>	<b>\$14.90</b>	<b>\$14.90</b>	<b>\$15.41</b>	<b>\$15.41</b>	<b>\$15.41</b>	<b>\$15.41</b>	<b>\$15.41</b>	<b>\$15.41</b>	<b>\$14.90</b>	<b>\$14.90</b>	
19	G-41	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	
20	G-42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	
21	G-43	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	
22	G-51	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	
23	G-52	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	
24	G-53	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	
25	G-54	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	
26	<b>Total C/I</b>	<b>\$85.43</b>	<b>\$85.42</b>	<b>\$85.38</b>	<b>\$85.50</b>	<b>\$85.74</b>	<b>\$86.03</b>	<b>\$86.23</b>	<b>\$86.30</b>	<b>\$86.37</b>	<b>\$85.92</b>	<b>\$85.74</b>	<b>\$85.33</b>	
27	<b>Total All</b>	<b>\$24.30</b>	<b>\$24.31</b>	<b>\$24.31</b>	<b>\$24.30</b>	<b>\$24.69</b>	<b>\$24.64</b>	<b>\$24.62</b>	<b>\$24.61</b>	<b>\$24.61</b>	<b>\$24.66</b>	<b>\$24.28</b>	<b>\$24.27</b>	
28	<b>Base Variable Revenue Per Customer</b>													
		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	
29	R-1	\$16.10	\$15.41	\$12.86	\$9.57	\$6.14	\$5.24	\$4.25	\$4.02	\$4.88	\$7.42	\$11.49	\$16.10	
30	R-3	\$88.69	\$84.43	\$62.36	\$37.79	\$16.49	\$10.18	\$8.10	\$7.70	\$11.12	\$22.40	\$49.12	\$73.56	
31	R-4	\$46.66	\$44.34	\$33.65	\$20.73	\$16.65	\$10.41	\$8.40	\$7.74	\$10.14	\$18.73	\$21.74	\$32.85	
32	<b>Total Resid.</b>	<b>\$37.26</b>	<b>\$34.94</b>	<b>\$25.82</b>	<b>\$17.26</b>	<b>\$8.84</b>	<b>\$5.04</b>	<b>\$4.45</b>	<b>\$4.21</b>	<b>\$5.38</b>	<b>\$11.76</b>	<b>\$24.49</b>	<b>\$37.73</b>	
33	G-41	\$192.27	\$181.31	\$131.35	\$75.77	\$27.47	\$13.39	\$9.98	\$9.38	\$16.36	\$37.76	\$101.17	\$156.41	
34	G-42	\$1,519.18	\$1,452.40	\$1,114.32	\$716.04	\$302.99	\$167.77	\$126.74	\$126.97	\$209.69	\$428.72	\$914.67	\$1,281.14	
35	G-43	\$9,183.72	\$8,603.40	\$7,005.90	\$4,819.80	\$1,153.13	\$768.60	\$603.62	\$649.75	\$843.39	\$1,752.99	\$5,762.86	\$7,583.74	
36	G-51	\$85.33	\$80.60	\$69.07	\$57.03	\$46.58	\$47.02	\$42.83	\$40.49	\$44.95	\$57.66	\$63.81	\$75.82	
37	G-52	\$556.37	\$517.75	\$455.19	\$379.99	\$217.90	\$218.89	\$198.56	\$199.82	\$211.00	\$253.77	\$406.22	\$477.37	
38	G-53	\$6,136.82	\$5,645.15	\$5,123.25	\$4,117.28	\$1,669.98	\$1,856.40	\$1,572.60	\$1,644.08	\$1,739.47	\$2,081.36	\$4,724.37	\$5,461.94	
39	G-54	\$3,347.58	\$3,007.39	\$3,172.16	\$3,687.87	\$1,880.08	\$2,015.39	\$2,005.21	\$2,331.53	\$1,991.76	\$2,468.71	\$3,385.82	\$2,623.65	
40	<b>Total C/I</b>	<b>\$409.49</b>	<b>\$387.11</b>	<b>\$299.28</b>	<b>\$197.45</b>	<b>\$80.73</b>	<b>\$54.14</b>	<b>\$44.47</b>	<b>\$45.10</b>	<b>\$61.27</b>	<b>\$110.70</b>	<b>\$247.39</b>	<b>\$340.33</b>	
41	<b>Total All</b>	<b>\$126.20</b>	<b>\$119.83</b>	<b>\$90.40</b>	<b>\$56.96</b>	<b>\$24.62</b>	<b>\$15.77</b>	<b>\$12.71</b>	<b>\$12.43</b>	<b>\$17.34</b>	<b>\$33.24</b>	<b>\$72.33</b>	<b>\$104.47</b>	

Normalized TY Revenues at Current Rates  
Base Variable Revenue Per Therm

Line		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
1	R-1	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140	\$ 0.46140
2	R-3	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670
3	R-4	\$ 0.33920	\$ 0.33920	\$ 0.33920	\$ 0.33920	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.61670	\$ 0.33920	\$ 0.33920
4	<b>Total Resid.</b>	\$ 0.59550	\$ 0.59557	\$ 0.59488	\$ 0.59417	\$ 0.61424	\$ 0.61295	\$ 0.61292	\$ 0.61294	\$ 0.61348	\$ 0.61443	\$ 0.59805	\$ 0.59812
5	G-41	\$ 0.36755	\$ 0.36623	\$ 0.37463	\$ 0.38678	\$ 0.37991	\$ 0.37233	\$ 0.37573	\$ 0.37736	\$ 0.37115	\$ 0.36140	\$ 0.38067	\$ 0.37117
6	G-42	\$ 0.33971	\$ 0.33813	\$ 0.34862	\$ 0.36447	\$ 0.37003	\$ 0.37682	\$ 0.38106	\$ 0.38078	\$ 0.36762	\$ 0.34912	\$ 0.35560	\$ 0.34442
7	G-43	\$ 0.27660	\$ 0.27660	\$ 0.27660	\$ 0.27660	\$ 0.13440	\$ 0.13440	\$ 0.13440	\$ 0.13440	\$ 0.13440	\$ 0.13440	\$ 0.27660	\$ 0.27660
8	G-51	\$ 0.21697	\$ 0.21642	\$ 0.21953	\$ 0.22359	\$ 0.22753	\$ 0.22933	\$ 0.23031	\$ 0.23256	\$ 0.22901	\$ 0.22409	\$ 0.22061	\$ 0.21852
9	G-52	\$ 0.20536	\$ 0.20473	\$ 0.20917	\$ 0.21517	\$ 0.15571	\$ 0.15835	\$ 0.16053	\$ 0.16031	\$ 0.15734	\$ 0.15351	\$ 0.21203	\$ 0.20864
10	G-53	\$ 0.17900	\$ 0.17900	\$ 0.17900	\$ 0.17900	\$ 0.09070	\$ 0.09070	\$ 0.09070	\$ 0.09070	\$ 0.09070	\$ 0.09070	\$ 0.17900	\$ 0.17900
11	G-54	\$ 0.06820	\$ 0.06820	\$ 0.06820	\$ 0.06820	\$ 0.03860	\$ 0.03860	\$ 0.03860	\$ 0.03860	\$ 0.03860	\$ 0.03860	\$ 0.06820	\$ 0.06820
12	<b>Total C/I</b>	\$ 0.29822	\$ 0.29865	\$ 0.29474	\$ 0.27886	\$ 0.19861	\$ 0.15985	\$ 0.14895	\$ 0.14101	\$ 0.17161	\$ 0.20012	\$ 0.28878	\$ 0.30189
13	<b>Total All</b>	\$ 0.41619	\$ 0.41699	\$ 0.41036	\$ 0.39053	\$ 0.32244	\$ 0.26979	\$ 0.25356	\$ 0.23791	\$ 0.28153	\$ 0.32261	\$ 0.40270	\$ 0.41973

14 Use Per Customer

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	
15	R-1	34.9	33.4	27.9	20.7	13.3	11.4	9.2	8.7	10.6	16.1	24.9	34.9
16	R-3	143.8	136.9	101.1	61.3	26.7	16.5	13.1	12.5	18.0	36.3	79.7	119.3
17	R-4	137.6	130.7	99.2	61.1	27.0	16.9	13.6	12.6	16.4	30.4	64.1	96.8
18	<b>Total Resid.</b>	<b>138.8</b>	<b>132.1</b>	<b>97.9</b>	<b>59.6</b>	<b>26.2</b>	<b>16.3</b>	<b>13.0</b>	<b>12.3</b>	<b>17.6</b>	<b>35.1</b>	<b>76.3</b>	<b>114.2</b>
19	G-41	523.1	495.1	350.6	195.9	72.3	36.0	26.5	24.9	44.1	104.5	265.8	421.4
20	G-42	4,472.0	4,295.4	3,196.4	1,964.6	818.8	445.2	332.6	333.5	570.4	1,228.0	2,572.2	3,719.7
21	G-43	33,202.2	31,104.1	25,328.6	17,425.1	8,579.9	5,718.8	4,491.2	4,834.4	6,275.2	13,043.0	20,834.6	27,417.7
22	G-51	393.3	372.4	314.6	255.1	204.7	205.0	186.0	174.1	196.3	257.3	289.2	347.0
23	G-52	2,709.3	2,529.0	2,176.2	1,766.0	1,399.4	1,382.3	1,236.9	1,246.5	1,341.0	1,653.1	1,915.9	2,288.0
24	G-53	34,283.9	31,537.2	28,621.5	23,001.6	18,412.2	20,467.5	17,338.5	18,126.6	19,178.3	22,947.8	26,393.1	30,513.7
25	G-54	49,084.7	44,096.6	46,512.6	54,074.3	48,706.8	52,212.3	51,948.4	60,402.4	51,600.0	63,956.2	49,645.4	38,469.9
26	G-63	-	-	-	-	-	-	-	-	-	-	-	-
27	<b>Total C/I</b>	<b>1,373.1</b>	<b>1,296.2</b>	<b>1,015.4</b>	<b>708.1</b>	<b>406.5</b>	<b>338.7</b>	<b>298.6</b>	<b>319.8</b>	<b>357.0</b>	<b>553.2</b>	<b>856.7</b>	<b>1,127.3</b>
28	<b>Total All</b>	<b>303.2</b>	<b>287.4</b>	<b>220.3</b>	<b>145.9</b>	<b>76.4</b>	<b>58.4</b>	<b>50.1</b>	<b>52.2</b>	<b>61.6</b>	<b>103.0</b>	<b>179.6</b>	<b>248.9</b>
29	Check	0	0	0	0	0	0	0	0	0	0	0	0

**TARGET REVENUE BY CLASS - PERMANENT RATES**

Line	1	2	3	4	5	6	7	8	9	10	11	12
1	<b>RESIDENTIAL AND C&amp;I TARGET REVENUE</b>											
2							Source					
3	TY Total System Target Revenue						\$121,252,410	RR-EN-2				
4	Residential Target Revenue @ Full MCOS %						\$69,171,474	Residential % From MCOS x Total Target Revenue				
5	Res. % of Full MCOS Needed for Equal Rev. % Change for all classes						96.9609%	[ Res. TY Norm. Rev. x (1+ System Avg Increase) ] / Res Rev. @ Full MCOS				
6	Residential % of Full MCOS Used For Model						98.5000%	Manual Input				
7	Residential Target Revenue @ 98.5% of Full MCOS						\$68,133,902	Total Target Rev. X 98.5%				
8	C&I Target Revenue						\$53,118,508	Total Target Rev. less Residential Target Revenue				
8	<b>INTRA RESIDENTIAL AND INTRA C&amp;I TARGET REVENUE ALLOCATION</b>											
9	Intra Res. Allocation (R-1/R-5 vs. R-3/R-4/R6/R-7) Method:						Residential share of normalized test year revenues @ current rates					
10	Intra C&I Allocation Method:						C&I share of normalized test year revenues @ current rates					
11	<b>CUSTOMER/VOLUMETRIC ALLOCATION</b>											
12	Method:						Customer Allocation % = 90% of Customer % from normalized test year revenues @ current rates					
13	<b>CUSTOMER AND ENERGY TARGET REVENUE BY CLASS</b>											
14	<b>Class Target Revenue Results</b>											
15	Class Revenue	Norm. TY Revs @ Stated Current Rates (Eff. 8/1/23)	Target Revenues @ Full MCOS	Initial Proposed Class Target Revenue	Target Revenue Adjustments	Proposed Class Target Revenue	Class Revenue Incr/(Deer)	Class Revenue % Increase	Customer Allocation	Volumetric Allocation	Customer Target Revenue	Volumetric (Energy) Target Revenue
16	<b>Residential</b>											
17	R-1/R-5	\$1,053,354	\$1,831,227	\$1,343,811		\$1,343,811	\$290,457	27.57%	55.5%	44.5%	\$746,097	\$597,714
18	R-3/R-4/R6/R-7	\$52,353,807	\$67,340,247	\$66,790,091		\$66,790,091	\$14,436,284	27.57%	25.7%	74.3%	\$17,168,925	\$49,621,166
19	Total Residential	\$53,407,161	\$69,171,474	\$68,133,902	\$0	\$68,133,902	\$14,726,741	27.57%			\$17,915,022	\$50,218,880
20	<b>C&amp;I</b>											
21	G-41/G-44	\$16,380,339	\$17,774,399	\$20,166,400		\$20,166,400	\$3,786,061	23.11%	38.9%	61.1%	\$7,842,842	\$12,323,558
22	G-42/G-45	\$15,647,893	\$17,240,854	\$19,264,660		\$19,264,660	\$3,616,768	23.11%	18.7%	81.3%	\$3,605,082	\$15,659,578
23	G-43/G-46	\$3,739,454	\$4,764,591	\$4,603,770		\$4,603,770	\$864,317	23.11%	14.6%	85.4%	\$672,788	\$3,930,983
24	G-51/G-55	\$1,871,369	\$1,966,298	\$2,303,906		\$2,303,906	\$432,538	23.11%	45.7%	54.3%	\$1,052,582	\$1,251,324
25	G-52/G-56	\$2,598,462	\$3,169,215	\$3,199,056		\$3,199,056	\$600,594	23.11%	31.4%	68.6%	\$1,005,551	\$2,193,505
26	G-53/G-57	\$1,767,887	\$3,932,244	\$2,176,506		\$2,176,506	\$408,620	23.11%	17.0%	83.0%	\$369,612	\$1,806,895
27	G-54/G-58	\$1,140,581	\$3,233,335	\$1,404,208		\$1,404,208	\$263,628	23.11%	21.4%	78.6%	\$300,566	\$1,103,643
28	Total C&I	\$43,145,983	\$52,080,936	\$53,118,508	\$0	\$53,118,508	\$9,972,525	23.11%			\$14,849,022	\$38,269,486
29	Total Revenue	\$96,553,144	\$121,252,410	\$121,252,410	\$0	\$121,252,410	\$24,699,266	25.58%			\$32,764,044	\$88,488,366
30	System Avg increase %						25.58%					
31	<b>Class Revenue Proportion</b>											
32	<b>Residential</b>											
33	R-1/R-5	1.09%	1.51%	1.11%		1.11%	1.18%				2.28%	0.68%
34	R-3/R-4/R6/R-7	54.22%	55.54%	55.08%		55.08%	58.45%				52.40%	56.08%
35	Total Residential	55.31%	57.05%	56.19%	0.00%	56.19%	59.62%				54.68%	56.75%
36	<b>C&amp;I</b>											
37	G-41/G-44	16.97%	14.66%	16.63%		16.63%	15.33%				23.94%	13.93%
38	G-42/G-45	16.21%	14.22%	15.89%		15.89%	14.64%				11.00%	17.70%
39	G-43/G-46	3.87%	3.93%	3.80%		3.80%	3.50%				2.05%	4.44%
40	G-51/G-55	1.94%	1.62%	1.90%		1.90%	1.75%				3.21%	1.41%
41	G-52/G-56	2.69%	2.61%	2.64%		2.64%	2.43%				3.07%	2.48%
42	G-53/G-57	1.83%	3.24%	1.80%		1.80%	1.65%				1.13%	2.04%
43	G-54/G-58	1.18%	2.67%	1.16%		1.16%	1.07%				0.92%	1.25%
44	Total C&I	44.69%	42.95%	43.81%	0.00%	43.81%	40.38%				45.32%	43.25%
45	Total Proportion	100.00%	100.00%	100.00%	0.00%	100.00%	100.00%				100.00%	100.00%







Line	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
	Total System	Total Residential	Total C&I	R-1/R-5 R-1	R-1/R-5 R-5 MEP	R-3/R-4/R6/R-7 R-3	R-3/R-4/R6/R-7 R-6 MEP	R-3/R-4/R6/R-7 R-4	R-3/R-4/R6/R-7 R-7 MEP	G-41/G-44 G-41	G-41/G-44 G-44 MEP	G-42/G-45 G-42	G-42/G-45 G-45 MEP	G-43/G-46 G-43	G-43/G-46 G-46 MEP	G-51/G-55 G-51	G-51/G-55 G-55 MEP	G-52/G-56 G-52	G-52/G-56 G-56 MEP	G-53/G-57 G-53	G-53/G-57 G-57 MEP	G-54/G-58 G-54	G-54/G-58 G-58 MEP				
109	Revenue (Deficiency) / Excess From Disc. Rates Check																										
110	<u>CUSTOMER CHARGE RATE</u>																										
111	Customer - Summer	Summer	\$0	\$0	\$0					\$0	\$0																
112	Customer - Winter	Winter	(\$294,855)	(\$294,855)	\$0					(\$294,446)	(\$409)																
113	<b>Total Customer Charge Revenues</b>		<b>(\$294,855)</b>	<b>(\$294,855)</b>	<b>\$0</b>					<b>(\$294,446)</b>	<b>(\$409)</b>																
114	<u>ENERGY CHARGE RATE</u>																										
115	Energy - Summer - HB	Summer	\$0	\$0	\$0																						
116	Energy - Summer - TB	Summer	\$0	\$0	\$0																						
117	Energy - Summer - All Block	Summer	\$0	\$0	\$0				\$0	\$0																	
118	Energy - Winter - HB	Winter	\$0	\$0	\$0																						
119	Energy - Winter - TB	Winter	\$0	\$0	\$0																						
120	Energy - Winter - All Block	Winter	(\$1,325,351)	(\$1,325,351)	\$0					(\$1,324,145)	(\$1,206)																
121	<b>Total Energy Charge Revenues</b>		<b>(\$1,325,351)</b>	<b>(\$1,325,351)</b>	<b>\$0</b>					<b>(\$1,324,145)</b>	<b>(\$1,206)</b>																
122	<b>Total System Revenues for LDAC</b>		<b>(\$1,620,206)</b>	<b>(\$1,620,206)</b>	<b>\$0</b>					<b>(\$1,618,591)</b>	<b>(\$1,615)</b>																
123	<b>LDAC - GAP Rate (\$/therm)</b>		<b>(\$0.0092)</b>																								

Line	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26						
124	<b>RATE COMPARISON</b>																															
	Total System	Total Residential	Total C&I	R-1/R-5 R-1	R-1/R-5 R-5 MEP	R-3/R-4/R6/R-7 R-3	R-3/R-4/R6/R-7 R-6 MEP	R-3/R-4/R6/R-7 R-4	R-3/R-4/R6/R-7 R-7 MEP	G-41/G-44 G-41	G-41/G-44 G-44 MEP	G-42/G-45 G-42	G-42/G-45 G-45 MEP	G-43/G-46 G-43	G-43/G-46 G-46 MEP	G-51/G-55 G-51	G-51/G-55 G-55 MEP	G-52/G-56 G-52	G-52/G-56 G-56 MEP	G-53/G-57 G-53	G-53/G-57 G-57 MEP	G-54/G-58 G-54	G-54/G-58 G-58 MEP									
125	<b>CUSTOMER CHARGE</b>																															
126	Proposed Rates - Discounted R4/R7, Rounded																															
127	Customer	Summer	Customer-Summer-	\$17.67	\$22.97	\$17.37	\$22.58	\$17.37	\$22.58	\$67.38	\$87.59	\$202.13	\$262.77	\$865.55	\$1,125.22	\$67.45	\$87.69	\$201.95	\$262.54	\$892.79	\$1,160.63	\$893.53	\$1,161.59									
128	Customer	Winter	Customer-Winter-	\$17.67	\$22.97	\$17.37	\$22.58	\$9.55	\$12.42	\$67.38	\$87.59	\$202.13	\$262.77	\$865.55	\$1,125.22	\$67.45	\$87.69	\$201.95	\$262.54	\$892.79	\$1,160.63	\$893.53	\$1,161.59									
129	Current																															
130	Customer	Summer	Customer-Summer-	\$15.39	\$20.01	\$15.39	\$20.01	\$15.39	\$20.01	\$60.81	\$79.06	\$182.42	\$237.14	\$781.17	\$1,015.52	\$60.87	\$79.13	\$182.26	\$236.94	\$805.75	\$1,047.48	\$806.42	\$1,048.34									
131	Customer	Winter	Customer-Winter-	\$15.39	\$20.01	\$15.39	\$20.01	\$6.47	\$11.01	\$60.81	\$79.06	\$182.42	\$237.14	\$781.17	\$1,015.52	\$60.87	\$79.13	\$182.26	\$236.94	\$805.75	\$1,047.48	\$806.42	\$1,048.34									
132	% Change in Customer Rate																															
133	Customer	Summer	Customer-Summer-	14.8%	14.8%	12.8%	12.8%	12.8%	12.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%			
134	Customer	Winter	Customer-Winter-	14.8%	14.8%	12.8%	12.8%	12.8%	12.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%	10.8%			
135	<b>ENERGY CHARGE</b>																															
136	Proposed Rates - Discounted R4/R7, Rounded																															
137	Energy	Summer	HB							\$0.6529	\$0.8488	\$0.5667	\$0.7367			\$0.4033	\$0.5243	\$0.2453	\$0.3189													
138	Energy	Summer	TB							\$0.4491	\$0.5838	\$0.3870	\$0.5031			\$0.2693	\$0.3501	\$0.1468	\$0.1908													
139	Energy	Summer	All	\$0.6834	\$0.8884	\$0.7964	\$1.0353	\$0.7964	\$1.0353					\$0.1687	\$0.2193					\$0.1143	\$0.1486	\$0.0490	\$0.0637									
140	Energy	Winter	HB							\$0.6529	\$0.8488	\$0.5667	\$0.7367			\$0.4033	\$0.5243	\$0.3321	\$0.4317													
141	Energy	Winter	TB							\$0.4491	\$0.5838	\$0.3870	\$0.5031			\$0.2693	\$0.3501	\$0.2269	\$0.2950													
142	Energy	Winter	All	\$0.6834	\$0.8884	\$0.7964	\$1.0353	\$0.4380	\$0.5694					\$0.3471	\$0.4512					\$0.2255	\$0.2932	\$0.0866	\$0.1126									
143	Current																															
144	Energy	Summer	HB							\$0.4928	\$0.6407	\$0.4485	\$0.5830			\$0.2970	\$0.3861	\$0.1891	\$0.2458													
145	Energy	Summer	TB							\$0.3390	\$0.4406	\$0.3063	\$0.3982			\$0.1983	\$0.2579	\$0.1132	\$0.1472													
146	Energy	Summer	All	\$0.4614	\$0.5999	\$0.6167	\$0.8017	\$0.6167	\$0.8017					\$0.1344	\$0.1747					\$0.0907	\$0.1179	\$0.0386	\$0.0502									
147	Energy	Winter	HB							\$0.4928	\$0.6407	\$0.4485	\$0.5830			\$0.2970	\$0.3892	\$0.2560	\$0.3328													
148	Energy	Winter	TB							\$0.3390	\$0.4406	\$0.3063	\$0.3982			\$0.1983	\$0.2579	\$0.1749	\$0.2274													
149	Energy	Winter	All	\$0.4614	\$0.5999	\$0.6167	\$0.8017	\$0.3392	\$0.4409					\$0.2766	\$0.3596					\$0.1790	\$0.2327	\$0.0682	\$0.0887									
150	% Change in Energy Rate																															
151	Energy	Summer	HB							32.5%	32.5%	26.4%	26.4%			35.8%	35.8%	29.7%	29.7%													
152	Energy	Summer	TB							32.5%	32.5%	26.3%	26.3%			35.8%	35.8%	29.7%	29.6%													
153	Energy	Summer	All	48.1%	48.1%	29.1%	29.1%	29.1%	29.1%					25.5%	25.5%					26.0%	26.0%	26.9%	26.9%									
154	Energy	Winter	HB							32.5%	32.5%	26.4%	26.4%			35.8%	34.7%	29.7%	29.7%													
155	Energy	Winter	TB							32.5%	32.5%	26.3%	26.3%			35.8%	35.8%	29.7%	29.7%													
156	Energy	Winter	All	48.1%	48.1%	29.1%	29.1%	29.1%	29.1%					25.5%	25.5%					26.0%	26.0%	27.0%	26.9%									
157	<b>% Change in Total Revenue</b>																															
158	Normalized TV Revenues @ Current Rates (8/1/23)	\$96,553,144	\$53,407,161	\$43,145,983	\$1,018,733	\$34,621	\$49,588,120	\$250,447	\$2,542,667	\$2,573	\$16,349,808	\$30,730	\$15,509,556	\$138,337	\$3,739,454	\$0	\$1,865,239	\$5,130	\$2,591,991	\$6,470	\$1,767,887	\$0	\$1,108,852	\$31,729								
159	Proposed Revenues @ Undiscounted, unrounded rates	\$121,252,410	\$68,133,902	\$53,118,508	\$1,298,601	\$45,210	\$61,713,222	\$310,520	\$4,761,990	\$4,759	\$20,128,984	\$37,416	\$19,094,478	\$171,182	\$4,603,517	\$0	\$2,296,546	\$7,360	\$3,191,227	\$7,845	\$2,176,674	\$0	\$1,366,964	\$38,216								
160	Proposed Revenues @ Discounted Rates, rounded	\$119,635,219	\$66,516,508	\$53,118,611	\$1,298,569	\$45,207	\$61,715,955	\$310,525	\$3,143,208	\$3,144	\$20,128,464	\$37,414	\$19,094,093	\$171,187	\$4,603,517	\$0	\$2,296,545	\$7,361	\$3,191,227	\$7,845	\$2,176,674	\$0	\$1,366,064	\$38,221								
161	Revenue Shortfall For LDAC	\$1,620,206	\$1,620,206	\$0	\$0	\$0	\$0	\$0	\$1,618,991	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
162	Rev. % Increase @ Undiscounted Rates, rounded	25.6%	27.6%	23.1%	27.5%	30.6%	24.5%	24.0%	87.3%	85.0%	23.1%	21.7%	23.1%	23.7%	23.1%	n/a	23.1%	20.1%	23.1%	21.2%	23.1%	n/a	23.2%	20.5%								
163	Rev. % Increase @ Discounted Rates, rounded	23.9%	24.5%	23.1%	27.5%	30.6%	24.5%	24.0%	23.6%	22.2%	23.1%	21.7%	23.1%	23.7%	23.1%	n/a	23.1%	20.1%	23.1%	21.2%	23.1%	n/a	23.2%	20.5%								

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Indirect Gas Costs Analysis

Docket No. DG 23-067  
Attachment KAS-3  
Schedule RATES-5  
Page 1 of 1

Line	Description	Residential			Commercial and Industrial: Low Load Factor			Commercial and Industrial: High Load Factor				Company Total	Explanation
		Non Heat R-1 (A)	Heat R-3 (B)	Low Income Heat R-4 (C)	Low Annual G-41 (D)	Medium Annual G-42 (E)	High Annual G-43 (F)	Low Annual G-51 (G)	Medium Annual G-52 (H)	High Annual G-53 (I)	High Annual G-54 (J)		
1	LP and LNG Costs											\$ 5,914,311	FCOS
2	Winter Sales Volumes	623,241	48,375,797	3,697,189	17,069,108	13,445,648	3,186,623	1,917,151	2,091,400	1,772,360	113,649	\$ 92,292,167	Company Records
3	Unit Cost in COGC											\$ 0.06408	Line 1 / Line 2
4	Class Revenues	\$ 39,939	\$ 3,100,041	\$ 236,925	\$ 1,093,831	\$ 861,630	\$ 204,207	\$ 122,856	\$ 134,022	\$ 113,577	\$ 7,283	\$ 5,914,311	Line 2 x Line 3
5													
6	Bad Debt Costs											\$ 5,444	FCOS
7	Annual Sales Volumes	866,387	57,851,078	4,394,125	19,376,847	15,958,485	4,083,744	3,128,971	3,404,492	2,980,592	249,560	\$ 112,294,280	Company Records
8	Unit Cost in COGC											\$ 0.00005	Line 6 / Line 7
9	Class Revenues	\$ 42	\$ 2,805	\$ 213	\$ 939	\$ 774	\$ 198	\$ 152	\$ 165	\$ 144	\$ 12	\$ 5,444	Line 7 x Line 8
10													
11	Gas Working Capital											\$ -	FCOS
12	Annual Sales Volumes	866,387	57,851,078	4,394,125	19,376,847	15,958,485	4,083,744	3,128,971	3,404,492	2,980,592	249,560	\$ 112,294,280	Company Records
13	Unit Cost in COGC											\$ -	Line 11 / Line 12
14	Class Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	Line 12 x Line 13
15													
16	Other A&G and Misc.											\$ 360,032	FCOS
17	Annual Sales Volumes	866,387	57,851,078	4,394,125	19,376,847	15,958,485	4,083,744	3,128,971	3,404,492	2,980,592	249,560	\$ 112,294,280	Company Records
18	Unit Cost in COGC											\$ 0.00321	Line 16 / Line 17
19	Class Revenues	\$ 2,778	\$ 185,479	\$ 14,088	\$ 62,125	\$ 51,165	\$ 13,093	\$ 10,032	\$ 10,915	\$ 9,556	\$ 800	\$ 360,032	Line 17 x Line 18
20													
21	Total Indirect Costs	\$ 42,759	\$ 3,288,325	\$ 251,226	\$ 1,156,895	\$ 913,569	\$ 217,498	\$ 133,039	\$ 145,102	\$ 123,278	\$ 8,095	\$ 6,279,787	Σ Cols A-J
22													
23	Total from FCOS											\$ 6,279,787	Σ Lines 1, 6, 11, 16
24	Variance												
25	\$s											\$ -	Line 21 - Line 23
26	%											0.00%	Line 25 / Line 23

	Currently effective			Rate case		
	2023 Summer COG Filing	2022-2023 Winter COG Filing		Summer	Winter	
31	Production and Storage	\$ -	\$ 3,685,458		\$ 5,914,311	
32	Bad Debt Costs	9,730	44,897	54,627	970	4,474
33	Gas Working Capital					
34	Other A&G and Misc.	97,217	448,571	545,788	64,130	295,902
35	Total Indirect Costs	\$ 106,947	\$ 4,178,926		\$ 65,099	\$ 6,214,688
36						
37	Volumes	20,002,113	92,292,167	112,294,280	20,002,113	92,292,167
38	Indirect Gas Rate	\$ 0.0053	\$ 0.0453		\$ 0.0033	\$ 0.0673

COG Adder for Rate Case	
Summer	Winter
\$ (0.0020)	\$ 0.0220

	Currently effective		
	2023 Summer COG Filing	2022-2023 Winter COG Filing	
Production and Storage	\$ -	\$ 3,685,458	
Bad Debt Costs	\$ 538,132	\$ 947,639	per company
Gas Working Capital	\$ 96,127	\$ 449,661	per company
Other A&G and Misc.	\$ -	\$ -	
Total	\$ 634,259	\$ 5,082,758	

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE R-1 : RESIDENTIAL NON-HEATING

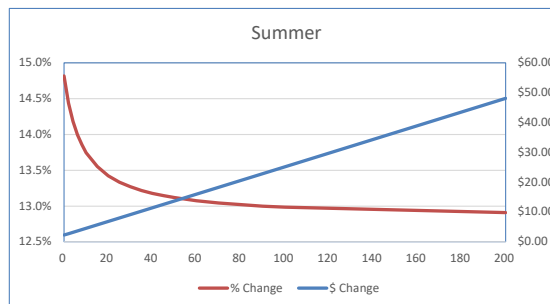
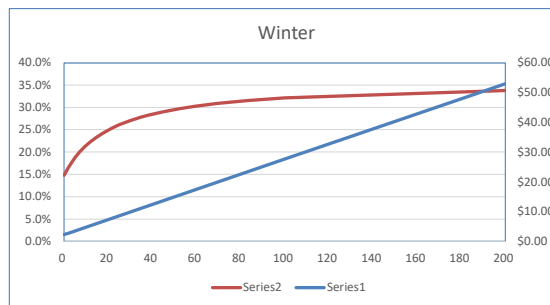
Line	R-1			R-1		
	Present Rates	Winter	Summer	Proposed Rates	Winter	Summer
1	COG (Excl Keen)	\$0.1326	\$1.2071	COG (Excl Keen)	\$0.1546	\$1.2051
3	LDAC-GAP (Excl Keen)	\$0.1113	\$0.1180	LDAC-GAP (Excl Keen)	\$0.1205	\$0.1272
5	Customer charge	\$15.39	\$15.39	Customer charge	\$17.67	\$17.67
6	Sales rate			Sales rate		
7	First Block Size			First Block Size		
8	Block 1	\$0.4614	\$0.4614	Block 1	\$0.6834	\$0.6834
9	Block 2	\$0.4614	\$0.4614	Block 2	\$0.6834	\$0.6834

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
16	0	\$15.39	\$0.00	\$15.39	\$15.39	\$0.00	\$15.39	\$17.67	\$0.00	\$17.67	\$17.67	\$0.00	\$17.67	\$2.28	14.8%	\$2.28	14.8%	\$0.0000	\$0.0000	\$0.0000	\$0.0000
17	2	\$16.31	\$0.49	\$16.80	\$16.31	\$2.65	\$18.96	\$19.04	\$0.55	\$19.59	\$19.04	\$2.66	\$21.70	\$2.79	16.6%	\$2.74	14.4%	\$8.4003	\$9.4815	\$9.7935	\$10.8507
18	4	\$17.24	\$0.98	\$18.21	\$17.24	\$5.30	\$22.54	\$20.40	\$1.10	\$21.50	\$20.40	\$5.33	\$25.73	\$3.29	18.1%	\$3.20	14.2%	\$4.5528	\$5.6340	\$5.3760	\$6.4332
19	6	\$18.16	\$1.46	\$19.62	\$18.16	\$7.95	\$26.11	\$21.77	\$1.65	\$23.42	\$21.77	\$7.99	\$29.76	\$3.80	19.4%	\$3.65	14.0%	\$3.2703	\$4.3515	\$3.9035	\$4.9607
20	8	\$19.08	\$1.95	\$21.03	\$19.08	\$10.60	\$29.68	\$23.14	\$2.20	\$25.34	\$23.14	\$10.66	\$33.80	\$4.31	20.5%	\$4.11	13.9%	\$2.6291	\$3.7103	\$3.1673	\$4.2244
21	10	\$20.00	\$2.44	\$22.44	\$20.00	\$13.25	\$33.26	\$24.50	\$2.75	\$27.26	\$24.50	\$13.32	\$37.83	\$4.81	21.4%	\$4.57	13.7%	\$2.2443	\$3.3255	\$2.7255	\$3.7827
22	15	\$22.31	\$3.66	\$25.97	\$22.31	\$19.88	\$42.19	\$27.92	\$4.13	\$32.05	\$27.92	\$19.98	\$47.90	\$6.08	23.4%	\$5.72	13.6%	\$1.7313	\$2.8125	\$2.1365	\$3.1937
23	20	\$24.62	\$4.88	\$29.50	\$24.62	\$26.50	\$51.12	\$31.34	\$5.50	\$36.84	\$31.34	\$26.65	\$57.98	\$7.34	24.9%	\$6.86	13.4%	\$1.4748	\$2.5560	\$1.8420	\$2.8992
24	25	\$26.93	\$6.10	\$33.02	\$26.93	\$33.13	\$60.05	\$34.76	\$6.88	\$41.63	\$34.76	\$33.31	\$68.06	\$8.61	26.1%	\$8.01	13.3%	\$1.3209	\$2.4021	\$1.6653	\$2.7225
25	30	\$29.23	\$7.32	\$36.55	\$29.23	\$39.75	\$68.99	\$38.17	\$8.25	\$46.43	\$38.17	\$39.97	\$78.14	\$9.88	27.0%	\$9.15	13.3%	\$1.2183	\$2.2995	\$1.5475	\$2.6047
26	35	\$31.54	\$8.54	\$40.08	\$31.54	\$46.38	\$77.92	\$41.59	\$9.63	\$51.22	\$41.59	\$46.63	\$88.22	\$11.14	27.8%	\$10.30	13.2%	\$1.1450	\$2.2262	\$1.4634	\$2.5205
27	40	\$33.85	\$9.76	\$43.60	\$33.85	\$53.00	\$86.85	\$45.01	\$11.01	\$56.01	\$45.01	\$53.29	\$98.30	\$12.41	28.5%	\$11.45	13.2%	\$1.0901	\$2.1713	\$1.4003	\$2.4574
28	45	\$36.15	\$10.98	\$47.13	\$36.15	\$59.63	\$95.78	\$48.42	\$12.38	\$60.80	\$48.42	\$59.95	\$108.37	\$13.68	29.0%	\$12.59	13.1%	\$1.0473	\$2.1285	\$1.3512	\$2.4083
29	50	\$38.46	\$12.20	\$50.66	\$38.46	\$66.26	\$104.72	\$51.84	\$13.76	\$65.60	\$51.84	\$66.61	\$118.45	\$14.94	29.5%	\$13.74	13.1%	\$1.0131	\$2.0943	\$1.3119	\$2.3691
30	60	\$43.07	\$14.63	\$57.71	\$43.07	\$79.51	\$122.58	\$58.67	\$16.51	\$75.18	\$58.67	\$79.94	\$138.61	\$17.47	30.3%	\$16.03	13.1%	\$0.9618	\$2.0430	\$1.2530	\$2.3102
31	70	\$47.69	\$17.07	\$64.76	\$47.69	\$92.76	\$140.45	\$65.51	\$19.26	\$84.77	\$65.51	\$93.26	\$158.77	\$20.01	30.9%	\$18.32	13.0%	\$0.9252	\$2.0064	\$1.2110	\$2.2681
32	80	\$52.30	\$19.51	\$71.81	\$52.30	\$106.01	\$158.31	\$72.34	\$22.01	\$94.35	\$72.34	\$106.58	\$178.92	\$22.54	31.4%	\$20.61	13.0%	\$0.8977	\$1.9789	\$1.1794	\$2.2365
33	90	\$56.92	\$21.95	\$78.87	\$56.92	\$119.26	\$176.18	\$79.18	\$24.76	\$103.94	\$79.18	\$119.90	\$199.08	\$25.07	31.8%	\$22.90	13.0%	\$0.8763	\$1.9575	\$1.1549	\$2.2120
34	100	\$61.53	\$24.39	\$85.92	\$61.53	\$132.51	\$194.04	\$86.01	\$27.51	\$113.52	\$86.01	\$133.23	\$219.24	\$27.60	32.1%	\$25.20	13.0%	\$0.8592	\$1.9404	\$1.1352	\$2.1924
35	200	\$107.67	\$48.78	\$156.45	\$107.67	\$265.02	\$372.69	\$154.35	\$55.03	\$209.38	\$154.35	\$266.45	\$420.80	\$52.93	33.8%	\$48.11	12.9%	\$0.7823	\$1.8635	\$1.0469	\$2.1040
37	<b>Estimated Bill Percentiles</b>																				
38	Winter - 25%	5	\$17.70	\$1.22	\$18.92			\$21.09	\$1.38	\$22.46			\$3.55	18.7%			\$3.7833		\$4.4925		
39	Winter - 50%	15	\$22.31	\$3.66	\$25.97			\$27.92	\$4.13	\$32.05			\$6.08	23.4%			\$1.7313		\$2.1365		
40	Winter - 75%	27	\$27.85	\$6.59	\$34.43			\$36.12	\$7.43	\$43.55			\$9.12	26.5%			\$1.2753		\$1.6130		
41	Summer - 25%	3			\$16.77	\$3.98	\$20.75			\$19.72	\$4.00	\$23.72	\$3.55	18.7%					\$6.9165	\$7.9057	
42	Summer - 50%	9			\$19.54	\$11.93	\$31.47			\$23.82	\$11.99	\$35.81	\$6.08	23.4%					\$3.4965	\$3.9790	
43	Summer - 75%	15			\$22.31	\$19.88	\$42.19			\$27.92	\$19.98	\$47.90	\$9.12	26.5%					\$2.8125	\$3.1937	

Estimated Bill Percentiles per 2023 Company analysis

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE R-1 : RESIDENTIAL NON-HEATING  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE R-3 : RESIDENTIAL HEATING

	R-3		R-3		R-3		R-3		
	Present Rates	Winter	Summer	Proposed Rates	Winter	Summer	Proposed Rates	Winter	Summer
1	COG (Excl Keen)	\$0.1326	\$1.2071	COG (Excl Keen)	\$0.1546	\$1.2051	COG (Excl Keen)	\$0.1546	\$1.2051
2	LDAC-GAP (Excl Keen)	\$0.1113	\$0.1180	LDAC-GAP (Excl Keen)	\$0.1205	\$0.1272	LDAC-GAP (Excl Keen)	\$0.1205	\$0.1272
3	Customer charge	\$15.39	\$15.39	Customer charge	\$17.37	\$17.37	Customer charge	\$17.37	\$17.37
4	Sales rate			Sales rate			Sales rate		
5	First Block Size			First Block Size			First Block Size		
6	Block 1	\$0.6167	\$0.6167	Block 1	\$0.7964	\$0.7964	Block 1	\$0.7964	\$0.7964
7	Block 2	\$0.6167	\$0.6167	Block 2	\$0.7964	\$0.7964	Block 2	\$0.7964	\$0.7964

Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
14	0	\$15.39	\$0.00	\$15.39	\$15.39	\$0.00	\$15.39	\$17.37	\$0.00	\$17.37	\$17.37	\$0.00	\$17.37	\$1.98	12.8%	\$1.98	12.8%	\$0.0000	\$0.0000	\$0.0000	\$0.0000
15	10	\$21.56	\$2.44	\$24.00	\$21.56	\$13.25	\$34.81	\$25.33	\$2.75	\$28.09	\$25.33	\$13.32	\$38.66	\$4.09	17.0%	\$3.85	11.0%	\$2.3998	\$3.4810	\$2.8085	\$3.8657
16	25	\$30.81	\$6.10	\$36.91	\$30.81	\$33.13	\$63.94	\$37.28	\$6.88	\$44.16	\$37.28	\$33.31	\$70.59	\$7.25	19.6%	\$6.65	10.4%	\$1.4763	\$2.5575	\$1.7663	\$2.8235
17	50	\$46.23	\$12.20	\$58.42	\$46.23	\$66.26	\$112.48	\$57.19	\$13.76	\$70.95	\$57.19	\$66.61	\$123.80	\$12.52	21.4%	\$11.32	10.1%	\$1.1684	\$2.2496	\$1.4189	\$2.4761
18	75	\$61.64	\$18.29	\$79.94	\$61.64	\$99.38	\$161.03	\$77.10	\$20.64	\$97.74	\$77.10	\$99.92	\$177.02	\$17.80	22.3%	\$15.99	9.9%	\$1.0658	\$2.1470	\$1.3031	\$2.3603
19	100	\$77.06	\$24.39	\$101.45	\$77.06	\$132.51	\$209.57	\$97.01	\$27.51	\$124.52	\$97.01	\$133.23	\$230.24	\$23.07	22.7%	\$20.66	9.9%	\$1.0145	\$2.0957	\$1.2452	\$2.3024
20	125	\$92.48	\$30.49	\$122.97	\$92.48	\$165.64	\$258.12	\$116.92	\$34.39	\$151.31	\$116.92	\$166.53	\$283.45	\$28.34	23.1%	\$25.33	9.8%	\$0.9837	\$2.0649	\$1.2105	\$2.2676
21	150	\$107.90	\$36.59	\$144.48	\$107.90	\$198.77	\$306.66	\$136.83	\$41.27	\$178.10	\$136.83	\$199.84	\$336.67	\$33.62	23.3%	\$30.01	9.8%	\$0.9632	\$2.0444	\$1.1873	\$2.2445
22	175	\$123.31	\$42.68	\$166.00	\$123.31	\$231.89	\$355.21	\$156.74	\$48.15	\$204.89	\$156.74	\$233.14	\$389.88	\$38.89	23.4%	\$34.68	9.8%	\$0.9486	\$2.0298	\$1.1708	\$2.2279
23	200	\$138.73	\$48.78	\$187.51	\$138.73	\$265.02	\$403.75	\$176.65	\$55.03	\$231.68	\$176.65	\$266.45	\$443.10	\$44.17	23.6%	\$39.35	9.7%	\$0.9376	\$2.0188	\$1.1584	\$2.2155
24	225	\$154.15	\$54.88	\$209.03	\$154.15	\$298.15	\$452.30	\$196.56	\$61.91	\$258.47	\$196.56	\$299.76	\$496.32	\$49.44	23.7%	\$44.02	9.7%	\$0.9290	\$2.0102	\$1.1487	\$2.2059
25	250	\$169.57	\$60.98	\$230.54	\$169.57	\$331.28	\$500.84	\$216.47	\$68.78	\$285.25	\$216.47	\$333.06	\$549.53	\$54.71	23.7%	\$48.69	9.7%	\$0.9222	\$2.0034	\$1.1410	\$2.1981
26	275	\$184.98	\$67.07	\$252.06	\$184.98	\$364.40	\$549.39	\$236.38	\$75.66	\$312.04	\$236.38	\$366.37	\$602.75	\$59.99	23.8%	\$53.36	9.7%	\$0.9166	\$1.9978	\$1.1347	\$2.1918
27	300	\$200.40	\$73.17	\$273.57	\$200.40	\$397.53	\$597.93	\$256.29	\$82.54	\$338.83	\$256.29	\$399.68	\$655.97	\$65.26	23.9%	\$58.03	9.7%	\$0.9119	\$1.9931	\$1.1294	\$2.1866
28	350	\$231.24	\$85.37	\$316.60	\$231.24	\$463.79	\$695.02	\$296.11	\$96.30	\$392.41	\$296.11	\$466.29	\$762.40	\$75.81	23.9%	\$67.38	9.7%	\$0.9046	\$1.9858	\$1.1212	\$2.1783
29	400	\$262.07	\$97.56	\$359.63	\$262.07	\$530.04	\$792.11	\$335.93	\$110.05	\$445.98	\$335.93	\$532.90	\$868.83	\$86.35	24.0%	\$76.72	9.7%	\$0.8991	\$1.9803	\$1.1150	\$2.1721
30	450	\$292.91	\$109.76	\$402.66	\$292.91	\$596.30	\$889.20	\$375.75	\$123.81	\$499.56	\$375.75	\$599.51	\$975.26	\$96.90	24.1%	\$86.06	9.7%	\$0.8948	\$1.9760	\$1.1101	\$2.1673
31	500	\$323.74	\$121.95	\$445.69	\$323.74	\$662.55	\$986.29	\$415.57	\$137.57	\$553.14	\$415.57	\$666.13	\$1,081.70	\$107.45	24.1%	\$95.40	9.7%	\$0.8914	\$1.9726	\$1.1063	\$2.1634
32	750	\$477.92	\$182.93	\$660.84	\$477.92	\$993.83	\$1,471.74	\$614.67	\$206.35	\$821.02	\$614.67	\$999.19	\$1,613.86	\$160.18	24.2%	\$142.12	9.7%	\$0.8811	\$1.9623	\$1.0947	\$2.1518
33	1,000	\$632.09	\$243.90	\$875.99	\$632.09	\$1,325.10	\$1,957.19	\$813.77	\$275.14	\$1,088.91	\$813.77	\$1,332.25	\$2,146.02	\$212.91	24.3%	\$188.83	9.6%	\$0.8760	\$1.9572	\$1.0889	\$2.1460

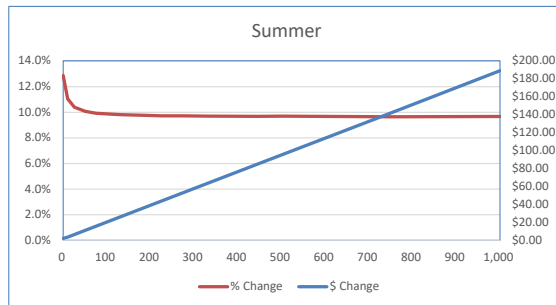
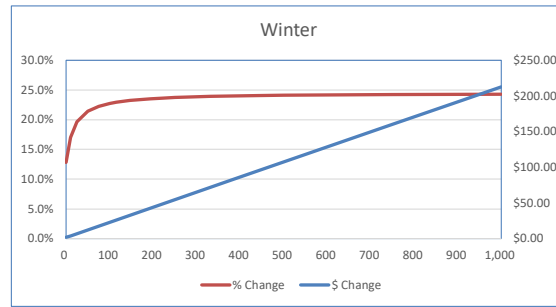
Line	Estimated Bill Percentiles	57	92	130	10	17	24	57	92	130	10	17	24	57	92	130	10	17	24	57	92	130	10	17	24
37	Winter - 25%	\$50.54	\$13.90	\$64.45				\$62.76	\$15.68	\$78.45				\$14.00	21.7%			\$1.1306		\$1.3763					
38	Winter - 50%	\$72.13	\$22.44	\$94.57				\$90.64	\$25.31	\$115.95				\$21.38	22.6%			\$1.0279		\$1.2603					
39	Winter - 75%	\$95.56	\$31.71	\$127.27				\$120.90	\$35.77	\$156.67				\$29.40	23.1%			\$0.9790		\$1.2052					
40	Summer - 25%				\$21.56	\$13.25	\$34.81				\$25.33	\$13.32	\$38.66					\$3.85	11.0%	\$3.4810					
41	Summer - 50%				\$25.88	\$22.53	\$48.40				\$30.91	\$22.65	\$53.56					\$5.15	10.6%	\$2.8472					
42	Summer - 75%				\$30.19	\$31.80	\$62.00				\$36.48	\$31.97	\$68.46					\$6.46	10.4%	\$2.5832					

Estimated Bill Percentiles per 2023 Company analysis



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE R-3 : RESIDENTIAL HEATING  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE R-4 : LOW INCOME RESIDENTIAL HEATING

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	R-4	R-4	R-4	R-4
<b>Present Rates</b>	Winter	Summer	<b>Proposed Rates</b>	Winter Summer
COG (Excl Keen)	\$0.0729	\$1.2071	COG (Excl Keen)	\$0.0949 \$1.2051
LDAC-GAP (Excl Keen)	\$0.1113	\$0.1180	LDAC-GAP (Excl Keen)	\$0.1205 \$0.1272
Customer charge	\$8.47	\$15.39	Customer charge	\$9.55 \$17.37
Sales rate			Sales rate	
First Block Size			First Block Size	
Block 1	\$0.3392	\$0.6167	Block 1	\$0.4380 \$0.7964
Block 2	\$0.3392	\$0.6167	Block 2	\$0.4380 \$0.7964

Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
0	\$8.47	\$0.00	\$8.47	\$15.39	\$0.00	\$15.39	\$9.55	\$0.00	\$9.55	\$17.37	\$0.00	\$17.37	\$1.08	12.8%	\$1.98	12.8%	\$0.0000	\$0.0000	\$0.0000	\$0.0000
10	\$11.86	\$1.84	\$13.70	\$21.56	\$13.25	\$34.81	\$13.93	\$2.15	\$16.08	\$25.33	\$13.32	\$38.66	\$2.38	17.4%	\$3.85	11.0%	\$1.3700	\$3.4810	\$1.6084	\$3.8657
25	\$16.95	\$4.61	\$21.55	\$30.81	\$33.13	\$63.94	\$20.50	\$5.39	\$25.89	\$37.28	\$33.31	\$70.59	\$4.34	20.1%	\$6.65	10.4%	\$0.8620	\$2.5575	\$1.0354	\$2.8235
50	\$25.43	\$9.21	\$34.64	\$46.23	\$66.26	\$112.48	\$31.45	\$10.77	\$42.22	\$57.19	\$66.61	\$123.80	\$7.59	21.9%	\$11.32	10.1%	\$0.6927	\$2.2496	\$0.8444	\$2.4761
75	\$33.91	\$13.82	\$47.72	\$61.64	\$99.38	\$161.03	\$42.40	\$16.16	\$58.56	\$77.10	\$99.92	\$177.02	\$10.84	22.7%	\$15.99	9.9%	\$0.6363	\$2.1470	\$0.7808	\$2.3603
100	\$42.39	\$18.42	\$60.81	\$77.06	\$132.51	\$209.57	\$53.35	\$21.54	\$74.89	\$97.01	\$133.23	\$230.24	\$14.09	23.2%	\$20.66	9.9%	\$0.6081	\$2.0957	\$0.7489	\$2.3024
125	\$50.87	\$23.03	\$73.89	\$92.48	\$165.64	\$258.12	\$64.30	\$26.93	\$91.23	\$116.92	\$166.53	\$283.45	\$17.34	23.5%	\$25.33	9.8%	\$0.5911	\$2.0649	\$0.7298	\$2.2676
150	\$59.35	\$27.63	\$86.98	\$107.90	\$198.77	\$306.66	\$75.25	\$32.32	\$107.57	\$136.83	\$199.84	\$336.67	\$20.59	23.7%	\$30.01	9.8%	\$0.5798	\$2.0444	\$0.7171	\$2.2445
175	\$67.83	\$32.24	\$100.06	\$123.31	\$231.89	\$355.21	\$86.20	\$37.70	\$123.90	\$156.74	\$233.14	\$389.88	\$23.84	23.8%	\$34.68	9.8%	\$0.5718	\$2.0298	\$0.7080	\$2.2279
200	\$76.31	\$36.84	\$113.15	\$138.73	\$265.02	\$403.75	\$97.15	\$43.09	\$140.24	\$176.65	\$266.45	\$443.10	\$27.09	23.9%	\$39.35	9.7%	\$0.5657	\$2.0188	\$0.7012	\$2.2155
225	\$84.79	\$41.45	\$126.23	\$154.15	\$298.15	\$452.30	\$108.10	\$48.47	\$156.57	\$196.56	\$299.76	\$496.32	\$30.34	24.0%	\$44.02	9.7%	\$0.5610	\$2.0102	\$0.6959	\$2.2059
250	\$93.27	\$46.05	\$139.32	\$169.57	\$331.28	\$500.84	\$119.05	\$53.86	\$172.91	\$216.47	\$333.06	\$549.53	\$33.59	24.1%	\$48.69	9.7%	\$0.5573	\$2.0034	\$0.6916	\$2.1981
275	\$101.75	\$50.66	\$152.40	\$184.98	\$364.40	\$549.39	\$130.00	\$59.25	\$189.25	\$236.38	\$366.37	\$602.75	\$36.84	24.2%	\$53.36	9.7%	\$0.5542	\$1.9978	\$0.6882	\$2.1918
300	\$110.23	\$55.26	\$165.49	\$200.40	\$397.53	\$597.93	\$140.95	\$64.63	\$205.58	\$256.29	\$399.68	\$655.97	\$40.10	24.2%	\$58.03	9.7%	\$0.5516	\$1.9931	\$0.6853	\$2.1866
350	\$127.19	\$64.47	\$191.66	\$231.24	\$463.79	\$695.02	\$162.85	\$75.40	\$238.25	\$296.11	\$466.29	\$762.40	\$46.60	24.3%	\$67.38	9.7%	\$0.5476	\$1.9858	\$0.6807	\$2.1783
400	\$144.15	\$73.68	\$217.83	\$262.07	\$530.04	\$792.11	\$184.75	\$86.17	\$270.92	\$335.93	\$532.90	\$868.83	\$53.10	24.4%	\$76.72	9.7%	\$0.5446	\$1.9803	\$0.6773	\$2.1721
450	\$161.11	\$82.89	\$244.00	\$292.91	\$596.30	\$889.20	\$206.65	\$96.95	\$303.60	\$375.75	\$599.51	\$975.26	\$59.60	24.4%	\$86.06	9.7%	\$0.5422	\$1.9760	\$0.6747	\$2.1673
500	\$178.07	\$92.10	\$270.17	\$323.74	\$662.55	\$986.29	\$228.55	\$107.72	\$336.27	\$415.57	\$666.13	\$1,081.70	\$66.10	24.5%	\$95.40	9.7%	\$0.5403	\$1.9726	\$0.6725	\$2.1634
750	\$262.87	\$138.15	\$401.02	\$477.92	\$993.83	\$1,471.74	\$338.05	\$161.58	\$499.63	\$614.67	\$999.19	\$1,613.86	\$98.61	24.6%	\$142.12	9.7%	\$0.5347	\$1.9623	\$0.6662	\$2.1518
1,000	\$347.67	\$184.20	\$531.87	\$632.09	\$1,325.10	\$1,957.19	\$447.55	\$215.44	\$662.99	\$813.77	\$1,332.25	\$2,146.02	\$131.12	24.7%	\$188.83	9.6%	\$0.5319	\$1.9572	\$0.6630	\$2.1460

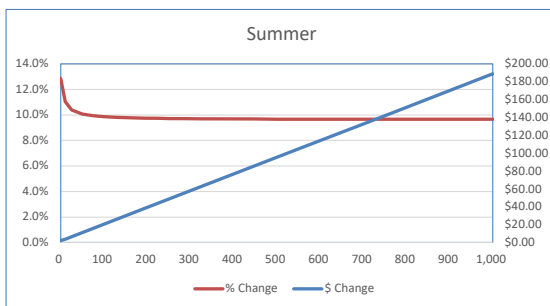
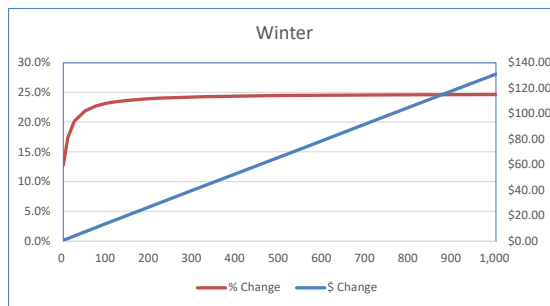
37 **Estimated Bill Percentiles**

38 Winter - 25%	53	\$26.44	\$9.76	\$36.21			\$32.76	\$11.42	\$44.18				\$7.98	22.0%			\$0.6831		\$0.8336	
39 Winter - 50%	87	\$37.98	\$16.03	\$54.00			\$47.66	\$18.74	\$66.40				\$12.40	23.0%			\$0.6207		\$0.7632	
40 Winter - 75%	127	\$51.54	\$23.39	\$74.94			\$65.18	\$27.36	\$92.54				\$17.60	23.5%			\$0.5901		\$0.7286	
41 Summer - 25%	11				\$22.18	\$14.58	\$36.75			\$26.13	\$14.65	\$40.79			\$4.03	11.0%		\$3.3411		\$3.7077
42 Summer - 50%	18				\$26.49	\$23.85	\$50.34			\$31.71	\$23.98	\$55.69			\$5.34	10.6%		\$2.7969		\$3.0937
43 Summer - 75%	27				\$32.04	\$35.78	\$67.82			\$38.87	\$35.97	\$74.84			\$7.02	10.4%		\$2.5119		\$2.7720

Estimated Bill Percentiles per 2023 Company analysis

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE R-4 : LOW INCOME RESIDENTIAL HEATING  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE G-41 : COMMERCIAL/INDUSTRIAL - LOW ANNUAL USE, HIGH WINTER USE

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	G-41		G-41		G-41		G-41	
	Present Rates		Winter		Summer		Proposed Rates	
COG (Excl Keen)	\$0.1327	\$1.2074	\$0.1327	\$1.2074	\$0.1547	\$1.2054	\$0.1547	\$1.2054
LDAC-GAP (Excl Keen)	\$0.0890	\$0.0957	\$0.0890	\$0.0957	\$0.0982	\$0.1049	\$0.0982	\$0.1049
Customer charge	\$60.81	\$60.81	\$60.81	\$60.81	\$67.38	\$67.38	\$67.38	\$67.38
Sales rate								
First Block Size		100		20		100		20
Block 1	\$0.4928	\$0.4928	\$0.4928	\$0.4928	\$0.6529	\$0.6529	\$0.6529	\$0.6529
Block 2	\$0.3390	\$0.3390	\$0.3390	\$0.3390	\$0.4491	\$0.4491	\$0.4491	\$0.4491

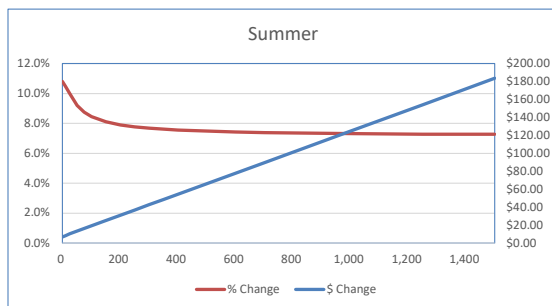
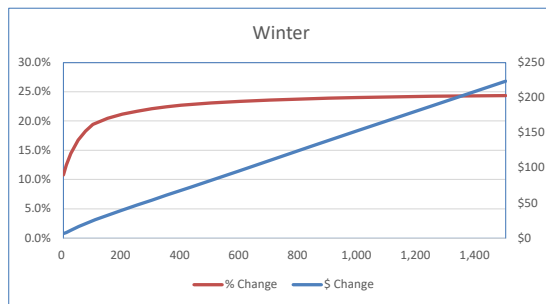
Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
0	\$61	\$0	\$61	\$61	\$0	\$61	\$67	\$0	\$67	\$67	\$0	\$67	\$6.57	10.8%	\$6.57	10.8%	\$0.0000	\$0.0000	\$0.0000	\$0.0000
10	\$66	\$2	\$68	\$66	\$13	\$79	\$74	\$3	\$76	\$74	\$13	\$87	\$8.48	12.5%	\$8.24	10.5%	\$6.7960	\$7.8774	\$7.6438	\$8.7012
25	\$73	\$6	\$79	\$72	\$33	\$105	\$84	\$6	\$90	\$83	\$33	\$115	\$11.35	14.4%	\$10.50	10.0%	\$3.1471	\$4.1977	\$3.6010	\$4.6176
50	\$85	\$11	\$97	\$81	\$65	\$146	\$100	\$13	\$113	\$94	\$66	\$159	\$16.13	16.7%	\$13.43	9.2%	\$1.9308	\$2.9199	\$2.2534	\$3.1885
75	\$98	\$17	\$114	\$89	\$98	\$187	\$116	\$19	\$135	\$105	\$98	\$203	\$20.92	18.3%	\$16.36	8.7%	\$1.5254	\$2.4940	\$1.8042	\$2.7121
100	\$110	\$22	\$132	\$98	\$130	\$228	\$133	\$25	\$158	\$116	\$131	\$247	\$25.70	19.4%	\$19.29	8.5%	\$1.3226	\$2.2810	\$1.5796	\$2.4739
150	\$127	\$33	\$160	\$115	\$195	\$310	\$155	\$38	\$193	\$139	\$197	\$335	\$32.77	20.4%	\$25.15	8.1%	\$1.0687	\$2.0680	\$1.2871	\$2.2357
200	\$144	\$44	\$188	\$132	\$261	\$392	\$178	\$51	\$228	\$161	\$262	\$423	\$39.83	21.2%	\$31.02	7.9%	\$0.9417	\$1.9616	\$1.1408	\$2.1166
250	\$161	\$55	\$216	\$149	\$326	\$474	\$200	\$63	\$263	\$184	\$328	\$511	\$46.90	21.7%	\$36.88	7.8%	\$0.8655	\$1.8977	\$1.0531	\$2.0452
300	\$178	\$67	\$244	\$166	\$391	\$557	\$222	\$76	\$298	\$206	\$393	\$599	\$53.97	22.1%	\$42.74	7.7%	\$0.8147	\$1.8551	\$0.9946	\$1.9975
350	\$195	\$78	\$272	\$183	\$456	\$639	\$245	\$89	\$333	\$229	\$459	\$687	\$61.03	22.4%	\$48.60	7.6%	\$0.7784	\$1.8246	\$0.9528	\$1.9635
400	\$212	\$89	\$300	\$199	\$521	\$721	\$267	\$101	\$369	\$251	\$524	\$775	\$68.10	22.7%	\$54.47	7.6%	\$0.7512	\$1.8018	\$0.9214	\$1.9380
500	\$246	\$111	\$357	\$233	\$652	\$885	\$312	\$126	\$439	\$296	\$655	\$951	\$82.23	23.1%	\$66.19	7.5%	\$0.7131	\$1.7699	\$0.8776	\$1.9023
600	\$280	\$133	\$413	\$267	\$782	\$1,049	\$357	\$152	\$509	\$341	\$786	\$1,127	\$96.37	23.4%	\$77.92	7.4%	\$0.6877	\$1.7486	\$0.8483	\$1.8784
700	\$313	\$155	\$469	\$301	\$912	\$1,213	\$402	\$177	\$579	\$386	\$917	\$1,303	\$110.50	23.6%	\$89.64	7.4%	\$0.6695	\$1.7334	\$0.8274	\$1.8614
800	\$347	\$177	\$525	\$335	\$1,042	\$1,378	\$447	\$202	\$649	\$431	\$1,048	\$1,479	\$124.64	23.8%	\$101.37	7.4%	\$0.6559	\$1.7220	\$0.8117	\$1.8487
900	\$381	\$200	\$581	\$369	\$1,173	\$1,542	\$492	\$228	\$720	\$476	\$1,179	\$1,655	\$138.77	23.9%	\$113.09	7.3%	\$0.6454	\$1.7131	\$0.7995	\$1.8388
1,000	\$415	\$222	\$637	\$403	\$1,303	\$1,706	\$537	\$253	\$790	\$521	\$1,310	\$1,831	\$152.90	24.0%	\$124.82	7.3%	\$0.6369	\$1.7060	\$0.7898	\$1.8308
1,250	\$500	\$277	\$777	\$488	\$1,629	\$2,117	\$649	\$316	\$965	\$633	\$1,638	\$2,271	\$188.24	24.2%	\$154.13	7.3%	\$0.6217	\$1.6932	\$0.7722	\$1.8165
1,500	\$585	\$333	\$917	\$572	\$1,955	\$2,527	\$761	\$379	\$1,141	\$745	\$1,965	\$2,710	\$223.57	24.4%	\$183.45	7.3%	\$0.6115	\$1.6847	\$0.7605	\$1.8070

Estimated Bill Percentiles		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
Winter - 25%	88	\$104	\$20	\$124				\$125	\$22	\$147			\$23.40	18.9%	\$1.4056		\$1.6715	
Winter - 50%	208	\$147	\$46	\$193				\$181	\$53	\$234			\$40.96	21.2%	\$0.9270		\$1.1240	
Winter - 75%	481	\$239	\$107	\$346				\$304	\$122	\$425			\$79.55	23.0%	\$0.7191		\$0.8845	
Summer - 25%	4				\$63	\$5	\$68				\$70	\$5	\$75			#####		\$18.8082
Summer - 50%	14				\$68	\$18	\$86				\$77	\$18	\$95			\$6.1398		\$6.7760
Summer - 75%	44				\$79	\$57	\$136				\$91	\$58	\$149			\$3.0942		\$3.3834

Estimated Bill Percentiles per 2023 Company analysis

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-41 : COMMERCIAL/INDUSTRIAL - LOW ANNUAL USE, HIGH WINTER USE  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE G-42 : COMMERCIAL/INDUSTRIAL - MEDIUM ANNUAL USE, HIGH WINTER USE

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	G-42		G-42			G-42		G-42	
	Present Rates		G-42		Proposed Rates		G-42		
	Winter	Summer	Winter	Summer	Winter	Summer	Winter	Summer	
COG (Excl Keen)	\$0.1327	\$1.2074	\$0.1327	\$1.2074	\$0.1547	\$1.2054	\$0.1547	\$1.2054	
LDAC-GAP (Excl Keen)	\$0.0890	\$0.0957	\$0.0890	\$0.0957	\$0.0982	\$0.1049	\$0.0982	\$0.1049	
Customer charge	\$182.42	\$182.42	\$182.42	\$182.42	\$202.13	\$202.13	\$202.13	\$202.13	
Sales rate									
First Block Size	1000	400	1000	400	1000	400	1000	400	
Block 1	\$0.4485	\$0.4485	\$0.4485	\$0.4485	\$0.5667	\$0.5667	\$0.5667	\$0.5667	
Block 2	\$0.3063	\$0.3063	\$0.3063	\$0.3063	\$0.3870	\$0.3870	\$0.3870	\$0.3870	

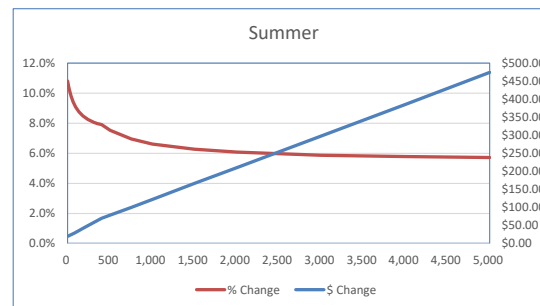
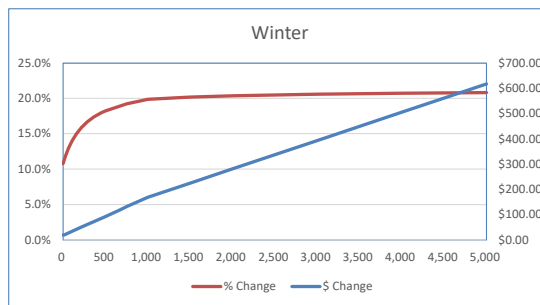
Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
0	\$182	\$0	\$182	\$182	\$0	\$182	\$202	\$0	\$202	\$202	\$0	\$202	\$19.71	10.8%	\$19.71	10.8%	\$0.0000	\$0.0000	\$0.0000	\$0.0000
10	\$187	\$2	\$189	\$187	\$13	\$200	\$208	\$3	\$210	\$208	\$13	\$221	\$21.20	11.2%	\$20.96	10.5%	\$18.9123	\$19.9937	\$21.0326	\$22.0900
25	\$194	\$6	\$199	\$194	\$33	\$226	\$216	\$6	\$223	\$216	\$33	\$249	\$23.45	11.8%	\$22.84	10.1%	\$7.9670	\$9.0484	\$8.9048	\$9.9622
50	\$205	\$11	\$216	\$205	\$65	\$270	\$230	\$13	\$243	\$230	\$66	\$296	\$27.18	12.6%	\$25.98	9.6%	\$4.3186	\$5.4000	\$4.8622	\$5.9196
75	\$216	\$17	\$233	\$216	\$98	\$314	\$245	\$19	\$264	\$245	\$98	\$343	\$30.92	13.3%	\$29.11	9.3%	\$3.1025	\$4.1839	\$3.5147	\$4.5720
100	\$227	\$22	\$249	\$227	\$130	\$358	\$259	\$25	\$284	\$259	\$131	\$390	\$34.65	13.9%	\$32.24	9.0%	\$2.4944	\$3.5758	\$2.8409	\$3.8983
150	\$250	\$33	\$283	\$250	\$195	\$445	\$287	\$38	\$325	\$287	\$197	\$484	\$42.12	14.9%	\$38.51	8.7%	\$1.8863	\$2.9677	\$2.1672	\$3.2245
200	\$272	\$44	\$316	\$272	\$261	\$533	\$315	\$51	\$366	\$315	\$262	\$578	\$49.60	15.7%	\$44.78	8.4%	\$1.5823	\$2.6637	\$1.8303	\$2.8876
250	\$295	\$55	\$350	\$295	\$326	\$620	\$344	\$63	\$407	\$344	\$328	\$671	\$57.07	16.3%	\$51.05	8.2%	\$1.3999	\$2.4813	\$1.6282	\$2.6855
300	\$317	\$67	\$383	\$317	\$391	\$708	\$372	\$76	\$448	\$372	\$393	\$765	\$64.54	16.8%	\$57.32	8.1%	\$1.2783	\$2.3597	\$1.4934	\$2.5507
350	\$339	\$78	\$417	\$339	\$456	\$795	\$400	\$89	\$489	\$400	\$459	\$859	\$72.01	17.3%	\$63.58	8.0%	\$1.1914	\$2.2728	\$1.3972	\$2.4545
400	\$362	\$89	\$451	\$362	\$521	\$883	\$429	\$101	\$530	\$429	\$524	\$953	\$79.48	17.6%	\$69.85	7.9%	\$1.1263	\$2.2077	\$1.3250	\$2.3823
500	\$407	\$111	\$518	\$392	\$652	\$1,044	\$485	\$126	\$612	\$468	\$655	\$1,123	\$94.43	18.2%	\$78.64	7.5%	\$1.0350	\$2.0880	\$1.2239	\$2.2453
750	\$519	\$166	\$685	\$469	\$977	\$1,446	\$627	\$190	\$817	\$564	\$983	\$1,547	\$131.79	19.2%	\$100.60	7.0%	\$0.9134	\$1.9285	\$1.0891	\$2.0626
1,000	\$631	\$222	\$853	\$546	\$1,303	\$1,849	\$769	\$253	\$1,022	\$661	\$1,310	\$1,971	\$169.15	19.8%	\$122.56	6.6%	\$0.8526	\$1.8487	\$1.0218	\$1.9713
1,500	\$784	\$333	\$1,117	\$699	\$1,955	\$2,653	\$962	\$379	\$1,342	\$855	\$1,965	\$2,820	\$225.11	20.2%	\$166.49	6.3%	\$0.7444	\$1.7689	\$0.8945	\$1.8799
2,000	\$937	\$443	\$1,381	\$852	\$2,606	\$3,458	\$1,156	\$506	\$1,662	\$1,048	\$2,621	\$3,669	\$281.08	20.4%	\$210.42	6.1%	\$0.6903	\$1.7291	\$0.8309	\$1.8343
3,000	\$1,244	\$665	\$1,909	\$1,158	\$3,909	\$5,068	\$1,543	\$759	\$2,302	\$1,435	\$3,931	\$5,366	\$393.02	20.6%	\$298.27	5.9%	\$0.6362	\$1.6892	\$0.7672	\$1.7886
4,000	\$1,550	\$887	\$2,437	\$1,465	\$5,212	\$6,677	\$1,930	\$1,012	\$2,942	\$1,822	\$5,241	\$7,063	\$504.96	20.7%	\$386.13	5.8%	\$0.6092	\$1.6692	\$0.7354	\$1.7658
5,000	\$1,856	\$1,109	\$2,965	\$1,771	\$6,516	\$8,286	\$2,317	\$1,265	\$3,582	\$2,209	\$6,551	\$8,760	\$616.89	20.8%	\$473.98	5.7%	\$0.5929	\$1.6573	\$0.7163	\$1.7521

Estimated Bill Percentiles		Winter - 25%	Winter - 50%	Winter - 75%	Summer - 25%	Summer - 50%	Summer - 75%
1,544	\$798	\$342	\$1,140				
2,286	\$1,025	\$507	\$1,532				
3,695	\$1,456	\$819	\$2,276				
152			\$250	\$197	\$448		
363			\$345	\$472	\$817		
637			\$434	\$830	\$1,264		
						\$979	\$391
						\$1,267	\$578
						\$1,812	\$935
						\$288	\$199
						\$408	\$475
						\$521	\$835
						\$230.04	20.2%
						\$313.10	20.4%
						\$470.82	20.7%
						\$38.70	8.6%
						\$65.15	8.0%
						\$90.67	7.2%
						\$0.7382	
						\$0.6700	
						\$0.6159	
						\$0.8872	
						\$0.8070	
						\$0.7433	
						\$2.9557	\$3,2111
						\$2.2548	\$2,4346
						\$1.9851	\$2,1274

Estimated Bill Percentiles per 2023 Company analysis

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-42 : COMMERCIAL/INDUSTRIAL - MEDIUM ANNUAL USE, HIGH WINTER USE  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-43 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, HIGH WINTER USE

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	G-43		G-43		G-43		G-43	
	Present Rates		Proposed Rates		Present Rates		Proposed Rates	
COG (Excl Keen)	\$0.1327	\$1.2074	\$0.1547	\$1.2054	\$0.1327	\$1.2074	\$0.1547	\$1.2054
LDAC-GAP (Excl Keen)	\$0.0890	\$0.0957	\$0.0982	\$0.1049	\$0.0890	\$0.0957	\$0.0982	\$0.1049
Customer charge	\$781.17	\$781.17	\$865.55	\$865.55	\$781.17	\$781.17	\$865.55	\$865.55
Sales rate								
First Block Size								
Block 1	\$0.2766	\$0.1344	\$0.3471	\$0.1687	\$0.2766	\$0.1344	\$0.3471	\$0.1687
Block 2	\$0.2766	\$0.1344	\$0.3471	\$0.1687	\$0.2766	\$0.1344	\$0.3471	\$0.1687

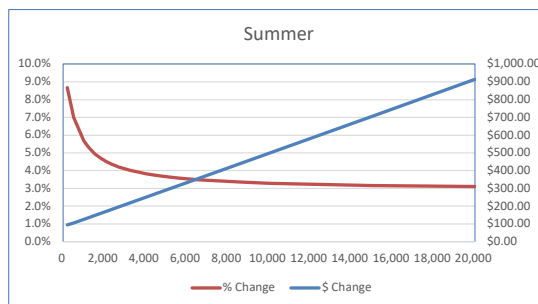
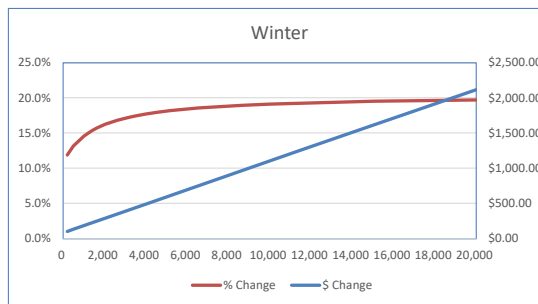
Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
200	\$836	\$44	\$881	\$808	\$261	\$1,069	\$935	\$51	\$986	\$899	\$262	\$1,161	\$104.73	11.9%	\$92.67	8.7%	\$4.4041	\$5.3433	\$4.9278	\$5.8067
500	\$919	\$111	\$1,030	\$848	\$652	\$1,500	\$1,039	\$126	\$1,166	\$950	\$655	\$1,605	\$135.25	13.1%	\$105.11	7.0%	\$2.0606	\$2.9998	\$2.3311	\$3.2101
1,000	\$1,058	\$222	\$1,279	\$916	\$1,303	\$2,219	\$1,213	\$253	\$1,466	\$1,034	\$1,310	\$2,345	\$186.12	14.5%	\$125.84	5.7%	\$1.2795	\$2.2187	\$1.4656	\$2.3445
1,250	\$1,127	\$277	\$1,404	\$949	\$1,629	\$2,578	\$1,299	\$316	\$1,616	\$1,076	\$1,638	\$2,714	\$211.55	15.1%	\$136.20	5.3%	\$1.1232	\$2.0624	\$1.2925	\$2.1714
1,500	\$1,196	\$333	\$1,529	\$983	\$1,955	\$2,937	\$1,386	\$379	\$1,766	\$1,119	\$1,965	\$3,084	\$236.99	15.5%	\$146.56	5.0%	\$1.0191	\$1.9583	\$1.1771	\$2.0560
1,750	\$1,265	\$388	\$1,653	\$1,016	\$2,280	\$3,297	\$1,473	\$443	\$1,916	\$1,161	\$2,293	\$3,454	\$262.42	15.9%	\$156.93	4.8%	\$0.9447	\$1.8839	\$1.0946	\$1.9736
2,000	\$1,334	\$443	\$1,778	\$1,050	\$2,606	\$3,656	\$1,560	\$506	\$2,066	\$1,203	\$2,621	\$3,823	\$287.86	16.2%	\$167.29	4.6%	\$0.8889	\$1.8281	\$1.0328	\$1.9117
2,500	\$1,473	\$554	\$2,027	\$1,117	\$3,258	\$4,375	\$1,733	\$632	\$2,366	\$1,287	\$3,276	\$4,563	\$338.72	16.7%	\$188.02	4.3%	\$0.8108	\$1.7500	\$0.9463	\$1.8252
3,000	\$1,611	\$665	\$2,276	\$1,184	\$3,909	\$5,094	\$1,907	\$759	\$2,666	\$1,372	\$3,931	\$5,302	\$389.59	17.1%	\$208.74	4.1%	\$0.7587	\$1.6979	\$0.8886	\$1.7675
3,500	\$1,749	\$776	\$2,525	\$1,252	\$4,561	\$5,812	\$2,080	\$885	\$2,966	\$1,456	\$4,586	\$6,042	\$440.46	17.4%	\$229.47	3.9%	\$0.7215	\$1.6607	\$0.8473	\$1.7263
4,000	\$1,888	\$887	\$2,774	\$1,319	\$5,212	\$6,531	\$2,254	\$1,012	\$3,266	\$1,540	\$5,241	\$6,781	\$491.33	17.7%	\$250.20	3.8%	\$0.6936	\$1.6328	\$0.8164	\$1.6953
4,500	\$2,026	\$998	\$3,024	\$1,386	\$5,864	\$7,250	\$2,428	\$1,138	\$3,566	\$1,625	\$5,896	\$7,521	\$542.20	17.9%	\$270.93	3.7%	\$0.6719	\$1.6111	\$0.7924	\$1.6713
5,000	\$2,164	\$1,109	\$3,273	\$1,453	\$6,516	\$7,969	\$2,601	\$1,265	\$3,866	\$1,709	\$6,551	\$8,260	\$593.07	18.1%	\$291.65	3.7%	\$0.6545	\$1.5937	\$0.7731	\$1.6521
6,000	\$2,441	\$1,330	\$3,771	\$1,588	\$7,819	\$9,406	\$2,948	\$1,518	\$4,466	\$1,878	\$7,862	\$9,739	\$694.80	18.4%	\$333.11	3.5%	\$0.6285	\$1.5677	\$0.7443	\$1.6232
7,000	\$2,717	\$1,552	\$4,269	\$1,722	\$9,122	\$10,844	\$3,295	\$1,771	\$5,066	\$2,046	\$9,172	\$11,218	\$796.54	18.7%	\$374.56	3.5%	\$0.6099	\$1.5491	\$0.7237	\$1.6026
8,000	\$2,994	\$1,774	\$4,768	\$1,856	\$10,425	\$12,281	\$3,642	\$2,023	\$5,666	\$2,215	\$10,482	\$12,697	\$898.28	18.8%	\$416.02	3.4%	\$0.5959	\$1.5351	\$0.7082	\$1.5871
9,000	\$3,271	\$1,995	\$5,266	\$1,991	\$11,728	\$13,719	\$3,989	\$2,276	\$6,266	\$2,384	\$11,792	\$14,176	\$1,000.01	19.0%	\$457.47	3.3%	\$0.5851	\$1.5243	\$0.6962	\$1.5751
10,000	\$3,547	\$2,217	\$5,764	\$2,125	\$13,031	\$15,156	\$4,337	\$2,529	\$6,866	\$2,553	\$13,103	\$15,655	\$1,101.75	19.1%	\$498.93	3.3%	\$0.5764	\$1.5156	\$0.6866	\$1.5655
15,000	\$4,930	\$3,326	\$8,256	\$2,797	\$19,547	\$22,344	\$6,072	\$3,794	\$9,866	\$3,396	\$19,654	\$23,050	\$1,610.44	19.5%	\$706.20	3.2%	\$0.5504	\$1.4896	\$0.6577	\$1.5367
20,000	\$6,313	\$4,434	\$10,747	\$3,469	\$26,062	\$29,531	\$7,808	\$5,059	\$12,866	\$4,240	\$26,205	\$30,445	\$2,119.12	19.7%	\$913.47	3.1%	\$0.5374	\$1.4766	\$0.6433	\$1.5222
<b>Estimated Bill Percentiles</b>																				
Winter - 25%	9,000	\$3,271	\$1,995	\$5,266				\$3,989	\$2,276	\$6,266				\$1,000.01	19.0%			\$0.5851		\$0.6962
Winter - 50%	15,000	\$4,930	\$3,326	\$8,256				\$6,072	\$3,794	\$9,866				\$1,610.44	19.5%			\$0.5504		\$0.6577
Winter - 75%	25,000	\$7,696	\$5,543	\$13,239				\$9,543	\$6,323	\$15,866				\$2,627.81	19.8%			\$0.5295		\$0.6347
Summer - 25%	450			\$842	\$586	\$1,428				\$941	\$590	\$1,531			\$103.04	7.2%		\$3.1734		\$3.4024
Summer - 50%	3,500			\$1,252	\$4,561	\$5,812				\$1,456	\$4,586	\$6,042			\$229.47	3.9%		\$1.6607		\$1.7263
Summer - 75%	10,000			\$2,125	\$13,031	\$15,156				\$2,553	\$13,103	\$15,655			\$498.93	3.3%		\$1.5156		\$1.5655

Estimated Bill Percentiles per 2010 MCS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-43 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, HIGH WINTER USE  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE G-51 : COMMERCIAL/INDUSTRIAL - LOW ANNUAL USE, LOW WINTER USE

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	G-51		G-51		G-51		G-51	
	Present Rates		Proposed Rates		Winter		Summer	
COG (Excl Keen)	\$0.1322	\$1.2068	\$0.1542	\$1.2048				
LDAC-GAP (Excl Keen)	\$0.0890	\$0.0957	\$0.0982	\$0.1049				
Customer charge	\$60.87	\$60.87	\$67.45	\$67.45				
Sales rate								
First Block Size		100		100				
Block 1	\$0.2970	\$0.2970	\$0.4033	\$0.4033				
Block 2	\$0.1983	\$0.1983	\$0.2693	\$0.2693				

Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
0	\$61	\$0	\$61	\$61	\$0	\$61	\$67	\$0	\$67	\$67	\$0	\$67	\$6.58	10.8%	\$6.58	10.8%	\$0.0000	\$0.0000	\$0.0000	\$0.0000
10	\$64	\$2	\$66	\$64	\$13	\$77	\$71	\$3	\$74	\$71	\$13	\$85	\$7.95	12.0%	\$7.71	10.0%	\$6.6053	\$7.6866	\$7.4007	\$8.4580
25	\$68	\$6	\$74	\$68	\$33	\$101	\$78	\$6	\$84	\$78	\$33	\$110	\$10.02	13.6%	\$9.42	9.3%	\$2.9530	\$4.0343	\$3.3537	\$4.4110
50	\$76	\$11	\$87	\$76	\$65	\$141	\$88	\$13	\$100	\$88	\$65	\$153	\$13.46	15.5%	\$12.25	8.7%	\$1.7356	\$2.8169	\$2.0047	\$3.0620
75	\$83	\$17	\$100	\$83	\$98	\$181	\$98	\$19	\$117	\$98	\$98	\$196	\$16.89	16.9%	\$15.09	8.3%	\$1.3298	\$2.4111	\$1.5551	\$2.6123
100	\$91	\$22	\$113	\$91	\$130	\$221	\$108	\$25	\$133	\$108	\$131	\$239	\$20.33	18.0%	\$17.92	8.1%	\$1.1269	\$2.2082	\$1.3302	\$2.3875
150	\$100	\$33	\$134	\$100	\$195	\$296	\$121	\$38	\$159	\$121	\$196	\$318	\$25.44	19.0%	\$21.83	7.4%	\$0.8911	\$1.9724	\$1.0607	\$2.1180
200	\$110	\$44	\$155	\$110	\$261	\$371	\$135	\$50	\$185	\$135	\$262	\$397	\$30.56	19.8%	\$25.74	6.9%	\$0.7732	\$1.8545	\$0.9260	\$1.9832
250	\$120	\$55	\$176	\$120	\$326	\$446	\$148	\$63	\$211	\$148	\$327	\$476	\$35.67	20.3%	\$29.65	6.6%	\$0.7025	\$1.7838	\$0.8451	\$1.9024
300	\$130	\$66	\$197	\$130	\$391	\$521	\$162	\$76	\$237	\$162	\$393	\$555	\$40.78	20.7%	\$33.56	6.4%	\$0.6553	\$1.7366	\$0.7912	\$1.8485
350	\$140	\$77	\$218	\$140	\$456	\$596	\$175	\$88	\$263	\$175	\$458	\$633	\$45.89	21.1%	\$37.46	6.3%	\$0.6216	\$1.7029	\$0.7527	\$1.8100
400	\$150	\$88	\$239	\$150	\$521	\$671	\$189	\$101	\$290	\$189	\$524	\$712	\$51.00	21.4%	\$41.37	6.2%	\$0.5964	\$1.6777	\$0.7239	\$1.7811
500	\$170	\$111	\$280	\$170	\$651	\$821	\$216	\$126	\$342	\$216	\$655	\$870	\$61.23	21.8%	\$49.19	6.0%	\$0.5610	\$1.6423	\$0.6834	\$1.7407
600	\$190	\$133	\$322	\$190	\$782	\$971	\$242	\$151	\$394	\$242	\$786	\$1,028	\$71.45	22.2%	\$57.00	5.9%	\$0.5374	\$1.6187	\$0.6565	\$1.7137
700	\$210	\$155	\$364	\$210	\$912	\$1,121	\$269	\$177	\$446	\$269	\$917	\$1,186	\$81.68	22.4%	\$64.82	5.8%	\$0.5206	\$1.6019	\$0.6372	\$1.6945
800	\$229	\$177	\$406	\$229	\$1,042	\$1,271	\$296	\$202	\$498	\$296	\$1,048	\$1,344	\$91.90	22.6%	\$72.63	5.7%	\$0.5079	\$1.5892	\$0.6228	\$1.6800
900	\$249	\$199	\$448	\$249	\$1,172	\$1,421	\$323	\$227	\$550	\$323	\$1,179	\$1,502	\$102.12	22.8%	\$80.45	5.7%	\$0.4981	\$1.5794	\$0.6116	\$1.6688
1,000	\$269	\$221	\$490	\$269	\$1,303	\$1,572	\$350	\$252	\$603	\$350	\$1,310	\$1,660	\$112.35	22.9%	\$88.26	5.6%	\$0.4902	\$1.5715	\$0.6026	\$1.6598
1,250	\$319	\$277	\$595	\$319	\$1,628	\$1,947	\$417	\$316	\$733	\$417	\$1,637	\$2,055	\$137.91	23.2%	\$107.80	5.5%	\$0.4761	\$1.5574	\$0.5864	\$1.6436
1,500	\$368	\$332	\$700	\$368	\$1,954	\$2,322	\$485	\$379	\$863	\$485	\$1,964	\$2,449	\$163.47	23.4%	\$127.34	5.5%	\$0.4667	\$1.5480	\$0.5756	\$1.6329

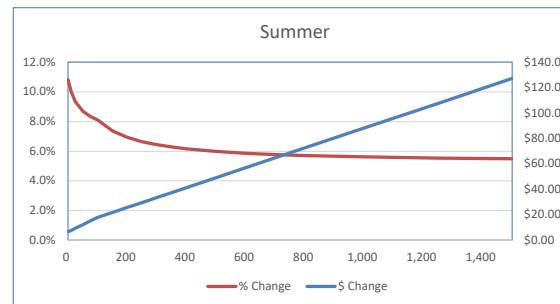
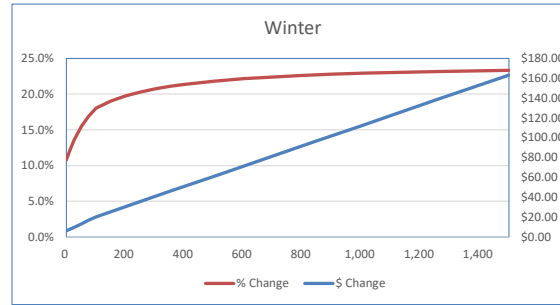
37 **Estimated Bill Percentiles**

38 Winter - 25%	21	\$67	\$5	\$72			\$76	\$5	\$81				\$9.47	13.2%			\$3.4168		\$3.8676	
39 Winter - 50%	171	\$105	\$38	\$142			\$127	\$43	\$170				\$27.59	19.4%			\$0.8332		\$0.9945	
40 Winter - 75%	434	\$157	\$96	\$253			\$198	\$110	\$307				\$54.48	21.6%			\$0.5825		\$0.7080	
41 Summer - 25%	10			\$64	\$13	\$77				\$71	\$13	\$85			\$7.71	10.0%		\$7.6866		\$8.4580
42 Summer - 50%	100			\$91	\$130	\$221				\$108	\$131	\$239			\$17.92	8.1%		\$2.2082		\$2.3875
43 Summer - 75%	286			\$127	\$373	\$500				\$158	\$375	\$532			\$32.46	6.5%		\$1.7481		\$1.8616

Estimated Bill Percentiles per 2023 Company analysis

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE G-51 : COMMERCIAL/INDUSTRIAL - LOW ANNUAL USE, LOW WINTER USE  
CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE G-52 : COMMERCIAL/INDUSTRIAL - MEDIUM ANNUAL USE, LOW WINTER USE

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	G-52		G-52			G-52		G-52	
	Present Rates		Present Rates			Proposed Rates		Proposed Rates	
	Winter	Summer	Winter	Summer		Winter	Summer	Winter	Summer
COG (Excl Keen)	\$0.1322	\$1.2068	\$0.1322	\$1.2068		\$0.1542	\$1.2048	\$0.1542	\$1.2048
LDAC-GAP (Excl Keen)	\$0.0890	\$0.0957	\$0.0890	\$0.0957		\$0.0982	\$0.1049	\$0.0982	\$0.1049
Customer charge	\$182.26	\$182.26	\$182.26	\$182.26		\$201.95	\$201.95	\$201.95	\$201.95
Sales rate									
First Block Size	1000	1000	1000	1000		1000	1000	1000	1000
Block 1	\$0.2560	\$0.1891	\$0.2560	\$0.1891		\$0.3321	\$0.2453	\$0.3321	\$0.2453
Block 2	\$0.1749	\$0.1132	\$0.1749	\$0.1132		\$0.2269	\$0.1468	\$0.2269	\$0.1468

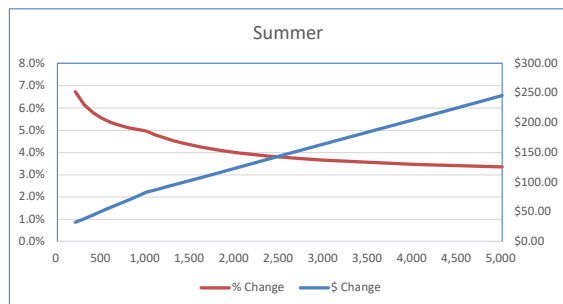
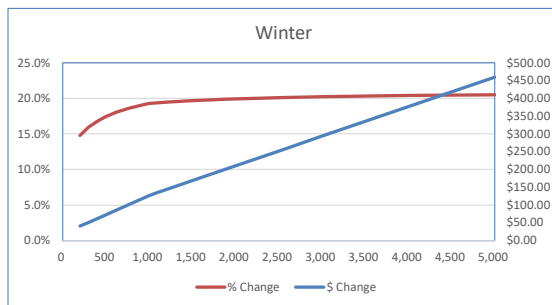
Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
200	\$233	\$44	\$278	\$220	\$261	\$481	\$268	\$50	\$319	\$251	\$262	\$513	\$41.15	14.8%	\$32.36	6.7%	\$1.3885	\$2.4029	\$1.5943	\$2.5647
300	\$259	\$66	\$325	\$239	\$391	\$630	\$302	\$76	\$377	\$276	\$393	\$668	\$51.89	15.9%	\$38.69	6.1%	\$1.0847	\$2.0991	\$1.2577	\$2.2281
400	\$285	\$88	\$373	\$258	\$521	\$779	\$335	\$101	\$436	\$300	\$524	\$824	\$62.62	16.8%	\$45.03	5.8%	\$0.9329	\$1.9473	\$1.0894	\$2.0598
500	\$310	\$111	\$421	\$277	\$651	\$928	\$368	\$126	\$494	\$325	\$655	\$979	\$73.36	17.4%	\$51.36	5.5%	\$0.8417	\$1.8561	\$0.9884	\$1.9589
600	\$336	\$133	\$469	\$296	\$782	\$1,077	\$401	\$151	\$553	\$349	\$786	\$1,135	\$84.09	17.9%	\$57.70	5.4%	\$0.7810	\$1.7954	\$0.9211	\$1.8915
700	\$361	\$155	\$516	\$315	\$912	\$1,226	\$434	\$177	\$611	\$374	\$917	\$1,290	\$94.82	18.4%	\$64.03	5.2%	\$0.7376	\$1.7520	\$0.8730	\$1.8435
800	\$387	\$177	\$564	\$334	\$1,042	\$1,376	\$468	\$202	\$670	\$398	\$1,048	\$1,446	\$105.56	18.7%	\$70.37	5.1%	\$0.7050	\$1.7194	\$0.8370	\$1.8074
900	\$413	\$199	\$612	\$352	\$1,172	\$1,525	\$501	\$227	\$728	\$423	\$1,179	\$1,601	\$116.29	19.0%	\$76.71	5.0%	\$0.6797	\$1.6941	\$0.8089	\$1.7793
1,000	\$438	\$221	\$659	\$371	\$1,303	\$1,674	\$534	\$252	\$786	\$447	\$1,310	\$1,757	\$127.02	19.3%	\$83.04	5.0%	\$0.6595	\$1.6739	\$0.7865	\$1.7569
1,100	\$456	\$243	\$699	\$383	\$1,433	\$1,815	\$557	\$278	\$834	\$462	\$1,441	\$1,903	\$135.35	19.4%	\$87.12	4.8%	\$0.6355	\$1.6504	\$0.7586	\$1.7296
1,200	\$473	\$265	\$739	\$394	\$1,563	\$1,957	\$579	\$303	\$882	\$477	\$1,572	\$2,048	\$143.67	19.4%	\$91.19	4.7%	\$0.6156	\$1.6308	\$0.7353	\$1.7068
1,300	\$491	\$288	\$778	\$405	\$1,693	\$2,099	\$602	\$328	\$930	\$491	\$1,703	\$2,194	\$151.99	19.5%	\$95.27	4.5%	\$0.5987	\$1.6143	\$0.7156	\$1.6876
1,400	\$508	\$310	\$818	\$417	\$1,824	\$2,240	\$625	\$353	\$978	\$506	\$1,834	\$2,339	\$160.32	19.6%	\$99.34	4.4%	\$0.5842	\$1.6001	\$0.6987	\$1.6711
1,500	\$526	\$332	\$858	\$428	\$1,954	\$2,382	\$648	\$379	\$1,026	\$521	\$1,964	\$2,485	\$168.64	19.7%	\$103.42	4.3%	\$0.5717	\$1.5878	\$0.6841	\$1.6568
1,750	\$569	\$387	\$957	\$456	\$2,279	\$2,736	\$704	\$442	\$1,146	\$557	\$2,292	\$2,849	\$189.45	19.8%	\$113.61	4.2%	\$0.5466	\$1.5632	\$0.6549	\$1.6281
2,000	\$613	\$442	\$1,056	\$485	\$2,605	\$3,090	\$761	\$505	\$1,266	\$594	\$2,619	\$3,213	\$210.26	19.9%	\$123.80	4.0%	\$0.5278	\$1.5448	\$0.6329	\$1.6067
2,500	\$701	\$553	\$1,254	\$541	\$3,256	\$3,797	\$874	\$631	\$1,505	\$667	\$3,274	\$3,942	\$251.88	20.1%	\$144.17	3.8%	\$0.5014	\$1.5190	\$0.6022	\$1.5766
3,000	\$788	\$664	\$1,452	\$598	\$3,908	\$4,505	\$988	\$757	\$1,745	\$741	\$3,929	\$4,670	\$293.50	20.2%	\$164.55	3.7%	\$0.4839	\$1.5018	\$0.5817	\$1.5566
4,000	\$963	\$885	\$1,848	\$711	\$5,210	\$5,921	\$1,215	\$1,010	\$2,224	\$888	\$5,239	\$6,126	\$376.74	20.4%	\$205.31	3.5%	\$0.4619	\$1.4802	\$0.5561	\$1.5316
5,000	\$1,138	\$1,106	\$2,244	\$824	\$6,513	\$7,337	\$1,442	\$1,262	\$2,704	\$1,034	\$6,548	\$7,583	\$459.97	20.5%	\$246.06	3.4%	\$0.4488	\$1.4673	\$0.5408	\$1.5165

Estimated Bill Percentiles	1,040	2,000	3,500	700	1,040	2,000											
Winter - 25%	\$445	\$230	\$675		\$543	\$263	\$806			\$130.35	19.3%			\$0.6493		\$0.7747	
Winter - 50%	\$613	\$442	\$1,056		\$761	\$505	\$1,266			\$210.26	19.9%			\$0.5278		\$0.6329	
Winter - 75%	\$876	\$774	\$1,650		\$1,101	\$884	\$1,985			\$335.12	20.3%			\$0.4713		\$0.5671	
Summer - 25%				\$315	\$912	\$1,226			\$374	\$917	\$1,290			\$64.03	5.2%	\$1.7520	\$1.8435
Summer - 50%				\$376	\$1,355	\$1,730			\$453	\$1,362	\$1,815			\$84.67	4.9%	\$1.6639	\$1.7453
Summer - 75%				\$485	\$2,605	\$3,090			\$594	\$2,619	\$3,213			\$123.80	4.0%	\$1.5448	\$1.6067

Estimated Bill Percentiles per 2010 MCS

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-52 : COMMERCIAL/INDUSTRIAL - MEDIUM ANNUAL USE, LOW WINTER USE  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-53 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, LOAD FACTOR LESS THAN 90%

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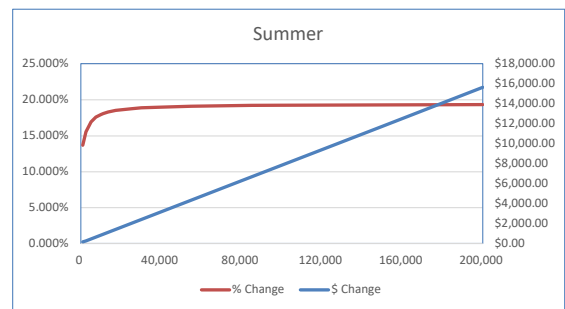
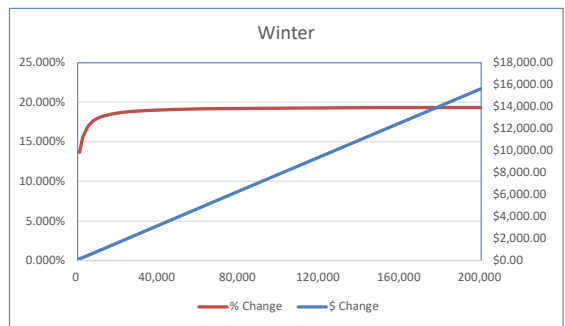
G-53			G-53			G-53			G-53		
Present Rates			Present Rates			Proposed Rates			Proposed Rates		
	Winter	Summer		Winter	Summer		Winter	Summer		Winter	Summer
COG (Excl Keen)	\$0.1322	\$1.2068		\$0.1322	\$1.2068	COG (Excl Keen)	\$0.1542	\$1.2048		\$0.1542	\$1.2048
LDAC-GAP (Excl Kee	\$0.0890	\$0.0957		\$0.0890	\$0.0957	LDAC-GAP (Excl Kee	\$0.0982	\$0.1049		\$0.0982	\$0.1049
Customer charge	\$805.75	\$805.75		\$805.75	\$805.75	Customer charge	\$892.79	\$892.79		\$892.79	\$892.79
Sales rate						Sales rate					
First Block Size						First Block Size					
Block 1	\$0.1790	\$0.0907		\$0.1790	\$0.0907	Block 1	\$0.2255	\$0.1143		\$0.2255	\$0.1143
Block 2	\$0.1790	\$0.0907		\$0.1790	\$0.0907	Block 2	\$0.2255	\$0.1143		\$0.2255	\$0.1143

Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs			
	Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed	
	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer
1,000	\$985	\$221	\$1,206	\$896	\$1,303	\$2,199	\$1,118	\$252	\$1,371	\$1,007	\$1,310	\$2,317	\$164.77	13.7%	\$117.79	5.4%	\$1,2060	\$2,1990	\$1,3707	\$2,3167
2,500	\$1,253	\$553	\$1,806	\$1,033	\$3,256	\$4,289	\$1,457	\$631	\$2,088	\$1,179	\$3,274	\$4,453	\$281.38	15.6%	\$163.92	3.8%	\$0,7225	\$1,7155	\$0,8351	\$1,7811
5,000	\$1,701	\$1,106	\$2,807	\$1,259	\$6,513	\$7,772	\$2,020	\$1,262	\$3,282	\$1,464	\$6,548	\$8,013	\$475.72	16.9%	\$240.81	3.1%	\$0,5614	\$1,5544	\$0,6565	\$1,6025
7,500	\$2,148	\$1,659	\$3,807	\$1,486	\$9,769	\$11,255	\$2,584	\$1,893	\$4,477	\$1,750	\$9,822	\$11,572	\$670.06	17.6%	\$317.70	2.8%	\$0,5076	\$1,5006	\$0,5970	\$1,5430
10,000	\$2,596	\$2,212	\$4,808	\$1,713	\$13,025	\$14,738	\$3,148	\$2,524	\$5,672	\$2,036	\$13,097	\$15,132	\$864.41	18.0%	\$394.58	2.7%	\$0,4808	\$1,4738	\$0,5672	\$1,5132
12,500	\$3,043	\$2,765	\$5,808	\$1,940	\$16,281	\$18,221	\$3,712	\$3,155	\$6,867	\$2,322	\$16,371	\$18,692	\$1,058.75	18.2%	\$471.47	2.6%	\$0,4647	\$1,4577	\$0,5494	\$1,4954
15,000	\$3,491	\$3,318	\$6,809	\$2,166	\$19,538	\$21,704	\$4,275	\$3,787	\$8,062	\$2,607	\$19,645	\$22,252	\$1,253.09	18.4%	\$548.36	2.5%	\$0,4539	\$1,4469	\$0,5375	\$1,4835
20,000	\$4,386	\$4,424	\$8,810	\$2,620	\$26,050	\$28,670	\$5,403	\$5,049	\$10,452	\$3,179	\$26,193	\$29,372	\$1,641.78	18.6%	\$702.13	2.4%	\$0,4405	\$1,4335	\$0,5226	\$1,4686
25,000	\$5,281	\$5,530	\$10,811	\$3,073	\$32,563	\$35,636	\$6,530	\$6,311	\$12,841	\$3,750	\$32,741	\$36,492	\$2,030.46	18.8%	\$855.90	2.4%	\$0,4324	\$1,4254	\$0,5136	\$1,4597
30,000	\$6,176	\$6,636	\$12,812	\$3,527	\$39,075	\$42,602	\$7,658	\$7,573	\$15,231	\$4,322	\$39,290	\$43,611	\$2,419.15	18.9%	\$1,009.68	2.4%	\$0,4271	\$1,4201	\$0,5077	\$1,4537
35,000	\$7,071	\$7,742	\$14,813	\$3,980	\$45,588	\$49,568	\$8,785	\$8,835	\$17,621	\$4,893	\$45,838	\$50,731	\$2,807.84	19.0%	\$1,163.45	2.3%	\$0,4232	\$1,4162	\$0,5034	\$1,4495
40,000	\$7,966	\$8,848	\$16,814	\$4,434	\$52,100	\$56,534	\$9,913	\$10,097	\$20,010	\$5,465	\$52,386	\$57,851	\$3,196.52	19.0%	\$1,317.22	2.3%	\$0,4203	\$1,4133	\$0,5003	\$1,4463
45,000	\$8,861	\$9,954	\$18,815	\$4,887	\$58,613	\$63,500	\$11,040	\$11,360	\$22,400	\$6,036	\$58,934	\$64,971	\$3,585.21	19.1%	\$1,470.99	2.3%	\$0,4181	\$1,4111	\$0,4978	\$1,4438
50,000	\$9,756	\$11,060	\$20,816	\$5,341	\$65,125	\$70,466	\$12,168	\$12,622	\$24,790	\$6,608	\$65,483	\$72,091	\$3,973.89	19.1%	\$1,624.77	2.3%	\$0,4163	\$1,4093	\$0,4958	\$1,4418
55,000	\$10,651	\$12,166	\$22,817	\$5,794	\$71,638	\$77,432	\$13,295	\$13,884	\$27,179	\$7,179	\$72,031	\$79,210	\$4,362.58	19.1%	\$1,778.54	2.3%	\$0,4149	\$1,4079	\$0,4942	\$1,4402
60,000	\$11,546	\$13,272	\$24,818	\$6,248	\$78,150	\$84,398	\$14,423	\$15,146	\$29,569	\$7,751	\$78,579	\$86,330	\$4,751.26	19.1%	\$1,932.31	2.3%	\$0,4136	\$1,4066	\$0,4928	\$1,4388
75,000	\$14,231	\$16,590	\$30,821	\$7,608	\$97,688	\$105,296	\$17,805	\$18,933	\$36,738	\$9,465	\$98,224	\$107,689	\$5,917.32	19.2%	\$2,393.63	2.3%	\$0,4109	\$1,4039	\$0,4898	\$1,4359
100,000	\$18,706	\$22,120	\$40,826	\$9,876	\$130,250	\$140,126	\$23,443	\$25,244	\$48,687	\$12,323	\$130,965	\$143,288	\$7,860.75	19.3%	\$3,162.50	2.3%	\$0,4083	\$1,4013	\$0,4869	\$1,4329
150,000	\$27,656	\$33,180	\$60,836	\$14,411	\$195,375	\$209,786	\$34,718	\$37,866	\$72,583	\$18,038	\$196,448	\$214,486	\$11,747.60	19.3%	\$4,700.23	2.2%	\$0,4056	\$1,3986	\$0,4839	\$1,4299
200,000	\$36,606	\$44,240	\$80,846	\$18,946	\$260,500	\$279,446	\$45,993	\$50,487	\$96,480	\$23,753	\$261,931	\$285,684	\$15,634.46	19.3%	\$6,237.96	2.2%	\$0,4042	\$1,3972	\$0,4824	\$1,4284
37	<b>Estimated Bill Percentiles</b>																			
38	Winter - 25%	10,000	\$2,596	\$2,212	\$4,808				\$3,148	\$2,524	\$5,672				\$864.41	18.0%	\$0,4808		\$0,5672	
39	Winter - 50%	15,000	\$3,491	\$3,318	\$6,809				\$4,275	\$3,787	\$8,062				\$1,253.09	18.4%	\$0,4539		\$0,5375	
40	Winter - 75%	30,000	\$6,176	\$6,636	\$12,812				\$7,658	\$7,573	\$15,231				\$2,419.15	18.9%	\$0,4271		\$0,5077	
41	Summer - 25%	5,000			\$1,259	\$6,513	\$7,772				\$1,464	\$6,548	\$8,013			\$240.81	3.1%	\$1,5544		\$1,6025
42	Summer - 50%	15,000			\$2,166	\$19,538	\$21,704				\$2,607	\$19,645	\$22,252			\$548.36	2.5%	\$1,4469		\$1,4835
43	Summer - 75%	20,000			\$2,620	\$26,050	\$28,670				\$3,179	\$26,193	\$29,372			\$702.13	2.4%	\$1,4335		\$1,4686

Estimated Bill Percentiles per 2010 MCS

Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-53 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, LOAD FACTOR LESS THAN 90%  
 CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
 RATE G-54 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, LOAD FACTOR GREATER THAN 90%

Line	G-54		G-54		G-54		G-54	
	Present Rates	Winter	Summer	Proposed Rates	Winter	Summer		
1	COG (Excl Keen)	\$0.1322	\$1.2068	COG (Excl Keen)	\$0.1542	\$1.2048		
2	LDAC-GAP (Excl Kee	\$0.0890	\$0.0957	LDAC-GAP (Excl Kee	\$0.0982	\$0.1049		
3	Customer charge	\$806.42	\$806.42	Customer charge	\$893.53	\$893.53		
4	Sales rate			Sales rate				
5	First Block Size			First Block Size				
6	Block 1	\$0.0682	\$0.0386	Block 1	\$0.0866	\$0.0490		
7	Block 2	\$0.0682	\$0.0386	Block 2	\$0.0866	\$0.0490		

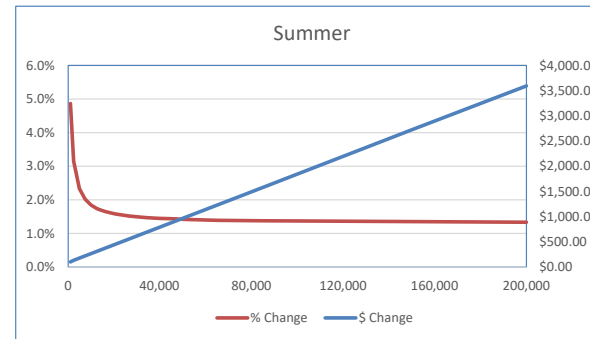
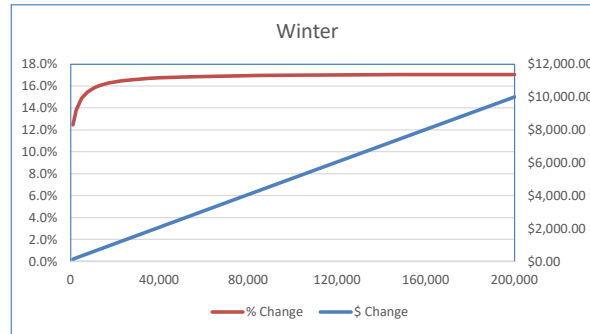
Line	Use per Month (therms)	Monthly Bills at Present Rates						Monthly Bills at Proposed Rates						Change in Monthly Bill				Unit Costs				
		Winter			Summer			Winter			Summer			Winter		Summer		Current		Proposed		
		Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	Base Rates	COG / LDAC	TOTAL	\$ Change	% Change	\$ Change	% Change	Winter	Summer	Winter	Summer	
16	1,000	\$875	\$221	\$1,096	\$845	\$1,303	\$2,148	\$980	\$252	\$1,233	\$943	\$1,310	\$2,252	\$136.75	12.5%	\$104.67	4.9%	\$1.0958	\$2.1475	\$1.2326	\$2.2522	
17	2,500	\$977	\$553	\$1,530	\$903	\$3,256	\$4,159	\$1,110	\$631	\$1,741	\$1,016	\$3,274	\$4,290	\$211.20	13.8%	\$131.00	3.1%	\$0.6120	\$1.6637	\$0.6964	\$1.7161	
18	5,000	\$1,147	\$1,106	\$2,253	\$999	\$6,513	\$7,512	\$1,327	\$1,262	\$2,589	\$1,139	\$6,548	\$7,687	\$335.30	14.9%	\$174.88	2.3%	\$0.4507	\$1.5024	\$0.5177	\$1.5374	
19	7,500	\$1,318	\$1,659	\$2,977	\$1,096	\$9,769	\$10,865	\$1,543	\$1,893	\$3,436	\$1,261	\$9,822	\$11,083	\$459.39	15.4%	\$218.77	2.0%	\$0.3969	\$1.4486	\$0.4582	\$1.4778	
20	10,000	\$1,488	\$2,212	\$3,700	\$1,192	\$13,025	\$14,217	\$1,760	\$2,524	\$4,284	\$1,384	\$13,097	\$14,480	\$583.48	15.8%	\$262.66	1.8%	\$0.3700	\$1.4217	\$0.4284	\$1.4480	
21	12,500	\$1,659	\$2,765	\$4,424	\$1,289	\$16,281	\$17,570	\$1,976	\$3,155	\$5,131	\$1,506	\$16,371	\$17,877	\$707.57	16.0%	\$306.54	1.7%	\$0.3539	\$1.4056	\$0.4105	\$1.4301	
22	15,000	\$1,829	\$3,318	\$5,147	\$1,385	\$19,538	\$20,923	\$2,193	\$3,787	\$5,979	\$1,629	\$19,645	\$21,273	\$831.67	16.2%	\$350.43	1.7%	\$0.3432	\$1.3949	\$0.3986	\$1.4182	
23	20,000	\$2,170	\$4,424	\$6,594	\$1,578	\$26,050	\$27,628	\$2,626	\$5,049	\$7,674	\$1,874	\$26,193	\$28,067	\$1,079.85	16.4%	\$438.20	1.6%	\$0.3297	\$1.3814	\$0.3837	\$1.4033	
24	25,000	\$2,511	\$5,530	\$8,041	\$1,771	\$32,563	\$34,334	\$3,059	\$6,311	\$9,369	\$2,119	\$32,741	\$34,860	\$1,328.04	16.5%	\$525.98	1.5%	\$0.3217	\$1.3734	\$0.3748	\$1.3944	
25	30,000	\$2,852	\$6,636	\$9,488	\$1,964	\$39,075	\$41,039	\$3,492	\$7,573	\$11,065	\$2,364	\$39,290	\$41,653	\$1,576.22	16.6%	\$613.75	1.5%	\$0.3163	\$1.3680	\$0.3688	\$1.3884	
26	35,000	\$3,193	\$7,742	\$10,935	\$2,157	\$45,588	\$47,745	\$3,925	\$8,835	\$12,760	\$2,609	\$45,838	\$48,446	\$1,824.41	16.7%	\$701.52	1.5%	\$0.3124	\$1.3641	\$0.3646	\$1.3842	
27	40,000	\$3,534	\$8,848	\$12,382	\$2,350	\$52,100	\$54,450	\$4,358	\$10,097	\$14,455	\$2,854	\$52,386	\$55,240	\$2,072.60	16.7%	\$789.30	1.4%	\$0.3096	\$1.3613	\$0.3614	\$1.3810	
28	45,000	\$3,875	\$9,954	\$13,829	\$2,543	\$58,613	\$61,156	\$4,791	\$11,360	\$16,150	\$3,099	\$58,934	\$62,033	\$2,320.78	16.8%	\$877.07	1.4%	\$0.3073	\$1.3590	\$0.3589	\$1.3785	
29	50,000	\$4,216	\$11,060	\$15,276	\$2,736	\$65,125	\$67,861	\$5,224	\$12,622	\$17,845	\$3,344	\$65,483	\$68,826	\$2,568.97	16.8%	\$964.84	1.4%	\$0.3055	\$1.3572	\$0.3569	\$1.3765	
30	55,000	\$4,557	\$12,166	\$16,723	\$2,929	\$71,638	\$74,567	\$5,657	\$13,884	\$19,541	\$3,589	\$72,031	\$75,620	\$2,817.15	16.8%	\$1,052.62	1.4%	\$0.3041	\$1.3558	\$0.3553	\$1.3749	
31	60,000	\$4,898	\$13,272	\$18,170	\$3,122	\$78,150	\$81,272	\$6,090	\$15,146	\$21,236	\$3,834	\$78,579	\$82,413	\$3,065.34	16.9%	\$1,140.39	1.4%	\$0.3028	\$1.3545	\$0.3539	\$1.3735	
32	75,000	\$5,921	\$16,590	\$22,511	\$3,701	\$97,688	\$101,389	\$7,389	\$18,933	\$26,321	\$4,569	\$98,224	\$102,793	\$3,809.89	16.9%	\$1,403.71	1.4%	\$0.3002	\$1.3519	\$0.3510	\$1.3706	
33	100,000	\$7,626	\$22,120	\$29,746	\$4,666	\$130,250	\$134,916	\$9,554	\$25,244	\$34,797	\$5,794	\$130,965	\$136,759	\$5,050.82	17.0%	\$1,842.57	1.4%	\$0.2975	\$1.3492	\$0.3480	\$1.3676	
34	150,000	\$11,036	\$33,180	\$44,216	\$6,596	\$195,375	\$201,971	\$13,884	\$37,866	\$51,749	\$8,244	\$196,448	\$204,692	\$7,532.68	17.0%	\$2,720.30	1.3%	\$0.2948	\$1.3465	\$0.3450	\$1.3646	
35	200,000	\$14,446	\$44,240	\$58,686	\$8,526	\$260,500	\$269,026	\$18,214	\$50,487	\$68,701	\$10,694	\$261,931	\$272,624	\$10,014.53	17.1%	\$3,598.04	1.3%	\$0.2934	\$1.3451	\$0.3435	\$1.3631	
36																						
37	<b>Estimated Bill Percentiles</b>																					
38	Winter - 25%	4,000	\$1,079	\$885	\$1,964			\$1,240	\$1,010	\$2,250				\$285.66	14.5%			\$0.4910		\$0.5624		
39	Winter - 50%	30,000	\$2,852	\$6,636	\$9,488			\$3,492	\$7,573	\$11,065				\$1,576.22	16.6%			\$0.3163		\$0.3688		
40	Winter - 75%	100,000	\$7,626	\$22,120	\$29,746			\$9,554	\$25,244	\$34,797				\$5,050.82	17.0%			\$0.2975		\$0.3480		
41	Summer - 25%	15,000			\$1,385	\$19,538	\$20,923			\$1,629	\$19,645	\$21,273			\$350.43	1.7%		\$1.3949		\$1.4182		
42	Summer - 50%	50,000			\$2,736	\$65,125	\$67,861			\$3,344	\$65,483	\$68,826			\$964.84	1.4%		\$1.3572		\$1.3765		
43	Summer - 75%	80,000			\$3,894	\$104,200	\$108,094			\$4,814	\$104,772	\$109,586			\$1,491.48	1.4%		\$1.3512		\$1.3698		

Estimated Bill Percentiles per 2010 MCS



Liberty Utilities (EnergyNorth Natural Gas) Corp.

COMPARATIVE MONTHLY BILLING UNDER PRESENT AND PROPOSED RATES  
RATE G-54 : COMMERCIAL/INDUSTRIAL - HIGH ANNUAL USE, LOAD FACTOR GREATER THAN 90%  
CHANGE IN MONTHLY BILLS PER USAGE LEVELS



Line  
No

Liberty Utilities (EnergyNorth Natural Gas) Corp.  
Bill Impact Analysis - Cost of Gas Filing Methodology

1 Winter Season (Jan. - Apr., Nov. - Dec.)  
2 Residential Non-Heating (R1)

PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
average Usage (Therms)	25	35	35	33	28	21	177
<b>Winter:</b>							
Cust. Chg	\$17.67	\$17.67	\$17.67	\$17.67	\$17.67	\$17.67	\$106.02
Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Tailblock	\$17.02	\$23.85	\$23.85	\$22.82	\$19.05	\$14.17	\$120.76
HB Threshold							
<b>Summer:</b>							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	\$34.69	\$41.52	\$41.52	\$40.49	\$36.72	\$31.84	\$226.78
COG Rate - (Winter)	\$0.1546	\$0.1546	\$0.1546	\$0.1546	\$0.1546	\$0.1546	\$0.1546
COG amount - Winter	\$3.8521	\$5.3965	\$5.3966	\$5.1638	\$4.3097	\$3.2074	\$27.33
COG Rate - (Summer)							
COG amount - Summer							
LDAC	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205
LDAC amount	\$3.00	\$4.21	\$4.21	\$4.02	\$3.36	\$2.50	\$21.29
<b>Total Bill</b>	<b>\$41.55</b>	<b>\$51.12</b>	<b>\$51.12</b>	<b>\$49.68</b>	<b>\$44.38</b>	<b>\$37.55</b>	<b>\$275.40</b>

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
13	11	9	9	11	16	69	246
\$17.67	\$17.67	\$17.67	\$17.67	\$17.67	\$17.67	\$106.02	\$212.04
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$9.10	\$7.76	\$6.30	\$5.95	\$7.23	\$10.99	\$47.32	\$168.08
\$26.77	\$25.43	\$23.97	\$23.62	\$24.90	\$28.66	\$153.34	\$380.12
\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$0.4503
\$16.04	\$13.68	\$11.11	\$10.49	\$12.74	\$19.37	\$63.43	\$110.76
\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1224
\$1.69	\$1.44	\$1.17	\$1.11	\$1.34	\$2.04	\$8.81	\$30.10
<b>\$44.50</b>	<b>\$40.55</b>	<b>\$36.25</b>	<b>\$35.22</b>	<b>\$38.98</b>	<b>\$50.07</b>	<b>\$245.58</b>	<b>\$520.98</b>

31 Winter Season (Jan. - Apr., Nov. - Dec.)  
32 Residential Non-Heating (R1)

CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
average Usage (Therms)	25	35	35	33	28	21	177
<b>Winter:</b>							
Cust. Chg	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34
Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Tailblock	\$11.49	\$16.10	\$16.10	\$15.41	\$12.86	\$9.57	\$81.53
HB Threshold							
<b>Summer:</b>							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	\$26.88	\$31.49	\$31.49	\$30.80	\$28.25	\$24.96	\$173.87
COG Rate - (Winter)	\$0.1326	\$0.1326	\$0.1326	\$0.1326	\$0.1326	\$0.1326	\$0.1326
COG amount - Winter	\$3.3031	\$4.6275	\$4.6275	\$4.4279	\$3.6956	\$2.7503	\$23.43
COG Rate - (Summer)							
COG amount - Summer							
LDAC	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113
LDAC amount	\$2.77	\$3.88	\$3.88	\$3.72	\$3.10	\$2.31	\$19.67
<b>Total Bill</b>	<b>\$32.96</b>	<b>\$40.00</b>	<b>\$40.00</b>	<b>\$38.94</b>	<b>\$35.05</b>	<b>\$30.02</b>	<b>\$216.97</b>
<b>DIFFERENCE:</b>							
Total Bill	\$8.59	\$11.12	\$11.12	\$10.74	\$9.34	\$7.53	\$58.43
% Change	26.06%	27.79%	27.79%	27.57%	26.64%	25.09%	26.93%
Base Rate	\$7.81	\$10.03	\$10.03	\$9.69	\$8.47	\$6.88	\$52.91
% Change	29.05%	31.84%	31.84%	31.47%	29.97%	27.58%	30.43%
COG & LDAC	\$0.78	\$1.09	\$1.09	\$1.04	\$0.87	\$0.65	\$5.52
% Change	12.81%	12.81%	12.81%	12.81%	12.81%	12.81%	12.81%

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
13	11	9	9	11	16	69	246
\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.34	\$184.68
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$6.14	\$5.24	\$4.25	\$4.02	\$4.88	\$7.42	\$31.95	\$113.48
\$21.53	\$20.63	\$19.64	\$19.41	\$20.27	\$22.81	\$124.29	\$298.16
\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$0.4351
\$16.0669	\$13.7035	\$11.1276	\$10.5112	\$12.7620	\$19.4038	\$63.58	\$107.01
\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1132
\$1.57	\$1.34	\$1.09	\$1.03	\$1.25	\$1.90	\$8.17	\$27.84
<b>\$39.17</b>	<b>\$35.67</b>	<b>\$31.86</b>	<b>\$30.95</b>	<b>\$34.28</b>	<b>\$44.11</b>	<b>\$216.03</b>	<b>\$433.00</b>
\$5.33	\$4.88	\$4.39	\$4.28	\$4.70	\$5.96	\$29.55	\$87.98
13.61%	13.68%	13.79%	13.82%	13.72%	13.52%	13.68%	20.32%
\$5.23	\$4.80	\$4.33	\$4.21	\$4.63	\$5.85	\$29.05	\$81.96
24.31%	23.27%	22.03%	21.71%	22.83%	25.64%	23.37%	27.49%
\$0.10	\$0.08	\$0.07	\$0.06	\$0.08	\$0.12	\$0.50	\$6.02
0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	4.46%

11-758

71 Winter Season (Jan. - Apr., Nov. - Dec.)  
72 Residential Heating (R3)

73 PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
74 average Usage (Therms)	80	119	144	137	101	61	642
75 Winter:							
76 Cust. Chg	\$17.37	\$17.37	\$17.37	\$17.37	\$17.37	\$17.37	\$104.22
77 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
78 Tailblock	\$63.44	\$94.99	\$114.53	\$109.04	\$80.53	\$48.80	\$511.34
79 HB Threshold							
80 Summer:							
81 Cust. Chg							
82 Headblock							
83 Tailblock							
84 HB Threshold							
85 Total Base Rate Amount	\$80.81	\$112.36	\$131.90	\$126.41	\$97.90	\$66.17	\$615.56
86 COG Rate - (Winter)	\$0.1546	\$0.1546	\$0.1546	\$0.1546	\$0.1546	\$0.1546	\$0.1546
87 COG amount - Winter	\$12.3176	\$18.4449	\$22.2388	\$21.1716	\$15.6374	\$9.4761	\$99.29
88 COG Rate - (Summer)							
89 COG amount - Summer							
90 LDAC	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205
91 LDAC amount	\$9.60	\$14.37	\$17.33	\$16.50	\$12.19	\$7.38	\$77.37
92 Total Bill	\$102.72	\$145.18	\$171.47	\$164.08	\$125.73	\$83.03	\$792.21

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
27	17	13	12	18	36	123	765
\$17.37	\$17.37	\$17.37	\$17.37	\$17.37	\$17.37	\$104.22	\$208.44
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$21.29	\$13.15	\$10.46	\$9.94	\$14.36	\$28.93	\$98.13	\$609.47
\$38.66	\$30.52	\$27.83	\$27.31	\$31.73	\$46.30	\$202.35	\$817.91
\$32.22	\$19.90	\$15.82	\$15.04	\$21.73	\$43.77	\$148.49	\$247.78
\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205
\$3.40	\$2.10	\$1.67	\$1.59	\$2.29	\$4.62	\$15.67	\$93.04
\$74.28	\$52.52	\$45.32	\$43.94	\$55.76	\$94.68	\$366.52	\$1,158.73

101 Winter Season (Jan. - Apr., Nov. - Dec.)  
102 Residential Heating (R3)

103 CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
104 average Usage (Therms)	80	119	144	137	101	61	642
105 Winter:							
106 Cust. Chg	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.35
107 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
108 Tailblock	\$49.12	\$73.56	\$88.69	\$84.43	\$62.36	\$37.79	\$395.96
109 HB Threshold							
110 Summer:							
111 Cust. Chg							
112 Headblock							
113 Tailblock							
114 HB Threshold							
115 Total Base Rate Amount	\$64.52	\$88.95	\$104.08	\$99.83	\$77.75	\$53.18	\$488.31
116 COG Rate - (Winter)	\$0.1326	\$0.1326	\$0.1326	\$0.1326	\$0.1326	\$0.1326	\$0.1326
117 COG amount - Winter	\$10.5622	\$15.8163	\$19.0696	\$18.1545	\$13.4089	\$8.1257	\$85.14
118 COG Rate - (Summer)							
119 COG amount - Summer							
120 LDAC	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113
121 LDAC amount	\$8.87	\$13.28	\$16.01	\$15.24	\$11.25	\$6.82	\$71.46
122 Total Bill	\$83.94	\$118.04	\$139.16	\$133.22	\$102.42	\$68.13	\$644.91

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
27	17	13	12	18	36	123	765
\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.35	\$184.71
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$16.49	\$10.18	\$8.10	\$7.70	\$11.12	\$22.40	\$75.99	\$471.95
\$31.88	\$25.58	\$23.49	\$23.09	\$26.52	\$37.79	\$168.35	\$656.66
\$32.2747	\$19.9342	\$15.8507	\$15.0685	\$21.7709	\$43.8420	\$148.74	\$233.88
\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180
\$3.16	\$1.95	\$1.55	\$1.47	\$2.13	\$4.29	\$14.54	\$86.00
\$67.31	\$47.46	\$40.89	\$39.63	\$50.41	\$85.92	\$331.63	\$976.54

132 DIFFERENCE:

133 Total Bill	\$18.78	\$27.14	\$32.31	\$30.86	\$23.31	\$14.90	\$147.30
134 % Change	22.37%	22.99%	23.22%	23.16%	22.76%	21.88%	22.84%
135 Base Rate	\$16.29	\$23.41	\$27.82	\$26.58	\$20.15	\$12.99	\$127.24
136 % Change	25.25%	26.32%	26.73%	26.63%	25.91%	24.42%	26.06%
137 COG & LDAC	\$2.49	\$3.73	\$4.49	\$4.28	\$3.16	\$1.91	\$20.06
138 % Change	12.81%	12.81%	12.81%	12.81%	12.81%	12.81%	12.81%

\$6.97	\$5.06	\$4.43	\$4.31	\$5.35	\$8.76	\$34.89	\$182.19
10.36%	10.67%	10.84%	10.88%	10.61%	10.20%	10.52%	18.66%
\$6.78	\$4.95	\$4.34	\$4.22	\$5.22	\$8.50	\$34.01	\$161.25
21.27%	19.33%	18.46%	18.28%	19.68%	22.50%	20.20%	24.56%
\$0.19	\$0.12	\$0.09	\$0.09	\$0.13	\$0.26	\$0.88	\$20.94
0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	6.55%

141 Winter Season (Jan. - Apr., Nov. - Dec.)  
142 Low Income Residential Heating (R4)

143 PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
144 average Usage (Therms)	64	97	138	131	99	61	590
145 Winter:							
146 Cust. Chg	\$9.55	\$9.55	\$9.55	\$9.55	\$9.55	\$9.55	\$57.30
147 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
148 Tailblock	\$28.07	\$42.42	\$60.25	\$57.25	\$43.45	\$26.77	\$258.21
149 HB Threshold							
150 Summer:							
151 Cust. Chg							
152 Headblock							
153 Tailblock							
154 HB Threshold							
155 Total Base Rate Amount	\$37.62	\$51.97	\$69.80	\$66.80	\$53.00	\$36.32	\$315.51
156 COG Rate - (Winter)	\$0.0949	\$0.0949	\$0.0949	\$0.0949	\$0.0949	\$0.0949	\$0.0949
157 COG amount - Winter	\$6.0850	\$9.1940	\$13.0593	\$12.4088	\$9.4176	\$5.8018	\$55.97
158 COG Rate - (Summer)							
159 COG amount - Summer							
160 LDAC	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205	\$0.1205
161 LDAC amount	\$7.72	\$11.67	\$16.58	\$15.75	\$11.95	\$7.36	\$71.04
162 Total Bill	\$51.43	\$72.83	\$99.44	\$94.96	\$74.37	\$49.48	\$442.51

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
27	17	14	13	16	30	117	706
\$17.37	\$17.37	\$17.37	\$17.37	\$17.37	\$17.37	\$104.22	\$161.52
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$21.51	\$13.45	\$10.85	\$10.00	\$13.10	\$24.19	\$93.09	\$351.29
\$38.88	\$30.82	\$28.22	\$27.37	\$30.47	\$41.56	\$197.31	\$512.81
\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$1.2051	\$0.2786
\$32.54	\$20.35	\$16.41	\$15.13	\$19.82	\$36.60	\$140.85	\$196.82
\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1272	\$0.1216
\$3.44	\$2.15	\$1.73	\$1.60	\$2.09	\$3.86	\$14.87	\$85.90
\$74.85	\$53.31	\$46.36	\$44.09	\$52.38	\$82.02	\$353.03	\$795.53

171 Winter Season (Jan. - Apr., Nov. - Dec.)  
172 Low Income Residential Heating (R4)

173 CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
174 average Usage (Therms)	64	97	138	131	99	61	590
175 Winter:							
176 Cust. Chg	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$8.47	\$50.79
177 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
178 Tailblock	\$21.74	\$32.85	\$46.66	\$44.34	\$33.65	\$20.73	\$199.96
179 HB Threshold							
180 Summer:							
181 Cust. Chg							
182 Headblock							
183 Tailblock							
184 HB Threshold							
185 Total Base Rate Amount	\$30.21	\$41.31	\$55.13	\$52.80	\$42.11	\$29.19	\$250.76
186 COG Rate - (Winter)	\$0.0729	\$0.0729	\$0.0729	\$0.0729	\$0.0729	\$0.0729	\$0.0729
187 COG amount - Winter	\$4.6725	\$7.0599	\$10.0279	\$9.5285	\$7.2315	\$4.4550	\$42.98
188 COG Rate - (Summer)							
189 COG amount - Summer							
190 LDAC	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113	\$0.1113	0.1113
191 LDAC amount	\$7.13	\$10.78	\$15.31	\$14.55	\$11.04	\$6.80	\$65.61
192 Total Bill	\$42.01	\$59.15	\$80.46	\$76.88	\$60.39	\$40.45	\$359.34

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
27	17	14	13	16	30	117	706
\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$15.39	\$92.35	\$143.15
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$16.65	\$10.41	\$8.40	\$7.74	\$10.14	\$18.73	\$72.08	\$272.04
\$32.05	\$25.81	\$23.79	\$23.13	\$25.54	\$34.12	\$164.44	\$415.19
\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$1.2071	\$0.2606
\$32.5975	\$20.3829	\$16.4411	\$15.1527	\$19.8550	\$36.6619	\$141.09	\$184.07
\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1180	\$0.1124
\$3.19	\$1.99	\$1.61	\$1.48	\$1.94	\$3.58	\$13.79	\$79.40
\$67.83	\$48.18	\$41.84	\$39.77	\$47.33	\$74.37	\$319.32	\$678.66

202 DIFFERENCE:

203 Total Bill	\$9.42	\$13.68	\$18.97	\$18.08	\$13.98	\$9.03	\$83.16
204 % Change	22.42%	23.12%	23.58%	23.52%	23.16%	22.33%	23.14%
205 Base Rate	\$7.42	\$10.65	\$14.67	\$14.00	\$10.88	\$7.12	\$64.75
206 % Change	24.55%	25.78%	26.62%	26.51%	25.85%	24.39%	25.82%
207 COG & LDAC	\$2.00	\$3.03	\$4.30	\$4.08	\$3.10	\$1.91	\$18.41
208 % Change	16.96%	16.96%	16.96%	16.96%	16.96%	16.96%	16.96%

\$7.02	\$5.13	\$4.52	\$4.32	\$5.05	\$7.65	\$33.71	\$116.87
10.35%	10.65%	10.81%	10.87%	10.67%	10.29%	10.56%	17.22%
\$6.83	\$5.01	\$4.43	\$4.23	\$4.93	\$7.44	\$32.87	\$97.62
21.31%	19.42%	18.60%	18.30%	19.32%	21.79%	19.99%	23.51%
\$0.19	\$0.12	\$0.10	\$0.09	\$0.12	\$0.22	\$0.84	\$19.25
0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	0.54%	7.31%

211 Winter Season (Jan. - Apr., Nov. - Dec.)

212 Commercial/Industrial - Low Annual Use, High Winter Use (G-41)

213 PROPOSED

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
214 average Usage (Therms)	266	421	523	495	351	196	2,252
215 <b>Winter:</b>							
216 Cust. Chg	\$67.38	\$67.38	\$67.38	\$67.38	\$67.38	\$67.38	\$404.28
217 Headblock	\$65.29	\$65.29	\$65.29	\$65.29	\$65.29	\$65.29	\$391.74
218 Tailblock	\$74.45	\$144.34	\$190.01	\$177.43	\$112.55	\$43.07	\$741.85
219 HB Threshold							
220 <b>Summer:</b>							
221 Cust. Chg							
222 Headblock							
223 Tailblock							
224 HB Threshold							
225 Total Base Rate Amount	\$207.12	\$277.01	\$322.68	\$310.10	\$245.22	\$175.74	\$1,537.87
226 COG Rate - (Winter)	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547
227 COG amount - Winter	\$41.1253	\$65.2049	\$80.9428	\$76.6063	\$54.2531	\$30.3127	\$348.45
228 COG Rate - (Summer)							
229 COG amount - Summer							
230 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982
231 LDAC amount	\$26.10	\$41.38	\$51.37	\$48.62	\$34.43	\$19.24	\$221.13
232 <b>Total Bill</b>	<b>\$274.34</b>	<b>\$383.59</b>	<b>\$454.99</b>	<b>\$435.32</b>	<b>\$333.90</b>	<b>\$225.29</b>	<b>\$2,107.44</b>

Summer Season (May - Oct.)

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
72	72	36	27	25	44	104	308	2,560
\$67.38	\$67.38	\$67.38	\$67.38	\$67.38	\$67.38	\$67.38	\$404.28	\$808.56
\$13.06	\$13.06	\$13.06	\$13.06	\$13.06	\$13.06	\$13.06	\$78.35	\$470.09
\$23.50	\$7.16	\$2.92	\$2.19	\$10.81	\$37.94		\$84.52	\$826.37
\$103.93	\$87.60	\$83.36	\$82.62	\$91.25	\$118.38		\$567.15	\$2,105.01
\$1.2054	\$1.2054	\$1.2054	\$1.2054	\$1.2054	\$1.2054	\$1.2054	\$1.2054	\$0.2812
\$87.17	\$43.34	\$31.95	\$29.97	\$53.13	\$125.93		\$371.49	\$719.93
\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.0990
\$7.59	\$3.77	\$2.78	\$2.61	\$4.62	\$10.96		\$32.33	\$253.46
<b>\$198.69</b>	<b>\$134.71</b>	<b>\$118.08</b>	<b>\$115.21</b>	<b>\$149.01</b>	<b>\$255.27</b>		<b>\$970.97</b>	<b>\$3,078.41</b>

241 Winter Season (Jan. - Apr., Nov. - Dec.)

242 Commercial/Industrial - Low Annual Use, High Winter Use (G-41)

243 CURRENT

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
244 average Usage (Therms)	266	421	523	495	351	196	2,252
245 <b>Winter:</b>							
246 Cust. Chg	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$364.89
247 Headblock	\$49.28	\$49.28	\$49.28	\$49.28	\$49.28	\$49.28	\$295.68
248 Tailblock	\$56.20	\$108.95	\$143.43	\$133.93	\$84.96	\$32.51	\$559.98
249 HB Threshold							
250 <b>Summer:</b>							
251 Cust. Chg							
252 Headblock							
253 Tailblock							
254 HB Threshold							
255 Total Base Rate Amount	\$166.29	\$219.05	\$253.53	\$244.02	\$195.05	\$142.60	\$1,220.55
256 COG Rate - (Winter)	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327
257 COG amount - Winter	\$35.2684	\$55.9187	\$69.4152	\$65.6963	\$46.5266	\$25.9956	\$298.82
258 COG Rate - (Summer)							
259 COG amount - Summer							
260 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890
261 LDAC amount	\$23.65	\$37.50	\$46.56	\$44.06	\$31.20	\$17.43	\$200.41
262 <b>Total Bill</b>	<b>\$225.21</b>	<b>\$312.47</b>	<b>\$369.50</b>	<b>\$353.78</b>	<b>\$272.78</b>	<b>\$186.03</b>	<b>\$1,719.78</b>

Summer Season (May - Oct.)

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
72	72	36	27	25	44	104	308	2,560
\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$60.81	\$364.89	\$729.78
\$9.86	\$9.86	\$9.86	\$9.86	\$9.86	\$9.86	\$9.86	\$59.14	\$354.82
\$17.74	\$5.41	\$2.20	\$1.65	\$8.16	\$28.64		\$63.80	\$623.78
\$88.41	\$76.08	\$72.88	\$72.32	\$78.83	\$99.31		\$487.82	\$1,708.37
\$1.2074	\$1.2074	\$1.2074	\$1.2074	\$1.2074	\$1.2074	\$1.2074	\$1.2074	\$0.2621
\$87.32	\$43.41	\$32.00	\$30.02	\$53.22	\$126.15		\$372.12	\$670.94
\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0898
\$6.92	\$3.44	\$2.54	\$2.38	\$4.22	\$10.00		\$29.49	\$229.91
<b>\$182.65</b>	<b>\$122.93</b>	<b>\$107.41</b>	<b>\$104.72</b>	<b>\$136.27</b>	<b>\$235.45</b>		<b>\$889.44</b>	<b>\$2,609.22</b>

272 DIFFERENCE:

273 Total Bill	\$49.13	\$71.12	\$85.50	\$81.54	\$61.12	\$39.25	\$387.66
274 % Change	21.81%	22.76%	23.14%	23.05%	22.41%	21.10%	22.54%
275 <b>Base Rate</b>	\$40.83	\$57.96	\$69.16	\$66.07	\$50.17	\$33.13	\$317.32
276 % Change	24.55%	26.46%	27.28%	27.08%	25.72%	23.23%	26.00%
277 <b>COG &amp; LDAC</b>	\$8.30	\$13.16	\$16.34	\$15.46	\$10.95	\$6.12	\$70.34
278 % Change	14.09%	14.09%	14.09%	14.09%	14.09%	14.09%	14.09%

\$16.05	\$11.78	\$10.67	\$10.48	\$12.73	\$19.82	\$81.53	\$469.19
8.78%	9.58%	9.94%	10.01%	9.34%	8.42%	9.17%	17.98%
\$15.53	\$11.52	\$10.48	\$10.30	\$12.42	\$19.07	\$79.33	\$396.65
17.56%	15.15%	14.39%	14.25%	15.75%	19.20%	16.26%	23.22%
\$0.52	\$0.26	\$0.19	\$0.18	\$0.32	\$0.75	\$2.21	\$72.55
0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	8.05%

281 Winter Season (Jan. - Apr., Nov. - Dec.)

282 Commercial/Industrial - Medium Annual Use, High Winter Use (G-42)

283 PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
284 average Usage (Therms)	2,572	3,720	4,472	4,295	3,196	1,965	20,220
285 Winter:							
286 Cust. Chg	\$202.13	\$202.13	\$202.13	\$202.13	\$202.13	\$202.13	\$1,212.78
287 Headblock	\$566.70	\$566.70	\$566.70	\$566.70	\$566.70	\$566.70	\$3,400.20
288 Tailblock	\$608.45	\$1,052.54	\$1,343.67	\$1,275.30	\$850.01	\$373.30	\$5,503.26
289 HB Threshold							
290 Summer:							
291 Cust. Chg							
292 Headblock							
293 Tailblock							
294 HB Threshold							
295 Total Base Rate Amount	\$1,377.28	\$1,821.37	\$2,112.50	\$2,044.13	\$1,618.84	\$1,142.13	\$10,116.24
296 COG Rate - (Winter)	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547
297 COG amount - Winter	\$398.0172	\$575.5805	\$691.9858	\$664.6517	\$494.6037	\$303.9953	\$3,128.83
298 COG Rate - (Summer)							
299 COG amount - Summer							
300 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982
301 LDAC amount	\$252.59	\$365.28	\$439.15	\$421.80	\$313.89	\$192.92	\$1,985.64
302 Total Bill	\$2,027.89	\$2,762.22	\$3,243.63	\$3,130.59	\$2,427.33	\$1,639.05	\$15,230.71

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
819	445	333	333	570	1,228	3,728	23,949
\$202.13	\$202.13	\$202.13	\$202.13	\$202.13	\$202.13	\$1,212.78	\$2,425.56
\$226.68	\$226.68	\$188.48	\$188.97	\$226.68	\$226.68	\$1,284.17	\$4,684.37
\$162.09	\$17.50	\$0.00	\$0.00	\$65.95	\$320.44	\$565.97	\$6,069.24
\$590.90	\$446.31	\$390.61	\$391.10	\$494.76	\$749.25	\$3,062.92	\$13,179.16
\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$0,3183
\$986.98	\$536.65	\$400.89	\$401.93	\$687.54	\$1,480.18	\$4,494.16	\$7,623.00
\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.0992
\$65.89	\$46.70	\$34.89	\$34.98	\$59.84	\$128.82	\$391.12	\$2,376.76
\$1,663.77	\$1,029.67	\$826.38	\$828.01	\$1,242.13	\$2,358.25	\$7,948.20	\$23,178.92

311 Winter Season (Jan. - Apr., Nov. - Dec.)

312 Commercial/Industrial - Medium Annual Use, High Winter Use (G-42)

313 CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
314 average Usage (Therms)	2,572	3,720	4,472	4,295	3,196	1,965	20,220
315 Winter:							
316 Cust. Chg	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$1,094.53
317 Headblock	\$448.50	\$448.50	\$448.50	\$448.50	\$448.50	\$448.50	\$2,691.00
318 Tailblock	\$481.57	\$833.05	\$1,063.48	\$1,009.37	\$672.76	\$295.45	\$4,355.68
319 HB Threshold							
320 Summer:							
321 Cust. Chg							
322 Headblock							
323 Tailblock							
324 HB Threshold							
325 Total Base Rate Amount	\$1,112.49	\$1,463.97	\$1,694.40	\$1,640.29	\$1,303.68	\$926.38	\$8,141.21
326 COG Rate - (Winter)	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327
327 COG amount - Winter	\$341.3331	\$493.6084	\$593.4356	\$569.9944	\$424.1640	\$260.7014	\$2,683.24
328 COG Rate - (Summer)							
329 COG amount - Summer							
330 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890
331 LDAC amount	\$228.93	\$331.06	\$398.01	\$382.29	\$284.48	\$174.85	\$1,799.61
332 Total Bill	\$1,682.75	\$2,288.64	\$2,685.84	\$2,592.57	\$2,012.33	\$1,361.93	\$12,624.06

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
819	445	333	333	570	1,228	3,728	23,949
\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$182.42	\$1,094.53	\$2,189.05
\$179.40	\$179.40	\$149.17	\$149.55	\$179.40	\$179.40	\$1,016.32	\$3,707.32
\$128.29	\$13.85	\$0.00	\$0.00	\$52.19	\$253.62	\$447.95	\$4,803.63
\$490.11	\$375.67	\$331.59	\$331.98	\$414.02	\$615.44	\$2,558.80	\$10,700.01
\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$0,3000
\$988.65	\$537.56	\$401.57	\$402.61	\$688.70	\$1,482.69	\$4,501.79	\$7,185.03
\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0900
\$78.36	\$42.61	\$31.83	\$31.91	\$54.59	\$117.52	\$356.82	\$2,156.43
\$1,557.12	\$955.84	\$764.98	\$766.50	\$1,157.31	\$2,215.65	\$7,417.40	\$20,041.46

342 DIFFERENCE:

343 Total Bill	\$345.14	\$473.59	\$557.79	\$538.02	\$415.01	\$277.12	\$2,606.66
344 % Change	20.51%	20.69%	20.77%	20.75%	20.62%	20.35%	20.65%
345 Base Rate	\$264.79	\$357.39	\$418.10	\$403.84	\$315.16	\$215.75	\$1,975.03
346 % Change	23.80%	24.41%	24.68%	24.62%	24.17%	23.29%	24.26%
347 COG & LDAC	\$80.35	\$116.19	\$139.69	\$134.17	\$99.85	\$61.37	\$631.62
348 % Change	14.09%	14.09%	14.09%	14.09%	14.09%	14.09%	14.09%

\$106.65	\$73.82	\$61.40	\$61.51	\$84.82	\$142.59	\$530.80	\$3,137.46
6.85%	7.72%	8.03%	8.02%	7.33%	6.44%	7.16%	15.65%
\$100.79	\$70.64	\$59.02	\$59.12	\$80.74	\$133.81	\$504.12	\$2,479.16
20.56%	18.80%	17.80%	17.81%	19.50%	21.74%	19.70%	23.17%
\$5.86	\$3.19	\$2.38	\$2.39	\$4.08	\$8.79	\$26.68	\$658.30
0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	7.05%

351 Winter Season (Jan. - Apr., Nov. - Dec.)

352 Commercial/Industrial - High Annual Use, High Winter Use (G-43)

353 PROPOSED

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
354 average Usage (Therms)	20,835	27,418	33,202	31,104	25,329	17,425	155,312
355 Winter:							
356 Cust. Chg	\$865.55	\$865.55	\$865.55	\$865.55	\$865.55	\$865.55	\$5,193.30
357 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
358 Tailblock	\$7,231.70	\$9,516.68	\$11,524.48	\$10,796.25	\$8,791.57	\$6,048.27	\$53,908.94
359 HB Threshold							
360 Summer:							
361 Cust. Chg							
362 Headblock							
363 Tailblock							
364 HB Threshold							
365 Total Base Rate Amount	\$8,097.25	\$10,382.23	\$12,390.03	\$11,661.80	\$9,657.12	\$6,913.82	\$59,102.24
366 COG Rate - (Winter)	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547	\$0.1547
367 COG amount - Winter	\$3,223.8909	\$4,242.5361	\$5,137.6090	\$4,812.9639	\$3,919.2788	\$2,696.3171	\$24,032.60
368 COG Rate - (Summer)							
369 COG amount - Summer							
370 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982
371 LDAC amount	\$2,045.96	\$2,692.42	\$3,260.45	\$3,054.43	\$2,487.27	\$1,711.15	\$15,251.68
372 Total Bill	\$13,367.10	\$17,317.19	\$20,788.09	\$19,529.19	\$16,063.67	\$11,321.29	\$98,386.52

Summer Season (May - Oct.)

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
8,580	5,719	4,491	4,834	6,275	13,043	42,943	198,255	
\$865.55	\$865.55	\$865.55	\$865.55	\$865.55	\$865.55	\$5,193.30	\$10,386.60	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
\$1,447.42	\$964.76	\$757.67	\$815.57	\$1,058.63	\$2,200.36	\$7,244.41	\$61,153.36	
\$2,312.97	\$1,830.31	\$1,623.22	\$1,681.12	\$1,924.18	\$3,065.91	\$12,437.71	\$71,539.96	
\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$1,2054	\$0.3823	
\$10,341.78	\$6,893.17	\$5,413.50	\$5,827.19	\$7,563.90	\$15,721.50	\$51,761.04	\$75,793.64	
\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.0997	
\$900.03	\$599.90	\$471.13	\$507.13	\$658.27	\$1,368.22	\$4,504.68	\$19,756.36	
\$13,554.79	\$9,323.38	\$7,507.85	\$8,015.43	\$10,146.36	\$20,155.63	\$68,703.43	\$167,089.95	

381 Winter Season (Jan. - Apr., Nov. - Dec.)

382 Commercial/Industrial - High Annual Use, High Winter Use (G-43)

383 CURRENT

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
384 average Usage (Therms)	20,835	27,418	33,202	31,104	25,329	17,425	155,312
385 Winter:							
386 Cust. Chg	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$4,687.02
387 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
388 Tailblock	\$5,762.86	\$7,583.74	\$9,183.72	\$8,603.40	\$7,005.90	\$4,819.80	\$42,959.42
389 HB Threshold							
390 Summer:							
391 Cust. Chg							
392 Headblock							
393 Tailblock							
394 HB Threshold							
395 Total Base Rate Amount	\$6,544.03	\$8,364.91	\$9,964.89	\$9,384.57	\$7,787.07	\$5,600.97	\$47,646.43
396 COG Rate - (Winter)	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327	\$0.1327
397 COG amount - Winter	\$2,764.7559	\$3,638.3292	\$4,405.9290	\$4,127.5187	\$3,361.1090	\$2,312.3172	\$20,609.96
398 COG Rate - (Summer)							
399 COG amount - Summer							
400 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890
401 LDAC amount	\$1,854.28	\$2,440.18	\$2,954.99	\$2,768.27	\$2,254.25	\$1,550.84	\$13,822.81
402 Total Bill	\$11,163.07	\$14,443.41	\$17,325.81	\$16,280.36	\$13,402.42	\$9,464.12	\$82,079.20

Summer Season (May - Oct.)

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
8,580	5,719	4,491	4,834	6,275	13,043	42,943	198,255	
\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$781.17	\$4,687.02	\$9,374.03	
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
\$1,153.13	\$768.60	\$603.62	\$649.75	\$843.39	\$1,752.99	\$5,771.48	\$48,730.90	
\$1,934.30	\$1,549.77	\$1,384.79	\$1,430.91	\$1,624.56	\$2,534.15	\$10,458.50	\$58,104.93	
\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$1,2074	\$0.3655	
\$10,359.33	\$6,904.86	\$5,422.69	\$5,837.07	\$7,576.74	\$15,748.18	\$51,848.87	\$72,458.83	
\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0905	
\$821.09	\$547.29	\$429.81	\$462.65	\$600.54	\$1,248.22	\$4,109.61	\$17,932.41	
\$13,114.73	\$9,001.93	\$7,237.29	\$7,730.64	\$9,801.84	\$19,530.55	\$66,416.98	\$148,496.17	

412 DIFFERENCE:

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
413 Total Bill	\$2,204.04	\$2,873.78	\$3,462.27	\$3,248.83	\$2,661.24	\$1,857.17	\$16,307.32
414 % Change	19.74%	19.90%	19.98%	19.96%	19.86%	19.62%	19.87%
415 Base Rate	\$1,553.22	\$2,017.33	\$2,425.13	\$2,277.22	\$1,870.05	\$1,312.85	\$11,455.81
416 % Change	23.73%	24.12%	24.34%	24.27%	24.01%	23.44%	24.04%
417 COG & LDAC	\$650.81	\$856.45	\$1,037.14	\$971.60	\$791.19	\$544.31	\$4,851.51
418 % Change	14.09%	14.09%	14.09%	14.09%	14.09%	14.09%	14.09%

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
\$440.06	\$321.45	\$270.56	\$284.79	\$344.52	\$625.08	\$2,286.45	\$18,593.78	
3.36%	3.57%	3.74%	3.68%	3.51%	3.20%	3.44%	12.52%	
\$378.67	\$280.54	\$238.43	\$250.20	\$299.62	\$531.76	\$1,979.22	\$13,435.03	
19.58%	18.10%	17.22%	17.49%	18.44%	20.98%	18.92%	23.12%	
\$61.39	\$40.92	\$32.13	\$34.59	\$44.90	\$93.32	\$307.24	\$5,158.75	
0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	5.71%	

421 Winter Season (Jan. - Apr., Nov. - Dec.)

422 Commercial/Industrial - Low Annual Use, Low Winter Use (G-51)

423 PROPOSED

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
424 average Usage (Therms)	289	347	393	372	315	255	1,972
425 Winter:							
426 Cust. Chg	\$67.45	\$67.45	\$67.45	\$67.45	\$67.45	\$67.45	\$404.70
427 Headblock	\$40.33	\$40.33	\$40.33	\$40.33	\$40.33	\$40.33	\$241.98
428 Tailblock	\$50.96	\$66.51	\$78.99	\$73.37	\$57.80	\$41.75	\$369.38
429 HB Threshold							
430 Summer:							
431 Cust. Chg							
432 Headblock							
433 Tailblock							
434 HB Threshold							
435 Total Base Rate Amount	\$158.74	\$174.29	\$186.77	\$181.15	\$165.58	\$149.53	\$1,016.06
436 COG Rate - (Winter)	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542
437 COG amount - Winter	\$44.6121	\$53.5167	\$60.6618	\$57.4442	\$48.5257	\$39.3382	\$304.10
438 COG Rate - (Summer)							
439 COG amount - Summer							
440 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982
441 LDAC amount	\$28.40	\$34.07	\$38.62	\$36.57	\$30.90	\$25.05	\$193.61
442 Total Bill	\$231.76	\$261.88	\$286.05	\$275.17	\$245.00	\$213.92	\$1,513.77

Summer Season (May - Oct.)

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
205	205	205	186	174	196	257	1,223	3,195
\$67.45	\$67.45	\$67.45	\$67.45	\$67.45	\$67.45	\$67.45	\$404.70	\$809.40
\$40.33	\$40.33	\$40.33	\$40.33	\$40.33	\$40.33	\$40.33	\$241.98	\$483.96
\$28.21	\$28.28	\$23.15	\$19.96	\$25.93	\$42.36		\$167.88	\$537.26
\$135.99	\$136.06	\$130.93	\$127.74	\$133.71	\$150.14		\$814.56	\$1,830.62
\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$0.5565
\$246.66	\$247.01	\$224.04	\$209.76	\$236.47	\$309.97		\$1,473.91	\$1,778.00
\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1008
\$21.48	\$21.51	\$19.51	\$18.26	\$20.59	\$26.99		\$128.34	\$321.95
\$404.12	\$404.58	\$374.48	\$355.76	\$390.76	\$487.10		\$2,416.80	\$3,930.58

451 Winter Season (Jan. - Apr., Nov. - Dec.)

452 Commercial/Industrial - Low Annual Use, Low Winter Use (G-51)

453 CURRENT

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
454 average Usage (Therms)	289	347	393	372	315	255	1,972
455 Winter:							
456 Cust. Chg	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$365.22
457 Headblock	\$29.70	\$29.70	\$29.70	\$29.70	\$29.70	\$29.70	\$178.20
458 Tailblock	\$37.53	\$48.98	\$58.16	\$54.03	\$42.56	\$30.75	\$271.99
459 HB Threshold							
460 Summer:							
461 Cust. Chg							
462 Headblock							
463 Tailblock							
464 HB Threshold							
465 Total Base Rate Amount	\$128.10	\$139.55	\$148.73	\$144.60	\$133.13	\$121.32	\$815.42
466 COG Rate - (Winter)	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322
467 COG amount - Winter	\$38.2380	\$45.8703	\$51.9946	\$49.2367	\$41.5924	\$33.7176	\$260.65
468 COG Rate - (Summer)							
469 COG amount - Summer							
470 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890
471 LDAC amount	\$25.74	\$30.88	\$35.00	\$33.15	\$28.00	\$22.70	\$175.48
472 Total Bill	\$192.08	\$216.30	\$235.73	\$226.98	\$202.72	\$177.73	\$1,251.54

Summer Season (May - Oct.)

	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
205	205	205	186	174	196	257	1,223	3,195
\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$60.87	\$365.22	\$730.45
\$29.70	\$29.70	\$29.70	\$29.70	\$29.70	\$29.70	\$29.70	\$178.20	\$356.40
\$20.77	\$20.83	\$17.05	\$14.70	\$19.09	\$31.19		\$123.62	\$395.62
\$111.34	\$111.40	\$107.62	\$105.27	\$109.66	\$121.76		\$667.05	\$1,482.46
\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$0.5437
\$247.08	\$247.43	\$224.42	\$210.12	\$236.87	\$310.50		\$1,476.41	\$1,737.06
\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0916
\$19.59	\$19.62	\$17.80	\$16.66	\$18.78	\$24.62		\$117.08	\$292.56
\$378.01	\$378.44	\$349.83	\$332.05	\$365.31	\$456.88		\$2,260.53	\$3,512.08

482 DIFFERENCE:

483 Total Bill	\$39.68	\$45.58	\$50.32	\$48.19	\$42.27	\$36.18	\$262.23
484 % Change	20.66%	21.07%	21.35%	21.23%	20.85%	20.36%	20.95%
485 Base Rate	\$30.65	\$34.74	\$38.03	\$36.55	\$32.45	\$28.22	\$200.64
486 % Change	23.92%	24.90%	25.57%	25.28%	24.37%	23.26%	24.61%
487 COG & LDAC	\$9.04	\$10.84	\$12.29	\$11.63	\$9.83	\$7.97	\$61.59
488 % Change	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%

\$26.11	\$26.13	\$24.64	\$23.72	\$25.45	\$30.22	\$156.27	\$418.50
6.91%	6.91%	7.04%	7.14%	6.97%	6.61%	6.91%	11.92%
\$24.65	\$24.67	\$23.31	\$22.47	\$24.05	\$28.38	\$147.52	\$348.16
22.14%	22.14%	21.66%	21.35%	21.93%	23.31%	22.12%	23.49%
\$1.46	\$1.47	\$1.33	\$1.25	\$1.40	\$1.84	\$8.75	\$70.34
0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%



491 Winter Season (Jan. - Apr., Nov. - Dec.)

492 Commercial/Industrial - Medium Annual Use, Low Winter Use (G-52)

493 PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
494 average Usage (Therms)	1,916	2,288	2,709	2,529	2,176	1,766	13,384
495 Winter:							
496 Cust. Chg	\$201.95	\$201.95	\$201.95	\$201.95	\$201.95	\$201.95	\$1,211.70
497 Headblock	\$332.10	\$332.10	\$332.10	\$332.10	\$332.10	\$332.10	\$1,992.60
498 Tailblock	\$207.82	\$292.24	\$387.83	\$346.93	\$266.88	\$173.81	\$1,675.50
499 HB Threshold							
500 Summer:							
501 Cust. Chg							
502 Headblock							
503 Tailblock							
504 HB Threshold							
505 Total Base Rate Amount	\$741.87	\$826.29	\$921.88	\$880.98	\$800.93	\$707.86	\$4,879.80
506 COG Rate - (Winter)	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542
507 COG amount - Winter	\$295.5010	\$352.8924	\$417.8672	\$390.0652	\$335.6478	\$272.3834	\$2,064.36
508 COG Rate - (Summer)							
509 COG amount - Summer							
510 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982
511 LDAC amount	\$188.14	\$224.68	\$266.05	\$248.35	\$213.70	\$173.42	\$1,314.34
512 Total Bill	\$1,225.51	\$1,403.87	\$1,605.80	\$1,519.39	\$1,350.27	\$1,153.66	\$8,258.50

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
1,399	1,382	1,237	1,246	1,341	1,653	8,259	21,644
\$201.95	\$201.95	\$201.95	\$201.95	\$201.95	\$201.95	\$1,211.70	\$2,423.40
\$245.30	\$245.30	\$245.30	\$245.30	\$245.30	\$245.30	\$1,471.80	\$3,464.40
\$58.63	\$56.13	\$34.78	\$36.18	\$50.06	\$95.87	\$331.65	\$2,007.15
\$505.88	\$503.38	\$482.03	\$483.43	\$497.31	\$543.12	\$3,015.15	\$7,894.95
\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$0.5551
\$1,685.95	\$1,665.38	\$1,490.18	\$1,501.67	\$1,615.55	\$1,991.58	\$9,950.32	\$12,014.67
\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1008
\$146.80	\$145.01	\$129.75	\$130.75	\$140.67	\$173.41	\$866.39	\$2,180.73
\$2,338.63	\$2,313.77	\$2,101.96	\$2,115.85	\$2,253.53	\$2,708.11	\$13,831.86	\$22,090.35

521 Winter Season (Jan. - Apr., Nov. - Dec.)

522 Commercial/Industrial - Medium Annual Use, Low Winter Use (G-52)

523 CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
524 average Usage (Therms)	1,916	2,288	2,709	2,529	2,176	1,766	13,384
525 Winter:							
526 Cust. Chg	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$1,093.58
527 Headblock	\$256.00	\$256.00	\$256.00	\$256.00	\$256.00	\$256.00	\$1,536.00
528 Tailblock	\$160.19	\$225.27	\$298.95	\$267.42	\$205.71	\$133.97	\$1,291.52
529 HB Threshold							
530 Summer:							
531 Cust. Chg							
532 Headblock							
533 Tailblock							
534 HB Threshold							
535 Total Base Rate Amount	\$598.45	\$663.53	\$737.21	\$705.68	\$643.98	\$572.24	\$3,921.10
536 COG Rate - (Winter)	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322
537 COG amount - Winter	\$253.2804	\$302.4718	\$358.1631	\$334.3335	\$287.6911	\$233.4658	\$1,769.41
538 COG Rate - (Summer)							
539 COG amount - Summer							
540 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890
541 LDAC amount	\$170.51	\$203.63	\$241.12	\$225.08	\$193.68	\$157.17	\$1,191.20
542 Total Bill	\$1,022.25	\$1,169.63	\$1,336.50	\$1,265.10	\$1,125.35	\$962.88	\$6,881.70

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
1,399	1,382	1,237	1,246	1,341	1,653	8,259	21,644
\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$182.26	\$1,093.58	\$2,187.16
\$189.10	\$189.10	\$189.10	\$189.10	\$189.10	\$189.10	\$1,134.60	\$2,670.60
\$45.21	\$43.28	\$26.82	\$27.90	\$38.60	\$73.93	\$255.74	\$1,547.26
\$416.58	\$414.64	\$398.18	\$399.26	\$409.96	\$445.29	\$2,483.92	\$6,405.02
\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$0.5423
\$1,688.81	\$1,668.21	\$1,492.71	\$1,504.22	\$1,618.29	\$1,994.96	\$9,967.21	\$11,736.61
\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0916
\$133.92	\$132.29	\$118.37	\$119.29	\$128.33	\$158.20	\$790.41	\$1,981.61
\$2,239.31	\$2,215.15	\$2,009.27	\$2,022.76	\$2,156.59	\$2,598.46	\$13,241.54	\$20,123.24

551 DIFFERENCE:

552 Total Bill	\$203.26	\$234.23	\$269.30	\$254.29	\$224.93	\$190.78	\$1,376.79
553 % Change	19.88%	20.03%	20.15%	20.10%	19.99%	19.81%	20.01%
554 Base Rate	\$143.41	\$162.76	\$184.67	\$175.29	\$156.95	\$135.62	\$958.70
555 % Change	23.96%	24.53%	25.05%	24.84%	24.37%	23.70%	24.45%
556 COG & LDAC	\$59.85	\$71.47	\$84.63	\$79.00	\$67.98	\$55.16	\$418.09
557 % Change	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%

\$99.32	\$98.62	\$92.70	\$93.09	\$96.94	\$109.66	\$590.32	\$1,967.11
4.44%	4.45%	4.61%	4.60%	4.49%	4.22%	4.46%	9.78%
\$89.31	\$88.73	\$83.85	\$84.17	\$87.34	\$97.83	\$531.23	\$1,489.93
21.44%	21.40%	21.06%	21.08%	21.31%	21.97%	21.39%	23.26%
\$10.01	\$9.89	\$8.85	\$8.92	\$9.59	\$11.83	\$59.09	\$477.18
0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	3.48%

561 Winter Season (Jan. - Apr., Nov. - Dec.)

562 Commercial/Industrial - High Annual Use, Load Factor Less Than 90% (G-53)

563 PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
564 average Usage (Therms)	26,393	30,514	34,284	31,537	28,621	23,002	174,351
565 Winter:							
566 Cust. Chg	\$892.79	\$892.79	\$892.79	\$892.79	\$892.79	\$892.79	\$5,356.74
567 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
568 Tailblock	\$5,951.65	\$6,880.83	\$7,731.02	\$7,111.63	\$6,454.15	\$5,186.86	\$39,316.13
569 HB Threshold							
570 Summer:							
571 Cust. Chg							
572 Headblock							
573 Tailblock							
574 HB Threshold							
575 Total Base Rate Amount	\$6,844.44	\$7,773.62	\$8,623.81	\$8,004.42	\$7,346.94	\$6,079.65	\$44,672.87
576 COG Rate - (Winter)	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542
577 COG amount - Winter	\$4,070.8011	\$4,706.3385	\$5,287.8480	\$4,864.1999	\$4,414.4966	\$3,547.6987	\$26,891.38
578 COG Rate - (Summer)							
579 COG amount - Summer							
580 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982
581 LDAC amount	\$2,591.81	\$2,996.44	\$3,366.68	\$3,096.95	\$2,810.63	\$2,258.76	\$17,121.26
582 Total Bill	\$13,507.05	\$15,476.40	\$17,278.33	\$15,965.57	\$14,572.06	\$11,886.10	\$88,685.52

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
18,412	20,467	17,338	18,127	19,178	22,948	116,471	290,822
\$892.79	\$892.79	\$892.79	\$892.79	\$892.79	\$892.79	\$5,356.74	\$10,713.48
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$2,104.51	\$2,339.43	\$1,981.79	\$2,071.87	\$2,192.08	\$2,622.93	\$13,312.62	\$52,628.75
\$2,997.30	\$3,232.22	\$2,874.58	\$2,964.66	\$3,084.87	\$3,515.72	\$18,669.36	\$63,342.23
\$1,2048	\$1,2048	\$1,2048	\$1,2048	\$1,2048	\$1,2048	\$1,2048	\$0.5750
\$22,182.15	\$24,658.29	\$20,888.63	\$21,838.11	\$23,105.18	\$27,646.43	\$140,318.79	\$167,210.17
\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1009
\$1,931.44	\$2,147.04	\$1,818.81	\$1,901.48	\$2,011.81	\$2,407.22	\$12,217.79	\$29,339.05
\$27,110.89	\$30,037.56	\$25,582.01	\$26,704.25	\$28,201.85	\$33,569.37	\$171,205.94	\$259,891.46

591 Winter Season (Jan. - Apr., Nov. - Dec.)

592 Commercial/Industrial - High Annual Use, Load Factor Less Than 90% (G-53)

593 CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter
594 average Usage (Therms)	26,393	30,514	34,284	31,537	28,621	23,002	174,351
595 Winter:							
596 Cust. Chg	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$4,834.52
597 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
598 Tailblock	\$4,724.37	\$5,461.94	\$6,136.82	\$5,645.15	\$5,123.25	\$4,117.28	\$31,208.82
599 HB Threshold							
600 Summer:							
601 Cust. Chg							
602 Headblock							
603 Tailblock							
604 HB Threshold							
605 Total Base Rate Amount	\$5,530.13	\$6,267.70	\$6,942.57	\$6,450.90	\$5,929.00	\$4,923.04	\$36,043.34
606 COG Rate - (Winter)	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322
607 COG amount - Winter	\$3,489.1727	\$4,033.9057	\$4,532.3302	\$4,169.2122	\$3,783.7616	\$3,040.8102	\$23,049.19
608 COG Rate - (Summer)							
609 COG amount - Summer							
610 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890
611 LDAC amount	\$2,348.99	\$2,715.72	\$3,051.27	\$2,806.81	\$2,547.31	\$2,047.14	\$15,517.23
612 Total Bill	\$11,368.29	\$13,017.32	\$14,526.17	\$13,426.92	\$12,260.08	\$10,010.99	\$74,609.76

Summer Season (May - Oct.)

May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
18,412	20,467	17,338	18,127	19,178	22,948	116,471	290,822
\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$805.75	\$4,834.52	\$9,669.04
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$1,669.98	\$1,856.40	\$1,572.60	\$1,644.08	\$1,739.47	\$2,081.36	\$10,563.91	\$41,772.72
\$2,475.74	\$2,662.15	\$2,378.35	\$2,449.84	\$2,545.23	\$2,887.12	\$15,398.43	\$51,441.77
\$1,2068	\$1,2068	\$1,2068	\$1,2068	\$1,2068	\$1,2068	\$1,2068	\$0.5626
\$22,219.81	\$24,700.16	\$20,924.09	\$21,875.19	\$23,144.40	\$27,693.37	\$140,557.02	\$163,606.21
\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0917
\$1,762.04	\$1,958.74	\$1,659.29	\$1,734.72	\$1,835.37	\$2,196.10	\$11,146.26	\$26,663.49
\$26,457.59	\$29,321.05	\$24,961.74	\$26,059.74	\$27,525.00	\$32,776.59	\$167,101.71	\$241,711.47

622 DIFFERENCE:

623 Total Bill	\$2,138.76	\$2,459.08	\$2,752.17	\$2,538.64	\$2,311.99	\$1,875.11	\$14,075.75
624 % Change	18.81%	18.89%	18.95%	18.91%	18.86%	18.73%	18.87%
625 Base Rate	\$1,314.32	\$1,505.92	\$1,681.24	\$1,553.51	\$1,417.94	\$1,156.61	\$8,629.54
626 % Change	23.77%	24.03%	24.22%	24.08%	23.92%	23.49%	23.94%
627 COG & LDAC	\$824.45	\$953.16	\$1,070.93	\$985.13	\$894.05	\$718.50	\$5,446.22
628 % Change	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%

\$653.30	\$716.51	\$620.28	\$644.51	\$676.86	\$792.79	\$4,104.24	\$18,179.99
2.47%	2.44%	2.48%	2.47%	2.46%	2.42%	2.46%	7.52%
\$521.56	\$570.07	\$496.22	\$514.82	\$539.64	\$628.60	\$3,270.93	\$11,900.47
21.07%	21.41%	20.86%	21.01%	21.20%	21.77%	21.24%	23.13%
\$131.73	\$146.44	\$124.05	\$129.69	\$137.21	\$164.18	\$833.31	\$6,279.52
0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	3.30%

631 Winter Season (Jan. - Apr., Nov. - Dec.)

Summer Season (May - Oct.)

632 Commercial/Industrial - High Annual Use, Load Factor Greater Than 90% (G-54)

633 PROPOSED	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
634 average Usage (Therms)	49,645	38,470	49,085	44,097	46,513	54,074	281,883	48,707	52,212	51,948	60,402	51,600	63,956	328,826	610,709
637 Winter:															
638 Cust. Chg	\$893.53	\$893.53	\$893.53	\$893.53	\$893.53	\$893.53	\$5,361.18								
639 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
640 Tailblock	\$4,299.29	\$3,331.49	\$4,250.74	\$3,818.77	\$4,027.99	\$4,682.83	\$24,411.11								
641 HB Threshold															
642															
643 Summer:															
644 Cust. Chg								\$893.53	\$893.53	\$893.53	\$893.53	\$893.53	\$893.53	\$5,361.18	\$10,722.36
645 Headblock								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
646 Tailblock								\$2,386.63	\$2,558.40	\$2,545.47	\$2,959.72	\$2,528.40	\$3,133.85	\$16,112.48	\$40,523.58
647 HB Threshold															
648															
649 Total Base Rate Amount	\$5,192.82	\$4,225.02	\$5,144.27	\$4,712.30	\$4,921.52	\$5,576.36	\$29,772.29	\$3,280.16	\$3,451.93	\$3,439.00	\$3,853.25	\$3,421.93	\$4,027.38	\$21,473.66	\$51,245.94
650															
651 COG Rate - (Winter)	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542	\$0.1542								
652 COG amount - Winter	\$7,657.1612	\$5,933.4879	\$7,570.6844	\$6,801.3318	\$7,173.9626	\$8,340.2590	\$43,476.89								
653															
654 COG Rate - (Summer)								\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$1.2048	\$0.7199
655 COG amount - Summer								\$58,679.76	\$62,903.01	\$62,585.05	\$72,770.02	\$62,165.33	\$77,051.54	\$396,154.70	\$439,631.59
656															
657 LDAC	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.0982	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1049	\$0.1018
658 LDAC amount	\$4,875.18	\$3,777.75	\$4,820.12	\$4,330.29	\$4,567.53	\$5,310.09	\$27,680.95	\$5,109.35	\$5,477.07	\$5,449.38	\$6,336.21	\$5,412.84	\$6,709.01	\$34,493.85	\$62,174.81
659															
660 Total Bill	\$17,725.16	\$13,936.26	\$17,535.07	\$15,843.91	\$16,663.01	\$19,226.71	\$100,930.13	\$67,069.27	\$71,832.01	\$71,473.43	\$82,959.47	\$71,000.10	\$87,787.93	\$452,122.21	\$553,052.34

661 Winter Season (Jan. - Apr., Nov. - Dec.)

Summer Season (May - Oct.)

662 Commercial/Industrial - High Annual Use, Load Factor Greater Than 90% (G-54)

663 CURRENT	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	Winter	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Summer	Total
664 average Usage (Therms)	49,645	38,470	49,085	44,097	46,513	54,074	281,883	48,707	52,212	51,948	60,402	51,600	63,956	328,826	610,709
667 Winter:															
668 Cust. Chg	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$4,838.52								
669 Headblock	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
670 Tailblock	\$3,385.82	\$2,623.65	\$3,347.58	\$3,007.39	\$3,172.16	\$3,687.87	\$19,224.45								
671 HB Threshold															
672															
673 Summer:															
674 Cust. Chg								\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$806.42	\$4,838.52	\$9,677.03
675 Headblock								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
676 Tailblock								\$1,880.08	\$2,015.39	\$2,005.21	\$2,331.53	\$1,991.76	\$2,468.71	\$12,692.69	\$31,917.14
677 HB Threshold															
678															
679 Total Base Rate Amount	\$4,192.23	\$3,430.07	\$4,154.00	\$3,813.81	\$3,978.58	\$4,494.28	\$24,062.97	\$2,686.50	\$2,821.81	\$2,811.63	\$3,137.95	\$2,798.18	\$3,275.13	\$17,531.20	\$41,594.17
680															
681 COG Rate - (Winter)	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322	\$0.1322								
682 COG amount - Winter	\$6,563.1204	\$5,085.7223	\$6,488.9993	\$5,829.5703	\$6,148.9603	\$7,148.6185	\$37,264.99								
683															
684 COG Rate - (Summer)								\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$1.2068	\$0.7108
685 COG amount - Summer								\$58,779.39	\$63,009.80	\$62,691.30	\$72,893.56	\$62,270.87	\$77,182.35	\$396,827.27	\$434,092.26
686															
687 LDAC	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0890	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0957	\$0.0926
688 LDAC amount	\$4,418.44	\$3,423.82	\$4,368.54	\$3,924.60	\$4,139.62	\$4,812.61	\$25,087.63	\$4,661.24	\$4,996.72	\$4,971.46	\$5,780.51	\$4,938.12	\$6,120.61	\$31,468.65	\$56,556.28
689															
690 Total Bill	\$15,173.79	\$11,939.61	\$15,011.54	\$13,567.97	\$14,267.15	\$16,455.51	\$86,415.58	\$66,127.13	\$70,828.33	\$70,474.39	\$81,812.02	\$70,007.17	\$86,578.09	\$445,827.13	\$532,242.71

691 DIFFERENCE:

692 Total Bill	\$2,551.36	\$1,996.65	\$2,523.53	\$2,275.94	\$2,395.86	\$2,771.20	\$14,514.54	\$942.14	\$1,003.68	\$999.05	\$1,147.45	\$992.93	\$1,209.84	\$6,295.08	\$20,809.63
693 % Change	16.81%	16.72%	16.81%	16.77%	16.79%	16.84%	16.80%	1.42%	1.42%	1.42%	1.40%	1.42%	1.40%	1.41%	3.91%
694															
695															
696 Base Rate	\$1,000.59	\$794.96	\$990.27	\$898.49	\$942.94	\$1,082.08	\$5,709.32	\$593.66	\$630.12	\$627.37	\$715.30	\$623.75	\$752.26	\$3,942.46	\$9,651.78
697 % Change	23.87%	23.18%	23.84%	23.56%	23.70%	24.08%	23.73%	22.10%	22.33%	22.31%	22.79%	22.29%	22.97%	22.49%	23.20%
698															
699 COG & LDAC	\$1,550.78	\$1,201.69	\$1,533.26	\$1,377.45	\$1,452.92	\$1,689.12	\$8,805.22	\$348.48	\$373.56	\$371.67	\$432.16	\$369.18	\$457.58	\$2,352.63	\$11,157.85
700 % Change	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%	14.12%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	0.55%	2.27%

**Revenue Requirement Reconciliation**

Item	Rate Design (KAS-3)		Revenue Requirement (TJC-CDC-1,CDC-1)		Difference	
	Schedule	Amount	Schedule	Amount	\$	%
Distribution Revenues From Proposed Rates [1]	RATES-4	\$119,635,219				
LDAC - GAP Revenues	RATES-4	\$1,620,206				
<b>Total Distribution Revenue Requirement</b>		\$121,255,425	RR-EN-2	\$121,252,410	\$3,015	0.002%
Indirect Revenue in COG - EN	RATES-5	\$6,279,787	CDC-1 pg3 ln 57	\$6,279,787		
Indirect Revenue in COG - Keene	n/a	\$464,372	CDC-1 pg3 ln 58	\$464,372		
<b>Total Indirect Revenue in COG</b>		\$6,744,159	RR-EN-2	\$6,744,159	\$0	0.000%
Miscellaneous Revenue	n/a	\$2,679,566	RR-EN-2	\$2,679,566	\$0	0.000%
<b>Total Revenue Requirement</b>		<b>\$130,679,150</b>		<b>\$130,676,134</b>	<b>\$3,016</b>	<b>0.002%</b>

Notes:

[1] R-4 Rate = 55% of R-3. R-7 = 1.3 x R-4 Rate