Docket No. 20-105 Exhibit 36



STATE OF NEW HAMPSHIRE BEFORE THE PUBLIC UTILITIES COMMISSION

Docket No. DG 20-105

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities Distribution Service Rate Case

DIRECT TESTIMONY

OF

KENNETH A. SOSNICK

July 31, 2020

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ATTACHMENTS

Attachment	Title
KAS-2	Summary of the Functional Cost Study
KAS-3	Functional Cost Study – Account Level Detail

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1 I. INTRODUCTION AND BACKGROUND

2 Q. Please sta	te your full name	e, position, a	and business	address.
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- 3 A. My name is Kenneth A. Sosnick. My business address is 200 State Street, 9th Floor,
- 4 Boston, Massachusetts.

5 Q. By whom are you employed, and in what position?

6 A. I am employed by FTI Consulting ("FTI") as Managing Director.

7 Q. Please describe FTI's Power and Utilities practice.

A. FTI is a worldwide consulting firm dedicated to helping organizations manage change,
mitigate risk, and resolve disputes. Our Power & Utilities practice brings these services
to firms in regulated and competitive energy industries. The services we provide our
utility clients include expert testimony, regulatory advice, support for strategic decisionmaking, and advice regarding investments and capital allocation. Our team is comprised
of former utility executives, regulators, investors, and financial analysts that combine for
hundreds of years of experience in the regulated energy space.

FTI is an independent global business advisory firm dedicated to helping organizations manage change, mitigate risk, and resolve disputes: financial, legal, operational, political and regulatory, reputational and transactional. Individually, each practice is a leader in its specific field, staffed with experts recognized for the depth of their knowledge and a track record of making an impact. FTI's Power and Utilities practice provides a wide array of advisory services that address the strategic, financial, reputational and regulatory needs of energy and utility clients involved in the production and transmission of crude

1	oil, natural gas, refined products, chemicals, coal, electric power, emerging technologies,
2	and renewable energy.

3 Q.	What are your	responsibilities in your	current position?
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- A. As a member of the Power & Utilities practice, my responsibilities include providing
 advisory services that address the strategic, financial, reputational, and regulatory needs
 of energy and utility clients. My primary areas of focus are regulatory, accounting, civil
 litigation, and financial analysis.
- 8 Q. Please describe your education.
- 9 A. I have a Bachelor of Arts in Accounting from Indiana University of Pennsylvania in

10 Indiana, Pennsylvania. A copy of my resume is included as Attachment KAS-1 to the

joint testimony that I am co-sponsoring with Company witness David Simek in this

- 12 proceeding on the topic of revenue requirement.
- 13 Q. On whose behalf are you submitting testimony in this proceeding?
- 14 A. I am testifying on behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp.
- 15 ("EnergyNorth" or "the Company").
- 16 II. <u>SCOPE OF TESTIMONY</u>
- 17 Q. What is the purpose of your testimony in this proceeding?
- 18 A. The purpose of my testimony is to discuss the functional cost of service study performed
- by FTI and used as support for the rates proposed by EnergyNorth in this proceeding.

1	Q.	Are you sponsoring any exhibits to support your testimony?
2	A.	Yes, two attachments are provided with my testimony. Attachment KAS-2 is a summary
3		of the functional cost of service study. Attachment KAS-3 provides the detailed study at
4		the individual account level.
5	III.	FUNCTIONAL COST OF SERVICE STUDY
6	Q.	What is a functional cost of service study and why was such a study performed for
7		this case?
8	А.	A cost of service study provides a measure of the cost responsibility based on cost
9		causation principles of a company's respective functions and various rate classes. A
10		functional cost study is necessary to arrive at the cost responsibility for each of the
11		functions because many of a company's costs are common, or indirect, and incurred to
12		provide service to all customers. In general, costs are first identified based on the
13		function for which they are incurred, then those costs are classified, typically as demand,
14		customer, and commodity, and finally directly assigned or allocated to the various
15		functions.
16		The functional cost of service study separates EnergyNorth's revenue requirement into
17		four functions: delivery, direct gas cost, Liquified Petroleum Gas ("LPG") and Liquefied
18		Natural Gas ("LNG") costs, and miscellaneous indirect costs. The direct costs of
19		purchasing gas, including LPG and LNG costs, as well as related indirect costs,
20		collectively referred to as production costs, are recovered through the Cost of Gas

1		("COG") mechanism rather than through base distribution rates. The costs of delivering
2		gas are recovered through base distribution rates.
3		Therefore, the purpose of a functional cost study is to ensure that there is neither
4		duplication of cost recovery through both distribution rates and the COG mechanism nor
5		stranded costs that are not recovered by either.
6	Q.	What is the relationship between this functional cost study and the marginal cost
7		study that is being filed with this case?
8	А.	The marginal cost study provides the basis for determining the level of distribution
9		revenues to be recovered from the various rate classes as well as the components that are
10		used to design rates. In contrast, this functional cost study divides the Company's total
11		revenue requirement into the costs to be recovered through base rates and those that are
12		recovered through the COG mechanism.
13	Q.	What is included in each of the categories of costs?
14	А.	Purchased gas costs include supplier, storage, and pipeline demand and commodity costs,
15		as well as commodity costs for LPG and LNG, all of which are considered direct costs.
16		Indirect gas costs include the LPG and LNG facility costs and expenses required to
17		provide the supply service. The costs associated with supplying the gas commodity to
18		customers that are not included in direct gas costs are indirect costs. Indirect costs
19		consist of the bad debt expense related to the supply function, working capital related to
20		the supply function, and other operations and maintenance expenses including gas

acquisition, dispatching, and administrative and general expenses related to the supply
 function but not included in direct gas costs.

3 Q. How are costs allocated in the functional cost of service study?

A. Cost are directly assigned to the greatest extent possible or allocated based on certain
factors. Allocation factors can be developed using external factors or internal factors.
External factors, such as the number of customers or sales and transportation revenues,
are based on data from a separate independent analysis. An internal factor is calculated
within the functional cost study based on the combination of previously allocated costs.

9 Q. How are facilities costs treated in the functional study?

10 A. The Company's LPG and LNG facilities provide a dual service, gas supply and pressure support for the distribution system. Company witness Matthew DeCourcey examined 11 this dual functionality and determined that 8.7% of the Tilton LNG facility is required for 12 the pressure support and the remaining 91.3% of the LPG and LNG is utilized for gas 13 supply for the system. These percentages are used to allocate the LPG and LNG facilities 14 costs between pressure support and supply service. All distribution facility costs, which 15 are identified on page 1 of Attachment KAS-2, are directly assigned to delivery service. 16 Intangible and general facility costs, which are set forth on page 1 of Attachment KAS-2, 17 18 are allocated to the functions based on labor, an indirect allocation factor.

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1	Q.	How are other rate base items treated in the functional study?
2	A.	Materials and supplies and accumulated deferred income taxes are allocated to the
3		functions based on plant. Cash working capital is allocated on Operation and
4		Maintenance ("O&M") expenses, excluding gas costs and bad debt.
5	Q.	How are O&M expenses treated in the functional study?
6	А.	Production expenses related to gas acquisition are directly assigned to the supply function
7		and the remaining expenses are allocated between supply and delivery services. All
8		distribution, customer account, customer service, and sales expenses are directly assigned
9		to delivery service. Uncollectible expense is allocated between delivery and production
10		on a revenue basis.
11	Q.	How are Administrative and General expenses treated in the functional study?
12	A.	Administrative and General ("A&G") expenses are allocated on labor except for
13		transferred costs and regulatory commission expense. Regulatory commission expenses
14		are allocated between delivery and production on a revenue basis, and the transferred
15		costs are allocated based on all other A&G costs.
16	Q.	How are depreciation and taxes other than income expenses treated in the
17		functional study?
18	А.	Depreciation expenses are directly assigned to the functions based on the specific plant
19		accounts for each function. General and intangible depreciation expense follows
20		intangible and general facility costs. Taxes other than income are allocated based on
21		specific plant or specific labor factors.

1 **IV.**

RESULTS AND CONCLUSIONS

2 Q. Please describe the results of the functional study.

3 A. Attachment KAS-2, page 1, presents a summary of the results of the functional study, at

4 current rates, and shows the earned return for each function. Pages 2 and 3 present a

5 more detailed summary of the production costs, separating the costs into LPG and LNG

6 costs, miscellaneous production costs, and bad debt costs at current and proposed rates of

- 7 return. The net result of the analysis is that a revenue requirement of \$2,009,237
- 8 associated with the supply function should be recovered through the COG mechanism.
- 9 Attachment KAS-3 provides a detailed view of the allocation of the revenue requirement
- 10 by each account and the external and internal allocation factors used in the study.
- 11 **Q.** Does this complete your testimony?
- 12 A. Yes.

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FUNCTIONAL COST STUDY SUMMARY OF RESULTS

No.	Description			Delivery Costs		Direct Gas Costs			LPG & LNG	Misc		Production Costs	
	(A)		(B)		(C)		(D)		(E)		(F)		(G)
1 2 3	Rate Base Plant in Service Accumulated Reserve Other Rate Base Items	\$	641,189,774 (204,751,433) (80,026,614)	\$	631,599,724 (200,951,293) (79,043,506)	\$	-	\$	9,590,051 (3,800,140) (1,002,362)	Ş	- - 19,254	\$	9,590,051 (3,800,140) (983,108)
4	Total Rate Base	\$	356,411,727	\$	351,604,925	\$	-	\$	4,787,548	\$	19,254	\$	4,806,803
	Revenues at Current Rates												
5 6	Sales Revenue Miscellaneous Revenues	\$	84,591,458 1,197,776	\$	84,591,458 1,197,340		-	\$	- 371	\$	- 65	\$	- 436
7	Total Revenues	\$	85,789,234	\$	85,788,798	Ş	-	\$	371	\$	65	\$	436
8 9 10	Expenses at Current Rates Operations & Maintenance Expenses Depreciation Expense Taxes Other Than Income Taxes Interest on Customer Deposits	\$	27,964,575 22,911,910 14,815,175 -	\$	27,462,472 22,219,362 14,453,671	\$	-	\$	233,771 662,435 361,504	\$	268,332 30,113 -	\$	502,103 692,548 361,504 -
11	Total Expenses - Current	\$	65,691,661	\$	64,135,506	\$	-	\$	1,257,710	\$	298,444	\$	1,556,155
12	Total Income Taxes	\$	3,315,812	\$	3,765,781	\$	-	\$	(369,053)	\$	(80,916)	\$	(449,969)
13	Current Operating Income	\$	16,781,762	\$	17,887,511	\$	-	\$	(888,286)	\$	(217,463)	\$	(1,105,749)
14	Return at Current Rates		4.71%		5.09%		0.00%		-18.55%		-1129.43%		-23.00%
15	Index Rate of Return		1.00		1.08		-		(3.94)		(239.87)	_	(4.89)
	Revenue Requirement at Equal Rates of Return												
16	Required Return		7.47%		7.47%		7.47%		7.47%		7.47%		7.47%
17	Required Operating Income	\$	26,623,956	\$	26,264,888		-	\$	357,630	\$	1,438	\$	359,068
18	Operating Income (Deficiency)/Surplus	\$	(9,842,195)	\$	(8,377,377)	\$	-	\$	(1,245,916)	\$	(218,902)	\$	(1,464,817)
	Expenses at Required Return												
19	Operations & Maintenance Expenses	\$	27,964,575	\$	27,462,472	\$	-	\$	233,771	\$	268,332	\$	502,103
20	Depreciation Expense		22,911,910		22,219,362		-		662,435		30,113		692,548
21	Taxes Other than Income		14,815,175		14,453,671		-		361,504		-		361,504
22	Interest on Customer Deposits		-		-		-		-		-		-
23	Total Expenses Required	\$	65,691,661	\$	64,135,506	\$	-	\$	1,257,710	\$	298,444	\$	1,556,155
24	Income Taxes	\$	6,970,867	\$	6,876,853	\$	-	\$	93,637	\$	377	\$	94,014
	Total Revenue Requirement at Equal Return	\$	99,286,484	\$	97,277,247	\$	-	\$	1,708,977	\$	300,259	\$	2,009,237
25				_									

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Line No.	Description(A)	LPG	& LNG Costs (B)	F	Misc. Production Costs (C)		Debts Excl. PG & LNG (D)	W	Gas Cost Working Capital (E)		otal Indirect Costs (F)
	Summary of Results at Present Rates										
	Rate Base										
1	Gas Plant in Service	\$	9,590,051	\$		\$	-	\$	-	\$	9,590,051
2	Accumulated Reserve		(3,800,140)		-		-		-		(3,800,140)
3	Net Utility Plant in Service	\$	5,789,911	\$	-	\$	-	\$	-	\$	5,789,911
	Other Rate Base Items:										
4	Fuel Stock	\$	-	\$	-	\$	-	\$	-	\$	-
5	Materials and Supplies		77,309.14	\$	-	\$	-	\$	-		77,309.14
6	Gas Stored Underground		-		-		-		-		-
7	LNG Inventory		-		-		-		-		-
8	Cash Working Capital		39,679		19,254		-		-		58,933
9	Accumulated Deferred Income Taxes		(762,973)		-		-		-		(762,973)
10	Excess Accum. Deferred Income Taxes		(356,377)		-		-		-		(356,377)
11	Total Rate Base	\$	4,787,548	\$	19,254	\$	-	\$		\$	4,806,803
	Revenues										
12	Total Sales Revenue	\$	-	\$	-	\$	-	\$	-	\$	-
13	Other Operating Revenues		371		65		-		-		436
14	Total Operating Revenues	\$	371	\$	65	\$	-	\$	-	\$	436
	Expenses										
15	Purchased Gas Costs	\$	-	\$	-	\$	-	\$	-	\$	-
16	Other O&M excl. Uncollectible		204,841		263,249		-		-		468,090
17	Uncollectible Expense		28,930		-		5,083		-		34,013
18	Depreciation Expense		662,435		30,113		-		-		692,548
19	Other Taxes		361,504		-		-		-		361,504
20	Income Taxes	-	(369,053)	-	(79,539)	-	(1,377)	-	-	_	(449,969)
21	Total Operating Expenses	\$	888,657	\$	213,822	\$	3,706	\$	-	\$	1,106,185
22	Operating Income	\$	(888,286)	\$	(213,757)	\$	(3,706)	\$	-	\$	(1,105,749)
23	Rate of Return		-18.55%		-1110.18%		0.00%		0.00%		-23.00%
24	Index Rate of Return		1.00		59.83		-				1.24
25	Net Revenues	\$	-	\$	-	\$	-	\$	-	\$	-

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Line No.	Description	LPG	& LNG Costs	P	Misc. roduction Costs	Debts Excl. 5 & LNG	W	as Cost Iorking Capital	То	otal Indirect Costs
	(A)		(B)		(C)	(D)		(E)		(F)
	Summary of Results at Claimed Rates									
	Rate Base									
26	Gas Plant in Service	\$	9,590,051	\$	-	\$ -	\$	-	\$	9,590,051
27	Accumulated Reserve		(3,800,140)			-		-		(3,800,140)
28	Net Utility Plant in Service	\$	5,789,911	\$	-	\$ -	\$	-	\$	5,789,911
	Other Rate Base Items:									
29	Fuel Stock	\$	-	\$	-	\$ -	\$	-	\$	-
	Materials and Supplies		77,309							77,309
	Gas Stored Underground		-							-
	LNG Inventory		-							-
30	Cash Working Capital		39,679		19,254	-		-		58,933
31	Accumulated Deferred Income Taxes		(762,973)		-	-		-		(762,973)
8	Excess Accum. Deferred Income Taxes		(356,377)			 				(356,377)
9	Total Rate Base	\$	4,787,548	\$	19,254	\$ -	\$		\$	4,806,803
	Required Rate of Return		7.47%		7.47%	7.47%		7.47%		7.47%
10	Required Operating Income	\$	357,630	\$	1,438	\$ -	\$	-	\$	359,068
	Expenses									
11	Purchased Gas Costs	\$	-	\$	-	\$ -	\$	-	\$	-
12	Other O&M excl. Uncollectible		204,841		263,249	-		-		468,090
13	Uncollectible Expense		28,930		-	5,083		-		34,013
14	Depreciation Expense		662,435		30,113	-		-		692,548
15	Other Taxes		361,504		-	 -		-		361,504
17	Total Expenses Required	\$	1,257,710	\$	293,361	\$ 5,083	\$	-	\$	1,556,155
18	Income Taxes		93,637		377	 (0)			\$	94,014
19	Total Rev.Req. at Required Return	\$	1,708,977	\$	295,177	\$ 5,083	\$		\$	2,009,237
20	Revenues									
	Total Sales Revenue	\$	1,708,606	\$	295,111	\$ 5,083	\$	-	\$	2,008,800
	Other Operating Revenues		371		65	 -		-		436
	Total Operating Revenues	\$	1,708,977	\$	295,177	\$ 5,083	\$	-	\$	2,009,237

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				Dellaren Ca				Divert Co		
Assount Description	Amount	Alloc. Factor	DEM	Delivery Co CUS	COM	TOTAL	DEM	Direct Ga CUS	COM	TOTAL
Account Description	Amount	Alloc. Factor	DEW	cos	COM	TOTAL	DEIVI	CUS	COM	TOTAL
RATE BASE										
Plant in Service										
Intangible Plant										
Misc. Intangible Plant	17,059,198	LABOR	8,865,576	6,749,995		15,615,571			-	-
Sub-total	17,310,148		8,995,994	6,849,291	-	15,845,285		-	-	
Production Plant										
Production Plant EN	5,216,322		453,820	-	-	453,820		-	-	-
Production Plant Keene Sub-total	5,216,322	DPROD_K	453,820			453,820				
505-10101	5,210,522		455,620	-	-	455,820	-	-	-	-
Distribution Plant										
Land & Land Rights		DIST			-			-	-	
M&R Stations		DIST						-	-	-
Mains	11,740,462		11,740,462	-	-	11,740,462	-	-	-	-
Compressor Station Equipment	2,246,186		2,246,186		-	2,246,186		-	-	-
M&R Stations	7,435,290 1		7,435,290	178,923,785		7,435,290		-	-	-
Services Meters & Meter Installations	178,923,785 (21,117,103 (-	21,117,103		178,923,785 21,117,103		-	-	-
Other Equipment	2,677,770 1		2,677,770	21,117,105		2,677,770				
Sub-total	578,926,765	0101	352,824,153	226,102,612		578,926,765			-	-
	,,		,,							
General Plant										
Land & Land Rights	121,489 I		63,137	48,071	-	111,208	-	-	-	-
Structures & Improvements	22,653,117		11,772,707	8,963,400	-	20,736,107		-	-	-
Office Furniture & Equipment	2,403,092 1		1,248,875	950,857	-	2,199,732	-	-	-	-
Transportation Equipment	8,007,116 I		4,161,256	3,168,261	-	7,329,517		-	-	-
Stores Equipment	138,142 I 3,339,457 I		71,792	54,660		126,452 3,056,857		-	-	-
Tools, Shop & Garage Equip. Laboratory Equip.		LABOR	1,735,499	1,321,359		3,056,857				
Power Operated Equip.	1,378,752		716,530	545.545		1.262.075				
Communication Equip.	892,402		463,777	353,106	-	816,883				
Miscellaneous Equip.	802,973	LABOR	417,301	317,721	-	735,022		-	-	-
Sub-total	39,736,540		20,650,874	15,722,980	-	36,373,854	-	-	-	-
TOTAL PLANT-IN-SERVICE	641,189,774		382,924,840	248,674,883		631,599,724				
TO THE PERIT-IN-SERVICE	041,105,774		302,524,040	240,074,003	-	031,333,724	-	-	-	-
Accumulated Reserve for Depreciation										
Intangible Plant										
Misc. Intangible Plant Sub-total	(13,560,761) (13,560,761)	LABOR	(7,047,457) (7,047,457)	(5,365,731) (5,365,731)	-	(12,413,188) (12,413,188)	-	-	-	-
Sub-total	(13,300,701)		(7,047,437)	(3,303,731)	-	(12,413,100)		-	-	-
Production Plant										
Production Plant	(1,837,129) [DPROD	(159,830)			(159,830)			-	
Production Plant Keene	- 1	DPROD_K			-				-	-
Sub-total	(1,837,129)		(159,830)	-	-	(159,830)	-	-	-	-
Distribution Plant Land & Land Rights		DIST								
M&R Stations	83,294 1		83,294			83,294				
Mains	(404,274) 1		(404,274)			(404,274)				
Compressor Station Equipment	(192,723)		(192,723)			(192,723)				
M&R Stations	(4,358,391)		(4,358,391)	-	-	(4,358,391)	-	-	-	
Services	(85,611,484)	DIST	(85,611,484)			(85,611,484)				
Meters & Meter Installations	(7,401,085)		(7,401,085)		-	(7,401,085)	-	-	-	-
Meters Installations	(4,122,684)			(4,122,684)	-	(4,122,684)	-	-	-	-
Land & Land Rights		CUST	-	-	-	-	-	-	-	-
Structures and Improvements Other Equipment	(460,293) ((2,400,155) I		(2,400,155)	(460,293)	-	(460,293) (2,400,155)	-	-	-	-
Other Equipment	(2,400,155) [(1,078,797) [(2,400,155) (1,078,797)			(1,078,797)				
	(-,-: 0,/ 3/)		(=,=.=,.=/)			(-,/)				

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					100						
Account Desc	ription	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	isc COM	TOTAL
RATE BASE											
Plant in Service											
Internetible Direct											
Intangible Plant Misc. Intangible Plant		17,059,19	9 1ABOR	1,443,627			1,443,627				
Sub-total		17,310,14		1,464,863		-	1,464,863				
Production Plant											
Production Plant EN			2 DPROD	4,762,502			4,762,502		-		
Production Plant Keene Sub-total		5,216,32	- DPROD_K 2	4,762,502		-	4,762,502				
Distribution Plant											
Land & Land Rights			- DIST								
M&R Stations			- DIST		-			-	-		
Mains		11,740,46	2 DIST		-	-			-	-	
Compressor Station Equipme	nt	2,246,18	6 DIST		-	-			-	-	
M&R Stations		7,435,29	0 DIST		-			-	-	-	
Services		178,923,78	5 CUST		-			-	-	-	
Meters & Meter Installations		21,117,10	3 CUST		-			-	-	-	
Other Equipment		2,677,77	0 DIST	-	-	-		-	-	-	
Sub-total		578,926,76	5	-	-	-	-	-			
General Plant											
Land & Land Rights		121,48	9 LABOR	10,281	-		10,281	-	-	-	
Structures & Improvements		22,653,11	7 LABOR	1,917,009	-		1,917,009	-	-	-	
Office Furniture & Equipment	t		2 LABOR	203,361	-		203,361	-	-	-	
Transportation Equipment		8,007,11	6 LABOR	677,598	-	-	677,598	-	-	-	
Stores Equipment		138,14	2 LABOR	11,690	-	-	11,690	-	-	-	
Tools, Shop & Garage Equip.			7 LABOR	282,600	-	-	282,600	-	-	-	
Laboratory Equip.			- LABOR	-	-	-		-	-	-	
Power Operated Equip.			2 LABOR	116,676	-	-	116,676	-	-	-	
Communication Equip.			2 LABOR	75,519	-	-	75,519	-	-	-	
Miscellaneous Equip.			3 LABOR	67,951	-	-	67,951	-	-	-	
Sub-total		39,736,54	0	3,362,686	-	-	3,362,686	-		-	
TOTAL PLANT-IN-SERVICE		641,189,77	4	9,590,051		-	9,590,051			-	
Accumulated Reserve for Depred	ciation										
Intangible Plant Misc. Intangible Plant		(13,560,76	1) LABOR	(1,147,573)			(1,147,573)				
Sub-total		(13,560,76		(1,147,573)	-	-	(1,147,573)	-			
Production Plant											
		(4 027 42)	0) 00000	(4 (77 200)			(4 (77 200)				
Production Plant Production Plant Keene		(1,837,12	 DPROD K 	(1,677,299)	-		(1,677,299)	-	-	-	
Sub-total		(1,837,12		(1,677,299)	-	-	(1,677,299)	-			
Distribution Plant											
Land & Land Rights			- DIST								
M&R Stations			4 DIST								
Mains		(404,27			-			-			
Compressor Station Equipme	nt	(192,72			-			-			
M&R Stations		(4,358,39			-			-			
Services		(85,611,48			-			-			
Meters & Meter Installations		(7,401,08									
Meters Installations		(4,122,68		-	-	-	-	-	-	-	
			- CUST		-	-		-	-	-	
Land & Land Rights											
Structures and Improvements	s	(460,29				-	-	-	-	-	
	S		5) DIST	-			-		-		

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					Direct Gas Costs					
Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	сом	TOTAL
Measuring and Regulating Station Equipment	18,159	DIST	18,159		-	18,159				
Dist-Measuring and regulating station equipment-Ci	(1,321,095	5) DIST	(1,321,095)	-		(1,321,095)		-	-	
Indust meas and reg station equip	(4,10	B) DIST	(4,103)	-		(4,103)		-	-	
Structures and Improvements	(213,309) DIST	(213,309)			(213,309)		-	-	
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Sub-total	(177,828,890)	(173,245,912)	(4,582,977)	-	(177,828,890)	-	-	-	

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				LPG	& LNG			Mis	sc	
Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Measuring and Regulating Station Equipment	18,15	9 DIST	-	-		-			-	-
Dist-Measuring and regulating station equipment-Ci	(1,321,09	5) DIST		-				-	-	
Indust meas and reg station equip	(4,10	3) DIST		-				-	-	
Structures and Improvements	(213,30	9) DIST		-				-	-	-
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Sub-total	(177,828,89	0)		-			-	-		

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Account Description General Plant Land & Land Rights Structures & Improvements Office Furniture & Equipment Transportation Equipment Stores Equipment	Amount Alloc. Fac	tor DEM	Delivery Co CUS	COM	TOTAL	DEM	Direct Ga CUS	COM	
General Plant Land & Land Rights Structures & Improvements Office Furniture & Equipment Transportation Equipment									TOTAL
Land & Land Rights Structures & Improvements Office Furniture & Equipment Transportation Equipment									
Structures & Improvements Office Furniture & Equipment Transportation Equipment									
Office Furniture & Equipment Transportation Equipment		0 -	(2, 200, 000)	-	(5.000.5.42)		-	-	
Transportation Equipment	(5,560,061) LABOR (157,522) LABOR	(2,889,535) (81,863)	(2,200,009) (62,328)		(5,089,543) (144,192)	-	-	-	
	(3,649,940) LABOR	(1,896,855)	(1,444,211)		(3,341,065)		-	-	
	(35,198) LABOR	(18,292)	(13,927)		(32,219)		-		
Tools, Shop & Garage Equip.	(754,055) LABOR	(391,879)	(298,365)		(690,244)	-	-		-
Laboratory Equip.	- LABOR	(331,673)	(290,505)		(090,244)	-	-		-
Power Operated Equip.	(683,509) LABOR	(355,216)	(270,451)		(625,667)		-		
Communication Equip.	(433,204) LABOR	(225,134)	(171,410)		(396,544)				
Miscellaneous Equip.	(251,165) LABOR	(130,529)	(99,381)		(229,910)				
Other	- PLANT	(150,525)	(55,501)		(225,510)				
Sub-total	(11,524,653)	(5,989,303)	(4,560,082)	-	(10,549,385)	-	-	-	-
TOTAL DEPRECIATION ACCRUAL	(204,751,433)	(186,442,502)	(14,508,791)		(200,951,293)				
NET PLANT	436,438,341	196,482,338	234,166,093	-	430,648,430	-		-	-
Rate Base Adjustments									
Additions									
Fuel Stock	- PDGPLT					-	-	-	-
Gas Materials and Supplies	5,936,060 PDGPLT	3,557,840	2,300,910		5,858,751	-	-	-	-
Gas Stored Underground - Current A/C 164	- PDGPLT	-					-		
LNG Inventory - Current A/C 164	- PDGPLT	-					-		
Gas Stored Underground - Non-Current A/C 117	- PDGPLT					-	-	-	-
Cash Working Capital (Other)	3,004,115 OMEXPX	1,790,458	1,135,982	18,742	2,945,182		-		
Prepayments	- PDGPLT	-					-		
Sub-total	8,940,175	5,348,298	3,436,892	18,742	8,803,933	-	-	-	-
Deductions									
Customer Deposits	(3,019,271) CUST		(3,019,271)		(3,019,271)		-		-
Excess Accum. Deferred Income Taxes	(27,363,848) PDGPLT	(16,400,811)	(10,606,659)		(27,007,471)		-		-
Accum. Deferred Income Taxes	(58,583,670) PDGPLT	(35,112,742)	(22,707,955)		(57,820,697)		-		-
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Sub-total	(88,966,789)	(51,513,553)	(36,333,886)	-	(87,847,439)		-	-	
TOTAL RATE BASE ADJ.	(80,026,614)	(46,165,255)	(32,896,993)	18,742	(79,043,506)			-	-
		(,,	(,,,,,,,-)	,	()				
TOTAL RATE BASE	356,411,727	150,317,083	201,269,099	18,742	351,604,925	-	-	-	-

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Accord Decret Mater Det Dist Cont Dist Dist <thdist< th=""> Dist Dist</thdist<>					LPG &				Mi		
Ind Land Biplins • 0 .	Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	1
Ind Land Biplins • 0 .	General Plant										
Bit Stature & Beginnerin (1997) (1997)			. 0								
Transportation spinnert (15.752) (15.876) (15.877) (15.877) (15.877) (15.877) (15.877) (15.877) (15.877) (15.877) (15.877) (15.877) (15.877) (15.8577) (15.877) (15.8							(470 519)				
Transportation Equipment (16,86,90) (160,87,90) - (16,82,70) - - Tords, Shop E Gase Equip. (17,80,00) (10,22,70) - (10,32,12) - - - Tords, Shop E Gase Equip. (18,130) (10,72,42) - (10,32,12) - - - - Communication Equip. (18,130) (10,00) (11,22,450) - (10,00,00) - <td></td>											
Rote Equipment (B.539) (400 (B.342) - (B.277) - - Tools, Solo, Stange Equip. (B.342) - (B.342) - (B.342) - <					-	-		-	-	-	
Tots, Stop & Garage Equip. 0.5505 (JABOR 6.0.312) - <td< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td></td><td></td></td<>					-				-		
Induction (quip) I. LADOR I. I					-				-	-	
Proce Operate Equip. (833.09) LAOR (77.42) - (15.42) - - Communication Equip. (833.09) LAOR (75.46) - (75.47) - <td< td=""><td></td><td></td><td></td><td>(63,812)</td><td>-</td><td></td><td>(63,812)</td><td>-</td><td></td><td></td><td></td></td<>				(63,812)	-		(63,812)	-			
Image: State Stat				-	-		-	-	-	-	
Maxile intervise Station 102.255 102.25					-	-		-	-	-	
Other 1. PANT 1. Other 1.					-			-	-	-	
Sub-torid (11,524,653) (975,678) <td></td> <td></td> <td></td> <td>(21,255)</td> <td>-</td> <td>-</td> <td>(21,255)</td> <td>-</td> <td>-</td> <td>-</td> <td></td>				(21,255)	-	-	(21,255)	-	-	-	
TOTAL DEPRECIATION ACCUAL CAVA. TAI (3.800.40) - C.800.100 - <t< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td></t<>				-	-		-	-	-	-	
NFNAT 464.88.41 5,789.91 • • • Additions - - 7,309 - <	Sub-total	(11,524,653	<i>i</i>)	(975,268)	-	-	(975,268)	-			
Aditions -<	TOTAL DEPRECIATION ACCRUAL	(204,751,433	3)	(3,800,140)	-	-	(3,800,140)	-			
Additions PORPT 1 <th1< th=""> 1 1 <t< td=""><td>NET PLANT</td><td>436,438,341</td><td>L</td><td>5,789,911</td><td>-</td><td></td><td>5,789,911</td><td></td><td>-</td><td>-</td><td></td></t<></th1<>	NET PLANT	436,438,341	L	5,789,911	-		5,789,911		-	-	
Fuel Stock 0.000/T 7.000 0.1 7.000 0.1 </td <td>Rate Base Adjustments</td> <td></td>	Rate Base Adjustments										
Fuel Stock 0.000/T 7.000 0.1 7.000 0.1 </td <td>Additions</td> <td></td>	Additions										
Gas Materials and Supplies 5,95,000 POGRT 7,700 - 77,00 - <td< td=""><td></td><td></td><td>- PDGPLT</td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			- PDGPLT	-	-						
Gas Stored Underground - Current A/C 134 PDGPLT - <td< td=""><td></td><td></td><td></td><td>77.309</td><td></td><td></td><td>77.309</td><td></td><td></td><td></td><td></td></td<>				77.309			77.309				
MS inventory - current A/C 137 POGPLT -							,				
Gas Stored Undergound - Non-Current A/C 117											
Cash Working Capital (Other) 3,0,011 0MKPXx 18,29 0,14,4800 39,679 - - 19,254 Prepayments 00EVT 261,838 0,144,850 116,988 - - 19,254 Sub-total 6,940,175 261,838 0,019,271 Cust -				-	-	-	-	-	-	-	
Prepayments POGPLT I				184 520	-	(144.950)	20.670		-	10.254	
Sub-total 8,940,175 261,838 (144,850) 116,988 • • 19,254 Deductions 3,019,271 (LUST -				104,329	-		59,079		-	19,234	
Deductions Customer Deposits (2,363,248) PDGPLT 1 <td></td> <td></td> <td></td> <td>261.838</td> <td>-</td> <td>-</td> <td>116.988</td> <td>-</td> <td>-</td> <td>19.254</td> <td></td>				261.838	-	-	116.988	-	-	19.254	
Customer Deposits (3,019,271) CUST -		0,040,270		201,000		(144)000)	110,500			13,234	
Excess Accum. Deferred Income Taxes (27, 363, 848) PDGPLT (356, 377) - <											
Accum. Deferred Income Taxes (58,583,670) PDGPLT (762,973) .				-	-	-	-	-	-	-	
Image: Sub-local state					-	-		-			
- -	Accum. Deferred Income Taxes			(762,973)	-	-	(762,973)	-			
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - Sub-total (88,966,789) (1,119,350) - - (1,119,350) - TOTAL RATE BASE ADJ. (80,026,614) (857,512) - (144,850) (1,002,362) - 19,254			-	-	-	-		-	-	-	
No. No. <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>						-	-	-	-		
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No. No. No. No. No. No. Sub-total (88,966,789) (1,119,350) - - - - TOTAL RATE BASE ADJ. (80,026,614) (857,512) - (144,850) (1,002,362) - - 19,254	N/			-	-	-	-	-	-	-	
Sub-tota/ (88,966,789) (1,119,350) - (1,119,350) - - TOTAL RATE BASE ADJ. (80,026,614) (857,512) - (144,850) (1,002,362) - 19,254	~			-	-	-		-	-	-	
TOTAL RATE BASE ADJ. (80,026,614) (857,512) - (144,850) (1,002,362) 19,254	~			-	-		-	-	-	-	
	Sub-total	(88,966,789))	(1,119,350)	-	-	(1,119,350)	-	-	-	
TOTAL RATE BASE 356,411,727 4,932,398 - (144,850) 4,787,548 19,254	TOTAL RATE BASE ADJ.	(80,026,614	1)	(857,512)		(144,850)	(1,002,362)	-	-	19,254	

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			Delivery Co	osts			Direct Ga	s Costs	
Account Description	Amount Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
EXPENSES									
O & M Expenses									
Production (LPG LNG) - Operation									
Supervision	997,056 DPROD	86,744			86,744				
LPG - Production	- DPROD	-						-	
LPG - Materials	- DPROD	-						-	
Gas Mixing & Misc Exp - Keene	70,719 DPROD	6,153			6,153			-	
Misc. Prod. Exp.	470,400 DPROD	40,925			40,925			-	
Operation Labor & Expenses	- DPROD	-							
Other	26,122 DPROD	2,273			2,273				
Indirect Expenses	(1,993,587) INDIRECT	-							
Sub-total	(429,290)	136,094		-	136,094	-	-	-	-
Production (LPG LNG) - Maintenance									
Maint. of Prod. Equip	119,531 DPROD	10,399	-	-	10,399	-	-	-	-
Sub-total	119,531	10,399	-	-	10,399	-	-	-	
Total Production	(309,759)	146,493		-	146,493		-	-	-
Purchased Gas Expenses									
Gas Supply	- GASCOST								
Storage Gas	- GASCOST	-							
Other Gas Supply	- GASSPLY								
Sub-total	-	-							
Distribution Operation Expenses									
Operation Supervision & Engineering	543,453 DISTOPX	444,827	98,626	-	543,453		-	-	-
Distribution Load Dispatch	587,944 DIST	587,944	· · · ·		587,944		-		
Mains & Services Expenses	5,708,819 DIST	5,708,819			5,708,819			-	
M&R Station Expenses - General	- DIST	-						-	
M&R Station Expenses - Industrial	- DIST	-							
Meter & House Regulator Expenses	1,140,737 CUST	-	1,140,737		1,140,737				
Customer Installation Expenses	642,746 CUST	-	642,746		642,746		-	-	-
Other Expenses	1,736,570 DIST	1,736,570			1,736,570				
Rents	10,618 DIST	10,618			10,618				
Sub-total	10,370,887	8,488,778	1,882,109	-	10,370,887	-	-	-	
Distribution Maintenance Expenses									
Maint. Supervision & Engineering	- DISTMNX								
Maint. of Structures & Improv.	150,147 DIST	150,147			150,147				
Maint. of Mains	2,677,943 DIST	2,677,943			2,677,943				
Maint. of M&R Station Equip General	- DIST	2,077,545			2,011,545				
Maint. of Services	466,805 CUST		466,805		466,805				
Maint. of Meters & House Regulators	356,709 CUST		356,709		356,709				
Maint. of Other Equip.	347,300 DIST	347,300	-		347,300				
Sub-total	3,998,904	3,175,390	823,514	-	3,998,904	-	-	-	-
Total Distribution	14,369,791	11,664,168	2,705,623	-	14,369,791	-	-	-	-

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			LPG &				Mi		
Account Description	Amount Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
EXPENSES									
O & M Expenses									
Production (LPG LNG) - Operation									
Supervision	997,056 DPROD	910,312	-		910,312	-	-	-	-
LPG - Production	- DPROD		-			-	-	-	-
LPG - Materials	- DPROD					-			
Gas Mixing & Misc Exp - Keene	70,719 DPROD	64,567			64,567				
Misc. Prod. Exp.	470,400 DPROD	429,476			429,476				
	- DPROD	425,470	-		429,470				
Operation Labor & Expenses		-	-		-		-	-	-
Other	26,122 DPROD	23,849	-		23,849	-	-	-	-
Indirect Expenses	(1,993,587) INDIRECT		-	(1,980,417)	(1,980,417)	-	-	(13,170)	(13,170)
Sub-total	(429,290)	1,428,204	-	(1,980,417)	(552,214)	-		(13,170)	(13,170)
Production (LPG LNG) - Maintenance									
Maint. of Prod. Equip	119,531 DPROD	109,132	-		109,132	-	-	-	-
Sub-total	119,531	109,132	-	-	109,132	-	-	-	-
Total Production	(309,759)	1,537,335	-	(1,980,417)	(443,082)	-	-	(13,170)	(13,170)
Purchased Gas Expenses									
Gas Supply	- GASCOST								
Storage Gas	- GASCOST								
Other Gas Supply	- GASSPLY								
Sub-total	- GASSPLY		-				-	-	-
Sub-total	-	-	-	-		-		-	
Distribution Operation Expenses									
Operation Supervision & Engineering	543,453 DISTOPX		-	-		-	-	-	
Distribution Load Dispatch	587,944 DIST	-	-		-	-	-	-	-
Mains & Services Expenses	5,708,819 DIST				-		-		
M&R Station Expenses - General	- DIST		-		-	-	-	-	-
M&R Station Expenses - Industrial	- DIST								
Meter & House Regulator Expenses	1,140,737 CUST								
Customer Installation Expenses	642,746 CUST								
Other Expenses	1,736,570 DIST	-	-	-	-	-	-	-	-
			-		-	-			-
Rents Sub-total	10,618 DIST 10,370,887	-		-	-			-	
Distribution Maintenance Expenses									
Maint. Supervision & Engineering	- DISTMNX	-	-	-		-	-	-	-
Maint. of Structures & Improv.	150,147 DIST	-	-	-		-	-	-	-
Maint. of Mains	2,677,943 DIST	-	-	-		-	-	-	-
Maint. of M&R Station Equip General	- DIST						-	-	-
Maint. of Services	466,805 CUST	-	-				-	-	-
Maint. of Meters & House Regulators	356,709 CUST							-	
Maint: of Other Equip.	347,300 DIST	_		_		-	_	-	-
Sub-total	3,998,904	-	-	-		-		-	
Total Distribution	14,369,791	-	-	-		-	-	-	-

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		Delivery Costs				Direct Gas Costs				
Account Description	Amount Alloc. Factor	DEM	cus	СОМ	TOTAL	DEM	CUS	COM	TOTAL	
Customer Account										
Supervision	248,451 CACCTX		248,451		248,451					
Meter Reading	329,798 CUST		329,798		329,798					
Customer Records & Collection	2.768.744 CUST		2.768.744		2,768,744					
Uncollectable Accounts - Delivery	1,646,757 PREV DEL		2,700,744	1,646,757	1,646,757					
Uncollectable Accounts - Production	34,013 PREV_PROD			2,040,757	1,040,737					
Misc. Customer Accounts	13,047 CUST		13.047		13.047					
Sub-total	5,040,811	-	3,360,041	1,646,757	5,006,798	-	-	-	-	
Customer Service & Information Expenses										
Informational and Instructional Advertisign Expenses	96,318 CUST	-	96,318	-	96,318	-	-	-		
Misc Customer Assistance Expense	15,180 CUST	-	15,180	-	15,180	-	-	-		
Sub-total	111,497		111,497	-	111,497				-	
Sales Expenses										
Demostrating & Selling Expenses	458,691 CUST	-	458,691	-	458,691		-	-	-	
Advertising Expenses	26,484 CUST	-	26,484	-	26,484	-	-	-	-	
Misc. Sales Expenses	77,946 CUST	-	77,946		77,946		-	-	-	
Sub-total	563,121		563,121	-	563,121	-	-	-	-	
Administrative and General Expenses										
Administrative & General Salaries	5,450,219 LABOR	2,832,451	2,156,546	-	4,988,997	-	-	-	-	
A&G Salaries - Energy Procurement	421,021 GASSPLY	-			-		-	-	-	
Office Supplies	2,035,906 LABOR	1,058,050	805,569	-	1,863,618		-	-	-	
Office Supplies - Energy Procurement	168,393 GASSPLY	-		-	-		-	-	-	
A&G Transferred	(16,140,423) AGxTRANSFER	(7,842,482)	(5,971,040)	(505,061)	(14,318,582)	-	-	-	-	
A&G Transferred - Energy Procurement	- GASSPLY	-	-	-	-	-	-	-	-	
Outside Services	7,002,280 LABOR	3,639,048	2,770,667		6,409,715		-	-	-	
Outside Serv Gas Acquistion	216,091 GASSPLY	-			-		-	-		
Property Insurance	51,523 LABOR	26,776	20,387		47,163		-	-		
Injuries & Damages	814,179 LABOR	423,125	322,155		745,280	-	-	-		
Employee Pension & Benefits	7,260,431 LABOR	3,773,208	2,872,812		6,646,020		-	-		
Regulatory Commission - Delivery	761,312 PREV_DEL			761,312	761,312	-	-	-		
Regulatory Commission - Production	15,725 REG_COMM	-					-	-		
Misc. General Expenses	1,146 LABOR	595	453		1,049	-	-	-		
Office Rent	131,314 LABOR	68,243	51,958		120,202			-		
Maintenance of General Plant	- LABOR			-		-	-	-		
Sub-total	8,189,114	3,979,014	3,029,507	256,251	7,264,772				-	
TOTAL O & M EXPENSES	27,964,575	15,789,676	9,769,789	1,903,008	27,462,472	-		-	-	
Labor Expense										
Production - Operation										
Supervision	965,037 DPROD	83,958			83,958					
LPG - Production	- DPROD									
LPG - Materials	- DPROD							-		
Gas Mixing & Misc Exp - Keene	189,712 DPROD	16,505			16,505					
Misc. Prod. Exp.	- DPROD	10,505			,			-		
Operation Labor & Expenses	- DPROD							-		
Sub-total	1,155,018	100,487	-	-	100,487	-	-	-	-	
Production - Maintenance										
Maint. of Prod. Equip	- DPROD	-		-				-	-	
Sub-total	-						-	-	-	

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				LPG 8	LNG		Misc				
Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL	
Customer Account											
Supervision	248.451 CA	ACCTX									
Meter Reading	329,798 CU										
Customer Records & Collection	2,768,744 CU							-			
Uncollectable Accounts - Delivery	1,646,757 PR										
Uncollectable Accounts - Production	34,013 PR				28,930	28,930		-	5,083	5,083	
Misc. Customer Accounts	13,047 CU							-	-,	-,	
Sub-total	5,040,811		-	-	28,930	28,930	-	-	5,083	5,083	
Customer Service & Information Expenses											
Informational and Instructional Advertisign Expenses	96,318 CU	JST		-			-	-		-	
Misc Customer Assistance Expense	15,180 CU	JST					-	-	-	-	
Sub-total	111,497				-				-		
Sales Expenses											
Demostrating & Selling Expenses	458,691 CU			-	-		-	-	-	-	
Advertising Expenses	26,484 CU			-	-		-	-	-	-	
Misc. Sales Expenses	77,946 CU	JST	-	-	-		-	-	-	-	
Sub-total	563,121		-	-	-	-	-		-	-	
Administrative and General Expenses											
Administrative & General Salaries	5,450,219 LA		461,222	-	-	461,222	-	-	-	-	
A&G Salaries - Energy Procurement	421,021 GA		-				-	-	421,021	421,021	
Office Supplies	2,035,906 LA		172,288	-	-	172,288	-	-	-	-	
Office Supplies - Energy Procurement	168,393 GA	ASSPLY	-	-	-		-	-	168,393	168,393	
A&G Transferred	(16,140,423) AG	SXTRANSFER	(1,277,031)	-	-	(1,277,031)	-	-	(544,810)	(544,810	
A&G Transferred - Energy Procurement	- GA	ASSPLY	-	-	-		-	-	-	-	
Outside Services	7,002,280 LA	BOR	592,565	-	-	592,565	-	-		-	
Outside Serv Gas Acquistion	216,091 GA	ASSPLY	-	-	-			-	216,091	216,091	
Property Insurance	51,523 LA	BOR	4,360	-	-	4,360	-	-		-	
Injuries & Damages	814,179 LA	BOR	68,900	-	-	68,900		-		-	
Employee Pension & Benefits	7,260,431 LA	BOR	614,411	-	-	614,411		-		-	
Regulatory Commission - Delivery	761,312 PR									-	
Regulatory Commission - Production	15,725 RE								15,725	15,725	
Misc. General Expenses	1,146 LA		97			97		-	., .		
Office Rent	131,314 LA		11,112			11,112					
Maintenance of General Plant	- LA										
Sub-total	8,189,114	bon	647,923		-	647,923			276,419	276,419	
TOTAL O & M EXPENSES	27,964,575		2,185,258		(1,951,487)	233,771			268,332	268,332	
Expense											
Production - Operation											
Supervision	965.037 DP	ROD	881,079			881,079					
LPG - Production		PROD	-	-				-			
LPG - Materials	- DP			_			_	_			
Gas Mixing & Misc Exp - Keene	189,712 DP		173,207			173,207		-			
Misc. Prod. Exp.		ROD	175,207	_		1,5,20,	_	_			
Operation Labor & Expenses		PROD		-		-	-	-			
Sub-total	1,155,018	NOD	1,054,531			1,054,531	-				
Production - Maintenance											
Maint. of Prod. Equip	- DP	ROD		-				-	-	-	
Sub-total			-	-	-	-			-	-	

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				Delivery Co	sts			Direct Gas	Costs	
Account Description	Amount	Alloc. Factor	DEM	cus	COM	TOTAL	DEM	CUS	СОМ	TOTAL
Distribution Operation Expenses										
Operation Supervision & Engineering	229 51	2 DISTOPX	277,079	61,433		338.512				
Distribution Load Dispatch	587,48		587,482			587,482			-	
Mains & Services Expenses	3,573,45		3,573,456			3,573,456			-	-
M&R Station Expenses - General		- DIST		-					-	
M&R Station Expenses - Industrial		- DIST		-		-			-	
Meter & House Regulator Expenses	1,061,40	6 CUST	-	1,061,406		1,061,406			-	-
Customer Installation Expenses	636,68	0 CUST		636,680		636,680			-	-
Other Expenses	882,65	1 DIST	882,651			882,651	-	-	-	
Rents		- DIST	-	-	-	-	-	-	-	-
Sub-total	7,080,18	8	5,320,668	1,759,519	-	7,080,188	-	-	-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering		 DISTMNX 			-		-	-	-	-
Maint. of Structures & Improv.	122,64		122,643	-	-	122,643	-	-	-	-
Maint. of Mains	833,13		833,130		-	833,130	-	-	-	
Maint. of M&R Station Equip General		- DIST		-					-	-
Maint. of Services	210,51			210,518		210,518			-	-
Maint. of Meters & House Regulators	269,24			269,244		269,244			-	-
Maint. of Other Equip.		4 DIST	99,144			99,144	-	-	-	-
Sub-total	1,534,67	В	1,054,917	479,761	-	1,534,678	-	-	-	-
Total Distribution	8,614,86	6	6,375,585	2,239,280	-	8,614,866	-	-		-
Customer Account										
Supervision	248,45	1 CACCTX		248,451		248,451		-	-	-
Meter Reading	304,15	D CUST	-	304,150	-	304,150	-	-	-	-
Customer Records & Collection	1,611,58	6 CUST	-	1,611,586	-	1,611,586	-	-	-	-
Uncollectable Accounts		- 0	-	-	-	-	-	-	-	-
Misc. Customer Accounts		- CUST		-	-			-	-	-
Sub-total	2,164,18	7	-	2,164,187	-	2,164,187	-	-	-	-
Customer Service & Information Expenses										
Informational and Instructional Advertising Expenses		1 CUST	-	21,871	-	21,871	-	-	-	-
Misc Customer Assistance Expense		- CUST	-	-	-	-	-	-	-	
Sub-total	21,87	1	-	21,871	-	21,871	-	-	-	-
Sales Expenses	427.44	o curt		427.440		427.440				
Demostrating & Selling Expenses	427,41	- CUST		427,410		427,410			-	-
Advertising Expenses				77.045		-	-	-	-	-
Misc. Sales Expenses		6 CUST - ~		77,946		77,946	-	-	-	-
Sub-total	505,35		-	505,356	-	505,356	-			-
TOTAL O & M LABOR EXP.	12,461,29	8	6,476,072	4,930,695		11,406,766	-		-	
	12,-01,25	-	0,470,072	-,550,055		11,400,700				

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				LPG &	LNG			Mi	sc	
Account Description	Amount	Alloc. Factor	DEM	CUS	COM	TOTAL	DEM	CUS	COM	TOTAL
Distribution Operation Expenses										
Operation Supervision & Engineering	338,512		-	-	-		-	-	-	-
Distribution Load Dispatch	587,482		-	-	-	-	-	-	-	-
Mains & Services Expenses	3,573,456		-	-	-	-	-	-	-	-
M&R Station Expenses - General		DIST	-	-	-		-	-	-	-
M&R Station Expenses - Industrial		DIST	-	-	-		-	-	-	-
Meter & House Regulator Expenses	1,061,406		-	-	-		-	-	-	-
Customer Installation Expenses	636,680			-		-	-	-	-	
Other Expenses	882,651		-	-	-		-	-	-	-
Rents		DIST		-		-	-	-	-	-
Sub-total	7,080,188		-	-	-	-	-		-	-
Distribution Maintenance Expenses										
Maint. Supervision & Engineering		DISTMNX	-	-	-	-	-	-	-	-
Maint. of Structures & Improv.	122,643		-	-	-		-	-	-	-
Maint. of Mains	833,130			-			-	-	-	-
Maint. of M&R Station Equip General		DIST	-	-	-		-	-	-	-
Maint. of Services	210,518		-	-	-		-	-	-	-
Maint. of Meters & House Regulators	269,244		-	-	-		-	-	-	-
Maint. of Other Equip.	99,144	DIST	-	-	-	-	-	-	-	-
Sub-total	1,534,678		-		-	-	-	-	-	-
Total Distribution	8,614,866		-	-	-	-	-	-		
Customer Account										
Supervision	248,451	CACCTX		-				-		-
Meter Reading	304,150	CUST		-			-	-	-	
Customer Records & Collection	1,611,586	CUST		-				-	-	-
Uncollectable Accounts		0						-	-	-
Misc. Customer Accounts		CUST		-			-	-	-	
Sub-total	2,164,187		-	-	-	-	-	-		-
Customer Service & Information Expenses										
Informational and Instructional Advertising Expenses	21,871	CUST	-	-	-		-	-	-	-
Misc Customer Assistance Expense	-	CUST		-		-		-		-
Sub-total	21,871		-	-	-	-	-	-	-	-
Sales Expenses										
Demostrating & Selling Expenses	427,410	CUST	-					-	-	-
Advertising Expenses		CUST	-					-	-	-
Misc. Sales Expenses	77,946	CUST	-					-	-	-
~		~	-	-	-		-	-	-	-
Sub-total	505,356		-	-	-	-	-	-	-	-
TOTAL O & M LABOR EXP.	12,461,298		1,054,531	-	-	1,054,531				
	,,250		_,,			-,				

Functional Cost Study External Allocation Factors

Name DEMAND AL	Description LOCATORS		Total	Delivery Costs	Direct Gas Costs	Production Costs	Misc. Costs
LPG LNG	Production	DEM		0.00%	0.00%	100.00%	0.00%
	Test Yr - Energy North		1			1	
DIST	Distribution	DEM		100.00%	0.00%	0.00%	0.00%
DPROD	Test Yr - Energy North	DEW	1	100.00%	0.00%	0.0078	0.007
	Delivery & Production	DEM		8.70%	0.00%	91.30%	0.00%
	Test Yr - Energy North	I	1	0.087		0.913	
DPROD_K	Keene Production	DEM		100.00%	0.00%	0.00%	0.00%
	Test Yr - Energy North	I	1	1			
	ALLOCATORS						
CUST	Distribution Customer	CUS		100.00%	0.00%	0.00%	0.00%
	Test Yr - Energy North		1	1			
	ALLOCATORS						
PROPANE	Propane Commodity	COM		0.00%	0.00%	100.00%	0.00%
	Test Yr - Energy North		1			1	
LNG	LNG Commodity	COM		0.00%	0.00%	100.00%	0.00%
	Test Yr - Energy North		1			1	
GASCOST	Allocated Gas Costs	COM		0.00%	100.00%	0.00%	0.00%
	Test Yr - Energy North		1		1		
GASSPLY	Gas Supply	COM		0.00%	0.00%	0.00%	100.00%
	Test Yr - Energy North	L	1				1
CUR_REV	Revenues at Current Rates	COM		100.00%	0.00%	0.00%	0.00%
	Test Yr - Energy North	L	84,361,646	84,361,646	-	-	-
PROP_REV	Proposed Revenues	СОМ		97.98%	0.00%	1.72%	0.30%
	Test Yr - Energy North		99,286,484	97,277,247		1,708,977	300,259
PREV_DEL	Proposed Revenues Delivery	COM		100.00%	0.00%	0.00%	0.00%
	Test Yr - Energy North		1	1			
PREV_PROD	Proposed Production Revenue	СОМ		0.00%	0.00%	85.06%	14.94%
	Test Yr - Energy North		2,009,237			1,708,977	300,259
INDIRECT	Settlement Indirect Expenses	COM		0.00%	0.00%	99.34%	0.66%
	Test Yr - Energy North		(1,993,598)			(1,980,428)	(13,170)
REG_COMM	Production Regulatory Comm. Exp	СОМ		0.00%	0.00%	0.00%	100.00%
	Test Yr - Energy North		1				1
OTH_REV	Other Revenue	COM] [100.00%	0.00%	0.00%	0.00%
	Test Yr - Energy North		1	1			

Functional Cost Study Internal Allocators

Allocator

			Direct Gas			
Name	Description	Total	Delivery Costs	Costs	Production Costs	Misc. Costs
PLANT	Total Plant in Service	641,189,774	631,599,724	-	9,590,051	-
	Percent	100.00%	98.50%	0.00%	1.50%	0.00%
OMEXPX	TOI and O&M Exp. excl. gas costs & uncollectible	41,072,858	40,267,114	-	542,495	263,249
	Percent	100.00%	98.04%	0.00%	1.32%	0.64%
PRODOEXP	Production Operations Expenses	567,242	49,350	-	517,892	-
	Percent	100.00%	8.70%	0.00%	91.30%	0.00%
PRODMNTX	Production Maintenance Expenses	119,531	10,399	-	109,132	-
	Percent	100.00%	8.70%	0.00%	91.30%	0.00%
DISTOPX	Distribution Operations Expense	9,827,435	9,827,435	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
DISTMNX	Distribution Maintenance Expense	3,998,904	3,998,904	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
CACCTX	Customer Accounting Expenses	3,111,589	3,111,589	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
LABOR	Labor expense excluding A&G	12,461,298	11,406,766	-	1,054,531	-
	Percent	100.00%	91.54%	0.00%	8.46%	0.00%
GENPLT	General Plant	39,736,540	36,373,854	-	3,362,686	-
	Percent	100.00%	91.54%	0.00%	8.46%	0.00%
AGxTRANSFER	A&G Expenses excluding transfer	24,329,537	21,583,355	-	1,924,954	821,229
	Percent	100.00%	88.71%	0.00%	7.91%	3.38%
AGEXP	Total A&G Expense	8,189,114	7,264,772	-	647,923	276,419
	Percent	100.00%	88.71%	0.00%	7.91%	3.38%
DISTRPLT	Distribution Plant	578,926,765	578,926,765	-	-	-
	Percent	100.00%	100.00%	0.00%	0.00%	0.00%
RTBASE	Rate Base	356,411,727	351,604,925	-	4,787,548	19,254
	Percent	100.00%	98.65%	0.00%	1.34%	0.01%
PDGPLT	Production, Distribution & General Plant	623,879,626	615,754,439	-	8,125,188	-
	Percent	100.00%	98.70%	0.00%	1.30%	0.00%