

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 8/5/15 Date of Response: 8/12/15; 10/30/15; 12/21/15; 1/8/16
Request No. Staff 1-2 Witness: James W. Campion, IV

REQUEST: Reference the response to Puc 1604.07 Contents of Filing Requirement Schedules. Please provide the supporting schedules for the draft tariff rates that reflect Puc rate case filing requirements. Explain all assumptions used in determining rate base, revenue and cost estimates, and rate of return.

RESPONSE: Please see response to Staff 1-7. Valley Green expects to finalize the general rate schedules in its rate proceeding.

Tech Session 1 SUPPLEMENTAL RESPONSE: See attached rate case schedules.

Set 3 CONFIDENTIAL SUPPLEMENTAL RESPONSE: See attached confidential hypothetical rate case schedules. [REDACTED]

A thirty (30) year life, rather than 40 years, has been assigned to Structures as directed by Staff in an email following Staff's initial discovery request.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Valley Green will be doing this in part because the timetable laid out in the technical session now includes three unexpected additional months of discovery and deliberation in the first

quarter of 2016. Valley Green had expected this time to be devoted to post-decision site plan development. Pushing that work to later in the year would cripple the development of non-regulated business efforts which are already well under way. Also, Valley Green sees these efforts as essential to effectively bringing gas service to as many Upper Valley residents as possible.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

As stated above, this does not represent a change in the rate schedule estimates that were filed in response to Staff 1-2 (tech session supplement). Rather, it is a clarification regarding the scope of our total business plan and our intention to maximize our service to as many sectors of our market at the earliest possible date.

DG 15-155
Valley Green Natural Gas, LLC
Petition for Franchise Approval
Staff Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 8/5/15

Date of Response: 8/12/15; 12/21/15; 1/8/16

Witnesses: Scott Brown

Request No. 1-7

James W. Campion, IV

REQUEST: Reference Brown Testimony, p. 2, lines 10-17. Please provide the most recent financial analysis and expected financial structuring related to the development, construction and operation of the facility.

CONFIDENTIAL RESPONSE: See attached confidential financial spreadsheets.

CONFIDENTIAL SUPPLEMENTAL RESPONSE: See attached electronic confidential financial spreadsheets.

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15
Request No. Staff 3-1

Date of Response: 12/7/15; 12/21/15; 1/8/16
Witness: James W. Campion, IV

REQUEST: Please list the 10 potential customers with the greatest annual load usage and for each: (a) the projected annual usage, (b) design day use, (c) current fuel use, (d) distance from the plant, (e) customer class, (f) a summary of discussions/negotiations between the Company and potential customer. (g) For customers that the Company expects to serve under a special contract, please explain why tariff rates should not apply.

SUPPLEMENTAL CONFIDENTIAL RESPONSE:

As stated in Valley Green's petition, Valley Green is targeting select areas for its initial build out. These areas are designated as Service Area A, Service Area B, and Service Area C. Customers were selected from these Service Areas. [REDACTED]

Overall, Valley Green expects the Service Areas to require approximately 60,000 gallons of LNG per day during the winter and 30,000 gallons of LNG per day during the summer load. The nature of the gas service will be firm, uninterruptible commercial/industrial service. Residential service will be provided when residential customers are located along Valley Green's gas mains, however, that load is not imbedded in the 60,000/30,000 estimate. Valley Green designed its storage facility assuming 27,095 gallons of LNG per day.

Within the Service Areas, such as Service Area B, Valley Green estimated square footage of the customer's facilities using publicly available municipal assessor information. Valley Green used a demand factor of 90.58 cf/sf based on information available from the U.S. Energy Information Administration. See Arwen 1-5 and Stanley testimony at 4-5.

Members of the Lebanon-Hanover Corporate Energy Work Group are denoted by an *.

Service Area A

Total annual load was calculated on baseload use of LNG: 18,287 gallons/day or 1,511 MSCFD. Fuel mix will include use of CNG and methane as supplies are available and when such supplies are competitively priced. [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

(g) Special Contract: RSA 378:18 allows special contracts when circumstances exist which warrant a departure from the general tariff rates. The departure is in the public interest because the special contract rate will not be lower than Valley Green's estimated long run marginal cost. The special contract will benefit Valley Green by retaining a large-use customer for a reliable term of years. The contract will benefit the customer in terms of favorable pricing. The contract will benefit tariff customers because the increased volume of gas purchased will help secure more favorable, lower cost supply than if Valley Green purchased a lesser quantity of gas supply and CIAC contributions under the terms of the Special Contract.

Service Area B

Total annual load was calculated on baseload use of LNG: 4,041 gallons/day or 344 MSCFD.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Service Area C

Total annual load was calculated on baseload use of LNG: 4,767 gallons/day or 394 MSCFD.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15
Request No. Staff 3-2

Date of Response: 12/21/15; 1/8/16
Witness: James W. Campion, IV

REQUEST:

- a) What is the annual projected sales amount necessary for the Company to go forward with the project (ordering equipment and commencing construction)?
- b) For each of the first five years, please provide projected annual Dth sales, net income and rate of return.
- c) For the utility, what is the anticipated breakeven point in annual sales and in what year does the Company expect to reach the breakeven point? (The year in which revenue exceeds the revenue requirement. Please also identify the year in which the Company first generates a profit.)

Please provide supporting schedules in both hard copy and electronic (Microsoft Excel) formats, with all data and formulas intact.

CONFIDENTIAL RESPONSE:

See ~~also~~ Supplemental Response financial schedules to Staff 1-7 and related responses to Staff 3-10 and Supplemental Staff 1-2. See [REDACTED] in the Staff 1-7 Financials.

- a) ~~Valley Green's project is designed to provide [REDACTED]~~
in response to Supplemental Staff 1-2 ~~also provide projected sales, equipment that will be ordered, and what construction is expected for 2016. Valley Green is [REDACTED]~~

[REDACTED]

b)

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the break-even point cannot be discussed without first discussing one of the main reasons why Valley Green Natural Gas, LLC was formed: to bring competitive energy alternatives to the Upper Valley. Valley Green presumes Staff is aware of the precipitous drop in crude oil prices that has occurred since Valley Green first meeting with PUC staff in 2012. On the date of that meeting with Staff, the price of Brent crude was \$107.86. As of this writing, Brent Crude oil now stands at \$37.66 dollars a barrel. Mont Belvieu propane prices in the same time span have collapsed from \$1.70 to 38 cents. These fuels are the energy source for the majority of the franchise territory consumer load and are the fuels Valley Green intended to compete with to bring price relief to businesses in the Upper Valley.

Valley Green's break-even point is not prolonged by having costs from outside the franchise. Valley Green will be providing service to only local interests in the Hanover and Lebanon area. Its revenue requirement will be based solely on the costs to provide service to customers in Hanover and Lebanon and it will have the benefit of a strong unregulated affiliate. [REDACTED]

[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Response to Staff 3-2

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Annual Sales (Dth)					
Net Operating Income (\$000s)					
PUC Rate of Return					
Net Utility Plant					
Fuel Stock					
Working Capital					
Rate Base					
PUC Rate of Return					
Net Operating Income Required					

Valley Green Natural Gas LLC
 Organization Chart 4: Phases II through III
 Response to Staff 3-2

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Annual Sales (Dth)					
Net Operating Income (\$000s)					
PUC Rate of Return					
Net Utility Plant					
Fuel Stock					
Working Capital					
Rate Base					
PUC Rate of Return					
Net Operating Income Required					

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Response to Staff 3-2

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5
Annual Sales (Dth)					
Net Operating Income (\$000s)					
PUC Rate of Return					
Net Utility Plant					
Fuel Stock					
Working Capital					
Rate Base					
PUC Rate of Return					
Net Operating Income Required					

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15
Request No. Staff 3-6

Date of Response: 12/7/15
Witness: James W. Campion, IV

REQUEST: Ref. Staff DR 1-7. Please provide an updated schedule and denote which inputs have changed.

RESPONSE: Please see Valley Green Natural Gas, LLC's supplemental confidential response to Staff 1-7.

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15
Request No. Staff 3-8

Date of Response: 12/21/15; 1/8/16
Witness: James W. Campion, IV

REQUEST: Please provide an updated organization chart with annual cost (direct & indirect) of each position and service.

CONFIDENTIAL RESPONSE:

(a) [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Valley Green has used its best efforts to separate cost estimates for [REDACTED]
[REDACTED] The staffing costs have been broken out as well as estimated Operations and Maintenance (O&M) costs. One-time costs for vehicles, tools, instruments, desks, and computers are not included in the figures below or in the O&M costs estimated).

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15

Date of Response: 12/7/15

Request No. Staff 3-9

Witness: James W. Campion, IV

REQUEST: Please describe all fixed assets expected to provide utility service under a lease arrangement and the primary terms of each lease (length, annual cost, option to buy) and the percentage of cost to be allocated to the utility and the basis for the allocation.

REDACTED RESPONSE:

[REDACTED]

DG 15-155
Valley Green Hanover-Lebanon Franchise Petition
Data Requests from Commission Staff
Staff Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15
Request No. Staff 3-10

Date of Response: 12/7/15; 1/8/16
Witness: James W. Campion, IV

REQUEST: Ref. Staff DR 1-2. Please calculate the revenue requirement and rates using the attached Excel format and a 40 year average service life to calculate depreciation on structures. Please provide the response in both hard copy and electronic (Microsoft Excel) formats, with all data and formulas intact.

RESPONSE: See CONFIDENTIAL Supplemental Staff 1-2, attached.

Valley Green understands Staff seeks to have Valley Green provide information for future test years 2017 and 2020 and complete Schedule 1, Revenue Requirement; Schedule 2, Revenue, Expenses, and Income; Schedule 3, Working Capital, Rate Base; and Schedule 4, Rate of Return.

[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - Revenue Requirement

	<u>Reference</u>		
Rate Base	Schedule-3	<div></div>	<div></div>
Rate of Return	Schedule-4	<div></div>	<div></div>
Income Required		<div></div>	<div></div>
Net Operating Income	Schedule-2	<div></div>	<div></div>
Operating Income Surplus/(Deficiency)		<div></div>	<div></div>
Tax Effect		<div></div>	<div></div>
Revenue Surplus/(Deficiency)		<div></div>	<div></div>
Federal Income Tax Rate		<div></div>	<div></div>
State Income Tax Rate		<div></div>	<div></div>
Federal Benefit of State Income Tax		<div></div>	<div></div>
Northern Effective Tax Rate		<div></div>	<div></div>
Gross-Up Factor = 1/(1-effective tax rate)		<div></div>	<div></div>

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - Revenue and Expense
Income

	Number of Customers	Annual mmBtu	Delivery Revenue	Supply Revenue	Total Revenue	Average Per Therm Rate
Revenue*						
C&I - Tariff						
Residential						
C&I- Special Contract						
Total						
Adjustment to Revenue						
Total Operating Revenue						
Expenses*	Company FTEs	Payroll Dir & Indir	Contract Services	Company Non-Labor	Expense	
Distribution O&M						
Admin & General Expenses						
Total Delivery Expense						
Supply - LNG						
Supply - CNG						
Total Supply Expense						
Total Operating Expenses						
Depreciation						
Local Property Tax						
State Utility Property Tax						
State Income Taxes - 8.5%						
Federal Income Taxes - 34%						
Deferred State Income Tax						
Deferred Federal Income Tax						
Total Operating Expenses						
Net Operating Income						
Interest Expense						
Amortization of Financing Costs						
Net Income						

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - Revenue and Expense
Income

	Number of Customers	Annual mmBtu	Delivery Revenue	Supply Revenue	Total Revenue	Average Per Therm Rate
Revenue*						
C&I - Tariff						
Residential						
C&I - Special Contract						
Total						
Total Operating Revenue						
Expenses*	Company FTEs	Payroll Dir & Indir	Contract Services	Company Non-Labor	Expense	
Distribution O&M						
Admin & General Expenses						
Total Delivery Expense						
Supply - I NG						
Supply - CNG						
Total Supply Expense						
Total Operating Expenses						
Depreciation & Amortization						
Local Property Tax						
State Utility Property Tax						
State Income Taxes - 8.5%						
Federal Income Taxes - 34%						
Deferred State Income Tax						
Deferred Federal Income Tax						
Total Operating Expenses						
Net Operating Income						
Interest Expense						
Amortization of Financing Costs						
Net Income						

* Figures represent dollars and include inflation from Inputs tab.

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - Rate Base

Plant in Service
Less: Accumulated Depreciation
Net Utility Plant
Plus: Fuel Stock
Plus: Working Capital
Less: Deferred Taxes

Rate Base

Utility Plant in Service

	Cost	Average Service Life	Book Depreciation Rate	Annual Depreciation	Accumulated Depreciation
Franchise					
Land					
LNG Structures					
LNG Equipment					
CNG Structures					
CNG Equipment					
Distribution Mains					
Distribution Services					
Total					
	Linear Feet	Average Cost per Foot			

Distribution Mains
2 inch
4 inch
6 inch
8 inch or greater

Distribution Services

Estimated # of feet of pipe, mains,
& services in the roadway

	Cost	Average Service Life	Depreciation Rate	Annual Depreciation	Accumulated Depreciation
Franchise					
Land					
LNG Structures					
LNG Equipment					
CNG Structures					
CNG Equipment					
Distribution Mains					
Distribution Services					
Total					
	Linear Feet	Average Cost per Foot			

Distribution Mains
2 inch
4 inch
6 inch
8 inch or greater

Distribution Services

Estimated # of feet of pipe, mains,
& services in the roadway

\$

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - Working Capital

	2023	2024	2025	2026	2027
Distribution O&M Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Working Capital Percentage (net lag in days/365)	10%	10%	10%	10%	10%
Distribution Working Capital Requirement	100,000	100,000	100,000	100,000	100,000
Supply Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Working Capital Percentage (net lag in days/365)	10%	10%	10%	10%	10%
Supply Working Capital	100,000	100,000	100,000	100,000	100,000
Total Working Capital Requirement	200,000	200,000	200,000	200,000	200,000

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]
Ratemaking Interest Synchronization				[REDACTED]
Rate Base				
Cost Of Debt				
[REDACTED] Interest Expense			[REDACTED]	
[REDACTED] Amortization of Financing Costs			[REDACTED]	
[REDACTED] Total Interest Expense			[REDACTED]	

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]

- (1) Retained earnings reflects 2 years [REDACTED] of net income.
(2) Long Term Debt reflects 2 years [REDACTED] of principle payments.

Ratemaking Interest Synchronization

Rate Base
Cost Of Debt

[REDACTED] Interest Expense
[REDACTED] Amortization of Financing Costs
[REDACTED] Total Interest Expense

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - 12/31/ Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock				
Other Paid in Capital				
Retained Earnings (1)				
Total Equity				
Long Term Debt (2)				
Total Capital / Overall Rate of Return				

- (1) Retained earnings reflects 3 years of net income.
(2) Long Term Debt reflects 3 years of principle payments.

Ratemaking Interest Synchronization		
Rate Base		
Cost Of Debt		
Interest Expense		
Amortization of Financing Costs		
Total Interest Expense		

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - 12/31/ Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock				
Other Paid in Capital				
Retained Earnings (1)				
Total Equity				
Long Term Debt (2)				
Total Capital / Overall Rate of Return				

- (1) Retained earnings reflects 5 years of net income.
(2) Long Term Debt reflects 5 years of principle payments.

Ratemaking Interest Synchronization

Rate Base		
Cost Of Debt		
Interest Expense		
Amortization of Financing Costs		
Total Interest Expense		

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - Revenue Requirement

Rate Base	<u>Reference</u> Schedule-3	<div></div>	<div></div>
Rate of Return	Schedule-4	<div></div>	<div></div>
Income Required		<div></div>	<div></div>
Net Operating Income	Schedule-2	<div></div>	<div></div>
Operating Income Surplus/(Deficiency)		<div></div>	<div></div>
Tax Effect		<div></div>	<div></div>
Revenue Surplus/(Deficiency)		<div></div>	<div></div>
Federal Income Tax Rate		<div></div>	<div></div>
State Income Tax Rate		<div></div>	<div></div>
Federal Benefit of State Income Tax		<div></div>	<div></div>
Northern Effective Tax Rate		<div></div>	<div></div>
Gross-Up Factor = 1/(1-effective tax rate)		<div></div>	<div></div>

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - Revenue and Expense
Income

	of Customers	mmBtu	Revenue	Revenue	Total Revenue	Per Therm Rate
Revenue*						
C&I - Tariff						
Residential						
C&I- Special Contract						
Total						
Total Operating Revenue						
Expenses*	Company FTEs	Payroll Dir & Indir	Contract Services	Company Non-Labor	Expense	
Distribution O&M						
Admin & General Expenses						
Total Delivery Expense						
Supply - LNG						
Supply - CNG						
Total Supply Expense						
Total Operating Expenses						
Depreciation						
Local Property Tax						
State Utility Property Tax						
State Income Taxes - 8.5%						
Federal Income Taxes - 34%						
Deferred State Income Tax						
Deferred Federal Income Tax						
Total Operating Expenses						
Net Operating Income						
Interest Expense						
Amortization of Financing Costs						
Net Income						

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - Revenue and Expense
Income

	Number of Customers	Annual mmBtu	Delivery Revenue	Supply Revenue	Total Revenue	Average Per Therm Rate
Revenue*						
C&I - Tariff						
Residential						
C&I- Special Contract						
Total						
Adjustment to Revenue						
Total Operating Revenue						

	Company FTEs	Payroll Dir & Indir	Contract Services	Company Non-Labor	Expense
Expenses*					
Distribution O&M					
Admin & General Expenses					
Total Delivery Expense					
Supply - LNG					
Supply - CNG					
Total Supply Expense					
Total Operating Expenses					
Depreciation & Amortization					
Local Property Tax					
State Utility Property Tax					
State Income Taxes - 8.5%					
Federal Income Taxes - 34%					
Deferred State Income Tax					
Deferred Federal Income Tax					
Total Operating Expenses					
Net Operating Income					
Interest Expense					
Amortization of Financing Costs					
Net Income					

* Figures represent dollars and include inflation from Inputs tab.

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - Rate Base

Plant in Service		
Less: Accumulated Depreciation		
Net Utility Plant		
Plus: Fuel Stock		
Plus: Working Capital		
Less: Deferred Taxes		
Rate Base		

Utility Plant in Service	Cost	Average Service Life	Book Depreciation Rate	Annual Depreciation	Accumulated Depreciation
Franchise					
Land					
LNG Structures					
LNG Equipment					
CNG Structures					
CNG Equipment					
Distribution Mains					
Distribution Services					
Total					
	Linear Feet	Average Cost per Foot			

Distribution Mains
2 inch
4 inch
6 inch
8 inch or greater

Distribution Services

Estimated # of feet of pipe, mains,
& services in the roadway

Utility Plant in Service	Cost	Average Service Life	Book Depreciation Rate	Annual Depreciation	Accumulated Depreciation
Franchise					
Land					
LNG Structures					
LNG Equipment					
CNG Structures					
CNG Equipment					
Distribution Mains					
Distribution Services					
Total					
	Linear Feet	Average Cost per Foot			

Distribution Mains
2 inch
4 inch
6 inch
8 inch or greater

Distribution Services

Estimated # of feet of pipe, mains,
& services in the roadway

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - Working Capital

	2023	2024	2025	2026	2027
Distribution O&M Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Working Capital Percentage (net lag in days/365)	10%	10%	10%	10%	10%
Distribution Working Capital Requirement	100,000	100,000	100,000	100,000	100,000
Supply Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Working Capital Percentage (net lag in days/365)	10%	10%	10%	10%	10%
Supply Working Capital	100,000	100,000	100,000	100,000	100,000
Total Working Capital Requirement	200,000	200,000	200,000	200,000	200,000

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

Item	Dollar Amount	Component Ratio (%)	Component Cost Rate(%)	Weighted Average Cost Rate (%)
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]
Ratemaking Interest Synchronization			[REDACTED]	[REDACTED]
Rate Base				
Cost Of Debt				
[REDACTED] Interest Expense			[REDACTED]	
[REDACTED] Amortization of Financing Costs			[REDACTED]	
[REDACTED] Total Interest Expense			[REDACTED]	

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

Item	Dollar Amount	Component Ratio (%)	Component Cost Rate(%)	Weighted Average Cost Rate (%)
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]

(1) Retained earnings reflects 2 years [REDACTED] of net income.
(2) Long Term Debt reflects 2 years [REDACTED] of principle payments.

Rate Base		[REDACTED]	[REDACTED]
Cost Of Debt			
[REDACTED] Interest Expense			[REDACTED]
[REDACTED] Amortization of Financing Costs			[REDACTED]
[REDACTED] Total Interest Expense			[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - 1 Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock				
Other Paid in Capital				
Retained Earnings (1)				
Total Equity				
Long Term Debt (2)				
Total Capital / Overall Rate of Return				
(1) Retained earnings reflects 3 years of net income.				
(2) Long Term Debt reflects 3 years of principle payments.				
Rate-making Interest Synchronization				
Rate Base				
Cost Of Debt				
Interest Expense				
Amortization of Financing Costs				
Total Interest Expense				

Valley Green Natural Gas LLC
Organization Chart 3: Phase II Only
Staff Future Test Year Hypothetical - 12/31/2018 Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock				
Other Paid in Capital				
Retained Earnings (1)				
Total Equity				
Long Term Debt (2)				
Total Capital / Overall Rate of Return				
(1) Retained earnings reflects 4 years of net income.				
(2) Long Term Debt reflects 4 years of principle payments.				
Ratemaking Interest Synchronization				
Rate Base				
Cost Of Debt				
Interest Expense				
Amortization of Financing Costs				
Total Interest Expense				

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]
(1) Retained earnings reflects 4 years [REDACTED] of net income.				
(2) Long Term Debt reflects 4 years [REDACTED] of principle payments.				
Ratemaking Interest Synchronization			[REDACTED]	[REDACTED]
Rate Base				
Cost Of Debt				
[REDACTED] Interest Expense				[REDACTED]
[REDACTED] Amortization of Financing Costs				[REDACTED]
[REDACTED] Total Interest Expense				[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 4: Phases II through III
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]

- (1) Retained earnings reflects 5 years [REDACTED] of net income.
(2) Long Term Debt reflects 5 years [REDACTED] of principle payments.

Ratemaking Interest Synchronization

Rate Base
Cost Of Debt

[REDACTED] Interest Expense
[REDACTED] Amortization of Financing Costs
[REDACTED] Total Interest Expense

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - Revenue Requirement

Rate Base	<u>Reference</u> Schedule-3	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Rate of Return	Schedule-4	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Income Required		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Net Operating Income	Schedule-2	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Operating Income Surplus/(Deficiency)		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Tax Effect		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Revenue Surplus/(Deficiency)		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Federal Income Tax Rate		<div><div></div><div></div></div>	<div><div></div><div></div></div>
State Income Tax Rate		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Federal Benefit of State Income Tax		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Northern Effective Tax Rate		<div><div></div><div></div></div>	<div><div></div><div></div></div>
Gross-Up Factor = 1/(1-effective tax rate)		<div><div></div><div></div></div>	<div><div></div><div></div></div>

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - Revenue and Expense
Income

	Number of Customers	Annual mmBtu	Delivery Revenue	Supply Revenue	Total Revenue	Average Per Therm Rate
Revenue*						
C&I - Tariff						
Residential						
C&I- Special Contract						
Total						
Adjustment to Revenue						
Total Operating Revenue						
Expenses*	Company FTEs	Payroll Dir & Indir	Contract Services	Company Non-Labor	Expense	
Distribution O&M						
Admin & General Expenses						
Total Delivery Expense						
Supply - LNG						
Supply - CNG						
Total Supply Expense						
Total Operating Expenses						
Depreciation						
Local Property Tax						
State Utility Property Tax						
State Income Taxes - 8.5%						
Federal Income Taxes - 34%						
Deferred State Income Tax						
Deferred Federal Income Tax						
Total Operating Expenses						
Net Operating Income						
Interest Expense						
Amortization of Financing Costs						
Net Income						

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - Revenue and Expense
Income

	Number of Customers	Annual mmBtu	Delivery Revenue	Supply Revenue	Total Revenue	Average Per Therm Rate
Revenue*						
C&I - Tariff						
Residential						
C&I - Special Contract						
Total						
Adjustment to Revenue						
Total Operating Revenue						
Expenses*	Company FTEs	Payroll Dir & Indir	Contract Services	Company Non-Labor	Expense	
Distribution O&M						
Admin & General Expenses						
Total Delivery Expense						
Supply - LNG						
Supply - CNG						
Total Supply Expense						
Total Operating Expenses						
Depreciation & Amortization						
Local Property Tax						
State Utility Property Tax						
State Income Taxes - 8.5%						
Federal Income Taxes - 34%						
Deferred State Income Tax						
Deferred Federal Income Tax						
Total Operating Expenses						
Net Operating Income						
Interest Expense						
Amortization of Financing Costs						
Net Income						

* Figures represent \$ millions and include inflation from Inputs tab

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - Rate Base

Plant in Service		
Less: Accumulated Depreciation		
Net Utility Plant		
Plus: Fuel Stock		
Plus: Working Capital		
Less: Deferred Taxes		

Rate Base		
------------------	--	--

Utility Plant in Service 12/31/19					
	Cost	Average Service Life	Book Depreciation Rate	Annual Depreciation	Accumulated Depreciation
Franchise					
Land					
LNG Structures					
LNG Equipment					
CNG Structures					
CNG Equipment					
Distribution Mains					
Distribution Services					
Total					

	Linear Feet	Average Cost per Foot
Distribution Mains		
2 inch		
4 inch		
6 inch		
8 inch or greater		

Distribution Services		
Estimated # of feet of pipe, mains, & services in the roadway		\$

Utility Plant in Service					
	Cost	Average Service Life	Book Depreciation Rate	Annual Depreciation	Accumulated Depreciation
Franchise					
Land					
LNG Structures					
LNG Equipment					
CNG Structures					
CNG Equipment					
Distribution Mains					
Distribution Services					
Total					

	Linear Feet	Average Cost per Foot
Distribution Mains		
2 inch		
4 inch		
6 inch		
8 inch or greater		

Distribution Services		
Estimated # of feet of pipe, mains, & services in the roadway		

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - Working Capital

	2022	2023	2024	2025	2026
Distribution O&M Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Working Capital Percentage (net lag in days/365)	10%	10%	10%	10%	10%
Distribution Working Capital Requirement	100,000	100,000	100,000	100,000	100,000
Supply Expense	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Working Capital Percentage (net lag in days/365)	10%	10%	10%	10%	10%
Supply Working Capital	100,000	100,000	100,000	100,000	100,000
Total Working Capital Requirement	200,000	200,000	200,000	200,000	200,000

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]
Ratemaking Interest Synchronization				[REDACTED]
Rate Base				
Cost Of Debt				
[REDACTED] Interest Expense			[REDACTED]	
[REDACTED] Amortization of Financing Costs			[REDACTED]	
[REDACTED] Total Interest Expense			[REDACTED]	

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - 1 Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock				
Other Paid in Capital				
Retained Earnings (1)				
Total Equity				
Long Term Debt (2)				
Total Capital / Overall Rate of Return				

- (1) Retained earnings reflects 2 years of net income.
(2) Long Term Debt reflects 2 years of principle payments.

Rate-making Interest Synchronization		
Rate Base		
Cost Of Debt		
Interest Expense		
Amortization of Financing Costs		
Total Interest Expense		

[REDACTED]
[REDACTED]
[REDACTED]

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]

(1) Retained earnings reflects 3 years [REDACTED] of net income.

(2) Long Term Debt reflects 3 years [REDACTED] of principle payments.

Ratemaking Interest Synchronization

Rate Base
Cost Of Debt

[REDACTED] [REDACTED]

[REDACTED] Interest Expense
[REDACTED] Amortization of Financing Costs
[REDACTED] Total Interest Expense

[REDACTED]
[REDACTED]
[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]			
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]			

(1) Retained earnings reflects 4 years [REDACTED] of net income.
(2) Long Term Debt reflects 4 years [REDACTED] of principle payments.

Ratemaking Interest Synchronization

Rate Base
Cost Of Debt

[REDACTED] Interest Expense
[REDACTED] Amortization of Financing Costs
[REDACTED] Total Interest Expense

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

Valley Green Natural Gas LLC
Organization Chart 5: Phases II through IV
Staff Future Test Year Hypothetical - [REDACTED] Rate of Return

<u>Item</u>	<u>Dollar Amount</u>	<u>Component Ratio (%)</u>	<u>Component Cost Rate(%)</u>	<u>Weighted Average Cost Rate (%)</u>
Common Stock	[REDACTED]	[REDACTED]		
Other Paid in Capital				
Retained Earnings (1)	[REDACTED]	[REDACTED]		
Total Equity	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Long Term Debt (2)	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Total Capital / Overall Rate of Return	[REDACTED]	[REDACTED]		[REDACTED]

- (1) Retained earnings reflects 5 years [REDACTED] of net income.
(2) Long Term Debt reflects 5 years [REDACTED] of principle payments.

Ratemaking Interest Synchronization

Rate Base
Cost Of Debt

[REDACTED] Interest Expense
[REDACTED] Amortization of Financing Costs
[REDACTED] Total Interest Expense

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]

DG 15-155
Valley Green Natural Gas, LLC
OCA Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 06/15/15
Request No. OCA 1-6

Date of Response: 06/25/15; 12/7/15
Witness: James W. Campion, IV

REQUEST: Will any other entity be providing continual management or support services to Valley Green? If so, please provide any contracts, or other evidence of the terms, and costs, of those anticipated support services.

RESPONSE: At this time, Valley Green anticipates contracting with a vendor to provide billing services. Valley Green has not yet identified a vendor. Valley Green has not drafted an agreement for these services.

REDACTED SUPPLEMENTAL RESPONSE: Valley Green contacted multiple meter reading and billing vendors and requested the attached proposal and scope of work [REDACTED]

[REDACTED]

Valley Green has retained [REDACTED]

[REDACTED] term.

DG 15-155

Valley Green Natural Gas, LLC

OCA Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 06/15/15

Date of Response: 06/25/15; 12/9/15

Request No. OCA 1-7

Witness: James W. Campion, IV

REQUEST: Has Valley Green considered any supply sources other than the regasification of LNG, for purposes of serving customers on its planned gas distribution system? If so, please explain any alternatives that Valley Green deems potentially feasible.

RESPONSE: Valley Green reserves the right to add Compressed Natural Gas (CNG), Syngas, landfill or digester Methane, propane or other alternate supply sources to its fuel supply mix.

SUPPLEMENTAL RESPONSE: See OCA 3-27.

DG 15-155
Valley Green Natural Gas, LLC
OCA Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 06/15/15
Request No. OCA 1-8

Date of Response: 06/25/15; 12/7/15
Witness: James W. Campion, IV

REQUEST: Has Valley Green already secured contracts for the purchase and delivery of LNG to Valley Green's facilities? If so, please provide copies of such contracts or other evidence of agreement. If not, please provide all available detail concerning the expected terms with respect to procurement of LNG.

RESPONSE: Valley Green is presently negotiating a binding LNG purchase and sales agreement with Gulf Oil. A copy of the contract will be made available when it is finalized.

SUPPLEMENTAL RESPONSE: See also Valley Green's supplemental response to Staff 1-2.

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DG 15-155

Valley Green Natural Gas, LLC

OCA Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 06/15/15

Date of Response: 06/25/15

Request No. OCA 1-26

Witness: James W. Campion. IV

REQUEST: Please provide a copy of the memorandum of understanding, and all other existing agreements between Gulf and Valley Green and between TRI-MONT and Valley Green.

CONFIDENTIAL RESPONSE: Valley Green interprets this question to include draft agreements but not retainer agreements. Please see the attached, redacted and unredacted MOU between Gulf and Valley Green.

The supply agreement and operations agreement between Gulf and Valley Green are conceptual, preliminary drafts and have not undergone legal review. Pursuant to Puc 203.09(k), Valley Green will supplement this response with the drafts once they have been reviewed. The operations and maintenance agreement between TRI-MONT and Valley Green is similarly in a conceptual, preliminary form. Valley Green will supplement this response with the draft once it has undergone legal review.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is made as of the date set forth below between Valley Green Natural Gas, LLC ("VGNG"), a New Hampshire limited liability company with offices at 44 S. Main Street, Hanover, NH 03755, and Gulf Oil Limited Partnership ("Gulf"), a Delaware limited partnership with offices at 100 Crossing Boulevard, Framingham, MA 01702.

Introduction

VGNG is developing a natural gas storage and vaporization facility and regulated distribution pipeline network (together, the "VGNG Facility") to supply natural gas to retail customers in Lebanon and/or Hanover, New Hampshire. Gulf operates as a supplier of refined petroleum products. VGNG and Gulf are interested in negotiating possible long-term contracts whereby (a) Gulf will supply VGNG and its retail customers with liquefied natural gas ("LNG"), and VGNG will purchase such LNG, which VGNG will convert into natural gas for distribution, (b) Gulf may provide full operational management for the VGNG Facility, and (c) Gulf may lease a permitted pad site adjacent to the VGNG Facility to install, access and operate a CNG and LNG refueling depot to service Gulf fleet vehicles (and potentially other vehicles) in the area.

This MOU is intended to outline potential terms in advance of potential, dedicated negotiations toward a possible definitive agreement between the parties, and does not represent contractual terms capable of acceptance or enforcement, except to the extent provided under "Binding Terms" below, which terms shall bind the parties. Neither VGNG nor Gulf have any obligation, legal or otherwise, to proceed with any transaction with each other. The matters set forth in this MOU constitute an expression of interest only and, except for the limited "Binding Terms" below, do not constitute a binding agreement between the parties. Any binding agreement between the parties would only arise as a result of the negotiation, execution and delivery of a written definitive agreement having terms and conditions satisfactory to the parties to such agreement.

A. Development of VGNG Facility

1. VGNG will be responsible for the permitting, engineering, procurement and construction of the VGNG Facility and its retail service operations, and the financing of the installation. VGNG is targeting a substantial completion date in the 3rd quarter of 2016. VGNG will consult with Gulf during the design phase, and Gulf will review and comment on VGNG Facility designs at its own expense. VGNG currently anticipates an initial VGNG Facility storage capacity of up to 1 million gallons initially, expandable in the future.
2. VGNG has received zoning approval for a facility site on a 182-acre parcel in Lebanon, New Hampshire. VGNG anticipates submitting final site plans to Lebanon and other relevant state and local agencies during the 1st quarter of 2015 for the

VGNG Facility. VGNG will file a retail service tariff with the New Hampshire Public Utilities Commission ("NHPUC") and obtain such approvals as are required for VGNG Facility financing and operations. The final "PUC Tariff" including the retail rates charged by VGNG must reflect the capital costs associated with the VGNG Facility, the operational costs associated with maintaining and managing a retail distribution supply company, and gas storage costs, as well as the LNG supply and facility operational terms negotiated with Gulf. The parties recognize that, if they are able to negotiate any definitive contractual arrangements, such contracts will be subject to approval by the NHPUC.

3. VGNG may determine to partner with one or more third parties in connection with financing the VGNG Facility. VGNG is committed via Letter of Intent with New Energy Capital Partners regarding a financing plan for the VGNG Facility.

B. LNG Supply

1. VGNG is interested in providing its retail gas customers with two basic services: (i) a "Tolling Service" in which the customer purchases LNG directly from Gulf (or other suppliers after expiration of initial service arrangements), and VGNG provides storage and delivery to the customer, and (ii) "Retail Supply Service" through which VGNG purchases LNG from Gulf only and no other suppliers and resells it to customers. Of the two services, VGNG anticipates Retail Supply Service remaining prevalent for several years [REDACTED]

[REDACTED] For that reason, VGNG is interested in long-term, fixed or semi-fixed price firm LNG supply arrangements for the VGNG Facility.

2. Contingent upon and subject to the parties negotiating and executing a definitive and binding LNG supply agreement, Gulf anticipates being able to offer a long-term firm supply of LNG at the pricing indicated in Exhibit A, with such possible pricing to be further analyzed by Gulf during negotiation of a definitive LNG supply agreement.
3. Gulf acknowledges that, contingent upon and subject to the parties negotiating and executing a definitive and binding LNG supply agreement, VGNG may choose to purchase a series of hedges on natural gas prices (e.g., positions in natural gas futures contracts) during the term of any LNG supply agreement in order to protect some or all of its customers against fluctuations in natural gas prices. Contingent upon and subject to the parties negotiating and executing a definitive and binding LNG supply agreement and subject to Gulf's credit and other review of any such hedge purchases, [REDACTED]

4. Contingent upon and subject to the parties negotiating and executing a definitive LNG supply agreement, Gulf will be responsible for sourcing LNG to meet its LNG supply obligations to VGNG, subject only to events of force majeure to be defined in any definitive agreement between the parties. Gulf anticipates developing a gas liquefaction plant in eastern Pennsylvania during the term of the VGNG supply agreement, but whether or not such development proceeds will not affect Gulf's obligations to supply LNG under any definitive supply arrangements the parties may enter into. All delivered LNG must meet all applicable quality standards, to be defined in any definitive LNG supply agreement between the parties.

5.

[REDACTED]

6. **Payment Terms:** Contingent upon and subject to the parties negotiating and executing a definitive LNG supply agreement, provided that VGNG has obtained a sufficient Retail Supply Service customer base (10,000 MMBtus per month), [REDACTED]

7. **Credit Arrangements:** Both parties will present sufficient and reasonable financial information as reasonably requested by the other party under a non-disclosure agreement. If either party's creditworthiness is deemed unacceptable to the other party or the other party's financial providers, then the other party must provide additional security for performance in amounts sufficient to reasonably satisfy the other party and its creditors. The parties may make credit approval a condition of entering into any definitive agreement between them.

8. **Facilities Construction:** Contingent upon and subject to the parties negotiating and entering into a definitive and binding LNG supply agreement, the parties acknowledge that any such definitive agreement may include termination rights and other terms contingent upon VGNG completing the VGNG Facility and Gulf completing the liquefaction facility. [REDACTED]

[REDACTED]

C. VGNG Facility Management Services

1. Gulf is interested in providing all essential operation and maintenance services for the VGNG Facility ("O&M Services") for a term that would be co-extensive with its initial LNG supply obligations, if any. Contingent upon and subject to the parties negotiating and executing a definitive and binding agreement for O&M Services, the O&M Services may include, but may not be limited to, (i) scheduled VGNG Facility maintenance; (ii) daily operations, including receipt of LNG supply; (iii) provision of on-site operational staff; and (iv) compilation and submission of all required reports to regulatory agencies, facility lenders and insurers.
2. [REDACTED]
[REDACTED]. Any final arrangements must be submitted to the NHPUC, and the cost of such arrangements reflected in final NHPUC-approved service tariffs. [REDACTED]
[REDACTED]
3. If any definitive agreement is negotiated and entered into by the parties for O&M Services, all Gulf employees working at the VGNG Facility shall have all appropriate qualifications for their positions. Gulf recognizes that VGNG is required to identify key operational personnel and their qualifications to the NHPUC, and that Gulf may be required to change personnel if such personnel are not deemed qualified by the NHPUC.

D. Lease Pad Space for Gulf Operations

1. Apart from the LNG supply and O&M Services, and contingent upon and subject to the parties negotiating and executing a definitive and binding lease agreement, VGNG will provide Gulf with a long term lease on a demised space adjacent to the VGNG Facility premises for the location and operation by Gulf (at its own cost and expense) of a CNG/LNG refueling depot to service fleet vehicles in the area. Gulf will prepare detailed draft site plans of the refueling depot at its own cost and provide them to VGNG for reasonable and timely review by its engineers, then VGNG will submit final site plans to Lebanon, the NHPUC and other relevant state and local agencies (anticipated to occur during the 1st quarter of 2015) in conjunction with its own permitting processes for the VGNG Facility. Contingent upon the parties negotiating and executing a definitive and binding lease agreement and subject to any terms and conditions included in any such definitive agreement between the parties and applicable permits and approvals, VGNG will lease LNG storage space in VGNG tank(s) to Gulf for the Gulf transportation facility if, when and to the extent that tank

E. Miscellaneous

- ## **BINDING PROVISIONS**

Each party shall keep the existence and content of this MOU and any negotiations confidential, except that either party may share this MOU with those employees, directors or representatives with a need to know, or as required by applicable law, subpoena, judicial or permitting process (including but not limited to the PUC). This obligation shall survive for a period of two (2) years from the date of this MOU.

The parties may choose to extend this MOU by mutual agreement.

Without modification of, and as further clarification of, the foregoing provisions of this Paragraph II, the parties agree that if they do not enter into any definitive, binding transaction agreements regarding the subject matter of this MOU on or before [REDACTED] at 5:00 p.m. EST.

III. Legal Costs

Each party will pay its own respective fees and expenses (including the fees and expenses of legal counsel, brokers or other representatives or consultants) in connection with the negotiation of this MOU and the transactions contemplated hereby.

IV. Term

This MOU shall expire on the earlier to occur of: (1) the date on which the parties enter into a binding and definitive agreement regarding the subject matter of this MOU; or (2) April 30, 2015 at 5:00 p.m. EST.

SIGNATURES APPEAR ON FOLLOWING PAGE

WHEREFORE, the parties hereto have executed this MOU as of the 27 day of February, 2015.

VALLEY GREEN NATURAL GAS, LLC

By: 

Name:

Title:

GULF OIL LIMITED PARTNERSHIP

By: 

Name:

Title:

EXHIBIT A
Pricing



CONFIDENTIAL

**OUTLINE OF INDICATIVE PRICING AND OTHER PROPOSED
TERMS FOR
LNG SUPPLY AND TRANSPORTATION SERVICE**

All of the following proposed supply and transport terms are contingent upon and subject to the parties negotiating and executing a definitive and binding LNG supply and transport contract:

Date	January 5, 2014
Buyer	Valley Green Natural Gas
Seller	Gulf Oil Limited Partnership
Service	Firm liquid natural gas supply (LNG) and transportation
Term	Upon completion of Seller's liquefaction facility for a term of 15 years. If, at any time after June 30, 2016, Buyer's Facility has commenced operation but Seller's liquefaction facility has not yet commenced operation and is not ready to deliver LNG to the VGNG Facility, Gulf will procure LNG on behalf of VGNG at a fair and equitable rate on an as-needed basis.
Contract Quantity	<u>Maximum Daily Quantity (MDQ): November to March</u> Up to 5 loads of LNG per day – approximately 50,000 gallons or 4,165 MMBtu <u>MDQ: April to October</u> Up to 3 loads of LNG per day – approximately 30,000 gallons or 2,499 MMBtu <u>Annual Contract Quantity (ACQ)</u> Up to 1,200 loads of LNG per year – Approximately 12,000,000 gallons or 999,600 MMBtu <ul style="list-style-type: none">MDQ and ACQ levels are used for discussion purposes only. Smaller or larger volume levels are available and pricing will be provided upon request.
Delivery Point	The receiving flange of Buyer's facility located on Etna Rd., Lebanon, NH.
Commodity Charge	<u>November to March</u> For each MMBtu of natural gas ordered and delivered to Buyer, Buyer will pay to Seller a commodity rate per MMBtu equal to the NYMEX natural gas settlement price(s) [REDACTED] <u>April to October</u> For each MMBtu of natural gas ordered and delivered to Buyer, Buyer will pay to Seller a commodity rate per MMBtu equal to the NYMEX natural gas settlement price(s) [REDACTED]
Freight Charge	For each MMBtu of natural gas ordered and delivered to Buyer, Buyer will pay to

	<p>Seller a freight charge equal to [REDACTED] The Freight Charge may be adjusted annually to reflect the effect of any actual increases in driver wage rates on Seller's total freight costs.</p>
Assumptions	<p>Buyer shall be responsible for the procurement and installation of LNG storage and vaporization equipment.</p> <ul style="list-style-type: none">• Site location is on clear, level and dry land close to existing roadways suitable for delivery of LNG via trucks/trailers• Buyer will have enough storage to accommodate the delivery and transfer of up to 12,000 gallons of LNG• Buyer is responsible for securing applicable permits• Buyer is responsible for any requirements due to local LNG codes
Other	<p>This outline is strictly confidential.</p> <p>All proposed terms in this outline are contingent upon and subject to the parties negotiating and executing a definitive, binding LNG supply and transport contract. Other provisions to be included in a definitive contract, including metering, measurement, billing and payment, force majeure and related provisions will be pursuant to Seller's agreement.</p> <p>This proposal, and any definitive contract resulting there from, is contingent upon and subject to final Gulf Oil Limited Partnership Board approval or equivalent. This proposal is also contingent upon and subject to Buyer's satisfying Seller's creditworthiness requirements, to be determined in Seller's sole discretion prior to the execution of a binding contract. Buyer shall be required to maintain such creditworthiness throughout the term of the contract.</p> <p>Buyer and Seller recognize and acknowledge that this Proposal is not legally binding on either party and is intended for negotiation purposes only. Neither party has any obligation to enter into a binding legal agreement or to pursue this proposal. Any agreement would be subject to the parties' execution of a mutually agreeable contract.</p>



AMENDMENT TO MEMORANDUM OF UNDERSTANDING

THIS AMENDMENT TO MEMORANDUM OF UNDERSTANDING (the "Amendment"), dated April 22, 2015 (the "Effective Date"), is entered into by and between Valley Green Natural Gas, LLC ("VGNG"), a New Hampshire limited liability company with offices at 44 S. Main Street, Hanover, NH 03755, and Gulf Oil Limited Partnership ("Gulf"), a Delaware limited partnership, with its principal offices at 100 Crossing Boulevard, Framingham, Massachusetts.

WHEREAS, VGNG and Gulf have previously entered into that certain Memorandum of Understanding, dated February 27, 2015 (the "MOU");

WHEREAS, VGNG and Gulf now wish to amend the MOU to expand the term of the MOU by one month in order to allow additional time to negotiate and enter into final agreements regarding the subject matter of the MOU;


NOW THEREFORE, in consideration of the mutual covenants and promises contained herein and in the MOU, the adequacy and receipt of which are hereby acknowledged, the parties agree as follows:

1. The first and last sentences of Section II Exclusivity of the MOU are amended by replacing "April 30, 2015" with "May 31, 2015."
2. Section IV Term of the MOU is amended by replacing "April 30, 2015" with "May 31, 2015."
3. In all other respects, the MOU shall remain unchanged and in full force and effect. The terms of this Amendment will become effective on the Effective Date written above.
4. If any of the terms contained in this Amendment conflict with any of the terms contained in the MOU, the terms of this Amendment shall prevail.
5. The parties hereto acknowledge that they have read this Amendment and understand it and agree to be bound by its terms and conditions.
6. The parties agree that the individuals executing this Amendment are duly authorized to act on behalf of the entity for which he or she is signing and has the power to bind the entity regarding its obligations and rights in the MOU and this Amendment.
7. The parties further agree that the MOU, together with this executed Amendment, constitute the entire agreement between the parties with respect to the subject matter therein.
8. This Amendment may be executed in one or more counterparts, each of which shall be deemed an original and all of which shall constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be effective as of the day and year first above written.


Valley Green Natural Gas, LLC

4/20/2015
Date

By: 
Print Name: JAMES COMPTON
Its:

Gulf Oil Limited Partnership

4/20/2015
Date

By: 
Print Name: Ronald R. Sakla
Title: President / COO

SECOND AMENDMENT TO MEMORANDUM OF UNDERSTANDING

THIS SECOND AMENDMENT TO MEMORANDUM OF UNDERSTANDING (the "Second Amendment"), dated May 31, 2015 (the "Effective Date"), is entered into by and between Valley Green Natural Gas, LLC ("VGNG"), a New Hampshire limited liability company with offices at 44 S. Main Street, Hanover, NH 03755, and Gulf Oil Limited Partnership ("Gulf"), a Delaware limited partnership, with its principal offices at 100 Crossing Boulevard, Framingham, Massachusetts.

WHEREAS, VGNG and Gulf have previously entered into that certain Memorandum of Understanding, dated February 27, 2015, as amended on April 20, 2015 (the "MOU");

WHEREAS, VGNG and Gulf now wish to further expand the term of the MOU by one month in order to allow additional time to negotiate and enter into final agreements regarding the subject matter of the MOU;

NOW THEREFORE, in consideration of the mutual covenants and promises contained herein and in the MOU, the adequacy and receipt of which are hereby acknowledged, the parties agree as follows:

1. The first and last sentences of Section II Exclusivity of the MOU are amended by replacing "May 31, 2015" with "July 31, 2015."
2. Section IV Term of the MOU is amended by replacing "May 31, 2015" with "July 31, 2015."
3. In all other respects, the MOU shall remain unchanged and in full force and effect. The terms of this Amendment will become effective on the Effective Date written above.
4. If any of the terms contained in this Second Amendment conflict with any of the terms contained in the MOU, the terms of this Second Amendment shall prevail.
5. The parties hereto acknowledge that they have read this Second Amendment and understand it and agree to be bound by its terms and conditions.
6. The parties agree that the individuals executing this Second Amendment are duly authorized to act on behalf of the entity for which he or she is signing and has the power to bind the entity regarding its obligations and rights in the MOU and this Second Amendment.
7. The parties further agree that the MOU, together with this executed Second Amendment, constitute the entire agreement between the parties with respect to the subject matter therein.
8. This Second Amendment may be executed in one or more counterparts,

each of which shall be deemed an original and all of which shall constitute but one and the same instrument.

IN WITNESS WHEREOF, the parties hereto have caused this Second Amendment to be effective as of the day and year first above written.

Valley Green Natural Gas, LLC

By: 

Print Name: JAMES W. CAMPBELL

Its: OWNER

Gulf Oil Limited Partnership

By: 

Print Name: Ronald R. Sabia

Title: President & COO

DG 15-155
Valley Green Natural Gas, LLC
OCA Set 2 to Valley Green Natural Gas, LLC

Date Request Received: 07/10/15
Request No. OCA 2-1

Date of Response: 07/16/15; 12/9/15
Witness: James W. Campion, IV

REQUEST: Reference the response to OCA 1-2. Please identify the affiliates that Valley Green anticipates using and provide an update on the timing of the filing of such agreements for commission approval.

SUPPLEMENTAL RESPONSE: ~~The answer to OCA 1-2 is unchanged at this time and Valley Green will update its response as soon as it determines whether and what affiliates it will use. At this point, specific affiliates have not yet been identified and thus parties have not yet entered into agreements.~~ See response to Staff 1-2.

DG 15-155

Valley Green Natural Gas, LLC

OCA Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 08/17/15

Date of Response: 09/29/15; 12/9/15

Request No. OCA 3-3

Witness: James W. Campion, IV

REQUEST: Does VG have a marketing plan to attract residential customers? If so, please provide the details of such plan, to the extent it is developed at this time.

RESPONSE: Valley Green's marketing started with business customers seeking natural gas service. Businesses and industries in Lebanon and Hanover, particularly those located to the east of exit 18 of I-89 along Route 120 toward Hanover, indicated an interest in energy alternatives, including gas utility pipeline service. Valley Green began aggregating that commercial industrial interest in utility pipeline service in 2011. Letters of support and other forms of expressed interest from major employers like Hypertherm and Dartmouth-Hitchcock Medical Center and other members of the Corporate Energy Work Group of Lebanon and Hanover propelled the project through zoning permitting and preliminary Site Plan review in Lebanon. These letters are attached as well as the Work Group's March 2015 meeting summary. Because of this history and because the geographic area of the initial proposed build-out is zoned primarily IndL (light industry), there are few residential properties in the initial build-out area for Valley Green to market to. That said, Valley Green is committed to offering gas utility service to all property owners (including residential) on the projected initial build-out area.

After the initial build-out, Valley Green would look next to expand its pipeline into the downtown residential and business neighborhoods in Lebanon and Hanover, the closest residential neighborhoods to the pipeline source. Extension of the pipeline even into the closest residential neighborhoods would require substantial investment, so a decision to expand would depend on the level of customer interest. Valley Green is committed to extend service wherever it is economically viable in the franchise area.

In an effort to determine residential and commercial customer interest in these downtown neighborhoods, Valley Green has conducted a direct mail survey of businesses and residents in these areas. Valley Green is currently reviewing the responses. Depending on the results, Valley Green might adjust its plans to include more residential customers in the initial build-out.

Valley Green has presented its utility proposal in public meetings before the Planning and Zoning Boards in Lebanon and the Board of Selectmen in Hanover. Valley Green also held a public informational meeting on May 28, 2015 in the Lebanon city library, at which it fielded questions from attendees. These presentations and media reports resulting there from have gotten the word out. Following these sessions, some prospective residential customers have contacted Valley Green.

Valley Green has developed an informational web site (www.valleygreenutilities.com). Prospective residential customers and others can view ongoing progress on planning, permitting,

and related initiatives. A copy of the above-described survey is available at the web site and is attached. The web site also details other ways Valley Green is introducing natural gas as an energy choice in the Upper Valley. These include:

- A project to integrate Lebanon landfill methane gas into its fuel mix.
- A project with Casella Waste Services to remove food from the local waste stream and bio digest methane as a sustainable renewable addition to the fuel mix. This would also help Lebanon extend the operational life of the Lebanon landfill.

Although not a residential marketing effort, Valley Green is also actively discussing energy solutions with the Veterans Administration Hospital in White River Junction and others to introduce satellite distribution centers that offer point-to-point delivery. These customers will likely remain too distant for pipeline access but could benefit from a more convention hub and spoke fuel service that is cleaner burning and more economical for them.

It is worth noting that 2015 has seen a drop in the price of established heating fuel types such as #2 fuel oil, propane, and wood pellets. This price drop has markedly reduced the possible savings residential customers can expect to gain from an immediate switch to utility natural gas service. It will likely cause many customers to lock in new contracts with existing suppliers at very customer-friendly rates and could reduce the level of residential customer interest for participation in the Valley Green initial build-out in 2016. Valley Green expects that when these contracts expire natural gas will have recovered enough of a price advantage over oil and propane to allow Valley Green to more effectively penetrate the residential market.

SUPPLEMENTAL RESPONSE: See attached results from Valley Green's preliminary survey.

REDACTED SECOND SUPPLEMENTAL RESPONSE: Please see the attached latest survey analysis. Valley Green has been looking at single family residences/condos in Lebanon that fall along/are in the vicinity of the primary distribution line that could be connected during build out. This review includes developments that have been approved by the City of Lebanon for construction. The results are as follows:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Preliminary Inquiry Results for Natural Gas Conversion in Lebanon and Hanover Valley Green Natural Gas

Towards the end of August 2015 Valley Green reached out to residents in both Lebanon and Hanover in an effort to better understand public interest in converting to natural gas. While these results represent only a small percentage of the total residential population in these two locations, they do reflect specific target areas in which Valley Green hopes to distribute natural gas in the foreseeable future.

Of the 291 surveys that were mailed out, Valley Green heard back from 45 individuals, or roughly 15% of the total field.

When asked if one would consider converting to natural gas if it was available at one's home, and less expensive than fuel oil or propane, 91% replied "Yes" or "Maybe."

When asked if one would consider paying a modest premium if one's gas supply had a significant portion for renewable sources (such as methane from bio digestion of human, animal and food waste, gasification of biomass, or from landfill gas), 76% replied "Yes" or "Maybe."

When asked if one would be interested in on-bill financing for new high efficiency natural gas appliances and/or cost-effective energy measures (such as air sealing and insulation), 69% replied "Yes" or "Maybe."

Interest in natural gas was found to be about the same in both Lebanon and Hanover, with 89% in Lebanon and 93% in Hanover. Similarly, the interest in on-bill financing for more energy efficient appliances etc. was almost equal in Hanover (70%) and Lebanon (67%). However, interest in renewables was slightly higher in Lebanon, 83% vs. 70% in Hanover.

Please find the attached "Preliminary Inquiry" form from which our data was collected. In addition to these three survey topics, Valley Green asked residents a number questions ranging from total living area square footage to current heating source to what type of equipment/appliances residents are currently using.

This information supports our ongoing wish to provide residents with an alternative fuel source in both Lebanon and Hanover; a desire that, when built out correctly, is not simply economically viable, but socially viable as well.

**Natural Gas Conversion – Preliminary Inquiry****This is NOT an Application for Gas Service**

Would you consider converting to natural gas if was available at your home or business and is less expensive than fuel oil or propane? ☐ Yes, ☐ No, ☐ Maybe

Would you consider paying a modest premium if your gas supply had a significant portion from renewable sources (such methane from bio digestion of human, animal and food waste, gasification of biomass, or from landfill gas). ☐ Yes, ☐ No, ☐ Maybe

Would you be interested in on-bill financing for new high efficiency natural gas appliances and/or cost-effective energy efficiency measures (such as air sealing and insulation)? ☐ Yes, ☐ No, ☐ Maybe

Property Owner's Name: _____

Owner's Phone Number: () _____ Owner's Cell Number: () _____

Owner's Fax Number: () _____ Owner's Email: _____

Name of Resident if different than Owner: _____

Property Street address: _____

City/Town: _____ State: _____

Residential Property Information:

Living area square footage: _____ (If multiple floors this should be total of all)

Current Heating Source: ☐ Oil ☐ Electric ☐ Propane ☐ Other

Annual Usage of Heating Source: _____ Gallons _____ Btus _____ KWHrs

Commercial/Industrial Locations:

Utilized area square footage: _____ (If multiple stories this should be total of all)

Annual usage: _____ No. 2 Oil (gal) _____ No. 6 Oil (gal) _____ Propane (gal) _____ Other

Annual Load (MM Btu): _____ Maximum Hourly Demand (MM Btu): _____

Minimum Hourly Demand (MM Btu): _____

Equipment/Appliances: (Check all that apply and indicate fuel source & associated Btu rate if known)

☐ Furnace/Boiler _____ Btu ☐ Electric ☐ Propane ☐ Oil ☐ Wood ☐ Other

☐ Water Heater _____ Btu ☐ Electric ☐ Propane ☐ Other

☐ Dryer _____ Btu ☐ Electric ☐ Propane ☐ Other

☐ Range/Stove _____ Btu ☐ Electric ☐ Propane ☐ Other

☐ Other _____ Btu ☐ Electric ☐ Propane ☐ Other

Please email or mail completed form to:

Valley Green Natural Gas Company
44 Main Street Hanover, NH 03755
valleygreenutilities@gmail.com



Supervisory Administrative Unit #88
LEBANON SCHOOL DISTRICT

20 Seminary Hill Rd
West Lebanon, NH 03784
Telephone: 603-790-8500 Fax: 603-790-8310
www.sau88.net

April 18, 2014

David Brooks, Interim Zoning Administrator
51 North Park Street
Lebanon, NH 03766

Subject: James Campion natural gas project

This letter is to express support and interest in the natural gas project proposed by James Campion for the Etna Road and Lombard Road area. The Lebanon School District is currently exploring alternative heating fuel sources for the Lebanon High School and Hanover Street School buildings and is very interested in the possibility of having a natural gas line installed in the area.

Thank you for your consideration of this letter as you review this project.

Sincerely,



James Fenn, Business Administrator
SAU 88 – Lebanon School District

RiverValleyClub

Zoning Board
51 North Park Street
Lebanon NH 03766

April 10, 2014

To the Zoning Board,

I write in support of the application of Jay Campion for the variance that he needs in order to build a LNG/CNG facility to serve businesses in our area, including the River Valley Club.

With our three swimming pools, three whirlpools, and two large buildings of over 80,000ft², we currently consume over 75-85,000 gallons of propane each year.

While we would like to use renewable resources in a sustainable fashion for heating, at this juncture there is no technology available that would fulfill our needs in a cost-effective fashion. We have looked at solar energy solutions, cogeneration, as well as geothermal heating and cooling. None appears close to feasible.

However for us CNG is most certainly an option that is better than propane. In addition to providing a cost savings of 25-30% over propane, CNG burns more cleanly, and if a pipeline delivery system can be put into place, we will no longer need to take delivery from large propane tanker vehicles. Currently these trucks come to the River Valley Club as often as twice per week in cold weather. When they do so, they impede the flow of traffic on Morgan Drive.

Thank you for considering Jay's proposal. His idea will be an excellent bridge for our community as we move away from fossil fuels.

Joe Asch
Owner
River Valley Club



Engineering Services Department - "Taking Pride in Our Profession"

**Lebanon Zoning Board
City of Lebanon, NH
51 North Park St.
Lebanon, NH 03766**

Dear Zoning Board Members:

Mr. Jay Champion has asked me to make comment on his request to establish a compressed natural gas facility in Lebanon. As you may be aware DHMC has converted its primary fuel for the main campus from fossil fuel to natural gas. We believe that this provides a more cost effective and environmentally sustainable choice than the fuel oil that we relied on previously. Our Heater Road facility and our Outpatient Surgical Center currently use propane as their primary fuel. While their consumption rates do not support the installation of a gas system such as we have on the main campus, natural gas would still be a preferred fuel were it available and cost competitive.

I would like to add that I am not familiar with the zoning issues/concerns related to Mr. Champion's request and do not have an opinion on where such a local natural gas facility should be located.

Regards

A handwritten signature in cursive script that reads "Steven Cutter".

**Steven Cutter, CHFM, HFDP, MBA, SASHE
Director of Engineering Services
Dartmouth-Hitchcock Medical Center
One Medical Center Dr.
Lebanon, NH 03756-0001
Phone: (603) 650-7148
Fax: (603) 650-8978**

Lebanon Zoning Board of Adjustment, Minutes of March 17, 2014 Page 10 of 11

The Director of Facilities for Hypertherm, Perry Seale, stated that they have nine facilities within a mile and a half of this project and that they have no contract or financial interest in this project. He added that he feels they are safety minded and engaged and that the Board and community should consider this installation very seriously for it has its advantageous effect on the 2nd services of Etna Road, Great Lebanon Zoning Board of Adjustment, Minutes of March 17, 2014 Page 10 of 11 Hollow Road, Labombard Road as well as Mount Support Road. He noted that this type of project has been done numerously throughout the United States and done successfully. He stated that it will benefit the businesses and people in Lebanon. He noted that businesses like Hypertherm and others would benefit from this proposal. He asked the Board to seriously consider this knowing that there is a highly contagious component to the community, businesses, organization and the concerns of the neighbors.

Corporate Energy Work Group – MEETING SUMMARY

March 4, 2015 at Hypertherm | 4:00 – 5:30 p.m.

Present: Adimab (Jordan Desroches), Courtyard Marriott and Element Hotels (Erik Roth), Dartmouth College (Rosi Kerr), Dartmouth Hitchcock Medical Center (Jona Roberts, John Leigh, and Jessica Wolff), Dartmouth Printing (Keith Ford), Hypertherm (Dave Gaudet and Jenny Levy), King Arthur Flour (James Kirkpatrick), Mt. Ascutney Hospital (Paul Calandrella), NH Sustainable Energy Association (Kate Epsen), One Court Street (Clifton Below), Resource Systems Group (John Hinckley), Timken Aerospace (Todd French), Upper Valley Aquatic Center (Rich Synnott), Upper Valley Lake Sunapee Regional Planning Commission (Mike McCrory), Vital Communities (Sarah Simonds)

Summary of next steps (including timeline and people responsible)

- 1. Waste Management Workshop** – Likely in April at Hypertherm – Dave Gaudet and John Leigh.
- 2. Electricity Markets Update** – Workshop in June at Hypertherm – Dave Gaudet
- 3. Facilities Managers Discussion List** – Likely launched in April – Sarah Simonds, with input from Todd French
- 4. Prioritize topics for future workshops/meetings** – EVERYONE will complete the ranking poll send by email. We're set for workshops through the spring, open to topics for summer/fall.

Plan for future meetings

- 2 network meetings per year – fall and spring
- As needed workshops between meetings, open to a broader audience where appropriate

Benefits of getting together

- **Economies of Scale**
 - Partner together on tangible things to negotiate reduced cost or maximum impact.
 - Share support and successful practices/processes to avoid reinventing the wheel.
 - Speak with a united voice on public policy issues.
- **Accountability**
 - Reporting back to a group of peers helps motivate us to action sooner.
- **Shared Learning**
 - The smaller businesses at the table learn a lot from the larger businesses with full-time staff working on these issues.

Challenges for our group

- Differences in VT vs. NH
- We are a diverse group. Small vs. big, for-profit vs. not-for-profit, public vs. private, etc.

Let's be more than just energy

- Electricity
- Heating/Cooling
- Waste Management
- Water and Wastewater/Sewage
- Sustainability
- Carbon Impact

Who's at the table? Who are we serving?

- Interest in benefitting everybody, not just the big guys.
- Interest in representation from other sectors
 - Small Businesses
 - Hospitality (Erik Roth joined us from the Marriott and Element hotels)
 - Municipal (perhaps Lebanon and Hanover as two larger districts?)
 - Kimball Union Academy?
 - Commercial building owners - Clifton Below owns One Court Street in Lebanon (home of Three Tomatoes) and can provide perspective / contacts.

Resources at the table

- Resource Systems Group – John Hinckley (John.HinckleyJr@rsginc.com)
 - John is a Qualified Environmental Professional. Very knowledgeable on environmental quality issues. RSG works with many businesses in the area and has a lot of data/research to draw on.
- New Hampshire Sustainable Energy Association – Kate Epsen (kate.epsen@gmail.com)
 - Can bring workshops to the Upper Valley based on almost anything we choose. Let her know our priorities and she'll help us get a workshop together.
 - Clean Tech Council – “represents and advocates for New Hampshire’s cleantech and clean energy business sector, focusing on the economic benefits and jobs that can come from a vibrant clean technology industry and the policies that enable stability, competition and investment in that industry.”
 - Very knowledgeable on available programs/incentives/loans/grants.
- Upper Valley Lake Sunapee Regional Planning Commission – Mike McCrory (mmccrory@uvlsrpc.org)
- Vital Communities – Sarah Simonds (Sarah@VitalCommunities.org)

Issues raised

- Water and sewer prices (on the rise in Lebanon)
- Rules/regulations for emergency generators may be changing – be on the lookout.
- Electricity purchasing – spot market vs. fixed contract
 - Possible to combine multiple businesses in a bulk-buy deal (better deal for smaller businesses). Opportunity to help the smaller guys out; potentially consider public/private partnerships.
 - Fixed vs. spot market decision is nuanced and different for every company.
 - Many of us want price security on a three-year basis. Not possible.
- Many of us HAVE to keep the lights/heat on – need to diversify energy sources and maintain a several day supply at all times.
- Finding stable/reliable energy sources.
- Biomass – many have looked into it (Dartmouth, DHMC, Hypertherm).
 - Risk, price, sustainability, and long term supply are concerns.
 - Some are seeing signals that it's time to revisit this topic.
 - Many area schools have switched to biomass.
- Natural Gas – We could use an update. There is a project underway to store LNG locally and distribute in the area.

- **Energy Service Companies and externally financed projects**
 - Timken has begun giving them skin in the game by promising them a cut of the savings but paying himself first.
 - Clifton Below knows of a pellet company that will install a hot water system and sell you the hot water for less than you were paying before.
 - Commercial PACE (Property Assessed Clean Energy) may soon be available in NH.
- **Renewable Energy Credits** – Hypertherm and Kendal purchase a lot of RECs; what if we could purchase “local” RECs? (Kate Epsen may have some thoughts on this)

Next Steps

1. **Waste Management Symposium**
 - John Leigh from DHMC ran a successful “Trash Talk” session back in 2013, and is happy to help do that again.
 - Hypertherm has a project in the works to aggregate waste streams and get a better foothold in plastics recycling. They have a new operation set up on site through Casella and are seeking waste streams from others to reach scale.
 - Hypertherm will host a “Trash Talk” and tour this spring. We’ll keep the group updated.
2. **Electricity Market Update – JUNE**
 - Hypertherm is already organizing this and will open it up more broadly. Efficiency Vermont may also have something planned. We’ll update the group when we know more.
3. **Facilities Managers List Serv**
 - Vital Communities will set up a list serv for facilities managers (and others from this group with relevant insights). Sarah will reach out to Todd French from Timken, who suggested the idea based on past experience.
 - Likely set up in the next month (pending server switch over at Vital Communities)
4. **Identify topics for later discussion**

Topics for future discussion (Sarah will create and distribute a poll so the group can rank topics)

- On-site renewables (e.g. solar)
- Natural Gas – Including update on local LNG hub as potential new source.
- Rebates/grant opportunities
- Models for externally financed energy projects
- Renewable Energy Credits – including feasibility of purchasing “local” RECs
- District Heating – Including update on Claremont project and Airport Park

DG 15-155

Valley Green Natural Gas, LLC

OCA Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 08/17/15

Date of Response: 08/27/15

Request No. OCA 3-8

Witness: James W. Campion. IV

REQUEST: In view of recent expressions of interest by other existing or potential gas utilities, has Valley Green modified its marketing strategy or arrangements with any potential customers?

RESPONSE: No. See also Valley Green's response to OCA 3-3.

DG 15-155

Valley Green Natural Gas, LLC

OCA Set 3 to Valley Green Natural Gas, LLC

Date Request Received: 08/17/15

Date of Response: 08/27/15

Request No. OCA 3-10

Witness: James W. Campion, IV

REQUEST: Has Valley Green done any analyses, or produced any estimates of gas distribution rates for each customer class? If so, please provide those estimates and analyses.

RESPONSE: Yes, see Valley Green's response to Staff 1-7 (confidential). However, Valley Green has not yet finished its rate analysis because customer needs, special contracts, and customer classes have not yet been finalized. Valley Green expects these variables to be resolved and will supplement this response prior to a rate case.

DG 15-155
Valley Green Natural Gas, LLC
OCA Set 3 (Round 2) to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15

Date of Response: 12/7/15

Request No. OCA 3-19

Witness: James W. Campion. IV

REQUEST: Refer to DR OCA 3-18. Provide brief narratives to explain the scenarios. Briefly summarize the analytical results.

RESPONSE: See Valley Green's supplemental response to Staff 1-2.

DG 15-155
Valley Green Natural Gas, LLC
OCA Set 3 (Round 2) to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15

Date of Response: 12/7/15

Request No. OCA 3-26

Witness: James W. Campion, IV

REQUEST: Please provide Valley Green's current expectation of the share of unregulated business in its total business (in terms of expected revenue and ADth consumption).

RESPONSE: Please see Valley Green's supplemental response to Staff 1-2 and Staff 3-10.

DG 15-155
Valley Green Natural Gas, LLC
OCA Set 3 (Round 2) to Valley Green Natural Gas, LLC

Date Request Received: 11/20/15

Date of Response: 12/4/15; 1/8/16

Request No. OCA 3-27

Witness: James W. Campion, IV

REQUEST: Please indicate whether Valley Green is willing to consider or is already considering landfill-based gas supply in its portfolio. If so, provide details to corroborate Valley Green's plan.

CONFIDENTIAL RESPONSE:

[REDACTED]

[REDACTED]

[REDACTED]

**COMPARISON STUDY
BETWEEN [REDACTED]
[REDACTED]
[REDACTED] LANDFILL
GAS
FOR
[REDACTED]
[REDACTED]**

Contents Redacted

Contents Redacted

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DG 15-155
Valley Green Natural Gas, LLC
Arwen Set 1 to Valley Green Natural Gas, LLC

Date Request Received: 08/24/15
Request No. Arwen 1-1

Date of Response: 09/03/15
Witness: James W. Campion, IV

REQUEST: Ref. Campion Testimony p. 11, lines 9-10. Please provide copies of letters of support Valley Green has received from Dartmouth-Hitchcock Medical Center, Hypertherm, Lebanon School District-SAU #88, and the River Valley Club. Please provide copies of Lebanon School Board minutes that document discussions or deliberations regarding this proposed project.

RESPONSE: See response to OCA 3-3.

**DG 15-155
Valley Green Natural Gas, LLC
Liberty/EnergyNorth Set 1 to Valley Green Natural Gas, LLC**

**Date Request Received: 09/30/15
Request No. LU TECH 1-2**

**Date of Response: 10/12/15
Witness: James W. Campion, IV,
Kenneth H. Stanley**

REQUEST: Follow-up to the response to EnergyNorth 1-7.

a. The cited testimony states that "...a conceptual level cost estimate for the complete design, permitting, construction, and future operation of the distribution system has been provided."

Please provide that conceptual level cost estimate including the total estimated annual operating costs. The information sought is only at a high level and does not include any customer information.

b. Please provide the requested information regarding Gulf's anticipated role in and budget for the referenced construction and oversight activities. Again, the information sought is only at a high level.

RESPONSE:

a) This information is contained in the confidential attachment to Valley Green's response to Staff 1-7.

b) Gulf's role has not changed from that described in Valley Green's petition and supporting testimony. Budget information relating to Gulf is contained in the confidential attachment to Valley Green's response to Staff 1-7.