

May 1, 2012

**Diane Roy**Director, Regulatory Affairs - Gas **FortisBC Energy Inc.** 

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British Columbia Utilities Commission 6<sup>th</sup> Floor, 900 Howe Street Vancouver, BC V6Z 2N3

Attention: Ms. Alanna Gillis, Acting Commission Secretary

Dear Ms. Gillis:

Re: FortisBC Energy Utilities (the "FEU"), comprised of FortisBC Energy Inc. ("FEI"), FortisBC Energy Inc. Fort Nelson Service Area ("FEFN" or "Fort Nelson"), FortisBC Energy (Vancouver Island) Inc.) ("FEVI"), and FortisBC Energy (Whistler) Inc. ("FEW")

Common Rates, Amalgamation and Rate Design Application (the "Application") April 30, 2012 Workshop Materials

On April 11, 2012, the FEU submitted the above noted Application. On April 17, 2012, the British Columbia Utilities Commission (the "Commission") issued Order No. G-46-12 establishing the Regulatory Timetable for the review of the Application. On April 30, 2012, in accordance with the Regulatory Timetable, the FEU held a Workshop with Commission staff and Interveners.

The FEU respectfully submit the attached Workshop participant attendee list and presentation materials into the record of the proceeding.

If you require further information or have any questions regarding this submission, please contact Paul Craig at 604 592 7459.

Yours very truly,

on behalf of the FORTISBC ENERGY UTILITIES

Original signed by: Paul Craig

For: Diane Roy

Attachments

cc (email only): Registered Parties

# FortisBC Energy Utilities Common Rates, Amalgamation and Rate Design

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# FortisBC Energy Utilities Common Rates, Amalgamation and Rate Design

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## FortisBC Energy Utilities Common Rates, Amalgamation and Rate Design

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FortisBC Energy Utilities
Common Rates, Amalgamation and
Rate Design Application
Workshop April 30, 2012



## **Agenda**

Topic	Presenter
1)Introduction	<b>Roger Dall'Antonia</b> Vice President, Strategic Planning, Corporate Development and Regulatory Affairs
2) Application Overview	<b>Paul Craig</b> Manager, Tariffs, Rate Design & Special Contracts
3) Financial Overview of the Amalgamated Entity	Michelle Carman Manager, Cost of Service
4) Rate Design	Atul Toky Resource Development Manager
5) Bill Impacts	<b>Sefik Bagdadioglu</b> Tariffs, Rate Design & Special Contracts Coordinator
6) Regulatory Timetable	Paul Craig

**Application** Introduction Overview

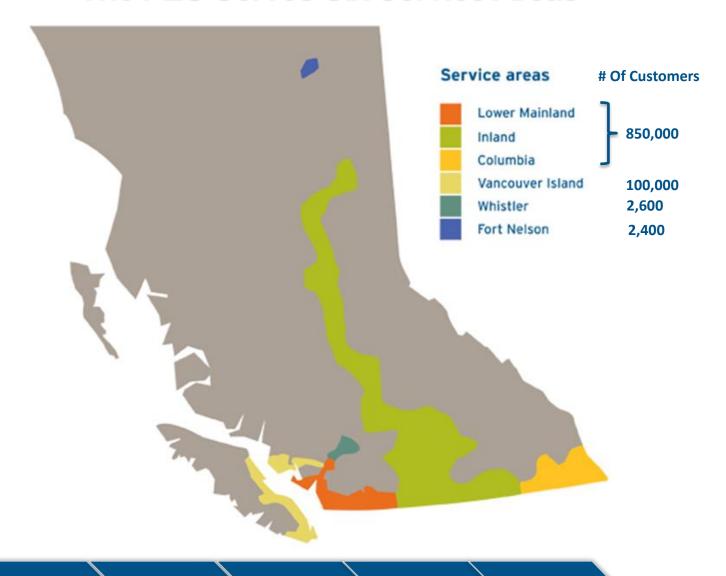
Financial Overview

**Bill Impacts** 

Regulatory Timetable

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### The FEU Serves Six Service Areas



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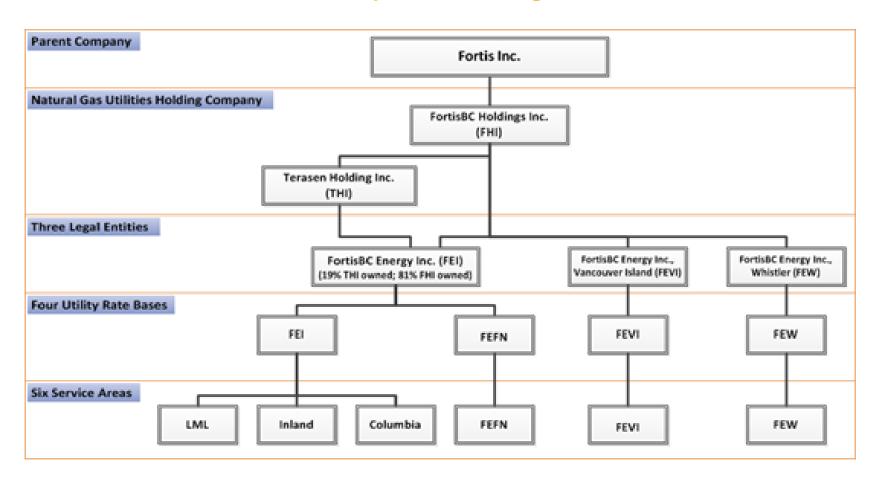
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## **FEU Corporate Structure**

### Current Corporate Structure is a Result of the FEU's Growth via Acquisition and Mergers



# Why Are The FEU Seeking To Implement Common Rates?

The Main Rationale Behind Common Rates Is Fairness Amongst All FEU Customers

### **Common Rates achieved through Amalgamation will:**

- >Extend common rates across all service areas;
  - Consistent with customers served by the FEI whose commodity and delivery rates are currently postage stamped
- ➤ Eliminate the current rate discrepancies that exist across the FEU;
- Mitigate the expected cumulative rate increases expected for FEVI Customers due to the loss of Government Subsidies; and
- ➤ Provide long-term rate stability for the smaller service areas FEVI, FEW and FEFN



### Why Implement Common Rates Now?

850,000 FEU Customers Have Common Rates Today...

## An opportunity exists to bring the remaining FEU customers under common rates as:

- The benefits of VINGPA have now expired; and
- FEW customers have been converted from propane to natural gas

## In this Application we are seeking approval for...

### **Amalgamation of the FEU**

- Legal Amalgamation of Natural Gas Utilities (FEI, FEVI, FEW & THI)
- Combined Cost of Service
- Maintenance of existing Capital Structure - 40% equity / 60% debt
- Weighted Average ROE
- Combined Gas Portfolio
- Common Tariffs/Terms & Conditions based on FEI

#### **Common Rates**

- Common Commodity, Midstream and Interim Delivery rates effective Jan 1, 2014
- Rate Mitigation Approaches using RSDA to:
  - Phase-in Fort Nelson common rates over 15 years
  - Offset impact to FEI non-bypass customers – RSDA amortized over a three year timeframe



Rate Design

## In Order to Amalgamate, Two Legal Requirements:

### 1) Utilities Commission Act 2) Business Corporations Act (If Consent from the LGIC is Granted) **Section 53:** Section 270: **Application submitted to Commission for Amalgamation of the FortisBC Energy Utilities** recommendation to Lieutenant Governor in - FEI Amalco becomes successor company Council ("LGIC") to consent **Commission considers whether amalgamation** beneficial in the public interest If Commission determines amalgamation satisfies this test, Commission submits recommendation to approve to LGIC LGIC determines issuance of order consenting to amalgamation

Rate Design

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## Current vs. FEI Amalco Proposed Effective Rate

## Proposed Revenue Requirement Effective Rates vs. Proposed FEI Amalco Effective Rate



\*Effective Rates Based on 90GJ Consumption

**Rate Design** 

- \*\* Rates based on 2013 proposed Revenue Requirement
- \*\*\* FEI Amalco rate does not include mitigation approaches

# Common Rates, Amalgamation & Rate Design Application Overview



## **Application Table of Contents**

The Application was organized into 10 Sections						
Section 1	Executive Summary					
Section 2 Introduction: Approvals Sought, Regulatory Process and Application Organization						
Section 3	Overview of the FortisBC Energy Utilities					
Section 4	Operating Context and Issues Addressed by this Application					
Section 5	Review of Options					
Section 6	The Selected Option – Common Rates Achieved via Amalgamation are Beneficial in the Public Interest					
Section 7	Implementation of Common Rates					
Section 8	Overview of Proposed Common Rates of the Amalgamated Entity					
Section 9	Rate Design					
Section 10	Stakeholder Engagement					

Rate Design

# Application Overview: Issues Addressed By This Application



### **Issues Addressed**

### The FEU is Faced With Three Key Issues

Rate Disparity Across the FEU Service Areas

2

 Upward Rate Pressure Leading to Further Rate Disparity for FEVI

3

Long-term Rate Instability of Smaller Service Areas

A solution is required that can adequately resolve these issues

## **Issue #1: Existing Rate Disparity**

### Rates and Rate Structures Differ Across All Service Areas

### Residential Example

	FEI			FEVI		FEW		FEFN				
	L	LM RS1 Inland RS1 Columbia RS1		RGS		SGS-R		GSR 1.1b				
Fixed Charge	ixed Charge											
Basic Daily Charge	\$	0.389	\$	0.389	\$	0.389	\$	0.345	\$	0.246		
Minimum Daily Charge											\$	0.594
Variable Charge												
Delivery	\$	3.881	\$	3.881	\$	3.881			\$	11.686		
Midstream	\$	1.402	\$	1.367	\$	1.411						
Commodity	\$	3.997	\$	3.997	\$	3.997						
Energy							\$	14.325				
Gas Cost Recovery Charge									\$	5.104		
Consumption Based Delivery											\$	2.443
Consumption Based Commodity											\$	4.196
Effective Total	\$	10.859	\$	10.824	\$	10.868	\$	15.725	\$	17.790	\$	7.280

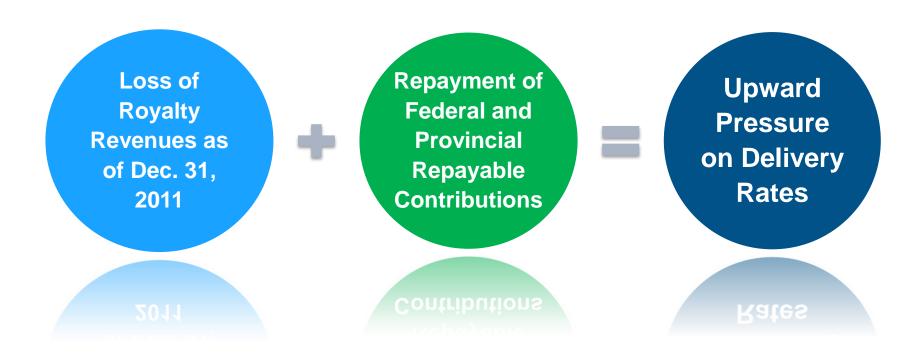
<sup>\*</sup> Assumed Typical Consumption: 90 GJ

### Rate disparity is a function of history

<sup>\*</sup> Fort Nelson Consumption Based Delivery Rate reflects the first tier delivery charge, i.e. first 28GJ of consumption/month after the initial 2GJ included in the minimum daily charge.

## Issue #2: Upward Pressures on FEVI's Rates

Loss of Government Subsidies Will Increase Rate Discrepancy



A lasting solution is required to address the upward pressure on delivery rates and increased rate disparity for FEVI customers

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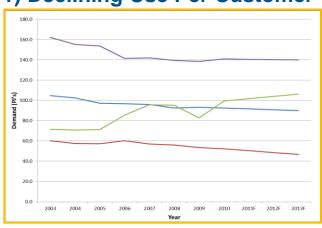
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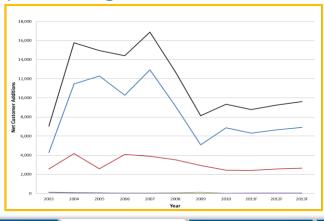
## **How Could Delivery Rate Increases Be Offset?**

On A Standalone Basis, FEVI Could Increase Volumes Via Customer Additions And/Or Increased Use Per Customer... But...

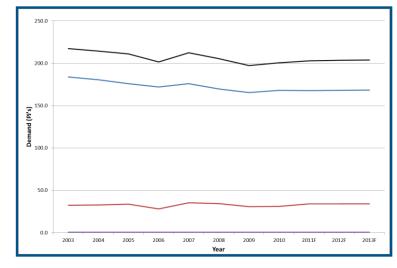
### 1) Declining Use Per Customer



### 2) Declining Customer Additions



### **Declining Demand Volumes**





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# Issue #3: Smaller Utilities Susceptible to Long Term Rate Instability

Two Main Factors Lead to Rate Instability for FEVI, FEW & FEFN

Factor #1:
High Rate
Base Per
Customer
(FEVI &
FEW)

Rate Base per Customer						
FEI FEVI FEW						
\$3,269	\$7,669	\$15,727				

Factor #2:
Reliance on
Small,
Undiversified
Customer
Base

	Total Throughput in 2010 (in TJs)	% of Top 10 Customers to Total Throughput	Actual Total Revenue 2010 (in \$000)	% of Top 10 Customers to Total Revenue
FEVI	31,017	63%	\$193,410	16%
FEW	753	18%	\$13,587	21%
FEFN	615	17%	\$4,846	11%
FEI	161,133	6%	\$1,311,002	0.6%

**Rate Design** 

## **Application Overview: Review of Options**



## **Objectives of Analysis**

Based on Issues Previously Discussed, the FEU Identified 4 Key Objectives

1) Minimize regional rate differences that are in effect today

(in particular the existing higher rates for FEVI and FEW)

2) Implement long-term solution for FEVI customers to the loss of government subsidies

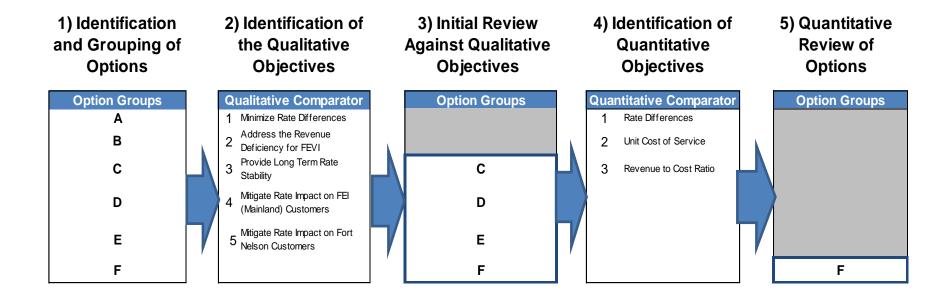
3) Provide long-term rate stability for all customers

4) Mitigate any significant increases to customers' rates

Rate Design

## **Options Analysis Framework**

### 5 Step Approach



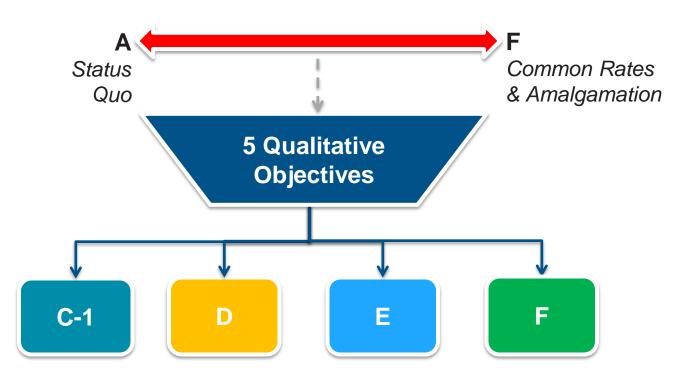
**Rate Design** 

## **Options Analysis**

Step 1: Identify Options

Step 2: Qualitative Objectives

Step 3: Review of Qualitative Objectives



### Four options carried forward after Qualitative Review

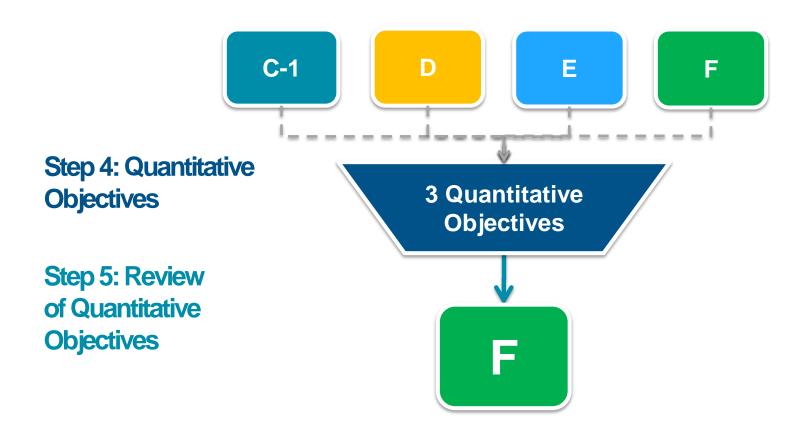
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## **Options Carried Forward**

### **Four Options Option** Amalgamation of FEI (Mainland), FEVI and FEW into One Legal Entity with Common Rates and Fort Nelson Remains as-is **C-1** Amalgamation of the Three Legal Entities into One Legal Entity; Six Service Areas Maintained: **Option D** Common Commodity and Delivery Rates with Regional Midstream Rates Amalgamation of the Three Legal Entities into One Legal Entity; **Option E** New Service Areas Created with Common Commodity and Midstream Rates and Regional Delivery Rates Amalgamation of The Three Legal Entities into One Legal Entity; **Option F** One Service Area with Common Commodity, Midstream And **Delivery Rates**

### Further quantitative review required to determine preferred option

## **Options Analysis Continued...**



### Common Rates and Amalgamation is the Preferred Option

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## **Preferred Option**

Based on the Qualitative and Quantitative Review, Option F is the only solution that:

- Fully meets the objectives of removing rate discrepancies;
- Implements a long-term solution and addresses the revenue deficiency of FEVI; and
- Provides long-term rate stability for FEVI, FEW and Fort Nelson.

While Option F leads to increases for FEI customers and material increases for Fort Nelson, approaches have been proposed to mitigate the impacts

# Application Overview: Selected Option - Common Rates achieved through Amalgamation

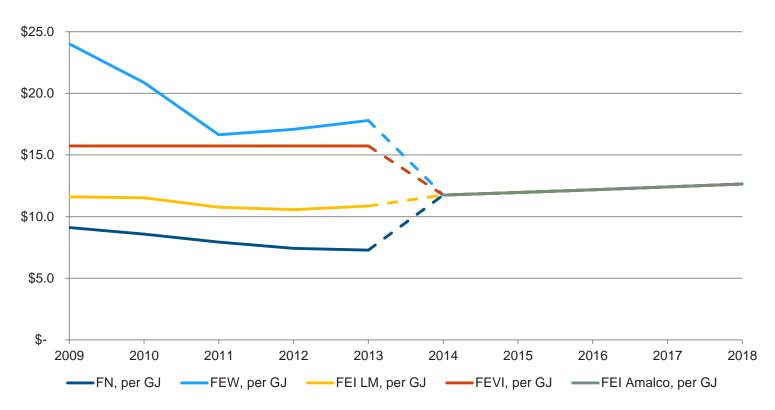


## **Topics Covered**

- Benefits of Common Rates Achieved through Amalgamation
- Implications of Common Rates on FEI & FEFN Customers
- Implementation of Common Rates

## **Rate Discrepancy Eliminated**

Common Rates Will Level Rates Across The FEU (Residential Example)



Illustrative Graph excludes mitigation approaches for FEI and FEFN

## **Long-term Rate Stability**

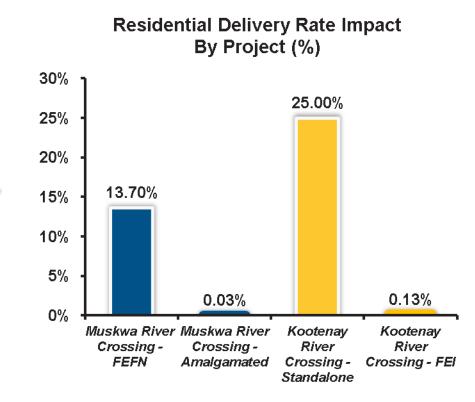
### Providing Longer-Term Rate Stability in Smaller Service Areas

### Muskwa River Project

- 2400 Customers
- \$3 Million Capital Project
- Costs Shared By FEFN Customers Only

## Kootenay River Crossing (Shoreacres)

- 5200 Customers
- \$11 Million Capital Project
- Costs Shared By FEI (Mainland) Customers



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## **Ancillary Benefits of Amalgamation and Common Rates**







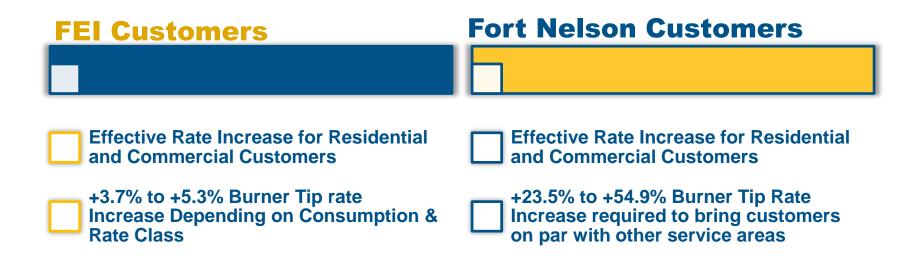
Simplicity & Ease of Administration

Consistent
Service
Offerings

**Rate Design** 

Reporting & Operational Efficiencies

# Implications of Common Rates & Amalgamation on FEI and Fort Nelson Customers



The FEU are proposing to mitigate rate increase through use of the RSDA

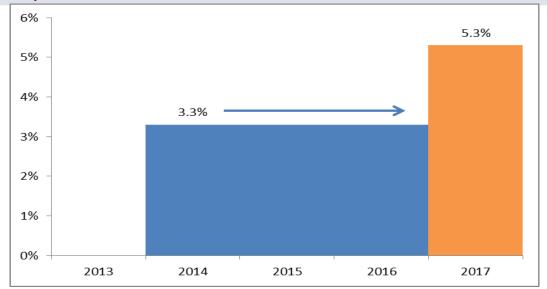
Rate Design

## **FEI Rate Increase Mitigation Approach**

#### **Amortization of RSDA Over 3 Year Period**

### FEI Mitigation: RSDA (Residential Example)

- Returning RSDA to FEI Non-Bypass customers over a three-year period will delay the full impact of common rates.
- Full impact realized in 2017



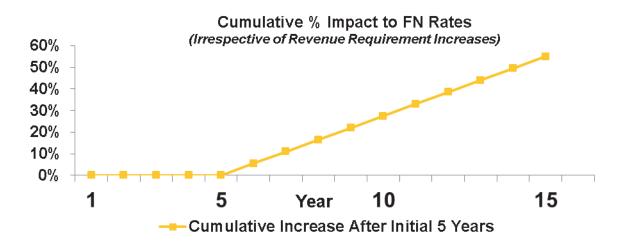
\* Based on 95GJ annual consumption

## Fort Nelson Rate Increase Mitigation Approach

Full impact of Amalgamation Deferred for 15 Years With Aid of RSDA

### Fort Nelson Mitigation: Phase-In (Residential Example)

- No impact from common rates in first 5 years. Impact then phased-in over a 10 year period.
- ➤ Approximate cumulative ~5% increase/year, equivalent to ~ +\$54/ year (for year 6), based on 2013 rates for typical residential customers in Fort Nelson
- Revenue Requirement increases independent of common rates will be applied throughout.



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## **Implementation of Common Rates**

### **Operational Effects of Common Rates & Amalgamation**

### **Amalgamation and Common Rates**

(January 1, 2014 and beyond)

### Tariffs/GT&Cs

- FEI's General Terms and Conditions adopted with minor modifications
- Approved Tariff Supplements and special contracts remain in place

### **MX Test**

 FEI & FEVI's main extension policies continued and extended to FEW

### Customer Service, IT Systems and Billing

Employee Training and System Changes

### Gas Supply

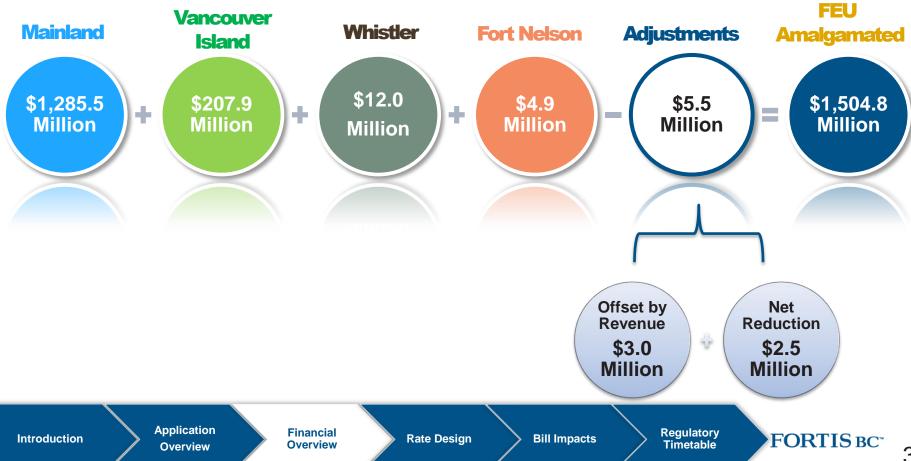
Moving to a Single Combined Gas Portfolio

Rate Design

# Financial Overview of the Amalgamated Entity

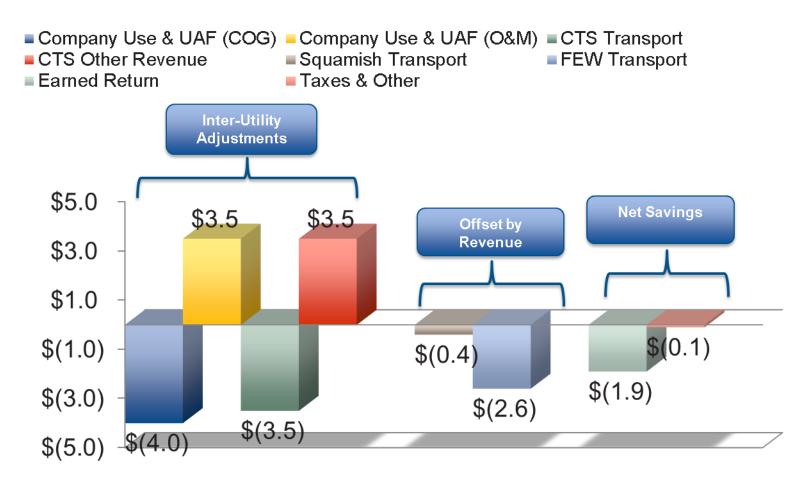


### **Amalgamated Cost of Service**



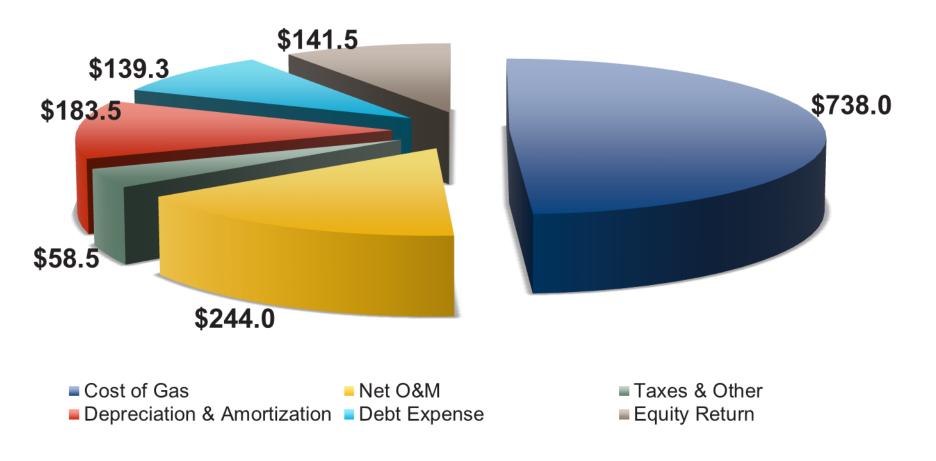
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# Amalgamated Cost of Service Adjustments (\$ Millions)



Source: Appendix J-1, Schedule 1 and described in Section 8.1

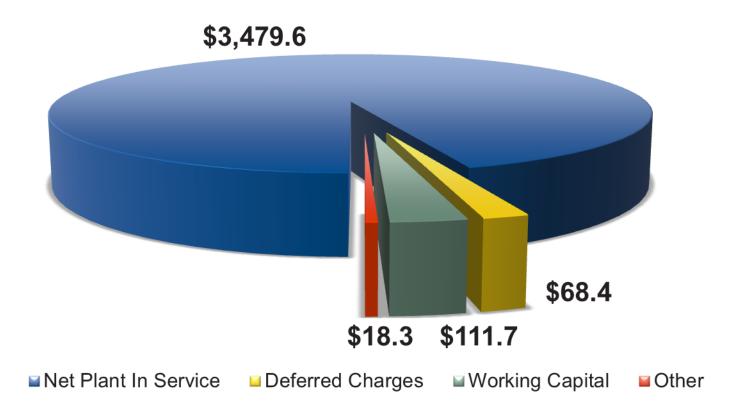
# Amalgamated Cost of Service \$1,504.8 Million



Source: Appendix J-1

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# Amalgamated Rate Base \$3,678.0 Million





## **Amalgamated Deferral Accounts**

### **Proposed changes:**

### **Consolidation of Margin Deferrals**

- Combination of existing balances
- •Rate Riders effective January 1, 2014 to be calculated on amalgamated balances

#### **New Accounts**

- Amalgamation Costs
- Company Use and Unaccounted for Gas Cost Variance
- Amalgamation and Rate Design Application Costs
- Fort Nelson Phase-In Rate Rider Deferral Account

### **Refund of the RSDA Surplus Balance**

- Commencing January 1, 2014
- •December 31, 2013 balance (forecast surplus balance of \$90.3 Million, before tax)

Most Accounts Consolidate and Continue as Currently Approved in the 2012-13 RRA

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# Rate Design Methodology



### **Rate Design Principles**

### Seven Principles Were Adopted By The FEU For The Rate Design:



**Rate Design** 

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## Rate Design Approach

## Approach Based On Previously Approved FEI **Methodologies**

The following rate design approach was undertaken:

**Rate Design** 

**Method:** 

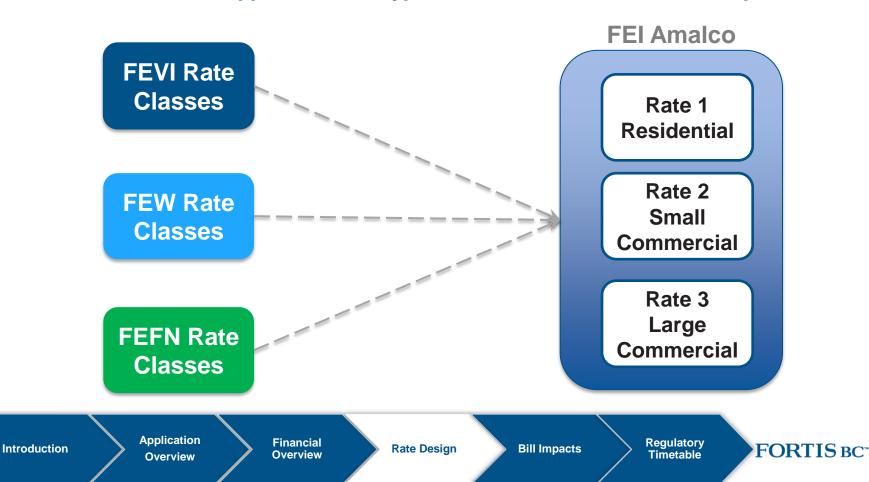
Map FEVI, FEW and FEFN Customers to Existing FEI Rate Classes

**Utilize Methodologies Consistent with Previously Approved FEI Rate Design Applications** 

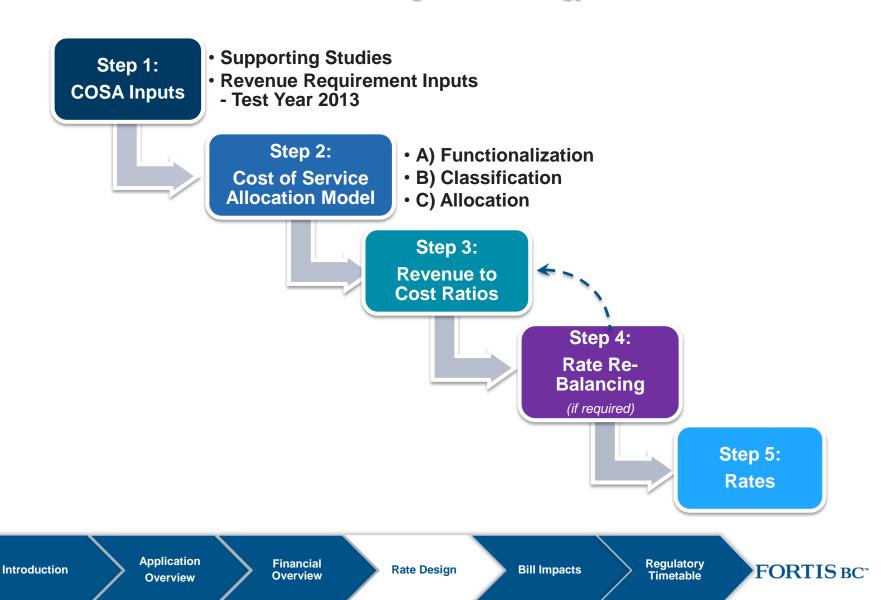
Approach Validated by 3<sup>rd</sup> Party Expert on Cost of Service Allocation: EES Consulting Ltd.

### Customer Mapping - Baseline Rate Design Methodology

- > FEVI, FEW and FEFN customers have been mapped to existing FEI rate classes (Rate classes 1, 2 & 3 only)
- > Customers mapped based on type of customer and annual consumption



# Amalgamated Cost of Service Allocation (COSA) Rate Design Methodology



## **Step 1: COSA Inputs**

# Four Supporting Studies Were Developed In Addition to the Revenue Requirement Inputs

Study	Amalgamated COSA		
Minimum System Study (MSS)	Classifies Distribution Costs for Mains into Customer-Related and Demand-Related Costs		
Peak Load Carrying Capability (PLCC) Study	Adjusts demand for each rate class and appropriately reflects customer-related costs from the MSS		
Customer Weighting Factor Study	Two types of allocators for customer-related costs:  1. Allocator for Meters and Services; and  2. Allocator for Customer Administration and Billing		
Peak Day Demand Study	<b>Coincident Peak Approach</b> allocates demand related costs to customer classes based on share of system capacity used by each of those classes.		

**Rate Design** 

# Step 2a Functionalization - Highlights Cost of Service Allocation study

# Functionalization of Rate Base and Cost of Service Achieved via 8 Functions

**Rate Design** 

#### **Functions**

- Gas Supply Commodity and Midstream
- 2. LNG Storage Tilbury
- 3. Transmission
- 4. Transmission Southern Crossing Pipeline
- 5. Distribution
- 6. Marketing
- 7. Customer Accounting
- 8. LNG Storage Mt. Hayes



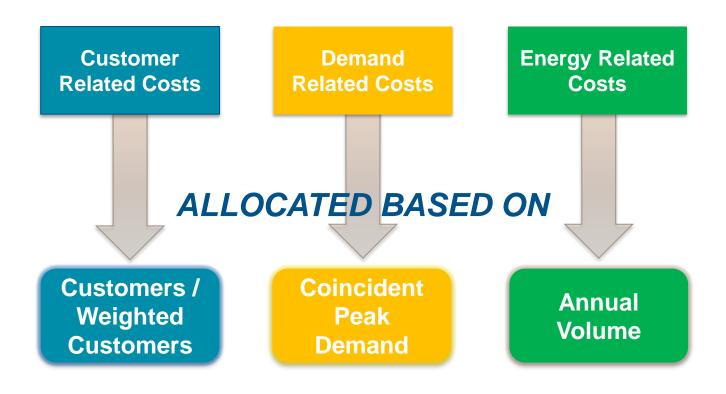
# Step 2b Classification of Costs - Highlights

### **Cost of Service Allocation Study**

	Clas	ssified A	Methodology			
Functions	Customer Related	Demand Related	Energy Related	Consistent With:		
1. Gas Supply						
Commodity				1991 FEI Gas Cost Rate Design Methodology		
Midstream				, zeeigii memedelegj		
2. LNG Storage Tilbury						
3. Transmission						
4. Transmission				2001 FEI Rate Design Methodology		
5. Distribution	48%	<b>52</b> %				
6. Marketing						
7. Customer Accounting						
8. LNG Storage Mt Hayes						

**Rate Design** 

# Step 2c Allocation of Costs - Highlights Cost of Service Allocation Study



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Historical Overview

Rationale

Combined Cost of Service

RDA Approach Bill Impacts

**Next Steps** 

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# Step 3: Revenue to Cost (R:C) Ratios Rate Design

### **Guiding Range of Reasonableness** → 90% to 110%

Rate Classes	R:C (%)
Rate 1 (Res)	93.4
Rate 2 (Com: < 2000GJ)	104.6
Rate 6 (NGV)	112.7
Rate 3/23 (Combined)	107.9
Rate 5/25 (Combined)	110.4

**Rate Design** 

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# **Bill Impacts**

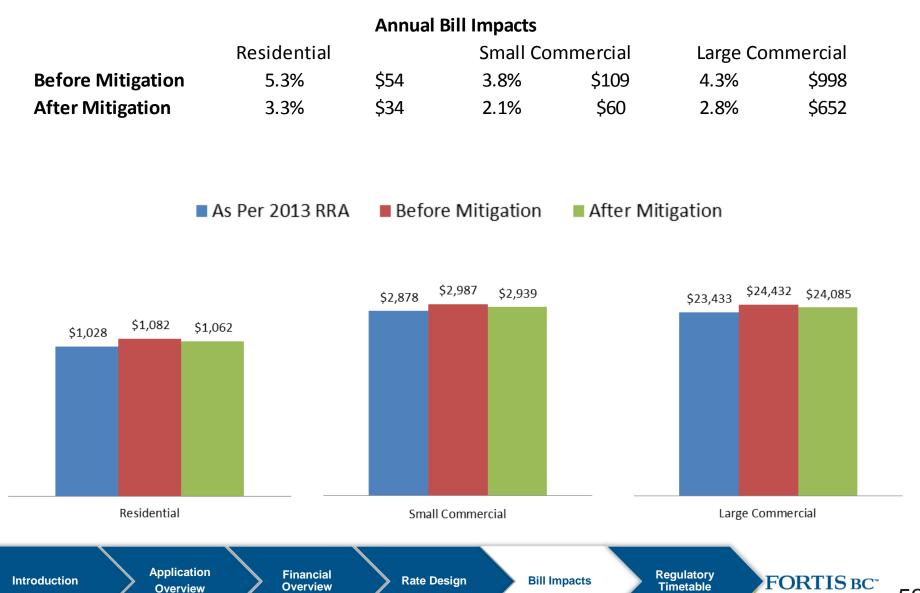


# **Bill Impact Summary**

Region	Impact of Common Rates		
FEI	Majority of customers will see a rate increase – Increase mitigated with use of the RSDA for 3 years		
FEFN	Rate increase mitigated with 15 year phase-in approach		
FEVI	> Rates will decrease		
FEW	> Rates will decrease		

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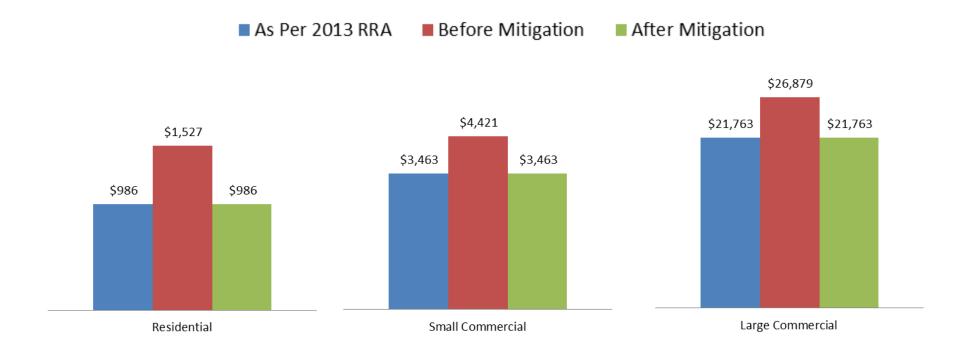
### **FEI Lower Mainland Annual Bill Impact Analysis**



## **FEFN Annual Bill Impact Analysis**

### **Annual Bill Impacts**

Before Mitigation	Residential		Small Commercial		Large Commercial	
	55.0%	\$542	27.7%	\$974	22.5%	\$5,881
<b>After Mitigation</b>	0.0%	\$0	0.0%	\$0	0.0%	\$0



**Bill Impacts** 

## **FEVI Annual Bill Impact Analysis**



**Common Rates Impact** 

Residential -25.2%

(\$244)

As Per 2013 RRA

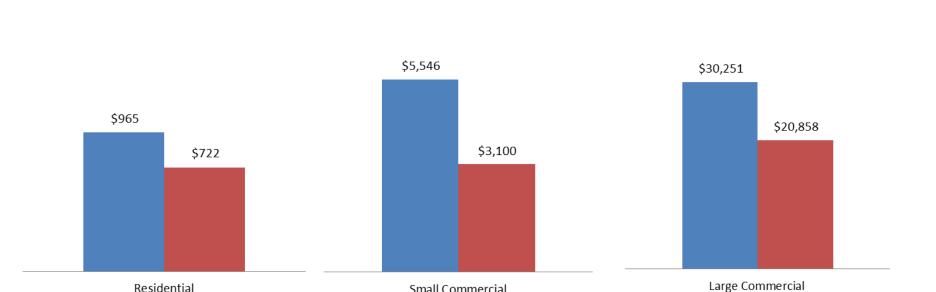
Small Commercial

-44.1% (\$2,446)

■ Common Rates

Large Commercial

(\$9,394)-31.1%



Residential

Introduction

**Small Commercial** 

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## **FEW Annual Bill Impact Analysis**

#### **Annual Bill Impacts**

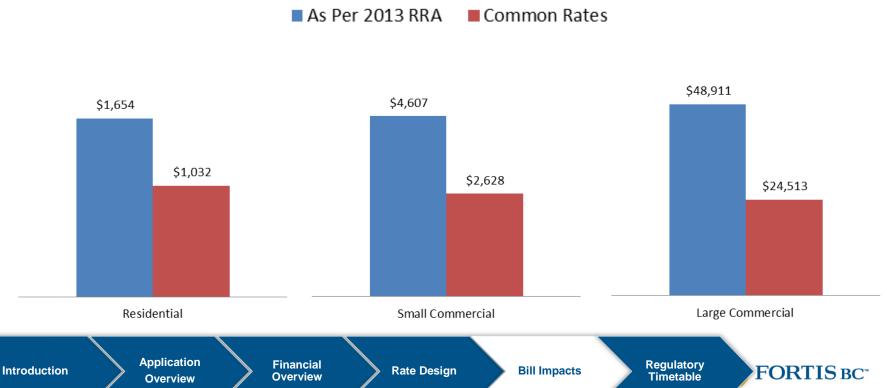
Common Rates Impact

Residential -37.6% (\$621)

Small Commercial -43.0% (\$1,979)

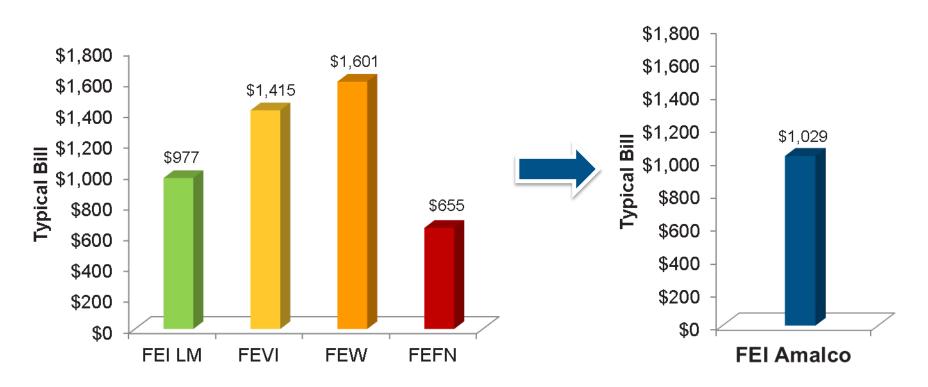
Large Commercial

-49.9% (\$24,398)



## Current vs. FEI Amalco Typical Residential Bills

Typical Residential Bill Based On Proposed Revenue Requirement Rates vs. Proposed FEI Amalco Rates



- \* Annual bill calculations based on 90GJ consumption
- \*\* Rates based on 2013 proposed Revenue Requirement and exclude riders
- \*\*\* FEI Amalco rate does not include mitigation approaches

## **Summary**

# The Main Rationale Behind Common Rates and Amalgamation Is Fairness Amongst All FEU Customers

- ✓ Common rates will be equitable for all customers and eliminate the rate discrepancies across the FEU
- ✓ Common rates will result in rate reductions to FEVI and FEW and long-term rate stability for FEVI, FEW and Fort Nelson
- ✓ Common Rates and Amalgamation will facilitate customer access to all natural gas services and realize the last remaining efficiencies to be gained from common ownership

**Bill Impacts** 

# Regulatory Timetable for Review of Application

ACTION	DATE (2012)		
Commission Information Request No. 1 to FEU	Monday, May 7		
Intervener Information Request No. 1 to FEU	Friday, May 11		
FEU Response to Information Requests No. 1	Friday, June 1		
Registration of Interveners and Interested Parties	Thursday, June 14		
Procedural Conference (Timetable and Process – commencing at 9:00 am)	Friday, June 15		

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