2016 Rate Design Application FortisBC Energy Inc. (FEI)

Workshop 1 – Rate Design Information Session

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Purpose

Physical system and assets used to move natural gas in BC

To provide context and information in support of the 2016 FEI Rate Design Application

Services provided by FEI and the rate schedules that apply to these services

General rate design topics and concepts



Agenda

Part I: Gas Supply Fundamentals, Essential Services Model and Transportation Model Overview

- Introduction
 - Atul Toky, Manager, Rate Design and Tariffs
- Gas Supply Basics and Essential Services Model
 - Rohit Pala, Resource Development Manager
- Transportation Model Overview
 - Stephanie Salbach, Transportation Services Manager

Part II: Rate Design Fundamentals & Tariff Overview

- Cost of Service, Segmentation and Rate Design Concepts
 - Richard Gosselin, Manager, Cost of Service
- Tariff Rate Schedules and Services Overview
 - Colleen Gravel, Tariff, Rate Design and Projects Manager



Gas Supply Fundamentals, Essential Services Model and Transportation Model Overview

PART I



Application Context Cost Allocation Revenue Requirement How Big is the Indust OM & A Pie? Property Taxes OM&A Debt Interest & ROF **Depreciation &** Residential Amortization Earned Return Commodity Depreciation & Amortitatic ncome Tax Income Taxes Costs Small & Large nall & Lard Earned Return **Depreciation &** Property Amortization OMRA PropertyTat & Administration Maintenance Operating, Midstream Costs Rate Design Basic How do you Charge How do you Pay for the *Slice the Pie?* Slice? Delivery Charge FORTIS BC⁻⁵⁻

All Components Affect Rate Design







Sales service: allows for provision of daily supply by FEI & Customer Choice Marketers sourced from trading hubs, while all other key midstream functions & contracted resources are managed by FEI. All aspects of the Sales service model operate within the business rules established in the Essential Services Model ("ESM")

Transportation service: model allows customers / shipper agents to bring gas directly to the onset of FEI's system at specified interconnects with 3rd party pipelines after which FEI transports the supply to the customers' premises



Overview of FEI Service Models & Rate Components



"Storage and Transport" is also referred to as "Midstream" 1 PJ = 1,000 TJ = 1,000,000 GJ



Gas Supply Basics and Essential Services Model







FEI Services and Bill Components



Breakdown of Annual Throughput Volumes by Sales and Transportation Services





Current FEI Business Model & Bill Components



Bill Components – Commodity Rate



Consists of:

- Market based rate flowthrough with no markup
- Annual baseload commodity purchases by FEI
- Station 2 and AECO/NIT supply
- Variable (market) rate offering to customer by FEI
- Reviewed quarterly & subject to quarterly resetting (per BCUC guidelines)



Bill Components – Storage & Transport (Midstream) Rate



Consists of:

- Market & Cost-based rate flowthrough with no markup
- Shaped winter gas supply & seasonal storage
- Upstream pipeline capacity on external pipeline systems
- Shorter duration market area and on-system LNG storage
- Load balancing functions for entire system
- Backstopping functions
- Reviewed quarterly but normally reset annually



Bill Components – Delivery Rate

Consists of:

- Charges for FEI operations and delivering gas through FEI's system (based on FEI's rate base and delivery cost of service)
- Includes variable and fixed charges
- Generally determined by RRA and PBR
- Typically adjusted annually





Commodity Unbundling and Essential Services Model

Sales Service



From Wellhead to Burnertip



ESM – Marketer Supply Requirement (MSR)





ESM – FEI's Responsibilities

Provide baseload commodity to sales customers choosing to stay with FEI for their daily supply

Contract & manage midstream resources including seasonal supply, external pipeline and storage capacity on behalf of all sales customers

Provides load balancing each day, peaking gas services & manage all key support system functions

Infrastructure & resource planning, gas supply framework and emergency response

Supplier of Last Resort – FEI backstops any shortfall due to marketer supply failure

Billing and collection services for all Sales customers



ESM - Marketer Responsibilities

Deliver gas to FEI at two supply/market hubs on behalf of unbundled customers

Delivers baseload volume every day all year per MSR calculation

Backstopping charges for short-term supply shortfall Share annual operating costs of the Customer Choice Program



FEI's System and Resources

Background & Overview of Regional Infrastructure



ESM Planning Objectives Fundamentals

The key component is the Annual Contracting Plan (ACP):

- Security and reliability of daily gas supply
- Diversity of resources, pricing & counterparties
- Flexibility
- Cost minimization



Regional Gas Market Resources



FortisBC Gas System Regional Overview





Diversity and Flexibility of Resource Portfolio

Design Load & Gas Supply





Load Duration Curve Based on Gas Year



Example – Daily Balancing Activity @ Lower Mainland



Summary

Limited resources in the region accessed by many parties

FEI has a separate model for each business segment

FEI's pool of resources provides gas supply for all sales customers

Each day total system load is balanced on the intraday by FEI's midstream resources

FEI has a regional presence so that a diverse pool of resources is required in the portfolio



Transportation Model Overview



Transportation Model Overview





General Background



Highlights

- Designed to give larger customers choice in who they procure their gas supply from
- Transportation service customers can make supply arrangements on their own behalf, or through Shipper Agents participating in the transportation model
- Natural gas supply is delivered to FEI at the interconnect and FEI transports and delivers it to the customer's premise
- Transportation Rate Schedules set terms and conditions of the service offering









Business Models: Shares of System Throughput & Custo 40%s





Transportation Throughput & Customers by Rate Schedule







* Includes RS22/22A/22B, VIGJV and BC Hydro IG

Historical Transportation Customer Growth




Gas Requirements

The role or responsibility of the shipper agent is to purchase and manage the gas supply needs on behalf of their customers



Shipper agents are expected to bring on sufficient supply to meet customer demand

Terms and conditions and potential charges when certain limits or tolerances are exceeded



Model Comparison

Essential Services Model		Transportation Service Model	
Bundled Service	Unbundled Service	Transportation Service	





2016 Actual Transportation Supply and Demand





Key Components



Pooled Groups



- Shipper agents may pool their customers in daily and monthly balanced groups
- 2,400+ customers
 - 16 Daily groups and 34 Monthly groups
 - 600 customers in Daily Balanced groups
 - 1,865 customers in Monthly Balanced groups



Transportation Service Balancing Requirements





Daily Balancing on FEI's system



Shipper agents can pool their customers in either a daily or monthly balanced group

For daily groups, daily supply should meet daily demand

If under-deliveries on a given day, Fortis will "balance them" and sell daily balancing gas

If under-deliveries extend beyond a 20% tolerance, a balancing premium surcharge may apply

When over-deliveries occur, the shipper agent's gas is banked as inventory on FEI's system



Monthly Balancing on FEI's system



Monthly balanced groups are not required to balance on a daily basis but by month end

If at month end total supply is <u>less</u> than total demand, FEI will balance the group and sell monthly balancing gas

Shipper agents with a daily and monthly balanced group at the same location typically over deliver to their daily group and under-deliver to their monthly group – and net out at month end



Imbalance Return





Inventory Levels



- Responsibility of the shipper agent to manage inventory on FEI's system
- FEI business practice is to monitor and limit inventory to +/- 2-3 days Example:

Avg burn = 5,000 Gjs/day Inventory= 15,000 Gjs Pack = 3 days

- Good working relationship
- FEI has tools to limit or reduce inventory as necessary



Administering the Tariff



Imbalance Restrictions Tightened at Peak Times





Applicable Charges

- Backstopping (Sumas Gas Daily)
- Daily and Monthly Balancing Gas sold (Sumas Gas Daily)
- **Daily Balancing Premium Surcharge** (\$1.10 in winter, \$0.30 in summer per GJ)
- Unauthorized over run (UOR) under and over 5% (Sumas Gas Daily and greater of 1.5 times Sumas Gas Daily or \$20/GJ)
- Replacement gas (Sumas Daily plus 20%)
- **Demand Surcharge** (\$17 x 12 x quantity)



Backstopping

Backstopping Example:

Nominated Quantity:	10,000 GJ
Delivered Quantity:	8,000 GJ
Backstopping sold	(2,000) GJ

2,000 GJ of Backstopping incurred

Charged at the Sumas Gas Daily price



Daily Balancing Gas and Balancing Premium Surcharge

Daily Balancing Gas Example:

Nominated Quantity:	10,000	GJ
Delivered Quantity:	10,000	GJ
Customer Demand:	15,000	GJ
DIFFERENCE	(5,000)	GJ

5,000GJ of Daily Balancing gas incurred Charged at the Sumas Gas Daily price

Balancing Premium Surcharge Example:

	Nominate	d Quantity:	10,000	GJ
	Delivered	Quantity:	10,000	GJ
	Greater of	f:		
-	10,000 x 1	L.2 =	12,000	GJ
	10,000 + 1	100 =	10,100	GJ
	REVISED E	Delivered Quantity:	12,000	GJ
	Customer	Demand:	15,000	GJ
	DIFFEREN	CE	(3,000)	GJ
	Surcharge	Calculation:		
	Summer	3,000 x \$0.30 =	\$ 900	
	Winter	3,000 x \$1.10 =	\$ 3,300	



Monthly Balancing Gas

Monthly Balancing Gas Example:

Sum of Delivered Quantities:	50,000 GJ
Sum of Customer Demand:	55,000 GJ
DIFFERENCE	(5,000) GJ

5,000GJ of Monthly Balancing gas incurred Charged at the Sumas Gas Daily price average for the month



Hold to Authorize/Supply Restriction

- Issued when sustained cold weather occurs or reach design day temperatures
- FEI can issue intra-day or day ahead
- Applies to all groups daily and monthly at a specific location
- Shippers must bring on sufficient supply to meet or exceed group demand
- Balancing threshold changes from 20% to 5%
- Unauthorized over-run charges will apply if under-deliveries occur



Unauthorized Over-Run (Supply Restriction)

Unauthorized Over-run Example:

Nominated Quantity:	10,000 GJ
Delivered Quantity:	10,000 GJ
Customer Demand:	15,000 GJ
DIFFERENCE - UOR applied	(5,000) GJ

First 5% of 10,000 = 500 >>> sold at Sumas Gas Daily Over 5% = 4,500 >>>>>

sold at the greater of Sumas gas daily x 1.5 or \$20 per GJ



Capacity Curtailment – Interruptible Customers

- Applies to specific Interruptible customers, typically either a RS 22/22A/22B or 7/27 at a specific location on our system
- Does not apply to the shipper agent
- Decision to curtail or limit a specific customer(s) is determined by FEI's Gas Control Department
- Customer may be required to reduce consumption or be curtailed completely
- If customer takes in excess of the curtailed quantity, Unauthorized Over-Run (UOR) and potentially Demand Surcharges may apply



Unauthorized Over-Run (Capacity Curtailment)

EXAMPLE:Curtailment Quantity:10,000GJCustomer Demand:15,000GJDIFFERENCE - UOR applied(5,000)GJ

First 5% of 10,000 = 500 >>> Over 5% = 4,500 >>>>

charged at Sumas Gas Daily charged at the <u>greater of</u> Sumas gas daily x 1.5 *or* \$20 per GJ



Demand Surcharge (Capacity Curtailment)

If on three or more Days during a Contract Year, a Shipper does not comply with a "Notice of Curtailment"

Demand Surcharge Example:

Curtailment Quantity:	10,000	GJ
Customer Demand:	15,000	GJ
Greater of:		
10,000 x 110% =	11,000	GJ
10,000 + 100 =	10,100	GJ
Demand Surcharge applied	(4,000)	GJ
Demand Surcharge times 12	\$ 17	GJ
Demand Surcharge quantity	4,000	GJ
	\$ 816,000	



Transportation Summary

Transportation service customers can make supply arrangements on their own behalf, or through shipper agents participating in the transportation model

Natural gas supply is delivered to FEI at the interconnect and FEI transports and delivers it to the customer's premise

FEI balances the system on an hourly and daily basis as a whole

Transportation Model has been generally working well



Rate Design Fundamentals & Tariff Overview

PART II



Cost of Service, Segmentation and Rate Design Concepts



What is Rate Design



How we split up the Revenue Requirement amongst customers

How we design our customers rates



Overview







- Essential Services Model (ESM) in place to ensure Gas gets from supply hubs to our service territory
- Transportation Services
 Model allows customers to bring gas to the FEI system (Interconnect points)
 whereby we receive gas for delivery to customers
- Delivery System picks up the gas that ESM and Transport models deliver to Interconnect points and moves it to customers premises

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FEI's Rate Design Principles

Recovering the cost of service

Fair appointment of costs among customers

Price signals to encourage efficient use

Customer understanding and acceptance

Practical and cost effective to implement

The weight placed on each of these principles is not always equal

Rate stability

Revenue Stability

Avoidance of undue discrimination





In its simplest form, it is the determination of the most appropriate rate to charge a customer group that recovers the costs of serving them

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Customer Segmentation

Analyzes customers to separate them into groups where the customers in a particular group use the system in a similar way

Segmentation tools used include:

- Bill Frequency analysis
- Consumption patterns
- Load Factor and Consumption scatter plots
- Type of Customer



Customer Segmentation – Bill Frequency Distribution

Bill Frequency



Customer Segmentation – Load factor and Consumption





Customer Segmentation Example Approach





How is the Delivery System built?







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COSA Terminology – Peak Day

- Peak Day
- Load factor adjusted volume

Peak Day =	Annual Consumption	
	Load Factor x 365	

		Customer Group 1	Customer Group 2
	Load Factor	30%	60%
	Annual Consumption (GJ)	1,000	1,000
	Peak Day (GJ)	9.1	4.6
	Peak Day Allocation %	67%	33%
		Customer Group 1	Customer Group 2
Cost to Allocate	\$1,000		
Allocation using Peak Day (GJ)		\$670	\$330
Allocation using Consumption (GJ)		<u> </u>	ć c o o





Commodity and Storage and Transport Costs

- Commodity Costs include all costs to acquire gas and is allocated based on the total energy demand
 - All customers that purchase gas from FEI pay the same gas cost \$/GJ
- Midstream Costs are those incurred to shape the load and are allocated based on load factor adjusted demand (peak demand)
 - Customers that purchase gas from FEI and unbundled customers pay midstream costs
- Transport Customers do not pay for Commodity or Midstream costs
- Gas costs are allocated to Fort Nelson and form part of the bundled rates applicable in Fort Nelson





How we split up our Revenue Requirement amongst our customers



Revenue to Cost Ratio (R/C) Total revenue ٠ • Sum of all costs collected by rate allocated to schedule each of the rate schedules equals the Utility's total Cost of Service RS 1 **Allocation** RS 1 **RS 1** RS 3/23 **RS 2 RS** 1 **RS 2** Others RS 3/23 Others



Revenue to Cost Ratio



- If a customer group's R/C ratio is within a range around unity, their rates are assumed to be fair and reasonable from a cost allocation perspective
- A range is appropriate given the subjective and short term nature of inputs, classifications and allocations
- Some times rebalancing may be required
 - Revenue shift recoveries between customer groups

(Reduce one customer group's rates and increase another group's rates)



COSA Supporting Studies

	Study	Description	Why Is It Required?
1)	Minimum System Study	Classifies distribution costs into customer and demand components	Ensures appropriate allocation of costs to each rate schedule
2)	Customer Weighting Factors Study	Assigns weighting factor to the average number of customers for each rate schedule	Ensures appropriate allocation of customer related costs to various rate schedules



COSA Minimum System Study (MSS)

- 25,000 KM of distribution mains
 - Diameter of 15 mm 800 mm
 - Varying cost per meter
- Some portion of these mains are in place just to connect our customers to the system, this is the minimum system



- MSS basically prices 25,000 KM of pipe as if it were 60 mm
 - Generally all new pipe is no less than 60 mm PE pipe
- The value of the minimum system divided by the actual value of all the pipe is the percentage classified as 'Customer'
- The balance is classified as 'Demand'



COSA Customer Weighting Factor

- Study differentiates the cost to connect small customers and large customers
- Calculated as a ratio to the cost to connect a residential customer
- Ratio used to scale upwards the average number of customers in a customer group





Functionalization

COSA- Example- Functionalization

Assume a two cost system, with two functions and three customer groups

Distribution operations role is to connect customers and deliver gas through DP pipe. Transmission operations role is to ensure gas is brought to the distribution system through TP pipe at the right time, quantity and pressure.

Total	\$6,000
Cost 2: Transmission Operating Costs	<u>\$4,000</u>
Cost 1: Distribution Operating Costs	\$2,000

	FUNCTION	
	Distribution Operations	Transmission Operations
Distribution Operating Costs	\$2 <i>,</i> 000	
Transmission Operating Costs		\$4,000
		Ker FOF



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COSA- Example - Classification

Distribution costs are incurred in part from customers joining the system and in part from the demand they place on the system

Minimum System Study quantifies the split of the Distribution system between Customer and Demand.

Assume 30% of Distribution system in place because a customer connects and 70% to serve them their demand.

Transmission system is 100% demand related.

	FUNCTION		CLASSIFICATION	
	Distribution Operations	Transmission Operations	Customer	Demand
Distribution Operating Costs	\$2,000		\$600	\$1,400
Transmission Operating Costs		\$4,000		\$4,000





COSA – Example - Allocation

Allocation of costs requires an allocator that causes the cost to incur

Number of Customers works well to allocate customer costs. Peak Day Demand works well for demand related costs







COSA – Example – Revenue to Cost

Once costs are allocated, revenue collected from each customer group is divided by the allocated cost to calculate the Revenue to Cost (R/C) ratio

	ALLOCATION			
	Rate 1 Allocation	Rate 2 Allocation	Rate 3/23 Allocation	Total
	\$980	\$280	\$140	\$1,400
	\$440	\$120	\$40	\$600
	\$2,800	\$800	\$400	\$4,000
Total Allocated Costs	\$4,220	\$1,200	\$580	\$6,000
Revenue at Existing Rates	\$4,150	\$1,200	\$650	\$6,000
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R/C Ratio	98.3%	100.0%	112.0%	100.0%

If R/C ratios are far from 100%, rebalancing may be required

How we split up our Revenue Requirement amongst our customers



Designing Rates

- Often premised on allocated costs
- Customer-related costs tend to be fixed in nature



- Demand-related costs are based on the demand a customer places on the system, however a great portion is also fixed (capital cost of infrastructure like pipe and compression)
- Energy related costs tend to be variable with total consumption
- Balance recovery of fixed costs through fixed charges with the customers' desire to control energy costs through consumption patterns

Rates should be understandable, stable, fair

and recover the cost of service





Customer Related Costs

Demand Related Costs

Energy Related Costs

Basic Charge Minimum Charge Administration Charge Demand Charge Delivery Charge Volumetric Block Charge

How we design our customers rates



Summary

COSA methods are consistent with 2012 application

Midstream allocations consistent with past decisions

Commodity costs per GJ are derived using total commodity costs / sales volume

COSA results are one of the many considerations when designing rates



Tariff Rate Schedules and Services Overview



FEI Tariff Rate Schedules and Services



- A Tariff is a BCUC approved rate schedule of rates that can be charged by a utility to its customers
 - Includes Sales and Transportation rate schedules, in addition to other specific rate schedules that offer other services
- The FEI General Terms and Conditions (GT&Cs) of Service
 - Outline the terms and conditions under which FEI (including the Fort Nelson Service Area) operates
 - Includes the Standard Fees and Charges Schedule, which includes fees and charges such as:
 - Application Fees
 - Reactivation Charges



FEI Tariff Service Areas





FEI Sales and Transportation Services

FEI Tariff Rate Schedules 1 to 27



*The Renewable Natural Gas (Biomethane Service) and Customer Choice (Unbundling Service) Programs are voluntary



Sales and Transportation Services

Sales Services**



Transportation Services



*Interruptible Service – transportation service which may be interrupted or curtailed by FEI, pursuant to the applicable sections in the applicable rate schedule and the FEI GT&Cs.



**Firm Service – sales and transportation service in which FEI is obligated to deliver gas, only subject to interruption or curtailment pursuant to sections Default/Bankruptcy and/or Force Majeure as per the applicable rate schedule and the FEI GT&Cs.



Sales Service

FEI Tariff Rate Schedules 1 to 7

Description of Charges

Delivery Related Charges	Basic Charge per Day or Month		
	Demand Charge per Month per Gigajoule of Daily Demand	Applicable to Rate Schedules 5 and 5B	
	Delivery Charge per Gigajoule		
Commodity Related Charges	Storage and Transport per Gigajoule	The former Midstream charge	
	Commodity Cost Recovery Charge per Gigajoule	Not Applicable to Commodity Unbundled Customers	
	Biomethane Energy Recovery Charge per Gigajoule	Only Applicable to Rate Schedules 1B, 2B, 3B, and 5B	
	Rate Rider 1 per Gigajoule (Revelstoke		



Sales Rate Schedules

Bundled Service – FEI Rate Schedules 1 to 7

Rate Schedule 1/1B/1U	 Residential Service 2016 Forecast Average Number of Customers – 886,652
Rate Schedule 2/2B/2U	 Small Commercial Service (<2,000 GJ) 2016 Forecast Average Number of Customers – 84,737
Rate Schedule 3/3B/3U	 Large Commercial Service (>2,000 GJ) 2016 Forecast Average Number of Customers – 5,040
Rate Schedule 4	 Seasonal Firm Service 2016 Forecast Average Number of Customers - 18
Rate Schedule 5/5B	 General Firm Service 2016 Forecast Average Number of Customers – 230
Rate Schedule 6*	 Natural Gas Vehicle Service 2016 Forecast Average Number of Customers – 15
Rate Schedule 6P	 Natural Gas Refueling Service (Surrey Ops) 2016 Forecast Average Number of Customers – n/a
Rate Schedule 7	 General Interruptible Service 2016 Forecast Average Number of Customers – 5

*Also includes Rate Schedule 6A – Natural Gas Refueling Service (Compression) – zero customers in this rate class



Transportation Service

FEI Tariff Rate Schedules 22, 22A, 22B, 23, 25, 26, and 27

Description of Charges

Delivery Related Charges	Basic Charge per Month	
	Administration Charge per Month	
	Demand Charge per Month per	Applicable to firm load
	Gigajoule of Daily Demand	Applicable to Rate Schedules 22A, 22B and 25
	Delivery Charge per Gigajoule	
<u>Transportation</u> <u>Service Related</u> <u>Charges</u>	Charge per Gigajoule of Balancing Gas Supplied	
	Charge per Gigajoule for Backstopping Gas	
	Charge per Gigajoule of Replacement Gas	
	Charge per Gigajoule for Unauthorized Overrun Charges	



Transportation Rate Schedules

FEI Tariff Rate Schedules 22, 22A, 22B, 23, 25, 26, 27, and 50

Rate Schedule 22	 Large Volume Transportation Service 2016 Forecast Average Number of Customers – 26
Rate Schedule 22A	 Transportation Service - Inland Service Area (Closed) 2016 Forecast Average Number of Customers – 9
Rate Schedule 22B	 Transportation Service - Columbia Service Area (Closed) 2016 Forecast Average Number of Customers – 5
Rate Schedule 23	 Commercial Transportation Service (>2,000 GJ) 2016 Forecast Average Number of Customers – 1,669
Rate Schedule 25	 General Firm Transportation Service 2016 Forecast Average Number of Customers – 566
Rate Schedule 26	 Natural Gas Vehicle Transportation Service 2016 Forecast Average Number of Customers – nil
Rate Schedule 27	 General Interruptible Transportation Service 2016 Forecast Average Number of Customers – 108
Rate Schedule 50	 Large Volume Industrial Transportation Service 2016 Forecast Average Number of Customers – nil



Other Services and Rate Schedules

FEI Tariff Rate Schedules 11B, 14A, 36, 40, and 46





Fort Nelson Service Area





Fort Nelson Service Area Sales Service Fort Nelson Rates 1, 2.1, 2.2, and 2.3 Description of Charges

<u>Rates 1,</u> 2.1, 2.2, and 2.3

Rate 1 used as an example

- <u>Minimum Daily Charge</u>, which includes the first 2 Gigajoules per month prorated on a daily basis
- <u>Variable Charge</u> for the next 28 Gigajoules in the month
- <u>Variable Charge</u> for excess of 30 Gigajoules in the month
- The <u>Minimum Daily Charge</u> and the <u>Variable</u> <u>Charges</u> are inclusive of:
 - Delivery Charge per day/Gigajoule
 - *Revenue Stabilization Adjustment Amount per Day/Gigajoule (Rate Rider 5)*
 - Gas Cost Recovery Charge per Day/Gigajoule



Fort Nelson Service Area Sales Rates

Fort Nelson Rates 1, 2.1, 2.2, 2.3, 3.1, 3.2, and 3.3

Rate 1	 Domestic Service 2016 Forecast Average Number of Customers – 1,980
Rate 2.1	 General Service (<6,000 GJ) 2016 Forecast Average Number of Customers – 468
Rate 2.2	 General Service (=or>6,000 GJ) 2016 Forecast Average Number of Customers – 34
Rate 2.3*	 Natural Gas Vehicle Fuel Service 2016 Forecast Average Number of Customers – nil
Rate 3.1	 Industrial Service (<96,000 GJ) 2016 Forecast Average Number of Customers – nil
Rate 3.2	 Industrial Service (=or>96,000 GJ< 360,000 GJ) 2016 Forecast Average Number of Customers – nil
Rate 3.3	 Industrial Service (=or>360,000 GJ) 2016 Forecast Average Number of Customers – nil

*Rate 2.4 provides Compression/Dispensing Service (Rates to be filed with BCUC for approval) – zero customers in this rate class



Fort Nelson Service Area

Rate Schedule 25 General Firm Transportation Service – 1 Customer

<u>Description of Charges</u>		
<u>Delivery</u> <u>Related</u> <u>Charges</u>	Delivery Charge per Gigajoule of Monthly Transportation Quantity	Delivery Charge for first 20 GJ Next 260 GJ Excess of 280 GJ
	Minimum Delivery Charge per Month	
	Administration Charge per Month	
	Revenue Stabilization Adjustment Charge per Gigajoule	Rate Rider 5
Transportation Service Related Charges	Charge per Gigajoule of Authorized Overrun Gas	

Charges for Unauthorized Overrun Gas



Applicable Customer Fees and Charges

FEI Standard Fees and Charges Schedule





Summary

The FEI GT&Cs, including the Standard Fees and Charges Schedule

 Have been reviewed with proposed amendments in the Rate Design Application

Current Rate Schedules

- Working well for FEI and customers
- Have been reviewed with proposed amendments in the Rate Design Application

Website Link

 <u>https://www.fortisbc.com/About/Regulato</u> ryAffairs/GasUtility/NatGasTariffs/FortisBC EnergyInc/Pages/default.aspx



Concluding remarks



Services, Cost Allocation and Rate Design





March 9, 2017

Focus on results from COSA Workshop 2 study

Present Rate Design proposals and approvals sought as filed in the FEI 2016 RDA





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