FEI Annual Review of 2023 Delivery Rates

Workshop



October 14, 2022

Agenda

Торіс	Presenter(s)
Approvals Sought and Fort Nelson Common Rates Decision	Sarah Walsh Senior Manager, Regulatory Affairs
Revenue Requirements & Rates	Anthony Ho Manager, Cost of Service
Updated Sustainment Capital Forecasts for 2023 & 2024	Karen Coldham Manager, Gas System Assets
Gibsons Capacity Upgrade Project	Karen Coldham Manager, Gas System Assets
Kelowna Facilities Space Project	Becky Richardson Facilities Planning Manager
Clean Growth Innovation Fund	Mark Warren Director, Business Innovation
BC Low Carbon Fuel Standard (BC-LCFS) and Emissions Regulations Deferral Account	Jamie King Senior Manager, Business Development
Service Quality Indicators (SQIs)	James Wong Director, Budgeting & Strategic Initiatives Amar Mangat Manager, Customer Experience & Billing Services
Open Question Period	

Revised and New Approvals Sought

- Interim 2023 delivery rate increase of 7.69%
- A one-year amortization period for the FEFN Common Rates and 2022 RRA Costs deferral account, commencing January 1, 2023
- FEFN Residential Common Rate Phase-in Rate Rider for 2023



Fort Nelson Common Rates Decision Exhibit A-6, Question 1 (a)

By Order G-278-22 dated October 6, 2022, the BCUC а. issued its final decision on the FEI Application for Common Rates and 2022 Revenue Requirements for the Fort Nelson Service Area (FEFN) proceeding approving, among other things, common delivery rates for FEFN and FEI, effective January 1, 2023 (FEFN Common Rates Decision). Please provide, based on an evidentiary update approach, an estimate of the anticipated length of time needed to incorporate the impacts of the FEFN Common Rates Decision into FEI's 2023 permanent delivery rates for review by the BCUC and interveners, including (i) preparation of an evidentiary update; and (ii) responding to information requests on that evidentiary update.



Evidentiary Update

• Updated interim 2023 delivery rate of 7.69%.

	Deficiency (\$millions)	% Delivery Rate Increase
As-Filed	\$ 71.717	7.42%
Impact from FEFN Common Rates Decision (G-278-22)	(0.190)	(0.04%)
Update to Emissions Regulation Deferral Account	3.008	0.31%
Update AWE-BC to I-Factor Calculation	0.003	0.00%
Leasehold Improvement Correction (BCUC IR1 18.4)	0.088	0.01%
Removal of McRae CNG Station Capital (G-279-22)	(0.050)	(0.01%)
Evidentiary Update	\$ 74.576	7.69%



Implementation of Common Delivery Rates

• 2022 Closing Balances

 Transfer closing December 31, 2022 balances of FEFN's gross plant in service, accumulated depreciation, CIAC, and accumulated amortization of CIAC, to FEI's rate base as January 1, 2023 opening balance adjustments

Transfer capital work in progress, working capital, and unamortized deferred charges



Implementation of Common Delivery Rates

- 2023 Forecasts
 - Add FEFN load forecast
 - Add FEFN's forecast 2023 customer count to FEI's forecast 2023 customer count to incorporate FEFN into Formula O&M
 - No adjustment to Growth Capital
 - 2023 and 2024 Forecast FEFN Sustainment and Other Capital added to FEI's Updated Sustainment and Other Capital Forecasts



Implementation of Common Delivery Rates

- Other
 - 5-year Phase-in rate rider for FEFN residential customers
 - Amortization of FEFN Common Rates and 2022 RRA Costs deferral account over 1 year



Proposed 1-Year Amortization Period for FEFN Common Rates and 2022 RRA Costs Deferral Account

- FEI considered one to five year amortization periods
- Factors considered in selecting amortization period:
 - Forecast deferral account balance
 - Rate impact (rate smoothing)
 - Alignment with common rates phase-in period

	Amortization Period				
	1 Year	2 Years	3 Years	4 Years	5 Years
Changes to Proposed 2023 Delivery Rate Increase (%)	0.000%	-0.012%	-0.016%	-0.018%	-0.020%
Proposed 2023 Delivery Rate Increase (%)	7.69%	7.68%	7.68%	7.67%	7.67%



Recap of Question 1(a)

By Order G-278-22 dated October 6, 2022, the BCUC а. issued its final decision on the FEI Application for Common Rates and 2022 Revenue Requirements for the Fort Nelson Service Area (FEFN) proceeding approving, among other things, common delivery rates for FEFN and FEI, effective January 1, 2023 (FEFN Common Rates Decision). Please provide, based on an evidentiary update approach, an estimate of the anticipated length of time needed to incorporate the impacts of the FEFN Common Rates Decision into FEI's 2023 permanent delivery rates for review by the BCUC and interveners, including (i) preparation of an evidentiary update; and (ii) responding to information requests on that evidentiary update.



Interim Rates Exhibit A-6, Question 1(b)

b. Given the number of other concurrent FEI applications before the BCUC, specifically, the BCUC Generic Cost of Capital (GCOC) proceeding; FEI 2023 Demand Side Management (DSM) Expenditures Plan application; and FEI Rates and Agreement for Constructing and Operating a CNG Fueling Station under GGRR for McRae's Environmental Services Ltd. in Richmond proceeding, please discuss the timing and process for incorporating the impacts, if any, of the BCUC decisions on those applications into FEI's 2023 permanent delivery rates, including the following:

(i) FEI's proposal, and any alternatives considered, for incorporating the impact of the BCUC's decision on FEI's 2023 Delivery Rates following completion of Stage 1 of the BCUC GCOC proceeding, in the event that this decision is not rendered until 2023 or possibly, 2024.



Decisions and Impact on 2023 Permanent Delivery Rate Timing

- FEI Rates and Agreement for Constructing and Operating a CNG Fueling Station under the GGRR for McRae's Environmental Services Ltd. in Richmond – No Impact
- 2023 DSM Expenditures Plan Application Decision Anticipated February/March 2023
- BCUC Generic Cost of Capital (GCOC) Stage 1
 Proceeding Decision expected in Q2 2023 or later



Rationale for Maintaining 2023 Interim Delivery Rates until the GCOC Decision is Issued

- Proposed approach to implementing permanent delivery rates is dependent on the timing of the GCOC decision, the quantum of any changes to FEI cost of capital resulting from the GCOC decision, and the effective date of those changes
- Maintaining interim 2023 delivery rates until the GCOC decision is issued provides the most <u>optionality</u> for implementing permanent 2023 rates
- Options for recovering the difference between interim and permanent delivery rates include (i) retroactive adjustment, (ii) forward-looking adjustment, and (iii) deferral account



Questions?

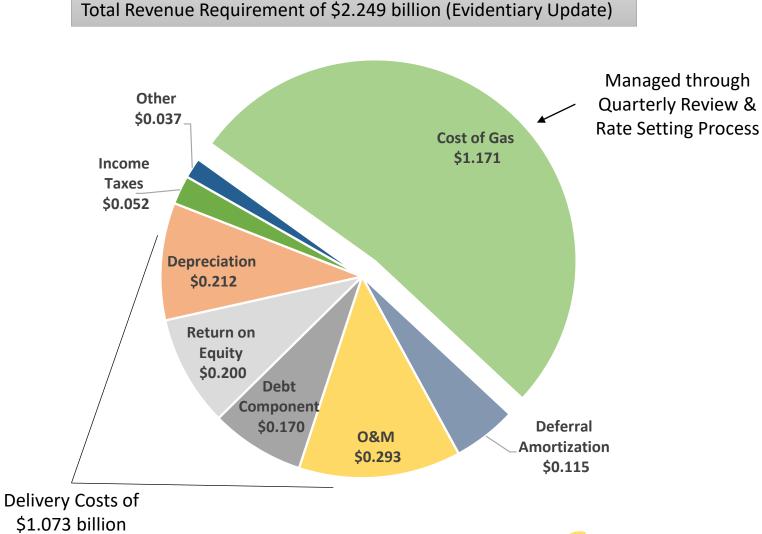


Revenue Requirements & Rates

Anthony Ho, Manager, Cost of Service



2023 Revenue Requirement Summary



Summary of 2023 Deficiency

- Deficiency of \$74.576 million (Evidentiary Update):
 - Total 2023 revenue requirement is \$2.249 billion, less
 - Revenue at existing 2022 approved rates of \$2.175 billion
- Major drivers of deficiency:
 - Expiry of BC Hydro IG Contract: 1.62%
 - Rate base growth: 3.38% (CPCNs 1.55%; FEFN 0.08%)
 - Net O&M: 1.65%

Components	\$ millions	%
Demand Forecast		
Non-bypass & Bypass (Excl. BC Hydro IG)	(16.226)	(1.67%)
BC Hydro IG	15.735	1.62%
Other Revenue	(0.382)	(0.04%)
Net O&M	16.030	1.65%
Rate Base Growth	32.743	3.38%
Depreciation	12.458	1.28%
Deferral Amortization	6.217	0.64%
Financing and Return on Equity	2.719	0.28%
Taxes	5.282	0.54%
Total Deficiency (Evidentiary Update)	74.576	7.69%

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Driver #1: Expiry of BC Hydro IG Contract

- 2023 Delivery Rate increase if BC Hydro IG Contract were in place: 6.07% vs. 7.69%
- Expired: Contract Demand of approx. 16.4 PJ or revenue of \$15.7 million, effective April 2022
- New: Fully interruptible service under RS 22 (Minimum revenue of approx. \$167 thousand)
- Excluding BC Hydro IG, 2023 demand forecast to increase by approx. 3.6 PJ (approx. 1.5%) compared to 2022 Approved

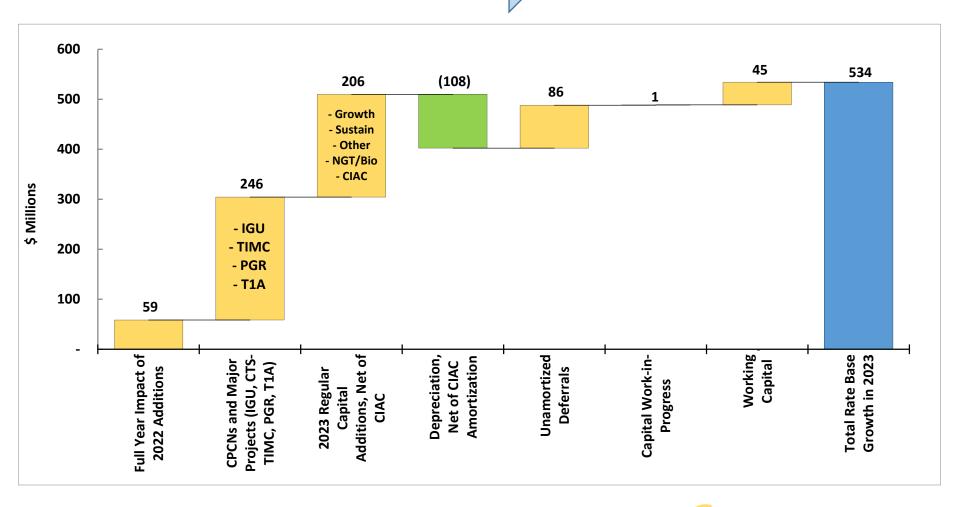


Driver #2: Rate Base Growth

2022 Approved Rate Base = \$5.409 billion

+ \$534 Million

2023 Forecast Rate Base = \$5.943 billion

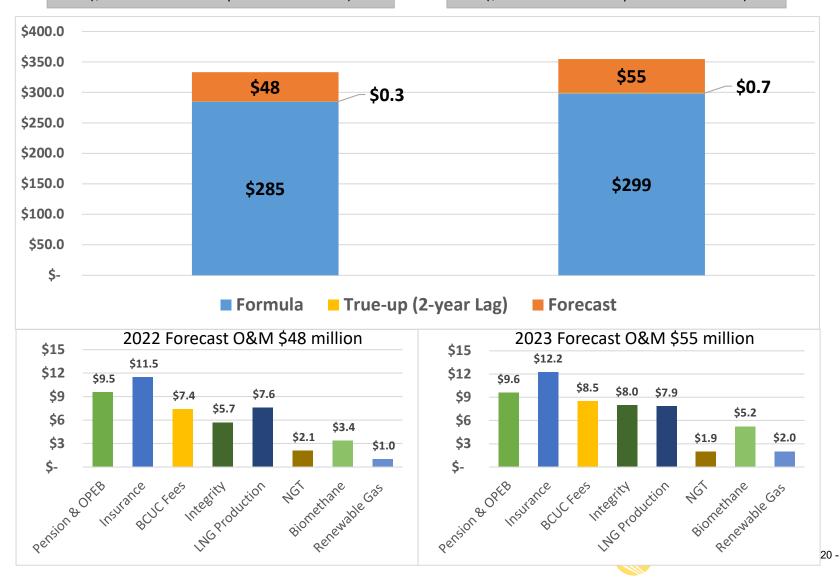




Driver #3: O&M – 2022 Approved vs. 2023 Forecast

2022 Approved Gross O&M \$333 million (\$277 million after capitalized overhead)

2023 Forecast Gross O&M \$355 million (\$293 million after capitalized overhead)



Questions?

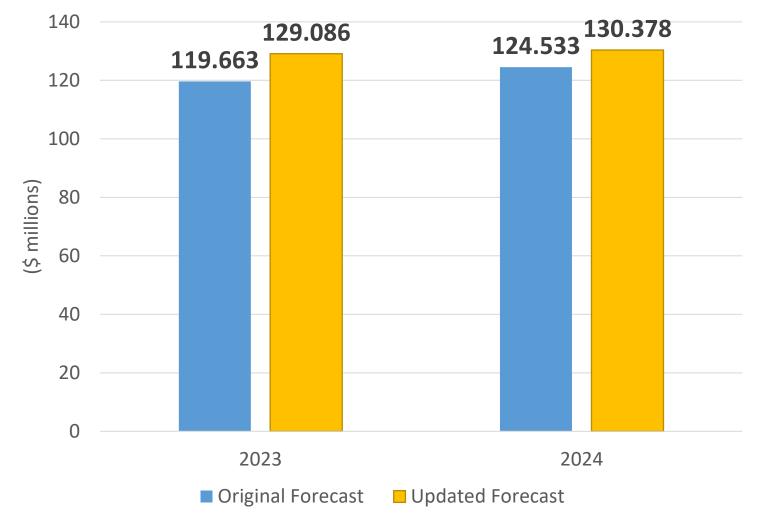


2023 and 2024 Updated Sustainment Capital Forecasts

Karen Coldham, Manager, Gas System Assets



2023 and 2024 Updated Sustainment Capital Forecasts





Drivers for Increased Sustainment Forecasts

- Inflationary increases due to unanticipated global events
- Increased alteration activities due to third party infrastructure upgrades
- Additional reliability & integrity driven projects that were not forecast in the MRP application

Mitigation Measures

- Reprioritizing projects or components of a project
- Long-term supply contracts for common materials and services
- Competitively tendering large contracts for materials and services

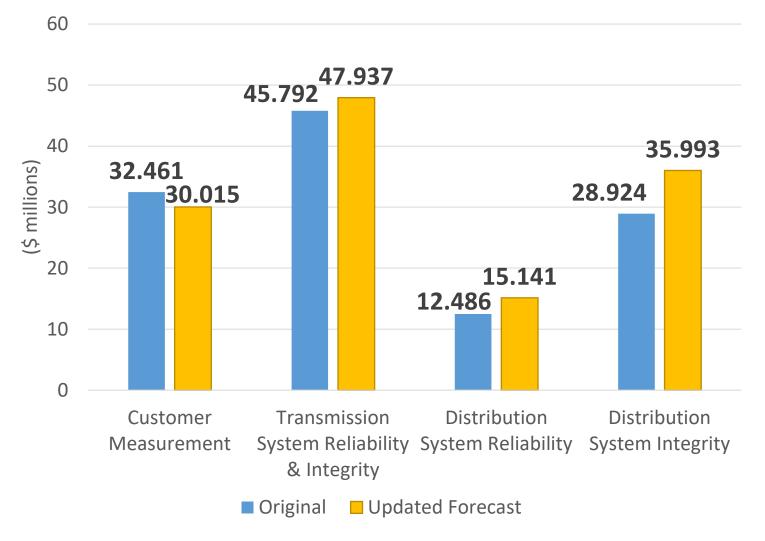


Asset Investment Planning Process



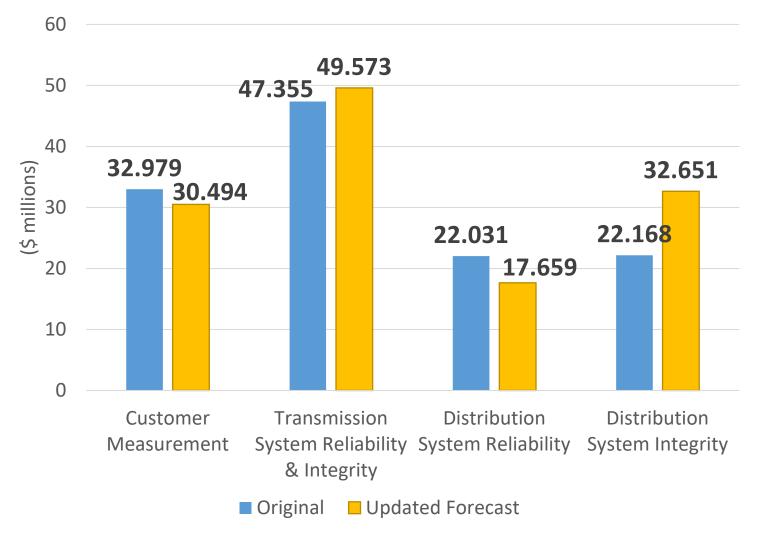


2023 Sustainment Capital





2024 Sustainment Capital





Questions?

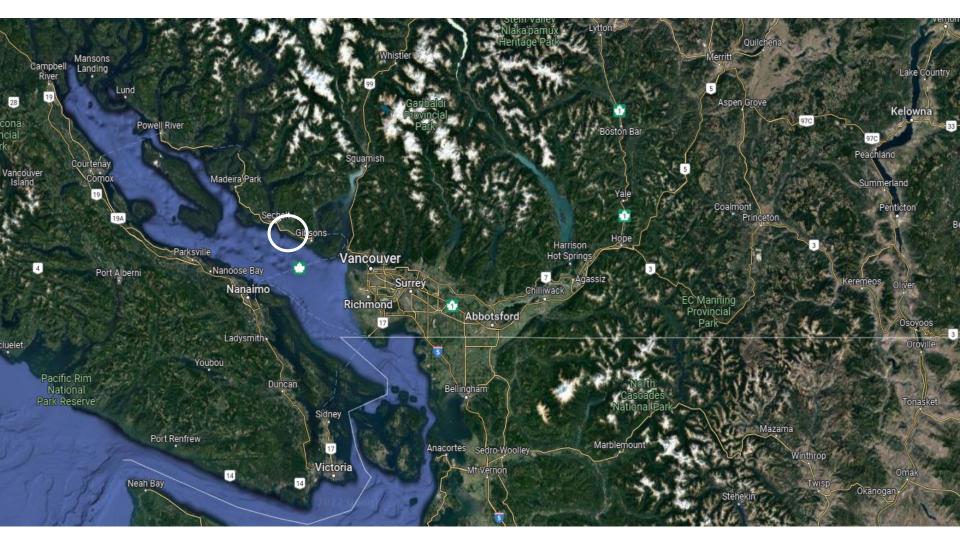


Gibsons Capacity Upgrade Project

Karen Coldham, Manager, Gas System Assets



Project Location

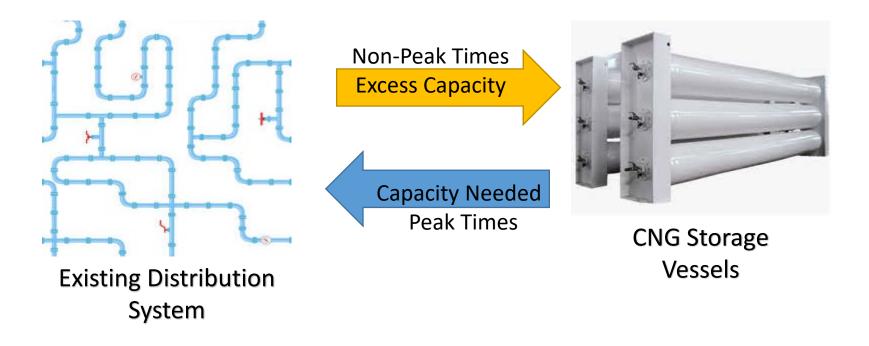




Project Need

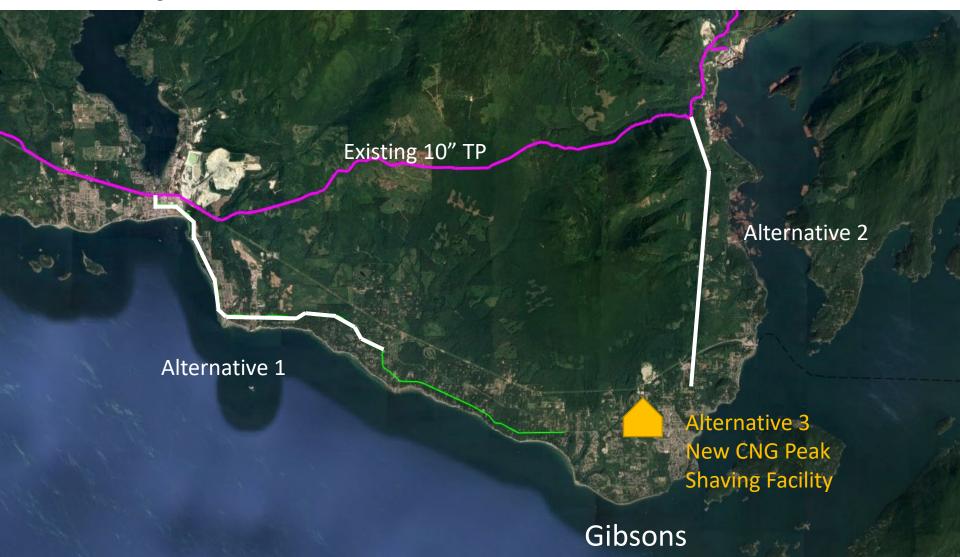


Proposed Alternative





Project Alternatives





Project Alternatives – Class 4

Criteria	Alternative 1 Sechelt to Gibsons	Alternative 2 Port Mellon to Gibsons		Alternative 3 CNG Peak Shaving
Non-Financial Ranking	3	1		2
Financial Criteria				
Alternatives		Option A	Option B	
PV of Total Incremental Revenue Requirement (\$millions)	\$52.400	\$38.800	\$44.700	\$14.700 *
Combined Ranking	4	2	3	1
	1			

* Class 3 Cost Estimate: \$12.194 million



Conclusion

- GCU project is necessary to address capacity shortfall in Gibsons community
- Proposed Alternative is an innovative, cost-effective solution that meets all required project objectives
- Based on Class 3 study, the total GCU project costs are estimated to be \$12.194 million



Questions?





Kelowna Space Project

Becky Richardson, Facilities Planning Manager

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Current Facilities

Springfield



Owned | 3.2 Acres Office + Warehouse: 35,189 ft²

Enterprise



Leased | 1.5 Acres Office + Warehouse: 10,652 ft²

Benvoulin



Owned | 3.4 Acres Office + Warehouse: 25,268 ft²

Challenge

Springfield



Enterprise



Benvoulin



Space Constraints

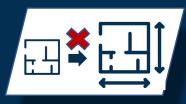
Constraints



headcount growth

Account for projected No fu

No further densification possible



No office floor addition possible



Parking overflow | No expansion



Limited land availability in real estate market



ALR prevents property expansion



Zoning restrictions limit property resale value

Options Considered









Selected Option Benefits



Implementation Timing

1	2022	2023	2024
Legend	Design Development &	Tenant Improvement	Tenant Improvements /
New Lease Facility	Construction Drawings	Construction and Move In	Operations Building Swap
Springfield		Tenant Improvement Construction 2 nd & 3 rd	Tenant Improvements Continued
Benvoulin		Floor upon Relocation of Support Services	

Questions



Clean Growth Innovation Fund (CGIF)

Mark Warren, Director, Business Innovation



CGIF Criteria and Portfolios

Table 10-7: Approved and Rejected Spending for Portfolios One through Four (\$ millions)

	Portfolio 1	Portfolio 2	Portfolio 3	Portfolio 4	Total
Approved	\$1.5	\$0.5	\$1.7	\$0.6	\$4.3
Rejected, Cancelled or Deferred	\$0.2	\$3.2	\$1.8	\$0.2	\$5.4

CGIF Proposals are grouped into Portfolios for efficient review against criteria

- Estimated CO2e and CAC reduction in British Columbia
- Estimation of energy cost reductions for customers
- Amount of co-funding secured (from applicant and third parties)
- Relevant experience of the applicant project team

Rejected: Do not meet CGIF criteria

Cancelled: Proponent withdraws application

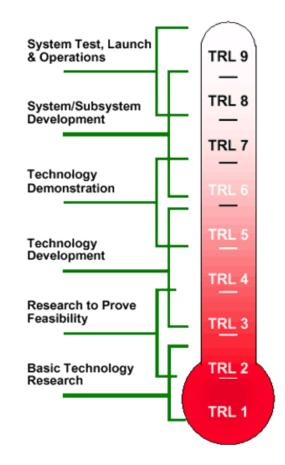
Deferred: Need to improve alignment with CGIF criteria



Clean Growth Innovation Fund Trends

Two key trends:

- Research and Development activity is increasing
- Technology Readiness Levels are rising





Approved and Actual/Forecast Expenditures

(\$ millions)	2020	2021	2022	2023
Portfolio Approvals	1.500	2.200	2.495+	TBD
Portfolio Expenditures	1.022	1.127	1.500	2.500

Figures consolidated from:

Exhibit B-2 (Application) Table 10-6, Table 10-7 and Exhibit B-7, BCOAPO IR1 11.2.



Questions?



BC Low Carbon Fuel Standard (BC-LCFS) and Emissions Regulation Deferral Account

Jamie King, Senior Manager, Business Development



Emissions Regulation Deferral Account History

- 2012-2013 Revenue Requirement Application:
 - FEI requested establishment of the Emissions Regulation Deferral Account to capture incremental costs and recoveries related to the growing number of regulations around emission trading, including Emissions Trading Regulation and the Renewable and Low Carbon Fuel Requirement Regulation
- Approved by Order G-44-12:
 - "The Commission Panel finds that the establishment of an Emissions Regulation Deferral Account is appropriate given the uncertainties surrounding the costs and revenues that could accrue to FEU"
- FEI Annual Review for 2017 Rates, approved by Order G-182-16:
 - BCUC approves a five-year amortization period for the Emissions Regulation Deferral Account



BC-LCFS

- The <u>Greenhouse Gas Reduction (Renewable & Low</u> <u>Carbon Fuel Requirements) Act</u> and the <u>Renewable &</u> <u>Low Carbon Fuel Requirements Regulation</u>, known collectively as British Columbia's low carbon fuel standard (BC-LCFS), was introduced to reduce the carbon intensity (CI) of fuels used in the province
 - □ The BC-LCFS sets CI targets that decline each year.
 - Fuel suppliers generate credits for supplying fuels with a CI below the targets and receive debits for supplying fuels with a CI above the targets.
 - The debits and credits are proportional to the emissions a fuel generates over its full life cycle.
 - Credits can be traded between fuel suppliers or banked for future use.



FEI and the BC-LCFS

"Part 3 fuel supplier" means

 a person who, within British Columbia, sells Part 3 fuel for the first time after it is manufactured in or brought into British Columbia, ...

And:

a person who, for the person's own use, manufactures Part
 3 fuel in British Columbia;



FEI and the BC-LCFS – CNG Service



Title of the gas during compression determines who is the Part 3 fuel supplier

A) For stations at customer locations, FEI sells gas at the meter, prior to it being compressed

Customer is the Part 3 Fuel Supplier B) FEI owns title to the gas used for its CNG fleet

C) At Surrey Ops, FEI sells gas under Rate Schedule 6P at the Dispenser.

> FEI is the Part 3 Fuel Supplier



FEI and the BC-LCFS – LNG Service



Title of the gas during liquefaction determines who is the Part 3 fuel supplier

D) Under RS 46 Transportation Service, the customer delivers gas to FEI upstream, and the customer retains title to the gas through the LNG Plant (6.4b)

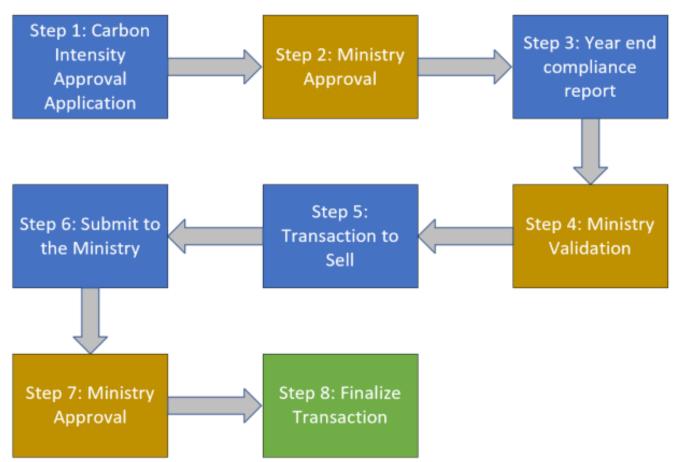
> Customer is the Part 3 Fuel Supplier

E) Under RS46 LNG Sales and Dispensing Service, title transfer occurs "at the outlet flange" of the LNG Plant (6.4a)

FEI is the Part 3 Fuel Supplier



Carbon Credit Validation Process



- No incremental O&M; approx. \$10 thousand absorbed in formula O&M for internal labour
- Approx. \$10 thousand in external consultant and legal costs to be included in the deferral account
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Carbon Credit Validation Timeline

Compliance Period	2018	2019	2020	2021
Initial Report	29-Mar-19	27-Mar-20	25-Mar-21	22-Mar-22
Supplemental Report		6-Jul-20	4-Feb-22	
Supplemental Report		17-Feb-21		
Supplemental Report		4-Feb-22		
Approval	23-Sep-19	18-Feb-22	18-Feb-22	
Credits	26,521	28,918	24,710	2,419

- Timing, value, and magnitude of the credits remains uncertain and difficult to forecast
- Current credits have been accruing since January 1, 2018



Emissions Regulation Deferral Account Amortization

Exhibit A-6

Question 2b:

 Please discuss the alternatives considered by FEI related to the proposed amortization of the Emissions Regulations Deferral Account, such as returning monetized credits to CNG and LNG transportation customers only instead of amortizing the deferral account to the benefit of all ratepayers, and why these alternatives were rejected.



Questions?



Service Quality Indicators

James Wong, Director, Budgeting and Strategic Initiatives Amar Mangat, Manager, Customer Experience, Billing Services



Customer

Service Quality Indicator	2020 Results	2021 Results	2021 Status (Relative to Benchmark and Threshold)	2022 August YTD Results	2022 Status (Relative to Benchmark and Threshold)	Benchmark	Threshold
Customer SQIs							
First Contact Resolution	81%	79%	Meets	78%	Meets	78%	74%
Billing Index	0.6	0.9	Meets	1.0	Meets	<=3.0	5.0
Meter Reading Accuracy	89%	88%	Below threshold	87%	Below threshold	95%	92%
Telephone Service Factor (Non- Emergency)	70%	70%	Meets	63%	Below threshold	70%	68%
Meter Exchange Appointment	98.1%	98.3%	Meets	98.3%	Meets	95%	93.8%

Informational Indicator	2020 Results	2021 Results		2022 August YTD Results		
Customer Satisfaction Index	8.7	8.7	n/a	8.6	n/a	
Average Speed of Answer	72 sec.	65 sec.	n/a	92 sec.	n/a	



Safety and Reliability

Service Quality Indicator	2020 Results	2021 Results	2021 Status (Relative to Benchmark and Threshold)	2022 August YTD Results	2022 Status (Relative to Benchmark and Threshold)	Benchmark	Threshold
Safety SQIs							
Emergency Response Time	97.7%	97.7%	Meets	97.9%	Meets	97.7%	96.2%
Telephone Service Factor (Emergency)	96.9%	96.9%	Meets	97.5%	Meets	95%	92.8%
All Injury Frequency Rate	1.66	1.75	Meets	1.66	Meets	2.08	2.95
Public Contacts with Gas Lines	7	6	Meets	5	Meets	<=8	12

Informational Indicator	2020 Results	2021 Results		2022 August YTD Results			
Reliability SQIs							
Transmission Reportable Incidents	1	0	n/a	0	n/a		
Leaks per KM of Distribution System Mains	0.0065	0.0055	n/a	0.0041	n/a		



Meter Reading Accuracy: Impacted by the Pandemic and Extreme Weather Events Successful Mitigating Service Quality and **Increased Estimates** Measures **Customer Impacts** Impacts of Pandemic and Extreme Reduction in timely and accurate Proactive outreach Weather Conditions energy use information Staffing Challenges faced by Working with customers for safe site access meter reading contractor (Olameter) Improved accuracy of estimates Approximately 42 thousand Potential payment challenges with customer self reads more estimates each month associated with true-ups from (as compared to threshold) estimates Pause on late payment charges and collections related activities in **Experience Measures Remain Stable** 2020 - 2021 **Customer Service Index First Contact Resolution** • After Call Survey Results Ongoing payment flexibility FORTIS BC^m - 63 -

References: Exhibit B-1, Application, Section 13.2.2.3; Exhibit B-4, RCIA IR1 9.1,9.3, 9.4

Questions?



Question Period

