

Diane Roy Vice President, Regulatory Affairs

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August 16, 2022

Coalition to Reduce Electropollution 126-102 Forestbrook Place Penticton, BC V2A 7N4

Attention: Mr. Hans Karow

Dear Mr. Karow:

Re: FortisBC Energy Inc. (FEI)

Project No. 1599211

Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)

Response to Coalition to Reduce Electropollution (CORE) Information Request (IR) No. 4 on Evidentiary Update

On May 5, 2021, FEI filed the Application referenced above. In accordance with the regulatory timetable as amended in British Columbia Utilities Commission Order G-206-22 for the review of the Application, FEI respectfully submits the attached response to CORE IR No. 4 on Evidentiary Update.

For convenience and efficiency, FEI has occasionally provided an internet address for referenced reports instead of attaching lengthy documents to its IR responses. FEI intends for the referenced documents to form part of its IR responses and the evidentiary record in this proceeding.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments

cc (email only): Commission Secretary Registered Parties



FortisBC Energy Inc. (FEI or the Company) Submission Date: Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)

Response to Coalition to Reduce Electropollution (CORE) Information Request (IR) No. 4 on Evidentiary Update

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Page 1

1 CORE-FEI-2022JULY26-001

Reference: FEI Evidentiary Update, Exhibit B-30 PDF Page 3-4

- 3 Issue: On PDF page 3-4, FEI states, in part:
- 4 Baseline
- 5 • Contractor Labour for Sustainment Activities - FEI currently completes its meter 6 exchanges using both FEI's internal labour and contractors (i.e., approximately 40 7 to 45 percent is completed by contractors, depending on the year). At the time of 8 the original Application, the labour rates per meter exchanges were similar 9 between FEI's internal labour and contractors; as such, FEI assumed the same 10 labour rates per meter exchanges at that time. However, since filing the 11 Application, FEI has experienced cost increases for work performed by 12 contractors. Based on current average contractor rates for meter exchanges, the 13 increase over the FEI internal labour rates (i.e., the assumption for the contractor labour rate in the original Application) is approximately 109 percent, which is 14 15 reflected in the Evidentiary Update Confidential Appendix C in Confidential 16 Appendix G-2, Baseline Cost Inputs, Schedule 2, Line 39 and 40.
- 17

Are the total costs something the public can afford to pay, and can Fortis justify? 1.a

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19 Response:

20 As shown in the Evidentiary Update, even with the forecast increased costs to the AMI Project, 21 the total incremental levelized delivery rate impact over the 26-year analysis period due to the 22 AMI Project (when compared to the Baseline scenario) increased by approximately 0.317 percent, 23 from 0.125 percent in the Application to 0.442 percent. The AMI Project will have a minimal rate 24 impact on customer annualized rates over the analysis period, at less than half a percent, while 25 delivering substantial benefits, including greater cost certainty to customers and FEI (as set out 26 in Section 4 of the Application).

27 FEI also notes that the incremental levelized delivery rate impact of the AMI Project over the 26-28 year analysis period could change from an increase of 0.442 percent to a reduction of 29 0.153 percent if higher future labour rates for in-house meter reading are included in the Baseline 30 scenario, as reflected in updated Table 6-12 in the Evidentiary Update.

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- How much would the internal labour costs increase? And, if they are lower, why 34 1.b 35 would the work not be done by them instead of the more expensive contractors?
- 36



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1 Response:

- 2 Please refer to the response to BCUC IR4 49.1.
- 4 5 6 FEI cites to the "Evidentiary Update Confidential Appendix C in Confidential 1.c 7 Appendix G-2". How can cost increases be justified if the public is not privy to why 8 these increases are necessary and/or how they are calculated? 9

10 Response:

11 FEI has requested that the financial analysis spreadsheets contained in Appendix C to the 12 Evidentiary Update be kept confidential on the basis that the disclosure of estimated costs could 13 be detrimental to FEI's negotiating position for certain products and services. Interveners to the 14 AMI Project regulatory process have been provided with the confidential appendices upon signing 15 an undertaking for confidentiality and are able to review these confidential appendices and ask 16 IRs to FEI on the detailed Project costs and financial analysis.



FortisBC Energy Inc. (FEI or the Company) Submission Date: Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of August 16, 2022 the Advanced Metering Infrastructure (AMI) Project (Application) Response to Coalition to Reduce Electropollution (CORE) Information Request (IR) No. 4 on Evidentiary Update

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1 CORE-FEI-2022JULY26-002

2 FEI Evidentiary Update, Exhibit B-30 PDF Page 5-6 Reference:

3 Issue: On PDF page 5-6, FEI states, in part:

4 1.3 Total Labour and Material Cost Impact to the AMI Project

5 The impact of the cost increases in the two categories of labour and materials discussed 6 above results in an increase of approximately \$92 million to the total capital cost for the 7 AMI Project (over the pre-deployment and deployment period from 2021 to 2026), from 8 \$638.4 million in the Application to \$730.8 million. This also results in an increase to the 9 incremental levelized delivery rate impact over the 26-year analysis period due to the AMI Project (when compared to the Baseline scenario) of approximately 0.113 percent, from 10 11 0.125 percent in the Application to 0.238 percent.

- 12 Please cite the source of the "26-year analysis period" referred to in the above 2.a 13 reference.
- 14

15 Response:

16 FEI explained the 26-year analysis period on page 110 of the Application (Section 6.3.1.1). The

17 analysis period is comprised of the 6-year period of pre-deployment and deployment activities

18 followed by the remaining 20 years after the last AMI meter is installed (which is equal to the 19 estimated useful life of the new AMI meters).

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 FortisBC Energy Inc. (FEI or the Company)
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 Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)
 Si

 Response to Coalition to Reduce Electropollution (CORE) Information Request (IR) No. 4 on Evidentiary Update
 Si

1 CORE-FEI-2022JULY26-003

2 Reference: FEI Evidentiary Update, Exhibit B-30 PDF Page 9

3 Issue: On PDF page 9, FEI states, in part:

4 [...] however, the benefits of the full AMI Project solution are still significant and 5 indeed, as reflected above, the current conditions have reinforced their 6 importance. The Project will still have a minimal impact on customer annualized 7 rates over the analysis period, at less than half of a percent.

- 8 3.a Will FEI fix the less than half a percent increase to customers to ensure that it is 9 not increased beyond such amount?
- 10

11 Response:

FEI has developed cost estimates for the AMI Project based on AACE Class 3 specifications, in accordance with the BCUC's CPCN Guidelines. While FEI has provided its most accurate forecasts of AMI Project costs as part of its CPCN Application, the actual costs for the Project may vary from forecast. Consistent with all prudently incurred capital expenditures undertaken by the utility, the costs and benefits associated with the AMI Project should be included in FEI's revenue requirements and therefore incorporated into customer rates.

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- 213.bWhy is there a price increase if the purpose and benefit of the AMI project is to22reduce costs? Shouldn't the rates decrease relative to the savings regarding travel23and manual labor?
- 24

25 **Response:**

FEI has described in detail the need for and benefits of the AMI Project in Sections 3 and 4 of the
 Application and previously responded to CORE regarding the need for the AMI Project in its IR

responses, and in particular in response to CORE IR2 5.b.

FEI assumes the "price increase" stated in the IR is referring to the impact on customer annualized delivery rates over the analysis period, at less than half of a percent (i.e., 0.442 percent) as referenced in the preamble above.

FEI notes the annualized delivery rate increases are over the 26-year analysis period, which includes the periods of pre-deployment, deployment, and post-deployment. As shown in Table 6-1 of Appendix B, Section 6.2 of the Evidentiary Update, the AMI Project will result in capital costs being incurred during the pre-deployment and deployment period from 2021 to 2026 due to the installation of the AMI meters as well as the AMI network infrastructure, while the benefits and



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cost savings of the AMI Project (such as reducing manual meter reading and meter exchanges)
 will be realized in the post-deployment period from 2027 to 2046.

3 Overall, the forecast annualized delivery rate impact is 0.442 percent per year over the 26-year

4 analysis period and includes both the initial costs of AMI and the savings from AMI in the later

5 years. FEI considers the Project's annualized delivery rate impact of less than half of a percent

6 over a 26-year period to be minimal for FEI's customers given the many benefits.



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1 CORE-FEI-2022JULY26-004

2 Reference: FEI Evidentiary Update, Exhibit B-30 PDF Page 25

3 Issue: On PDF page 25, lines 19-24, FEI states, in part:

- 19 6.2.1.1 Meter Capital
- 20
 The meter capital cost is the largest portion of Project capital costs. The AMI Solution meter

 21
 capital cost is estimated at \$645.7 million⁷⁰ which is \$464.2 million⁷¹ higher than what is estimated

 22
 to be spent in the Baseline estimate of \$181.5 million⁷². This incremental cost is offset by an

 23
 estimated \$434.0 million⁷³ in meter capital savings in the Post-deployment period driven by the

 24
 decreased volume of meter exchanges.
- 4
- 5
- 4.a Please explain the extreme increase in meter costs since the first estimate.
- 6

7 Response:

8 Meter capital for the AMI alternative includes estimated costs of replacing each existing

9 diaphragm meter with an advanced meter. Therefore, the capital cost includes the visit to replace

10 each meter, the cost of the advanced meter, and a bypass valve and regulator when required.

11 The increase in the meter capital cost is attributable to increased costs of deployment labour,

regulators, and bypass valves as stated in the Evidentiary Update and further described in the responses to CEC IR4 13.1, 14.2, 15.1, and 19.1.

As noted in Section 1.2 of the Evidentiary Update, the cost of the advanced meters has not increased due to FEI's fixed price contract with Sensus.

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1 CORE-FEI-2022JULY26-005

2	Referen	ce: FEI Evidentiary Update, Exhibit B-30 PDF Page 2
3		Request for Confidential Treatment of Financial Schedules
4	Issue: C	On PDF page 2, FEI states in part:
5	Т	The Excel spreadsheet models included in Appendix C to this Evidentiary Update
6	p	provides updated cost estimates to those originally filed with the Application,
7	ir	ncluding updated capital cost estimates for the Project. They should continue to
8	b	be kept confidential on the basis that FEI is in the market negotiating with parties
9	fe	or the deployment of the Project. If the estimated costs for the work are disclosed,
10	F	El reasonably expects that its negotiating position may be prejudiced.
11	5.a V	What evidence does FEI rely upon in its assertion that it "reasonably expects that
12	it	ts negotiating position may be prejudiced"? Please explain.
13		
14	Response:	

Consistent with prior determinations in other CPCN proceedings, FEI reasonably expects that its 15 customers could be harmed if its cost estimates are not held confidential. 16

17 FEI is currently negotiating with parties for the deployment of AMI meters related to the Project 18 based on the pricing proposed by the parties. The only way that FEI can be assured that it is 19 engaging in open and good faith negotiations with these parties is if its cost estimates are kept 20 confidential. If they are not kept confidential and are accessed by the parties with whom FEI is 21 negotiating, it is reasonable to conclude that the price offerings may be impacted by prior knowledge of FEI's cost estimates and allowances, and subsequent bids may no longer be based 22 23 on the parties' most competitive proposals.

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1 CORE-FEI-2022JULY26-006

2 FEI Evidentiary Update, Exhibit B-30 PDF Page 3 Reference: 3 Updates to the Costs in the Application 4 Issue: On PDF page 3, FEI states in part: 5 AMI Project 6 • **Deployment Labour** – As a result of the challenging labour market, FEI is 7 forecasting higher deployment labour costs in the AMI financial analysis directly 8 related to the following: 9 O Hourly rates for temporary field employees - to recruit and retain gualified employees, FEI is forecasting higher hourly rates for employees 10 11 hired to perform meter exchanges for the deployment period. The change is 12 reflected in the Evidentiary Update Confidential Appendix C in Confidential 13 Appendix G-1, AMI Cost Inputs, Schedule 2.1, Line 7 and 8, which amounts to an estimated increase of approximately 37 percent from the hourly rates 14 originally reflected in the Application. 15 16 6.a Can FEI commit to ensuring that the 37 percent increase from the hourly rates 17 originally reflected in the Application will not increase further? If not, is there a point 18 at which the hourly rates for employees hired to perform meter exchanges for the 19 deployment period will become cost prohibitive for FEI to proceed with the 20 proposed project? 21 22 Response: 23 Please refer to the response to CORE IR4 3.a.

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1 CORE-FEI-2022JULY26-007

2	Reference:	FEI Evidentiary Update, Exhibit B-30 PDF Page 3
3		Updates to the Costs in the Application
4	Issue: On P	DF page 3, FEI states in part:
5	AMI Project	
6 7 8 9	Deplo forec relate []	byment Labour – As a result of the challenging labour market, FEI is asting higher deployment labour costs in the AMI financial analysis directly ed to the following:
10 11 12 13 14 15 16 17 18 19 20 21	C	Higher turnover rate – FEI is also expecting a higher turnover rate for temporary field employees than originally forecast. This results in increased hiring and training costs. The ratio of supervisors and gas ticketed installers to internally trained installers has also been increased in the financial model as a result, allowing for additional field support during deployment. As part of this Evidentiary Update, FEI estimated an additional 12 percent of temporary field employees would need to be hired due to turnover, and as a result, increased the ratio of supervisors to temporary field employees by 1 and increased the number of full time managers by 1. These changes are reflected in the Evidentiary Update Confidential Appendix C in Confidential Appendix G-1, AMI Cost Inputs, Schedule 2.1, Line 4, 14, and 18, respectively
22 23 24 25 26	7.a Can empl temp propo	FEI commit to ensuring that the 12 percent increase to temporary field oyees will not increase further? If not, is there a point at which the costs for orary field employees will become cost prohibitive for FEI to proceed with the osed project?
27	Response:	
28	Please refer to the r	esponse to CORE IR4 3.a.

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1 CORE-FEI-2022JULY26-008

2 FEI Evidentiary Update, Exhibit B-30 PDF Page 3 Reference: 3 Updates to the Costs in the Application 4 Issue: On PDF page 3, FEI states in part: 5 AMI Project 6 [...] 7 0 **Decreased meter deployment productivity rate** – the productivity rate is 8 the number of advanced meters expected to be installed per employee 9 each day. The productivity rate has been slightly decreased in the financial 10 analysis to reflect the higher employee turnover rate (resulting in more time 11 recruiting, onboarding and training new employees) and also as a result of 12 changing customer attitudes to field employees entering their homes. FEI's 13 recent experience and feedback it has received suggest that customers are 14 increasingly hesitant to have people in their homes and that it takes longer 15 than traditionally was the case to gain access and conduct the necessary 16 in-home activity (including for employees to don personal protective 17 equipment for the comfort of both residents and employees). This change 18 is reflected in the Evidentiary Update Confidential Appendix C in 19 Confidential Appendix G-1, AMI Cost Inputs, Schedule 2.1, Line 3, which 20 amounts to a 5 percent reduction in productivity over the amount originally 21 reflected in the Application. 22 8.a Please identify the number and location of customers who provided feedback to 23 FEI suggesting that they are "increasingly hesitant to have people in their homes 24 and that it takes longer than traditionally was the case to gain access and conduct 25 the necessary in-home activity (including for employees to don personal protective 26 equipment for the comfort of both residents and employees)."

28 **Response:**

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29 FEI does not maintain precise data reflecting the number or location of customers who have 30 provided specific feedback regarding being hesitant to have people in their homes. It is feedback 31 that customers have provided during telephone calls to attempt to set meter exchange 32 appointments, and these customer sentiments are reflected in the number of customers who have 33 elected to relight their own appliances or attempted to avoid having their meter exchanged at all. 34 This customer hesitancy is also reflected in a decreased meter exchange productivity rate which 35 has impacted FEI's Operations group. The time required to exchange a meter increased over 8 36 percent from 2019 to 2020 throughout the province, and has remained consistently high since 37 that time.

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1 2		
3 4 5 6	8.b <u>Response:</u>	Please describe what "in-home" activity FEI is referring to in the above statement.
7 8 9	The in-home appliances.	e activity referred to consists of the visual inspection and relighting of customer
10 11 12 13 14 15	8.c <u>Response:</u>	Please identify in numerical terms what FEI means by its assertion that the productivity rate has "slightly decreased".
16 17 18 19 20 21	As discussed change in pr Appendix G- Confidential meters insta employee pe	d on page 3 of the Evidentiary Update and as referenced in the preamble above, the oductivity rate is reflected in the same schedule of AMI Cost Inputs (i.e., Confidential -1, AMI Cost Inputs, Schedule 2.1, Line 3) as provided in the Application and in Appendix C of the Evidentiary Update. The reduction was 5 percent, from 6.5 AMI alled per employee per day in the Application to 6.18 AMI meters ¹ installed per er day in the Evidentiary Update.
22 23		
24 25 26 27 28 29	8.d	Can FEI commit to ensuring that the productivity rate will not decrease further? If not, is there a point at which the productivity rate with respect to the installation of the advanced meters to be installed per employee each day will reach a level at which it will become cost prohibitive for FEI to proceed with the proposed project?
30 31	Response: The actual p	roductivity of meter deployment activities will be subject to several factors at the time
32 33	of deployme either higher	nt and as such, FEI is unable to confirm that the actual productivity rate will not vary, or lower, from the estimate provided in the Evidentiary Update.

¹ Rounded to 6.2 AMI meters per employee per day in Confidential Appendix C of the Evidentiary Update, Confidential Appendix G-1, AMI Cost Inputs, Schedule 2.1, Line 3.



- 1 However, FEI confirms that meter deployment productivity will be monitored throughout the
- 2 Project with actions taken accordingly to address any challenges that may occur. This will support
- 3 the achievement of productivity within a reasonable range of the estimate.

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1 CORE-FEI-2022JULY26-009

- 2 FEI Evidentiary Update, Exhibit B-30 PDF Page 3-4 Reference: 3 Updates to the Costs in the Application Issue: On PDF pages 3-4, FEI states in part: 4 5 AMI Project 6 [...] 7 Baseline 8 Contractor Labour for Sustainment Activities - FEI currently completes its 9 meter exchanges using both FEI's internal labour and contractors (i.e., 10 approximately 40 to 45 percent is completed by contractors, depending on the 11 year). At the time of the original Application, the labour rates per meter exchanges 12 were similar between FEI's internal labour and contractors; as such, FEI assumed 13 the same labour rates per meter exchanges at that time. However, since filing the 14 Application, FEI has experienced cost increases for work performed by contractors. Based on current average contractor rates for meter exchanges, the 15 16 increase over the FEI internal labour rates (i.e., the assumption for the contractor 17 labour rate in the original Application) is approximately 109 percent, which is 18 reflected in the Evidentiary Update Confidential Appendix C in Confidential 19 Appendix G-2, Baseline Cost Inputs, Schedule 2, Line 39 and 40. 20 9.a Please identify what information FEI relies upon to support its assertion that there 21 has been an increase of 109 percent with respect to cost increases for work 22 performed by contractors. 23 24 **Response:** 25 Please refer to the response to RCIA IR4 59.4. 26 27 28 29 9.b Please explain what factor(s) have driven the increase in the costs for work 30 performed by contractors since the time of FEI's original Application. 31 32 Response: 33 Please refer to the response to RCIA IR4 59.4.
- 34
- 35



9.c	Can FEI commit to ensuring that the increase in costs for work performed b
	contractors will not increase further? If not, is there a point at which the productivit
	rate with respect to the work performed by contractors will reach a level at which
	will become cost prohibitive for FEI to proceed with the proposed AMI project?

7 <u>Response:</u>

8 FEI notes that the cited preamble is in regard to contractor labour for FEI's sustainment capital

9 activities; these increases are not related to the AMI Project or the cost of FEI's preferred

- 10 alternative. As such, the increased costs for contractor labour would impact the financial analysis
- 11 for the Baseline scenario and the AMR alternative.²

² Under the AMI Project, FEI only continues to install diaphragm meters during the pre-deployment period in 2021 and 2022, and will be using local contractors from 2021 to 2023 prior to the beginning of the deployment period.

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1 CORE-FEI-2022JULY26-010

- 2 FEI Evidentiary Update, Exhibit B-30 PDF Pages 4-5 Reference: 3 **Materials Market Conditions** Issue: On PDF page 4-5, FEI states in part: 4 5 AMI Project 6 Bypass Valves and Regulators – As a result of the challenges noted above for • 7 manufacturing industries, FEI is experiencing increased costs for bypass valves 8 and regulators, which need to be installed under all scenarios. The increased costs 9 are reflected in the Evidentiary Update Confidential Appendix C in Confidential Appendix G-1, AMI Cost Inputs, Schedule 1, which amount to an increase of 10 approximately 24 percent for the regulators and approximately 10 percent for the 11 12 bypass valves during the AMI deployment years over the respective amounts originally reflected in the Application 13 14 Please identify what information FEI relies upon to support its assertion that there 10.a 15 has been an increase of approximately 24 percent with respect to cost increases 16 for the regulators and 10 percent for the bypass valves. 17 18 Response: 19 Please refer to the response to CEC IR4 19.1. 20 21 22 23 Can FEI commit to ensuring that the increase in costs for the regulators and bypass 10.b 24 valves will not increase further? If not, is there a point at which the costs of the 25 regulators and bypass valves will reach a level at which it will become cost 26 prohibitive for FEI to proceed with the proposed AMI project? 27 28 Response: 29 The installation of bypass valves and regulators is not a specific cost related to the AMI Project, 30 as bypass valves and regulators are installed under the AMR alternative and the Baseline
- 31 scenario as well. Please also refer to the response to RCIA IR4 64.1.
- 32

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FortisBC Energy Inc. (FEI or the Company)

1 CORE-FEI-2022JULY26-011

2 Reference: FEI Evidentiary Update, Exhibit B-30 PDF Page 4 3 **Materials Market Conditions** 4 Issue: On PDF page 4, FEI states in part: 5 FEI notes that this cost escalation does not impact the advanced meters to be 6 installed as part of the AMI Project and thus no changes are required to the AMI 7 Project financial analysis meter costs as part of the Evidentiary Update. This is 8 because FEI's fixed price contract with Sensus (which covers the supply of 9 advanced meters, network and managed services) was negotiated prior to 10 submission of the Application and includes fixed pricing for the above-noted items. 11 That fixed pricing continues to provide certainty in costs and supply of advanced 12 meters, network and managed services throughout the life of the AMI Project. FEI 13 maintains fixed pricing under its contract with Sensus as long as the contractual 14 deadline for removal of the condition precedent related to BCUC approval is 15 satisfied by June 30, 2023.

16 11.a If the condition precedent is not satisfied by June 30, 2023, can FEI provide an
17 estimate as to the potential increase in costs for the advanced meters? If so, what
18 is that estimate?

1920 **Response**:

As stated on page 8 of the Evidentiary Update, FEI expects that a significant increase in cost would result from renegotiating its contract with Sensus, but it is unable to speculate on the magnitude of this increase. Notwithstanding this, FEI would expect that current market pressures impacting other manufacturers and vendors (and which are precipitating large price increases) are having similar impacts on Sensus' meter business.

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2911.bApart from BCUC approval by June 30, 2023, are there any other conditions30precedent that must be satisfied by FEI with respect to securing the fixed pricing31for the advanced meters? If so, what are those conditions precedent?

33 **Response:**

FEI confirms there are no other conditions precedent to be satisfied by FEI. Please also refer to the response to CEC IR4 18.1.

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1 **CORE-FEI-2022JULY26-012**

2Reference:FEI Evidentiary Update, Exhibit B-30 PDF Page 53Materials Market Conditions

4 Issue: On PDF page 5, FEI states in part:

<u>Baseline</u>

5

- 6 Meters - FEI has experienced increased costs for diaphragm meters, and • 7 therefore meter costs have increased in the Baseline financial analysis in the 8 Evidentiary Update. Further, in FEI's recent experience, diaphragm meter delivery 9 timelines required for operating the utility cannot be met, which ultimately impacts the viability of the Baseline scenario.3 Even apart from experiencing their own 10 labour and materials issues, or perhaps because of them, vendors have been 11 switching their business models even more quickly than expected from the 12 manufacture of such meters to the manufacture of ultrasonic meters. For the 13 14 purposes of this analysis FEI has assumed the continued viability of the Baseline 15 scenario, and as such the increased diaphragm meter costs are reflected in the 16 Evidentiary Update Confidential Appendix C in Confidential Appendix G-2, 17 Baseline Cost Inputs Schedule 1, Line 16 for the residential type diaphragm meters 18 and Line 17 for the commercial type diaphragm meters with the increases of 19 approximately 26 percent and 6 percent, respectively over the amount originally 20 reflected in the Application, which was based on costs from 2020.
- 12.a Please identify which vendors are referred to in the above statement, specifically
 that portion which reads that: "Even apart from experiencing their own labour and
 materials issues, or perhaps because of them, vendors have been switching their
 business models even more quickly than expected from the manufacture of such
 meters to the manufacture of ultrasonic meters."

27 **Response:**

This cited statement is referencing meter vendors in general; however, it is informed by FEI's specific knowledge of the three major suppliers to the North American market that FEI does business with: Itron, Sensus, and Honeywell/Elster.

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34 12.b Please specify what "labour and materials issues" are referred to in the above statement.
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1 Response:

In this context, the phrase "labour and materials issues" refers to the current inflationary
environment within North America combined with labour shortages in the regions where meters
are manufactured as well as the difficulties associated with acquiring raw materials globally during
the last 18 months.

- 6
- 7 8
- 9 12.c Can FEI commit to ensuring that the 26% increase in costs for the residential 10 diaphragm meters will not increase further? If not, is there a point at which the 11 costs for the diaphragm meters will reach a level at which it will become cost 12 prohibitive for FEI to proceed with the proposed AMI project?
- 13

14 **Response:**

FEI notes that the preamble and IR refers to diaphragm meters and is not related to AMI Project costs. The increasing cost of diaphragm meters impacts the AMR alternative and the Baseline scenario only. The AMI Project provides pricing certainty for the advanced meters installed as part of the Project and allows FEI to avoid the increasing costs of diaphragm meters altogether.

19 FEI has no evidence that within the foreseeable future the unit price for diaphragm meters will

20 stabilize or that the current shortage within the North American marketplace will be resolved as

21 manufacturers shift to ultrasonic meters.

 FortisBC Energy Inc. (FEI or the Company)

 Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)

 Response to Coalition to Reduce Electropollution (CORE) Information Request (IR) No. 4 on Evidentiary Update

1 **CORE-FEI-2022JULY26-013**

2	Refere	nce: FEI Evidentiary Update, Exhibit B-30 PDF Page 5
3		Materials Market Conditions
4	Issue:	On PDF page 5, FEI states in part:
5 6 7 8 9	•	Bypass Valves and Regulators – The Baseline is also impacted by the increasing costs for bypass valves and regulators, as described under the AMI scenario above. This cost increase is reflected in the Evidentiary Update Confidential Appendix C in Confidential Appendix G-2, Baseline Cost Inputs Schedule 1, Line 18 and 19, respectively.
10 11 12	13.a	Please identify what the increase is to the Baseline due to the increased costs for the bypass valves and regulators.
13	Response:	
14 15 16 17	As discussed increases in b Cost Inputs (i. as provided in	on page 5 of the Evidentiary Update and as referenced in the preamble above, the oppass values and regulators are reflected in the same schedule of the Baseline e., Confidential Appendix G-2, Baseline Cost Inputs, Schedule 1, Lines 18 and 19) in the Application and Confidential Appendix C of the Evidentiary Update. The

18 increase included in the financial analysis is approximately 18 percent for the bypass values and

19 4 percent for the regulators in 2023.

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1 CORE-FEI-2022JULY26-014

2	Refere	ence: FEI Evidentiary Update, Exhibit B-30 PDF Page 6
3		Meter Exchange Dispensation
4	Issue:	On PDF page 6, FEI states in part:
5 6 7 8		MC has now set out the policy for meter dispensation specifically with respect to gas meters, adjusting the earlier practice adopted for electric utilities. In November of 2021, MC provided notice that "the temporary permission is effective for the specified implementation period." Since that notice, the MC policy for dispensation
9 10		meter dispensation for years in which mass meter deployment is to take place.
11 12 13	14.a <u>Response:</u>	Please provide a copy of the MC policy referred to above.
14	Please refer to	o the response to BCSEA IR4 37.6.
15 16		
17 18 19 20 21 22 23 24	14.b <u>Response:</u>	Please identify the specific section where the above noted reference that "the temporary permission is effective for the specified implementation period" is found in the MC policy and also where it is confirmed in the MC policy that a "gas utility is only able to apply for meter dispensation for years in which mass meter deployment is to take place".
25 26	The Measurer the response	ment Canada (MC) dispensation policy is included as Attachment 37.6 provided in to BCSEA IR4 37.6. The relevant sections of the policy are Section 5.0 and Section

27 B2.0. FEI has also confirmed its understanding of the policy with MC.

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1 CORE-FEI-2022JULY26-015

2	Refere	ence: FEI Evidentiary Update, Exhibit B-30 PDF Page 6
3		Meter Exchange Dispensation
4	Issue:	On PDF page 6, FEI states in part:
5 6 7 8 9 10 11		As, pursuant to this new policy, FEI must continue exchanging meters under its MC compliance sampling program until the year of mass deployment, the benefit contemplated in the Application of avoiding meter exchange costs in 2022 or 2023 will not be experienced. The loss of this benefit is now factored into the Evidentiary Update financial analysis. FEI notes that this lost benefit adds 0.204 percent to the levelized delivery rate impact of the AMI Project reflected in this Evidentiary Update, which is approximately 64 percent of the total increase as shown in Section 3 below
13 14 15 16	15.a <u>Response:</u>	What is the amount of the "loss" of the "benefit" of avoiding meter exchange costs in 2022 or 2023 described in the above? Please explain.
17 18 19	Please refer deployment ti \$21.7 million i	to the response to BCUC IR4 49.2, which shows the impact due to the mass ming requirement in the new gas MC dispensation policy (i.e., the lost benefit) is n capital costs.
20 21		
22 23 24 25 26 27	15.b <u>Response:</u>	Given that smart meters are computers, and given that computers have short lifespans under normal conditions, please explain an amortization period of 26 years upon which this rate impact is based.
28 29 30	The expected (based on the 6.3.1 of the field of the fiel	useful life of the advanced meters to be installed during the AMI Project is 20 years product warranty period offered by Sensus), not 26 years, as explained in Section Application. A 26-year depreciation period that includes both the pre- and post-

30 31 deployment lifespan of the Project better aligns the period of the Project benefits with the rate

- 32 recovery interval and is consistent with the approach taken in previous FEI CPCN applications
- 33 approved by the BCUC.
- 34 Please also refer to the response to CEC IR1 51.1.
- 35

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1 CORE-FEI-2022JULY26-016

2	Refere	ence: FEI Evidentiary Update, Exhibit B-30 PDF Page 6
3		Meter Exchange Dispensation
4	Issue:	On PDF page 6, FEI states in part:
5 6 7 9 10 11 12 13 14		Due to the rising costs and availability issues with diaphragm meters and as contemplated in the Application, FEI still plans to install advanced meters (with the radio turned off) instead of diaphragm meters beginning in 2023 as part of its compliance sampling program, and then return to the premises where this occurred during Project deployment in order to connect each meter to the network. The associated hours and costs to commission these advanced meters installed in 2023 (activate radio) is reflected in the Evidentiary Update Confidential Appendix C in Confidential Appendix G-1, AMI Cost Inputs, Schedule 2, Line 43. In the event the BCUC does not approve the Application, FEI will leave the radio turned off within each meter and the meter will continue to be read manually.
15 16 17 18	16.a <u>Response:</u>	What is the basis for why the associate hours and costs to commission the advanced meters has been filed on a confidential basis? Please explain.
19 20	Please refer to	o the response to CORE IR4 1.c.
20 21 22		
23 24 25 26	16.b	What is the cost increase for these new smart meters vs the standard diaphragm meter? How does this compare with replacing a standard meter with a smart meter if the application is later approved?
27	Response:	
28 29 30 31	The incremen as part of 202 as demonstra installation of	tal materials cost for replacing a standard diaphragm meter with an advanced meter ?3 sustainment activities (regardless of BCUC approval of the AMI Project) is \$37, ited in Appendix C of the Application. The difference in the cost to complete the an advanced meter (which will be left with the radio turned off during 2023

- sustainment) is the additional cost of returning to the site to commission the meter during massdeployment; this cost is expected to be minimal as crews will already be in the neighbourhood
- 34 completing meter exchanges on nearby premises.
- 35
- 36



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16.c Would it be possible to remotely activate the smart meter at some point without having received appropriate approval?

Response:

6 Please refer to the response to BCUC IR4 50.3.



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1 CORE-FEI-2022JULY26-017

2 **Reference:** FEI Evidentiary Update, Exhibit B-30 PDF Page 7 3

Meter Exchange Dispensation

4 Issue: On PDF page 7, FEI states in part:

Table 3: Comparison of AMI Project Financials (NPVs) 5

Financial Summary	AMI (As- Filed)	AMI (Evidentiary Update)	Changes
Capital Costs (NPV):			
Meter Capital	481.2	560.1	78.8
Project Management	35.2	35.2	-
Software Capital	9.1	9.1	-
Network Capital	17.1	17.1	-
Non-Meter Capital	3.6	3.6	-
AFUDC	12.7	16.0	3.3
Total Capital (NPV)	558.9	641.1	82.2
O&M Costs (NPV):			
Meter Reading Costs ¹	78.3	79.1	0.8
Operations, Contact Centre and Meter Shop O&M ²	12.9	14.6	1.7
New O&M	97.9	97.9	-
Total O&M, incl. Capitalized Overhead (NPV)	189.0	191.6	2.6
Incremental Capital (NPV, \$millions)	186.05	206.9	20.9
Incremental O&M (NPV, \$millions)	(134.48)	(135.5)	(1.0)
Incremental To Baseline Revenue Requirement (NPV, \$millions)	15.0	53.3	38.3
Incremental to Delivery Rate Impact (%)	0.125%	0.442%	0.317%

6

7

- Please provide a breakdown of the increase of \$78.8 million in meter capital costs 17.a since the filing of FEI's original application.
- 8 9

10 Response:

11 Please refer to Table 1 below for the breakdown of the \$78.8 million increase in the NPV of the

12 meter capital costs between the Application and the Evidentiary Update.



2

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Table 1: Breakdown of the NPV increase in Meter Capital of the AMI Project (\$millions)

			NPV AMI	NPV AMI	
Line	Meter Capital \$millions	Schedule	(As-Filed)	(Evid Update)	Changes
1	Non AMI Meter Capital	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Schedule 1, Line 32	9.4	19.4	10.0
2	Non AMI Meter Installation	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Schedule 2.3, Line 1	6.1	13.1	7.1
3	AMI Meter Capital	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Line 33	225.5	230.4	4.9
4	AMI Meter Installation	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Schedule 2.3, Line 5	123.7	167.2	43.5
5	Bypass Material Capital	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Schedule 1, Line 34	79.1	85.7	6.7
6	Bypass Material Installation	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Schedule 2.3, Line 8	31.5	38.1	6.6
7	Contact Center Capitalized Costs	Appendix G-1-AMI Cost Inputs CONFIDENTIAL, Schedule 3	6.0	6.2	0.2
8	Total Meter Capital \$millions	Sum of Lines 1 through 7	481.2	560.1	78.8

3 <u>Notes to Table 1</u>:

- The non-AMI meter is related to the diaphragm meters and regulators to be installed during the pre-deployment period from 2021 to 2022. The increase in capital is related to the increase in diaphragm meter hardware costs and regulator costs. The increase in the installation costs is mostly related to the increase in local contractor rates during the pre-deployment period for the installation of the diaphragm meters and regulators.
- 9 The AMI meter capital and AMI meter installation are related to the installation of the AMI meter • 10 hardware (including the regulators) during the deployment period as well as AMI meter exchanges 11 during the post-deployment period (i.e., 0.5 percent of AMI meter failures). This also includes the 12 AMI meters that will be installed in 2023 but will not be connected to the network (i.e., will not have 13 the radio connection activated) until the deployment period from 2024 to 2026. FEI notes the 14 increase related to AMI meter capital is primarily due to the increase in regulator costs as discussed 15 on pages 4 to 5 of the Evidentiary Update. There is no change in the cost of the AMI meter 16 hardware as FEI currently has a fixed price contract with Sensus which covers the supply of AMI 17 meters. For AMI meter installation, the increase is primarily due to the increased AMI deployment 18 labour costs discussed on page 3 of the Evidentiary Update.
- The bypass material is related to the capital and installation costs of the bypass valve hardware in all periods (i.e., pre-deployment, deployment, and post-deployment years).
- The contact center capitalized costs are related to the capitalized costs for booking each meter exchange as discussed in Section 6.2.1.1 of the Application.
- 23
- 24
- 25

26

- 17.b If the contract includes a provision for fixed contract pricing, why would there be an increase in capital costs?
- 27 28

29 Response:

As explained on page 4, Section 1.2 of the Evidentiary Update, there are no changes to the costs related to the advanced meters (i.e., AMI hardware), network, or managed services as FEI currently has a fixed price contract with Sensus. The increase in capital costs, as discussed in the Evidentiary Update, is related to costs that do not have a fixed price contract, including the AMI deployment labour costs, the increased costs of bypass valves and regulators, as well as the

(/,	FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)	Submission Date: August 16, 2022
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1 2	increased costs of diaphragm meters and local contractor rates that will impact the AMI Project only during the pre-deployment period. ³	
3 4		
5		
6	17.c	Do the costs include software updates that occur regularly and frequently with
7		computers?
8		
9	<u>Response:</u>	
10	FEI confirms t	hat the financial analysis incudes costs for software updates, when required.
11		

³ Under the AMI Project, FEI continues to install diaphragm meters during the pre-deployment period in 2021 and 2022, and will be using local contractors from 2021 to 2023 prior to the beginning of the deployment period.

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1 CORE-FEI-2022JULY26-018

2	Reference:	FEI Evidentiary Update, Exhibit B-30 PDF Page 8
3		Timing of a CPCN Decision
4	Issue: On F	PDF page 8, FEI states in part:
5 6	FEI's	s ability to acquire other products and services that would be required as part be AMI Project in a timely manner and without further escalation in cost. The
7	later	BCUC approval is received, the more FEI is exposed to the potential of
8	inflat	tionary pressures on labour rates, facilities and materials that are not tied to
9	fixed	I price contracts, and the more FEI and its customers are exposed to potential
10	supp	bly chain issues related to accessing the above.
11	18.a Wha	at "other products and services" referred to in this statement would be required
12	as p	art of the AMI project?
13		
14	Response:	
4 -	The terms "other was	

- 15 The term "other products and services" in this context includes costs to lease warehouses/offices
- 16 and vehicles, computer hardware and software purchases, insurance premiums, and travel
- 17 expenses. In essence, it relates to all goods, services and labour needed during deployment of the AMI Project that currently are not subject to a contracted rate. 18

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1 CORE-FEI-2022JULY26-019

2	Referen	ce: FEI Evidentiary Update, Exhibit B-30 PDF Page 8
3		Timing of a CPCN Decision
4	Issue: (On PDF page 8, FEI states in part:
5 6 7 8 9 10	F a C a (FEI's ability to maintain the fixed contract pricing it negotiated with Sensus, allowing FEI to acquire the meters at a significant discount from their present list price. Since the filing of the Application the parties agreed to one extension of the contractual deadline for removal of the condition precedent related to BCUC approval (the CP deadline), but FEI does not expect to be able to re- negotiate the CP deadline (presently June 30, 2023) without a significant increase in cost.
11 12 13	19.a V t	What is the amount that comprises the "significant increase in cost" that FEI refers o in the statement above? Please specify.
14	Response:	
15	Please refer to	the response to CORE IR4 11.a.

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1 CORE-FEI-2022JULY26-020

2	Refere	ence: FEI Evidentiary Update, Exhibit B-30 PDF Page 22	
3		Section 6 – Project Costs	
4	Issue:	On PDF page 22 (lines 20-27), FEI states in part:	
5 6	1.	Pre-deployment - the time period from 2021 to 2023. During this phase, costs are being incurred for Project development and for the regulatory proceeding;	
7 8	2.	Deployment – the time period from $\frac{2024}{2024}$ to 2026. These are the years in which the majority of the AMI meters will be deployed; and	
9 10 11 12 13	3.	Post-deployment – the time period from 2027 to 2046. This is the time period over which the new AMI meters are expected to be in service, based on the estimated useful life of the new AMI meters of 20 years. The majority of the financial benefits of the Project, consisting primarily of reduced meter reading costs, will be realized over this phase	
14	The Deployment period above has been updated from 2023 to 2026 to 2024 to 2026.		
15 16 17 18 19	20.a <u>Response:</u>	Given the time period for deployment of the AMI meters has been decreased by 1 year, if the BCUC approves the project, can FEI provide assurances that it will complete deployment within this condensed time frame of 2024 to 2026?	
20	Please refer to the response to CEC IR4 23.1.		
21 22			
23 24 25 26	20.b	What is the guarantee period during which replacement of defective smart meters will be covered?	
27	Response:		
28	Please refer to the responses to BCUC IR1 26.2.1, RCIA IR1 14.1 and BCUC IR2 44.1.		
29			

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1 CORE-FEI-2022JULY26-021

2	Reference: FEI Evidentiary Update, Exhibit B-30 PDF Page 27
3	Section 6 – Project Costs
4	Issue: On PDF page 27 (lines 5-12), FEI states in part:
5	Meter Installation
6 7	Meter installation consists of the costs to install meters, regulators, and large meter modules. As discussed in Section 5.3.3.2. FEL is in the REP process for an AMI
8	Deployment Vendor. Since a vendor-supplied cost estimate is not available. FEI
9	has estimated meter installation costing assuming internal FEI labour and current
10	local contractor pricing as well as related costs. Schedules 2.1, 2.2, and 2.3 in
11	confidential Appendix G-1 contain the detailed assumptions for meter installation.
12	Schedule 2.2 contains the detail supporting the incremental cost of installing the
13	AMI meters.
14	21.a What is the status of the RFP process at this time regarding FEI's search for an

16

15

17 **Response:**

18 The RFP process to consider an AMI Deployment Vendor(s) is ongoing. As noted in the Evidentiary Update and discussed in the response to CORE IR4 5.a, FEI is in the process of 19 20 negotiating with certain parties.

AMI Deployment Vendor?

- 21
- 22
- 23
- 24 21.b When a AMI Deployment Vendor is secured by FEI, will FEI commit to filing a copy 25 of the vendor-supplied estimate once available?
- 26

27 Response:

28 Following receipt of a CPCN for the AMI Project, FEI will include a control budget as part of its 29 CPCN reporting requirements to the BCUC. This control budget will include an updated cost 30 estimate for deployment. Subsequently, periodic CPCN progress reports will provide a 31 comparison of actual Project spending and progress to the control budget until Project completion.