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September 12, 2022

Residential Consumer Intervener Association  
c/o Midgard Consulting Inc.  
Suite 828 – 1130 W Pender Street  
Vancouver, B.C.  
V6E 4A4

Attention: Mr. Peter Helland, Director

Dear Mr. Helland:

**Re: FortisBC Energy Inc. (FEI)  
Revised Renewable Gas Program Application – Stage 2 (Application)  
Response to the Residential Consumer Intervener Association (RCIA)  
Information Request (IR) No. 2**

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On December 17, 2021, FEI filed the Application referenced above. In accordance with the amended regulatory timetable established in British Columbia Utilities Commission Order G-165-22A for review of the Application, FEI respectfully submits the attached response to RCIA IR No. 2.

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



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| FortisBC Energy Inc. (FEI or the Company)<br>Revised Renewable Gas Program Application – Stage 2 (Application) | Submission Date:<br>September 12,<br>2022 |
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1    **APPLICATION SECTION 2: PROGRAM HISTORY AND EVALUATION**

2    **37.0    Reference:    Exhibit B-30, FEI Response to RCIA IR 1, IR 1.1**

3            At the above noted location FEI states:

4            *“In particular, the willingness of participants to pay for RNG appears to be more related to*  
5            *the price differential between conventional natural gas and RNG, as opposed to the cost*  
6            *of RNG in isolation.”*

7            37.1    Please provide an estimate of the price elasticity of demand for the differential price  
8            between conventional natural gas and RNG.

9  
10    **Response:**

11    FEI presented evidence in the 2015 BERC Rate Methodology Application<sup>1</sup> regarding the elasticity  
12    of demand in response to the differential price between conventional natural gas and RNG. In  
13    that application and proceeding, FEI demonstrated that when the price premium for RNG  
14    exceeded approximately \$7/GJ, new customer additions fell markedly.

15    In this Application, FEI has provided the results of customer surveys that it undertook to assist in  
16    gauging customers’ willingness to pay for Renewable Gas at different price premiums versus  
17    conventional natural gas (see Appendix B of the Application). As FEI notes in Section 5.8 of the  
18    Application, while survey results of this kind provide some directional insight into customers’  
19    thinking on price, there can be a gap between customers’ responses to a survey and the act of  
20    enrolling for a service that will cost them more. The survey results nonetheless confirm that  
21    customers are less willing to purchase Renewable Gas as the price premium increases.

22    FEI does not have further data or evidence that would provide a clearer view regarding the  
23    elasticity of demand in response to differential pricing. In particular, inherent data limitations make  
24    it impractical to perform a robust analysis that could serve as the basis for Renewable Gas price-  
25    setting. A price elasticity study requires demand and price data reflecting market forces with  
26    consumer demand being driven by the pricing of competitive options. This type of market data is  
27    not currently available for RNG as FEI’s existing service offering is only voluntary. Due to the  
28    various BERC rate setting mechanisms, the price for RNG service has not been allowed to rise  
29    and fall with demand, and therefore has never been based on market forces.

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<sup>1</sup> FEI Application for Approval of Biomethane Energy Recovery Charge (BERC) Rate Methodology, August 28, 2015.



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1    **38.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 1.2**

2            At the above noted location FEI states:

3            *“As the Renewable Gas production market grows in line with demand, FEI expects that*  
4            *technological advances will lower production costs.”*

5            38.1 Please provide a forecast of Renewable Gas production market growth and  
6            production costs.

7  
8    **Response:**

9    The scope of this proceeding only encompasses evaluating the short term (5 years) forecast  
10    supply of RNG. However, the BC Renewable and Low-Carbon Potential Study, discussed in the  
11    response to BCUC IR1 1.1, provides an in-depth evaluation of the market potential and costs of  
12    renewable and low-carbon gases in BC to 2030 and 2050 under different scenarios.

13

1    **39.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 2.3**

2    At the above noted location FEI provides the following table:

|             | Short Run (SR) Values |                   |        | Long Run (LR) Values |                   |        |
|-------------|-----------------------|-------------------|--------|----------------------|-------------------|--------|
|             | SR Min                | SR Reference Case | SR Max | LR Min               | LR Reference Case | LR Max |
| Residential | -0.030                | -0.278            | -0.670 | -0.100               | -0.380            | -0.880 |
| Commercial  | -0.055                | -0.205            | -0.530 | -0.125               | -0.350            | -0.990 |
| Industrial  | -0.067                | -0.709            | -3.680 | -0.142               | -0.700            | -0.700 |

3

4    39.1    Could this table or a similar one (produced by a similar research exercise) be used  
 5    for renewable gas? Please discuss why or why not.

6

7    **Response:**

8    As RNG is a new product with relatively few producers and consumers, it is not possible to use  
 9    the values in the table to perform an elasticity exercise for RNG. Please also refer to the response  
 10    to RCIA IR2 37.1.

11

1    **40.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 3.1**

2    At the above noted location FEI provided the following table:

|  |              | 2015         | 2016         | 2017         | 2018         | 2019         | 2020         | 2021          |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Direct RG Acquisition /Production Cost | \$000        | 1,922        | 2,985        | 3,389        | 5,630        | 5,361        | 6,392        | 19,266        |
| Direct RG Administration               | \$000        | 185          | 696          | 771          | 1,314        | 470          | 1,776        | 2,261         |
| <b>Total</b>                           | <b>\$000</b> | <b>2,107</b> | <b>3,681</b> | <b>4,160</b> | <b>6,944</b> | <b>5,831</b> | <b>8,167</b> | <b>21,526</b> |
| Purchase Volume                        | TJ           | 132.6        | 133.7        | 153.8        | 323.1        | 315.2        | 306.0        | 790.0         |
| <b>\$/GJ</b>                           | <b>\$/GJ</b> | <b>15.89</b> | <b>27.53</b> | <b>27.05</b> | <b>21.49</b> | <b>18.50</b> | <b>26.69</b> | <b>27.25</b>  |

3

4    40.1 Has FEI studied/examined the volatility of the \$/GJ price of renewable gas  
 5    indicated in the above table? Please discuss FEI’s views on the reasons for this  
 6    volatility.

7

8    **Response:**

9    The volatility of the \$/GJ price of RNG identified in the above table is primarily a function of the  
 10    wide range of costs associated with a relatively small volume of RNG and small number of projects  
 11    over the period shown in the table. FEI expects such volatility to reduce in the future as more  
 12    projects begin providing RNG and supply volumes increase.

13

14

15

16    40.2 Does FEI expect the trend of volatile renewable gas pricing to continue into the  
 17    future? Please discuss.

18

19    **Response:**

20    Please refer to the response to RCIA IR2 40.1.

21

22

23

24    At the above noted location FEI states:

25    *“Conversely, FEI believes that customers who feel strongly about taking action on climate*  
 26    *change, or those with firm and committed GHG emission reduction targets, are more likely*  
 27    *to seek alternative forms of low carbon intensity energy, instead of reverting to*  
 28    *conventional natural gas, as the price of Renewable Gas increases relative to the*  
 29    *alternatives.”*

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1           40.3    Given the qualification restrictions of the proposed RNG program (e.g., renewable  
2                   gas available at new meters), please comment on the socio-economic barriers that  
3                   these restrictions will place upon people wishing to either reduce energy costs  
4                   and/or minimize GHG emissions.  
5

6    **Response:**

7    Contrary to the premise of the question, FEI considers the revised Renewable Gas Program to  
8    be comprehensive in that there are three different services by which sales customers can receive  
9    RNG. The Renewable Gas Connections service (which FEI clarifies is for new service lines, not  
10   new meters) is only one aspect of the Program. The revised Renewable Gas Program also  
11   includes a continuation of FEI’s voluntary offering, through which customers may elect to receive  
12   various blends of RNG depending on their desire and economic capability for reducing GHG  
13   emissions. The third method of delivering RNG to customers is by blending RNG for all sales  
14   customers through the Renewable Gas Blend service.

15   FEI has designed these three concurrent and complementary services under the Renewable Gas  
16   Program so that all procured RNG by FEI can be delivered to FEI’s customers without concern  
17   for stranded supply. From a socio-economic perspective, customers would have their current  
18   voluntary option where customers can manage their costs by selecting the blend of RNG that  
19   meets their needs. The Renewable Gas Connections and Renewable Gas Blend services allow  
20   FEI to deliver the RNG supplies it is enabled under the GGRR to acquire, while also allowing it to  
21   meet provincial and local government mandates, without concern as to whether the Voluntary  
22   Renewable Gas service will ultimately drive enough demand to reach supply-demand balance.

23   In contrast, the absence of the proposed Renewable Gas Program, including the Renewable Gas  
24   Connections service, would result in significant socio-economic barriers. In particular, customers  
25   would only have one energy option (electricity) to meet their respective energy needs in response  
26   to local and provincial GHG emissions reduction policies. The loss of energy choice would also  
27   require expensive equipment replacement, downstream modifications to hot air or water  
28   distribution and higher operating expenses, and the process of changing energy sources could  
29   potentially be adversely impacted by continued supply chain challenges and a lack of skilled  
30   trades capable or available to perform the retrofitting to customers’ homes and businesses. These  
31   higher costs can have a more adverse impact on lower income customers, as well as the tenants  
32   of rental properties.

33



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1   **41.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 4.1**

2           At the above noted location FEI states:

3           *“FEI notes though that because RNG is the same molecule as natural gas, RNG can be*  
4           *stored and operate in the same way as conventional natural gas.”*

5  
6           41.1   What (if anything) limits the quantity of RNG that can be stored by FEI?

7  
8    **Response:**

9    RNG, like conventional natural gas, can be stored within any storage facility available to FEI. As  
10 further explained below, the only limitation to the quantity of RNG that can be stored by FEI is  
11 access to suitable storage facilities.

12 From a physical perspective, RNG (biomethane) and conventional natural gas are fungible  
13 methane-based molecules of energy. FEI procures its supply of RNG and conventional natural  
14 gas under specific supply contracts. Although FEI accounts for the quantities and costs  
15 associated with the procurement of RNG and conventional natural gas separately, FEI does not  
16 track the specific movement of the separately sourced energy upon taking custody of the  
17 molecules, as the RNG and conventional natural gas are comingled in the system and fungible.  
18 RNG inventory is not physically traced to specific pipelines or storage facilities, and therefore, all  
19 of FEI's available owned or leased storage assets may be used for storage of RNG.

20  
21

22  
23

24           41.2   Could FEI potentially use 100% of its storage for RNG storage?

25

26    **Response:**

27    Yes, please also refer to the response to RCIA IR2 41.1.

28



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1    **APPLICATION SECTION 3: EVOLUTION OF CLIMATE CHANGE POLICY**

2    **42.0    Reference:    Exhibit B-30, FEI Response to RCIA IR 1, IR 6.1**

3            At the above noted location FEI states:

4            *“FEI is not aware of currently enforced GHGi limits for the replacement of old gas fired*  
5            *equipment.”*

6            42.1    Please confirm that it is FEI's understanding and expectation that residences with  
7            existing natural gas fired appliances will not be required to comply with new GHGi  
8            limits imposed by municipalities (i.e., the right to replace conventional natural gas  
9            appliances will be "grandfathered")?

10           a)    If FEI has any reason to believe that this is not true, please discuss.

11

12    **Response:**

13    FEI is not aware of any current existing requirements imposed by local governments which  
14    impose a GHGi limit on residences with existing natural gas fired appliances. FEI is also not  
15    aware of any discussion that those residences that have gas fired equipment will be  
16    grandfathered.

17    Please refer to the response to BCUC IR2 48.3 and BCOAPO IR2 19.4 for a discussion of the  
18    City of Vancouver’s proposals.

19





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1   **43.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 9.2**

2       At the above noted location FEI states:

3               *“There are a variety of factors that may stop a local government from seeking to ban FEI’s*  
4               *infrastructure, including public interest considerations, not having the support of its*  
5               *constituents, and jurisdictional issues.”*

6               43.1 Is FEI aware of any legal or statutory reasons that would prevent municipalities  
7               from banning FEI infrastructure? Please discuss.

8  
9       **Response:**

10       It is FEI’s legal position that there are both legal and statutory reasons that would prevent local  
11       governments from banning FEI infrastructure. The details of FEI’s legal position in this regard are  
12       legally privileged and confidential.

13



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1   **44.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 10.1**

2           At the above noted location FEI states:

3           *“A renewable gas program that assured permanence of GHG emission reductions for the*  
4           *life of the building, at a cost equivalent to other building archetypes, would provide equal*  
5           *access to marketplace for the homebuilder or homeowner.”*

6           44.1 What are the legal or technical barriers to FEI providing assurances of  
7           permanence?

8  
9    **Response:**

10   There are no technical barriers to assuring the permanence of GHG emission reductions, as  
11   demonstrated by FEI’s proposed Renewable Gas Connections service. The only current legal  
12   barrier that would prevent FEI from providing the permanence of GHG emissions reductions  
13   through the proposed Renewable Gas Connections service would be a decision by the BCUC to  
14   not approve the proposal. Please also refer to the response to City of Richmond IR1 3.2.

15



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1   **45.0   Reference:   Exhibit B-30, FEI Response to RCIA IR 1, IR 11.1**

2           At the above noted location FEI states:

3           *“FEI is not able to isolate “buildings only” and as a result the following table contains the*  
4           *aggregate residential and commercial demand percentages for each*  
5           *municipality/community.”*

6           45.1   What percentage of FEI total gas consumption is residential and what percentage  
7                   is commercial?

8  
9           **Response:**

10          In 2021, 25 percent of FEI’s total consumption was commercial and 35 percent was residential.

11



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1 **APPLICATION SECTION 5: WHAT CUSTOMERS NEED FROM A RENEWABLE GAS**  
2 **PROGRAM**

3 **46.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 16.1**

4 At the above noted location FEI states:

5 *“The cost of gas for Renewable Gas Connection customers should be averaged with*  
6 *existing customers as proposed by FEI, just as would be true for new and existing*  
7 *transmission and distribution costs of serving customers. In an evaluation of cost*  
8 *causation and cost apportionment under Bonbright principles, it is important to recognize*  
9 *that every customer was a new customer when they joined the system, and they were not*  
10 *charged the “new” costs for the energy commodity, delivery or administrative functions*  
11 *they were “causing” when initiating service. If this were the case, FEI’s residential delivery*  
12 *rates would need to be adjusted to remove the “Service Line Cost Allowance” for new*  
13 *residential services, and new residential connections would be made to pay the full*  
14 *incremental cost of their delivery service.”*

15 46.1 Please confirm that this statement claims that: Even though customers are  
16 receiving differentiate products (i.e., Conventional Natural Gas versus Renewable  
17 Gas), the cost of gas for Renewable Gas Connection customers should be  
18 averaged with existing conventional natural gas customers as proposed by FEI,  
19 just as would be true for new and existing transmission and distribution costs of  
20 serving customers who both receive the same electricity commodity.

21 a) If not confirmed, please restate this statement to include specific reference to  
22 the commodity being provided to each of the different customers.

23  
24 **Response:**

25 **The following response is provided by Concentric.**

26 Not confirmed. Renewable Gas Blend and Renewable Gas Connections customers are not  
27 receiving differentiated products. As explained in the response to BCUC IR1 13.2, Renewable  
28 Gas Connections customers will be served by the same system and physically receive the same  
29 blend of natural gas containing Renewable Gas as existing natural gas customers. As explained  
30 in the response to BCUC IR1 13.3.2, there are no delivery-related cost of service differences  
31 between the new residential customer eligible for Renewable Gas Connections service versus  
32 existing customers, nor are there any functional service differences with respect to the supply of  
33 natural gas. Under FEI’s proposal, a newly connected customer will not functionally receive 100  
34 percent Renewable Gas at their service point. Instead, FEI will alter its supply mix to account for  
35 the fact that its obligation to this new customer must be accounted for with 100 percent Renewable  
36 Gas, whereas its obligation for existing customers must be accounted for with a blended supply  
37 that is composed primarily of natural gas and a much lower proportion of Renewable Gas. The  
38 difference between these otherwise identical customers is solely a function of policy.



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46.2 Please provide support for classifying two differentiated commodities as being the same with respect to determining "new" costs with reference to the Bonbright principles.

**Response:**

**The following response is provided by Concentric.**

Please refer to the response to RCIA IR2 46.1. As discussed in the responses to BCUC IR1 13.2 and 16.2, FEI's proposed Renewable Gas Connections service satisfies the Bonbright principles, including the fair apportionment of costs, avoidance of undue discrimination, and sending efficient price signals.



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1   **47.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 17.1**

2       At the above noted location FEI states:

3       *“New construction is not itself a meter identification basis. In order to be eligible for the*  
4       *Renewable Gas Connections service there must be a new service and meter. This*  
5       *includes an existing building (not currently connected to the gas service) requesting a*  
6       *service line and meter, because they have undertaken building retrofits that mean they*  
7       *require gas. It may also be a new residential building that requires a new service line and*  
8       *meter. In each of these scenarios, the meter would be designated part of the Renewable*  
9       *Gas Connections service, rather than a “new construction” designation.”*

10       47.1 Please confirm that a building with an existing meter than undergoes major  
11       renovation cannot qualify as a Renewable Gas Connection.

12           a) If not confirmed, please describe how they qualify.

13  
14    **Response:**

15    Please refer to the response to BCUC IR2 54.1.

16



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1   **48.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 18.2**

2

3

At the above noted location FEI states:

4

*“Builders do not have a specific expectation of “cost of service”; rather, they are focused on a home’s construction and equipment costs.”*

5

6

48.1 Please compare and contrast the construction and equipment costs of a typical natural gas fired home versus an electrically heated (space heating and water heating) home.

7

8

9

10   **Response:**

11 Please refer to the response to BCUC IR1 13.6.

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1    **APPLICATION SECTION 7: PROPOSED RENEWABLE GAS PROGRAM**

2    **49.0    Reference:    Exhibit B-30, FEI Response to RCIA IR 1, IR 24.2**

3            At the above noted location FEI states:

4            *“Connections service does not cause this proposed service to warrant different ratemaking*  
5            *treatment from the existing residential sales service. Fundamentally, charging “new”*  
6            *customers a different rate from “existing” customers represents an unreasonable form of*  
7            *discrimination which creates “acquired rights” and wealth entitlements for customers*  
8            *served off of existing service lines, even when those customers may be “new” to the*  
9            *system as well.”*

10           49.1    Please confirm that under proposed RNG program, that FEI is proposing that all  
11                    infrastructure other than the fuel is identical between RNG and conventional  
12                    natural gas customers.

13  
14            **Response:**

15            Confirmed. FEI’s infrastructure is the same for RNG and conventional natural gas customers. For  
16            clarity, FEI’s revised Renewable Gas Program continues to use a displacement energy model,  
17            reflecting the physical reality of gas delivery in British Columbia and North America more broadly.  
18            Please also refer to the responses to BCUC IR1 13.2, 16.2, 23.3, 29.2.1, and CEC IR1 33.5.

19  
20

21  
22            49.2    For RNG customers, please explain why a "differentiated commodity" (i.e. RNG)  
23                    should have the same fuel price as conventional natural gas along, making  
24                    reference to the Bonbright principles (i.e. to the specific Bonbright principle being  
25                    cited).

26  
27            **Response:**

28            **The following response is provided by Concentric.**

29            Please refer to the response to RCIA IR2 46.2.

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1   **50.0   Reference:   Exhibit B-30, FEI Response to RCIA IR 1, IR 26.3**

2           At the above noted location FEI states:

3           “Renewable Gas customers are paying the full all-in cost of the Renewable Gas. FEI is  
4           proposing that, through the three offerings in this Application (i.e., the Renewable  
5           Gas Connections, Renewable Gas Blend and Voluntary Renewable Gas services),  
6           all costs are recovered from those customers receiving Renewable Gas.  
7           Renewable Gas costs are not recovered from customers who do not receive  
8           Renewable Gas.”

9

10          50.1   Please confirm that Renewable Gas Connections are not paying their full all-in  
11          costs of the Renewable Gas, but rather collectively Renewable Gas Connections,  
12          Renewable Gas Blend and Voluntary Renewable Gas services are together paying  
13          the full all-in cost of the Renewable Gas.

14           a)   If not confirmed, please explain how each of these three customers are  
15           individually, and standalone, paying for the full all-in cost of the Renewable  
16           Gas that they use.

17

18    **Response:**

19    Confirmed. Please refer to the responses to BCUC IR1 10.1 and RCIA IR2 40.3.

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| FortisBC Energy Inc. (FEI or the Company)<br>Revised Renewable Gas Program Application – Stage 2 (Application) | Submission Date:<br>September 12,<br>2022 |
| Response to Residential Consumers Intervener Association (RCIA) Information Request<br>(IR) No. 2              | Page 17                                   |

1   **51.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 27.1**

2       At the above noted location FEI states:

3       *“Please refer to Section 3.5 and Appendix A of the Application for evidence relating to how*  
4       *GHGi targets set in certain cities have limited customer choice of energy supply in new*  
5       *buildings. The lack of permanence in FEI’s existing Renewable Gas Program offering,*  
6       *combined with GHGi targets that cannot be met with conventional natural gas, means that*  
7       *customers must select electricity as their source of energy.”*

8       51.1 Please explain why Fortis cannot create a standalone renewable gas product that  
9       has permanence.

10

11    **Response:**

12    FEI considers that its proposed Renewable Gas Connections service is a standalone Renewable  
13    Gas product with permanence. Please refer to the response to BCOAPO IR1 10.1 for a discussion  
14    of receipt by displacement.

15



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| FortisBC Energy Inc. (FEI or the Company)<br>Revised Renewable Gas Program Application – Stage 2 (Application) | Submission Date:<br>September 12,<br>2022 |
| Response to Residential Consumers Intervener Association (RCIA) Information Request<br>(IR) No. 2              | Page 18                                   |

1   **52.0   Reference:   Exhibit B-30, FEI Response to RCIA IR 1, IR 31.1**

2           At the above noted location FEI states:

3           *“As discussed in the responses to BCUC IR1 13.2 and 16.2, and RCIA IR1 16.1, FEI’s*  
4           *proposal is consistent with long-standing ratemaking principles, including Bonbright, the*  
5           *BCUC’s practices supporting average cost pricing, the NEB’s policy regarding no acquired*  
6           *rights, and standard rate-setting approaches applied by the BCUC and throughout North*  
7           *America.”*

8           52.1   Please explain how having two different fuel commodities (1% RNG blend, and  
9                100% RNG blend) meets the Bonbright principle of cost causation for input fuel  
10              cost when the two commodities are priced the same, but have materially different  
11              input fuel costs?

12  
13    **Response:**

14    **The following response is provided by Concentric.**

15    Please refer to the responses to RCIA IR2 46.1 and 46.2.

16



|  |   |
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| FortisBC Energy Inc. (FEI or the Company)<br>Revised Renewable Gas Program Application – Stage 2 (Application) | Submission Date:<br>September 12,<br>2022 |
| Response to Residential Consumers Intervener Association (RCIA) Information Request<br>(IR) No. 2              | Page 19                                   |

1   **53.0 Reference: Exhibit B-30, FEI Response to RCIA IR 1, IR 34.8**

2       At the above noted location FEI states:

3       *“Under the revised Renewable Gas Program proposed in the Application, there are no*  
4       *costs shifted to non- participants. All customers bearing a cost of Renewable Gas will*  
5       *receive Renewable Gas.”*

6       53.1 Please provide annual renewable gas fuel cost shifts between the different  
7       connection types within the renewable gas program.

8  
9       **Response:**

10      Please refer to the response to the City of Richmond IR1 1.3.

11