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May 16, 2022

TransLink
400-287 Nelson's Court
New Westminster, B.C
V3L 0E7

Attention: Mr. Ralf Nielsen

Dear Mr. Nielsen:

**Re: FortisBC Energy Inc. (FEI)
Revised Renewable Gas Program Application – Stage 2 (Application)
Response to the TransLink Information Request (IR) No. 1**

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-103-22, FEI respectfully submits the attached response to TransLink IR No. 1.

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

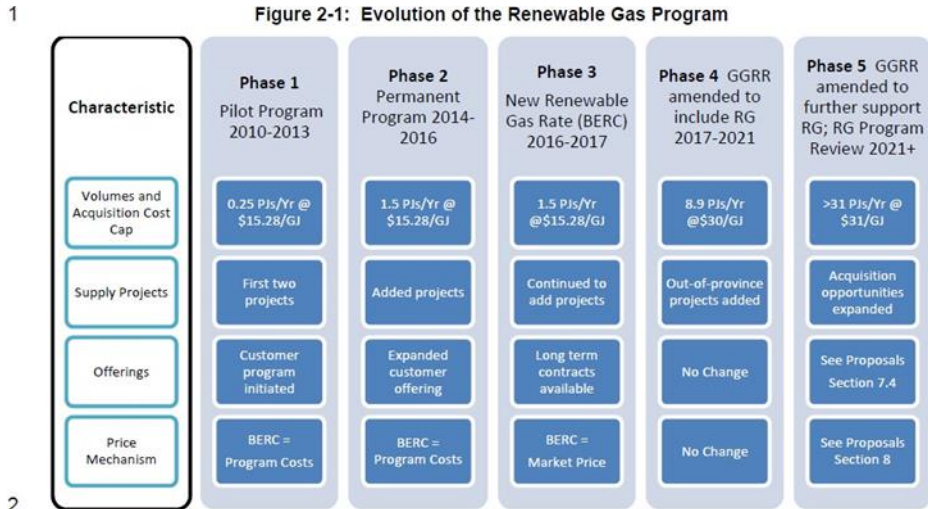
Attachments

cc (email only): Commission Secretary
Registered Parties

1 **1.0 Reference: Program History and Evaluation**

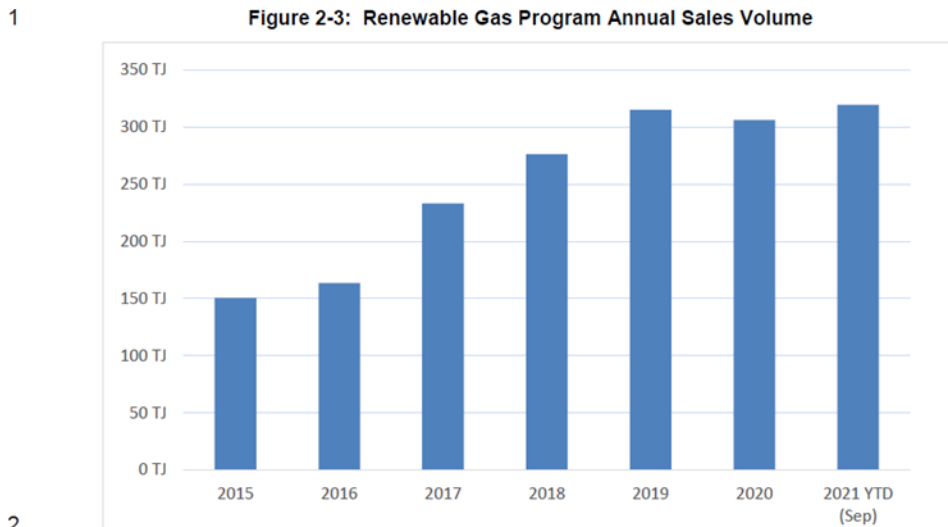
2 **Exhibit B-11, Section 2.1, and Section 2.2.2**

3 On Page 11, Lines 1-2, Figure 2-1, of the Application, FEI indicates the maximum amount
 4 of RNG permitted under the applicable regulatory regime during each Phase (e.g., 8.9
 5 PJ/YR for Phase 4 - 2017-2021).



6

7 On Page 20, Lines 1-2, Figure 2-3, of the Application, FEI indicates annual sales volumes
 8 between 0.2-0.3 PJ (225-325 TJ) for 2017-2021.



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10 1.1 Please explain the significant discrepancy between the annual sales volumes
 11 shown in Figure 2-3 and the RNG Program permitted volumes for each Phase
 12 shown in Figure 2.1
 13

1 **Response:**

2 The discrepancy is attributable to the slower than anticipated ramp up in actual supply volumes.
 3 The volumes indicated in Figure 2-1 show the maximum volume that FEI was *permitted* to
 4 purchase at or below the associated price point. However, Figure 6-2 on page 73 of the
 5 Application shows the actual supply volumes that FEI *acquired* in each year, which was less than
 6 the permitted amount shown in Figure 2-1. Therefore, the annual sales volumes shown in Figure
 7 2-3 were constrained by the supply of Renewable Gas that was actually available.

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11 1.2 Please update Figure 2-3 to show full year actual sales for 2021.

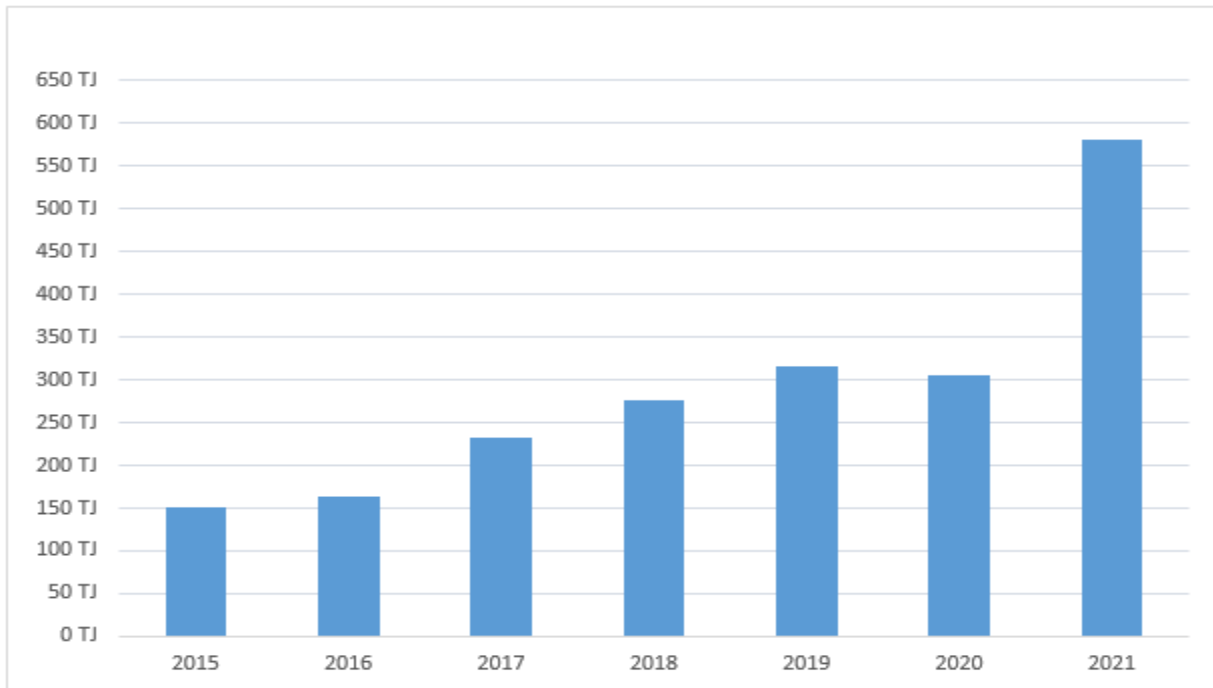
12

13 **Response:**

14 Please see the requested revised version of Figure 2-3 below which includes actual sales for all
 15 of 2021.

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Revised Figure 2-3: Renewable Gas Program Annual Sales Volume



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20 1.3 Please provide a breakdown of the industry sectors who consumed the volumes
 21 shown in updated Figure 2-3.

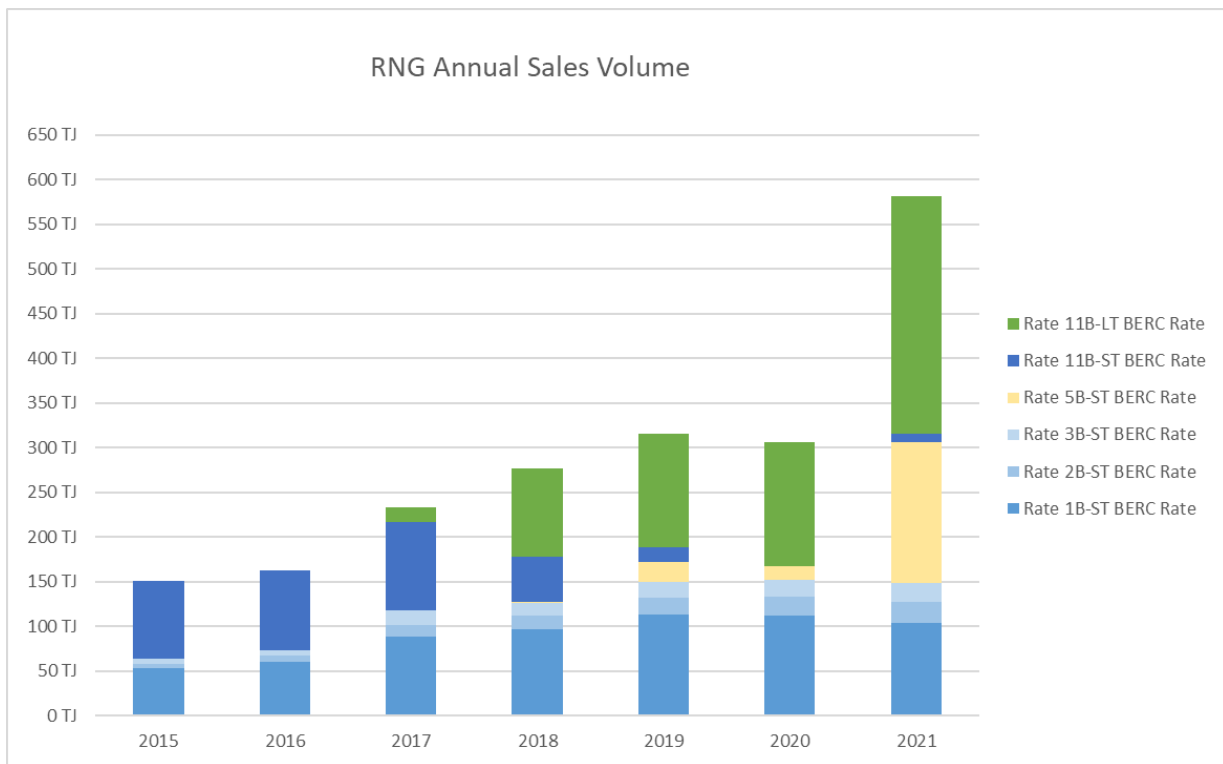
22

1 **Response:**

2 Please refer to the figure provided below which provides a breakdown by rate schedule of the
 3 volumes shown in Figure 2-3. FEI does not track program participation by industry sector;
 4 however, each rate schedule generally aligns with the following customer classes:

- 5 • Rate 1B = Single Family Residential Customers
- 6 • Rate 2B = Small Commercial Customers
- 7 • Rate 3B, 5B, 11B = Large Commercial, Industrial, and NGV Customers

8 **Revised Figure 2-3: Renewable Gas Program Annual Sales Volume by Rate Schedule**



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13 1.4 Please correlate the volumes of RNG sales by industry sector provided in response
 14 to 1.3 above with the Stakeholders consulted as listed in Sections 10.1.1 and
 15 10.1.2 of the Application.

16

17 **Response:**

18 FEI is unable to provide the requested correlation as information regarding specific stakeholders
 19 is confidential and cannot be shared. Moreover, the stakeholders consulted were not necessarily
 20 Renewable Gas Program customers and included organizations that have an interest in the
 21 development of climate, energy, building and housing-related policy in BC.

22

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1 **2.0 Reference: Evolution of Climate Change Policy**

2 **Exhibit B-11, Section 3.4.1.3, Page 31,**

3 On Page 31, Line 3, of the Application, FEI states:

4 *Conventional natural gas is below the current CI threshold in the BC-LCFS. FEI's*
5 *Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG) transport customers*
6 *can earn credits under the BC-LCFS and sell them to other organizations, reducing the*
7 *cost of adopting a low carbon transportation solution. As an even lower carbon fuel,*
8 *Renewable Gas presents an opportunity for FEI's customers in the transport sector to*
9 *further exceed the CI threshold in the BC- LCFS, earn more credits with Renewable Gas,*
10 *and sell the credits to offset the costs of the Renewable Gas supply.*

11 *The CleanBC Roadmap states that the provincial government will increase the stringency*
12 *of the BC-LCFS. New targets will be developed for medium and heavy-duty vehicles, as*
13 *the costs and difficulty to electrify these vehicles remain high.*

14 2.1 Please explain how FEI's proposal to recover 100 percent of the average cost of
15 Renewable Gas supply, on a cost per GJ basis, from NGV customers "...presents
16 an opportunity for FEI customers in the transportation sector to further exceed the
17 CI threshold in the BC-LCFS" and is not a disincentive to increase use of RNG in
18 the transportation sector.

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20 **Response:**

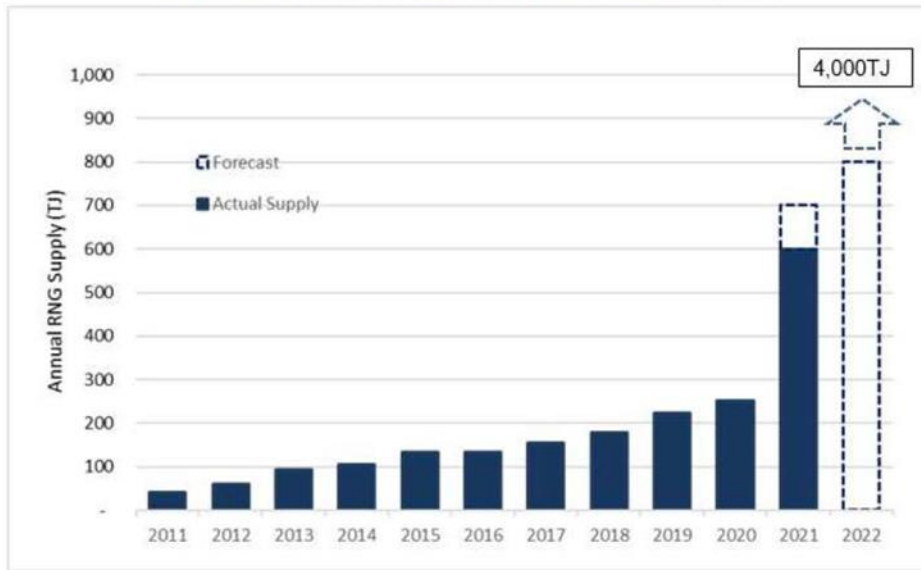
21 Please refer to the responses to BC Transit IR1 4a and 11a.

22

1 **5.0 Reference: Growth in Renewable Gas Supply**
 2 **Exhibit B-11, Section 6.2.1**

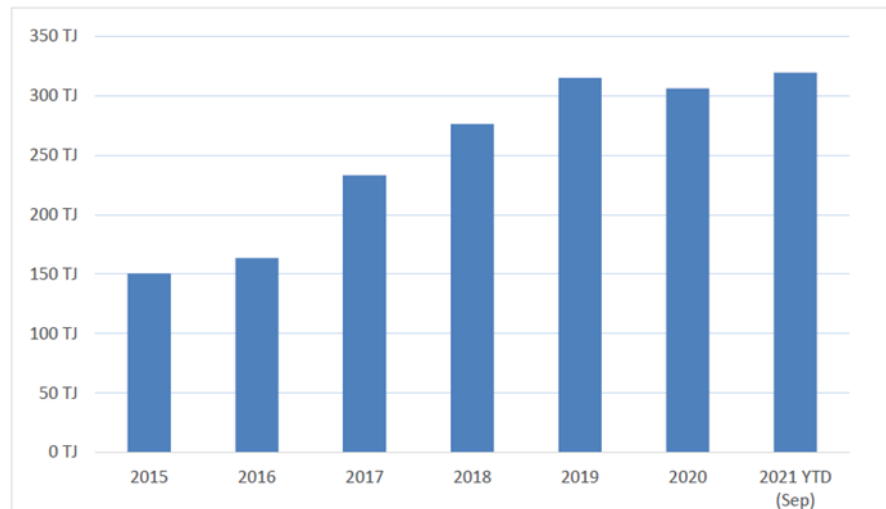
3 On Page 73, Line 5, Figure 6-2, of the Application, FEI indicates the annual RNG supply
 4 in 2019, 2020 and 2021 to be approximately 220, 250, and 600 TJ respectively.

5 **Figure 6-2: Total RNG Supply History and Short Term Forecast**



5 However, on Page 20, Lines 1-2, Figure 2-3, of the Application, FEI indicates annual sales
 6 volumes in 2019, 2020, and 2021 to be approximately 320, 310 and 320 TJ respectively.
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1 **Figure 2-3: Renewable Gas Program Annual Sales Volume**



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 10 5.1 Please explain the discrepancy between the volume figures provided in Figures 6-
 11 2 and 2-3.
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1 **Response:**

2 The difference is attributable to sales volumes exceeding the available supply of Renewable Gas.
3 For customers in Rate Schedules 1B, 2B, 3B, and 5B, FEI may use purchased carbon offsets to
4 make up for a shortfall in supply versus demand.

5 In the mid-2010s this shortfall appeared to be both manageable, using purchased carbon offsets
6 for customers in Rate Schedules 1B, 2B, 3B, and 5B, and temporary, as FEI expected that
7 Renewable Gas supply would increase to eliminate the shortfall. However, by mid-2019, it was
8 apparent that the growth in supply would not occur as anticipated and continued to lag behind
9 demand. In response, FEI paused new customer enrollments in the Renewable Gas Program,
10 and curtailed service to interruptible customers in order to keep demand more in line with supply.

11 With the benefit of navigating this supply shortfall, and the addition of new supply contracts (as
12 described in Section 6 of the Application), FEI is significantly better positioned to avoid an
13 extended period of supply and demand imbalance in the future.

14

1 **6.0 Reference: Growth in Renewable Gas Supply**

2 **Exhibit B-11, Section 6.4**

3 On Page 80, Line 14, of the Application, FEI states:

4 *FEI has developed and implemented strategies to mitigate Renewable Gas supply growth*
5 *risk. The current supply forecast for Renewable Gas can be affected by external factors*
6 *such as equipment failure, feedstock supply challenges and weather events. In this*
7 *section, FEI will discuss how these supply risks are mitigated by increasing FEI's supply*
8 *volumes within BC and outside of BC, monitoring new technology, diversifying the supply*
9 *portfolio, working with stakeholders to get products ready for market and working with*
10 *government to update policies in order to enable growth.*

11 6.1 Please describe what business-to-business measures (e.g., co- investment, joint
12 ventures, financial incentives, risk management, contract structures, etc.) FEI is
13 taking or is planning to take to ensure the growth of supply volumes from its
14 approved, anticipated, and future supply projects.

15
16 **Response:**

17 FEI is exploring a variety of business-to-business measures to ensure the growth of Renewable
18 Gas supply volumes. While FEI is keeping these measures confidential in order to maintain its
19 commercial advantage in the market, FEI has filed all Renewable Gas supply agreements with
20 the BCUC.

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24 6.2 Please describe what measures FEI is taking to coordinate investment and
25 financing in RNG supply projects with senior levels of government, cities,
26 municipalities, and the private sector.

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28 **Response:**

29 Over the history of the Renewable Gas Program, FEI has played a leadership role in advancing
30 RNG supply, demand and enabling policies requiring coordination between the private sector as
31 well as provincial, Indigenous, local and regional governments in some cases. Examples of
32 actions that FEI has taken include:

- 33 • Coordinating with both local governments and the private sector in making investments in
34 RNG supply projects. For example, FEI invested in a biogas upgrading plant at the
35 Glenmore landfill owned by the City of Kelowna and has worked directly with private sector
36 RNG suppliers by investing in stations and pipeline to connect the sources of RNG to the
37 existing FEI system.
- 38 • Working with the provincial government in the development and amendment of the GGRR
39 to enable increased investment in, and financing of, RNG projects. FEI continues to

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- 1 collaborate with the provincial government to further develop opportunities in investment
2 and financing for Renewable Gas projects.
- 3 • Securing approval from the BCUC for the Clean Growth Innovation Fund (CGIF), a
4 mechanism that allows FEI to co-fund innovative energy projects over the next four years
5 in partnership with governments and industry.
 - 6 • Issuing a green bond in 2020 to provide low-cost capital for projects including renewable
7 energy, RNG, energy efficiency, clean transportation and pollution prevention. FEI will look
8 at further opportunities to use green bond financing to support future Renewable Gas
9 projects.
- 10

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1 **7.0 Reference: Proposed Renewable Gas Program**

2 **Exhibit B-11. Section 7.4.3.2**

3 On Page 104, Line 6, of the Application, FEI states:

4 *FEI proposes that the rate for NGV and T-Service customers be set to recover 100 percent*
5 *of the average cost of Renewable Gas supply, on a cost per GJ basis. The rationale for*
6 *this change is discussed below.*

7 *There are two reasons for increasing the rate for NGV customers. First, any GHG emission*
8 *reductions resulting from the sale of Renewable Gas to NGV customers will not contribute*
9 *to achieving the GHG reduction policy described in the CleanBC Roadmap. Second,*
10 *Renewable Gas has a higher value to NGV customers than to other customer types. NGV*
11 *customers receiving compressed natural gas (CNG) service and liquefied natural gas*
12 *(LNG) service in British Columbia are eligible for Part 3 fuel supplier status under the BC-*
13 *LCFS.*

14 On Page 104, Line 27, of the Application, FEI states:

15 *In effect, the current BC-LCFS provides these customers with a financial incentive to*
16 *reduce their GHG emissions by purchasing Renewable Gas, as discussed in Section*
17 *5.7.2.*

19 7.1 Given the CleanBC Roadmap to 2030 direction of “...Increased clean fuel
20 requirements and doubling the target for renewable fuels produced in B.C. to 1.3
21 billion litres by 2030”¹ please explain, by reference to the provisions of the CleanBC
22 Roadmap to 2030 directed at the energy and transportation pathways, why FEI
23 states “...the sale of Renewable Gas to NGV customers will not contribute to
24 achieving the GHG reduction policy described in the CleanBC Roadmap.”

25
26 **Response:**

27 Please refer to the response to BC Transit IR1 4a.

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31 7.2 Please provide an estimate of the future net RNG costs per GJ factoring in carbon
32 intensity and carbon credits for transportation customers who use greater than
33 500,000 GJ / year and a typical bill/invoice.

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¹ CleanBC Roadmap to 2030, Province of British Columbia, 2021. Page 8, 13, 28, 67, 68. URL:
https://www2.gov.bc.ca/assets/gov/environment/climate-change/action/cleanbc/cleanbc_roadmap_2030.pdf.

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1 **Response:**

2 Assuming 42,000 GJ of consumption per month (504,000 GJ per year) under Rate Schedule 5,
3 and a \$400 per credit price for the BC-LCFS credits, a customer would pay a net cost of
4 approximately \$4.11 per GJ for Renewable Gas. Please note that this is substantially less than
5 any other Renewable Gas Program customer pays for Renewable Gas, and also less than
6 customers pay for conventional natural gas.

7 Please refer to Attachment 7.2 for a fully functional Excel spreadsheet showing a typical invoice
8 mockup and calculation of the net Renewable Gas cost per GJ.

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13 7.3 Please provide the forecast rate impact to transportation customers from 2023 to
14 2033 based on FortisBC's RNG acquisition cost forecast.

15

16 **Response:**

17 Please refer to the response to BC Transit IR1 11c.

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21 7.4 By reference to each ratepayer class affected by the Application, please explain
22 how the proposed rates are not unjust, unreasonable, unduly discriminatory, or
23 unduly preferential across the affected ratepayer classes.

24

25 **Response:**

26 Please refer to the response to BCUC IR1 16.2.

27

Attachment 7.2

REFER TO LIVE SPREADSHEET MODEL

Provided in electronic format only

(accessible by opening the Attachments Tab in Adobe)