

Diane Roy Vice President, Regulatory Affairs

Gas Regulatory Affairs Correspondence Email: gas.regulatory.affairs@fortisbc.com

Electric Regulatory Affairs Correspondence Email: <u>electricity.regulatory.affairs@fortisbc.com</u> FortisBC 16705 Fraser Highway Surrey, B.C. V4N 0E8 Tel: (604)576-7349 Cell: (604) 908-2790 Fax: (604) 576-7074 www.fortisbc.com

November 9, 2022

British Columbia Utilities Commission Suite 410, 900 Howe Street Vancouver, B.C. V6Z 2N3

Attention: Ms. Sara Hardgrave, Acting Commission Secretary

Dear Ms. Hardgrave:

Re: FortisBC Energy Inc. (FEI)

Project No. 1599364

Gas Supply Mitigation Incentive Program (GSMIP) Review and Application to Extend for the Period November 1, 2022 to October 31, 2025 (Application)

Response to the British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1

On August 30, 2022, FEI filed the Application referenced above. In accordance with the regulatory timetable established in BCUC Order G-288-22 for the review of the Application, FEI respectfully submits the attached response to BCUC IR No. 1.

For convenience and efficiency, if FEI has provided an internet address for referenced reports instead of attaching the 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 Matt Yasinchuk at 604-576-7052.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments



1 2	1.0 Refe	rence:	CURRENT GSMIP REVENUE, INCENTIVE PAYMENT AND 2022 REVIEW
3			Exhibit B-1, Section 4.1, p. 12; Appendix A, p. 3
4			2022 GSMIP Review
5 6 7	(GSN	/IP) For	of the Application to Extend the Gas Supply Mitigation Incentive Program the Period November 1, 2022 to October 31, 2025 (Application), FortisBC EI) states:
8		2. Mor	thly Commodity Resale Mitigation
9 10 11 12 13 14 15 16			FEI seeks to add a new Benchmarked Activity and has added this to the Term Sheet (Appendix A). Typically, during the summer months of April through October there are opportunities for FEI to sell forward excess commodity for a monthly term. FEI believes there are times when this is beneficial to customers and the benchmark should be based on the Platts Inside FERC's Gas Market Report – Monthly Bidweek Spot Gas Prices. FEI introduced and discussed the recommendation in Workshops #2 and #3.
17	On p	age 3 of	the Appendix A to the Application, FEI states:
18 19 20 21 22		April a transp	FEI has excess purchased supply, typically in the summer months between nd October, FEI has the option to sell it back at the same market hub, or ort it to sell to a downstream market. FEI will look for transactions that yield hest expected net-back value, given the constraints on what is operationally e.
23 24	1.1		e discuss how FEI will conduct this benchmarked activity and the expected ts/savings to ratepayers.
25 26 27 28 29 30 31 32	Response:	1.1.1 1.1.2 1.1.3	Please explain the current operational arrangements in place, absent this new benchmarked activity. Please explain how the Monthly Commodity Resale Mitigation is different than the Spot Commodity Resale Mitigation. Please explain how FEI will determine that it has sufficient excess commodity for a monthly term.
33 34 35	Monthly com each day, wl	nereas Sp	esale mitigation is a decision to sell forward, for an entire month, a set volume bot commodity resale mitigation occurs 24 hours prior each day or the Timely act Monthly Commodity Resale in a similar fashion to all mitigation activities

- undertaken by FEI. FEI takes a diversified approach to mitigation of the ACP resources, including 36
- 37 commodity, storage and transportation, in order to optimize the portfolio against the load duration



- 1 curve and supply / demand balance over the course of the gas year. On a monthly basis, FEI 2 would assess a number of different variables before executing resources and entering into any 3 mitigation activity. These variables include time of year, storage balances, current operational 4 information, ACP load forecasts by month, Pipeline Maintenance, and upcoming capacity 5 constraints. Considering these factors will help FEI determine if there is an opportunity to create 6 value for customers on a monthly termed transaction and where that transaction should take 7 place, at the purchase hub or transported downstream. These are all the same variables that FEI 8 considers when doing any mitigation, whether its monthly or daily.
- 9 FEI may sell forward a monthly based product if it has excess supply. Through the Annual 10 Contracting Plan (ACP) and the essential service model, FEI purchases baseload CCRA supply 11 each day of year. In the summer months when the core load requirements are lower due to non-12 heating season, FEI's baseload supply is greater than the core customer load requirements. FEI 13 will utilize this baseload supply to meet core customer loads, refill upstream and downstream 14 storage accounts, and also refill on-system LNG storage inventories. Any excess supply is then 15 available to be resold into the market, which FEI typically chooses to undertake at 16 Huntingdon/Sumas, Station 2, AECO/NIT and the Kingsgate market centres.
- 17 As noted above, mitigation of excess commodity for a monthly term does not differ from any of 18 the decision making FEI currently undertakes when determining daily commodity sales. However, 19 currently in the GSMIP there is only a benchmarked activity for Spot commodity resale mitigation, 20 which uses the Platts Gas Daily published index as the benchmark. Consequently, if FEI were to 21 undertake a monthly commodity resale mitigation activity, the sales volumes would be 22 benchmarked each day against the Platts Gas Daily published index not the monthly index. This 23 is not the appropriate benchmark as FEI uses benchmarks to help gauge not only how markets 24 are performing but also how well FEI is performing. The standard for a monthly product is the 25 Inside FERC's Gas Market Report – Monthly Bidweek Spot Gas Prices (IFERC).
- 26 To illustrate, assuming FEI were long in supply by 75,000 GJ per day in the month of June, FEI 27 could chose to sell 25,000 GJ per day at Huntingdon/Sumas during bidweek (i.e. every day for 28 the month of June). In this example, assume the sale prices ranges from \$8.39 USD/MMBTU to 29 \$8.93 USD/MMBTU and the settled IFERC monthly Sumas price was \$8.60 USD/MMBTU. In 30 this example FEI sold 25,000 GJ per day at an average price of \$8.75 USD/MMBTU. FEI would still have approximately 50,000 GJ per day of excess commodity to sell at Huntingdon/Sumas 31 32 each day of June. These daily sales would fall under the current spot commodity resale mitigation 33 activity and benchmarked against the Platts Gas Daily index. The daily settled prices for the 34 month of June are shown in the table below.



FortisBC Energy Inc. (FEI or the Company) Gas Supply Mitigation Incentive Program (GSMIP) Review and Application to Extend for the Period November 1, 2022 to October 31, 2025 (Application)	Submission Date: November 9, 2022
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Price index /	Price date /	Average Price V
NW Sumas GD	6/1/2022 12:00:00 AM	8.010000
NW Sumas GD	6/2/2022 12:00:00 AM	8.110000
NW Sumas GD	6/3/2022 12:00:00 AM	8.260000
NW Sumas GD	6/4/2022 12:00:00 AM	7.615000
NW Sumas GD	6/5/2022 12:00:00 AM	7.615000
NW Sumas GD	6/6/2022 12:00:00 AM	7.615000
NW Sumas GD	6/7/2022 12:00:00 AM	8.320000
NW Sumas GD	6/8/2022 12:00:00 AM	8.545000
NW Sumas GD	6/9/2022 12:00:00 AM	8.500000
NW Sumas GD	6/10/2022 12:00:00 AM	7.550000
NW Sumas GD	6/11/2022 12:00:00 AM	8.035000
NW Sumas GD	6/12/2022 12:00:00 AM	8.035000
NW Sumas GD	6/13/2022 12:00:00 AM	8.035000
NW Sumas GD	6/14/2022 12:00:00 AM	7.960000
NW Sumas GD	6/15/2022 12:00:00 AM	6.695000
NW Sumas GD	6/16/2022 12:00:00 AM	6.810000
NW Sumas GD	6/17/2022 12:00:00 AM	6.815000
NW Sumas GD	6/18/2022 12:00:00 AM	6.230000
NW Sumas GD	6/19/2022 12:00:00 AM	6.230000
NW Sumas GD	6/20/2022 12:00:00 AM	6.230000
NW Sumas GD	6/21/2022 12:00:00 AM	6.230000
NW Sumas GD	6/22/2022 12:00:00 AM	5.915000
NW Sumas GD	6/23/2022 12:00:00 AM	6.205000
NW Sumas GD	6/24/2022 12:00:00 AM	5.930000
NW Sumas GD	6/25/2022 12:00:00 AM	5.610000
NW Sumas GD	6/26/2022 12:00:00 AM	5.610000
NW Sumas GD	6/27/2022 12:00:00 AM	5.610000
NW Sumas GD	6/28/2022 12:00:00 AM	4.545000
NW Sumas GD	6/29/2022 12:00:00 AM	5.045000
NW Sumas GD	6/30/2022 12:00:00 AM	5.010000

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In this example, by selling the monthly term product FEI would have diversified the sale price of some of its excess supply volumes across the month of June and recovered more per unit on average than taking the same volumes and selling at the daily price. Because the daily prices averaged \$6.8975 USD/MMBTU, or below the monthly price, FEI would have sold 25,000 GJ per day at an average price of \$8.75 USD/MMBTU and the remaining 50,000 GJ per day at a lower price based on the daily market results as in the table above. For the 25,000 GJ per day of monthly sales volumes this is an increased recovery of costs for ratepayers.

9 The appropriate benchmark for the sale of 25,000 GJ per day monthly sale would be the IFERC10 monthly index and not the Platts Gas Daily index.

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1.2 Please explain possible constraints that could impact the operational feasibility of the Monthly Commodity Resale Mitigation activity.

6 **Response:**

7 Whether there are constraints that could potentially impact the operational feasibility of Monthly

8 Commodity Resale Mitigation activity depends on whether FEI is selling the excess commodity at

9 the same market hub at which FEI purchased the commodity, or delivering the excess commodity

10 on a pipeline to a downstream market.

11 When FEI sells excess commodity at the same market hub at which FEI purchased the 12 commodity, the sale does not depend on the transportation of the commodity and, therefore, FEI 13 does not foresee the potential for constraints that could impact the operational feasibility of the

14 Monthly Commodity Resale Mitigation activity.

15 When FEI transports the excess commodity on a pipeline and sells the excess commodity as a 16 delivered product downstream. FEI may encounter unexpected operational challenges, such as 17 capacity constraints and compressor outages, due to unplanned maintenance or pipeline health 18 and operational conditions. FEI's approach involves viewing the major regional transmission 19 pipelines and storage facilities published summer maintenance plan and monthly forecast as the 20 basis for all activities including decisions on monthly commodity transactions to ensure we have 21 a diversified migration portfolio

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- 25 1.3 Please explain the Platts Inside FERC's Gas Market Report – Monthly Bidweek 26 Spot Gas Prices index. Please include the methodology of the index in the 27 explanation.
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29 Response:

30 Platts Inside FERC's Gas Market Report – Monthly Bidweek Spot Gas Prices (IFERC) is 31 published on the first business day of the month in which monthly transactions will flow. It is the 32 recognized industry standard for setting gas prices within the gas marketplace.

33 The publication provides the Monthly bidweek spot gas prices, Bidweek Physical basis prices, 34 Platts monthly Canadian OTC Indices, Monthly bidweek spot gas prices for InterContinental

- 35 Exchange (ICE) locations and Monthly bidweek spot gas prices- ICE locations.
- 36 As stated on the Platts website:



1 "In the monthly market, gas is priced for flow on each day of the month at specified 2 volumes. Transaction data is collected for the three days of bidweek, and Platts prices are published on the first business day of the month in which the gas will 3 4 flow. Platts publishes two price components: the index and the absolute range. 5 The index is the volume-weighted average of all the transactions submitted to 6 Platts that are used to calculate the index for each point. The absolute range shows 7 the absolute low and high of deals submitted, excluding outliers that are not used 8 (see section below on outliers). Platts publishes fixed prices to two decimal places 9 and basis prices to three decimal places. In the monthly market Platts uses both 10 physical fixed-price and physical basis transactions. In those basis transactions, 11 the basis value is negotiated on any bidweek day and the price is set by the final 12 settlement value of the NYMEX contract plus or minus the negotiated basis. The 13 NYMEX futures contract typically expires on the third-to-last business day of the 14 month."1

For reference, Bidweek is the first 3 days of the last 5 business days immediately preceding the
first of the month. Platts publishes this schedule annually and FEI makes note of these Bidweeks
in their monthly planning.

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- 21 On page 2 of Appendix E to the Application, the Atrium Economics GSMIP Report, Atrium 22 explains:
- The GSMIP consists of the term sheet which provides the definition, methodology and benchmarking for calculating FEI's performance and mitigation incentive, as well as an Excel model which captures the related data and provides calculations and results. Each year FEI files a Winter Report and Year-end Report with the BCUC, including the model and supporting appendices. The Year-end Report is also audited by FEI's internal audit group, providing a letter of reasonableness to support the mitigation incentive payment to FEI.
- 301.4Please explain the costs and benefits to ratepayers of potentially replacing the31internal audit group with an independent auditor for the GSMIP Year-end Report.
- 32
- 33 Response:

Replacing the internal audit group with an external auditor for the GSMIP Year-end Report would not provide any increased benefits to ratepayers, but would increase costs. Continuing to use

https://www.spglobal.com/commodityinsights/PlattsContent/_assets/_files/en/our-methodology/methodologyspecifications/us_canada_gas.pdf.



- 1 the Internal Audit group for the GSMIP Year-end Report provides benefits and cost savings to
- 2 FEI's customers and remains reasonable and cost effective for two primary reasons.
- 3 First, the Internal Audit group is part of FortisBC Holdings Inc. and independent from FEI. The
- 4 Internal Audit group therefore provides customers with an independent review. For this reason,
- 5 FEI does not see any increased benefits from using an external auditor.
- 6 Second, the Internal Audit group has familiarity and established knowledge of FEI's gas 7 operations and how the GSMIP operates, which provides greater efficiency and lower costs in
- 8 reviewing the GSMIP Year-end Report as comparted to engaging an external auditor.

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12.0Reference:CURRENT GSMIP REVENUE, INCENTIVE PAYMENT AND 20222REVIEW

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Exhibit B-1, Appendix D-3, Slide 25

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Natural Gas, LNG and RNG On page 9 of the Application, FEI provides Table 2, which shows the mitigation revenue that is eligible for inclusion under GSMIP for the purposes of determining the incentive

- 7 earned by FEI and incentive payments achieved since 2011/12.
- 8 2.1 Please provide an update of Table 2 including an additional column showing the 9 mitigated natural gas volumes for each natural gas contracting year under the 10 program.
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12 **Response:**

An updated Table 2, including an additional column showing the mitigated natural gas volumes
 for each natural gas contracting year under the program, is provided below. The Eligible Mitigation

15 Revenue includes all GSMIP Mitigation activities:

- 16 1. Benchmarked Activities such as Transportation mitigation and Commodity Resale
- Activities with no market benchmark such as Extraction, pooling, Nova Capacity releases
 and Commodity Resale in the Interior
- 19 3. Storage and Forward commodity sales
- 20 4. New Activities
- 21 The additional column on the far right of the table provides the volume associated with only the
- Excess Commodity Resale activities which are only a portion of that Eligible mitigation Revenue dollars presented in the first column.
- 24

Updated Table 2 Showing Mitigated Natural Gas Volumes

Gas Contract Year	Eligible Mitigation Revenue	Incentive Earned ⁽¹⁾		Customer Savings		Mitigated Natural Gas Volumes	
	\$Million	\$Million	% ⁽²⁾	\$Million	% ⁽²⁾	Commodity Sales (GJ)	
2020/21	\$80.58	\$2.50	3.11%	\$78.08	96.89%	24,996,375	
2019/20	\$58.38	\$1.46	2.50%	\$56.92	97.50%	27,542,090	
2018/19	\$126.22	\$3.13	2.48%	\$123.09	97.52%	24,520,449	
2017/18	\$102.60	\$2.59	2.52%	\$100.01	97.48%	18,322,065	
2016/17	\$97.18	\$2.38	2.45%	\$94.80	97.55%	15,764,913	
2015/16	\$78.15	\$2.08	2.66%	\$76.07	97.34%	27,317,866	
2014/15	\$72.25	\$2.06	2.85%	\$70.19	97.15%	22,135,231	
2013/14	\$39.47	\$1.23	3.12%	\$38.24	96.88%	12,867,742	
2012/13	\$48.82	\$1.44	2.95%	\$47.38	97.05%	17,067,216	
2011/12	\$27.70	\$0.89	3.21%	\$26.81	96.79%	12,555,795	
Total	\$731.36	\$19.76	2.70%	\$711.60	97.30%		

FORTIS BC^{**}

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Response to British Columbia Utilities Commission (BCUC) Infomation Request (IR) No. 1

2.1.1 Please explain any significant trends between years. As a part of your answer, please discuss what factors impact the volume of mitigated natural gas for each year.

8 **Response:**

9 Table 2 provides the mitigation revenue eligible for inclusion under GSMIP, including incentive

10 payments and customer savings, and has been updated in FEI's response to BCUC IR1 2.1 to 11 include Mitigated Natural Gas Volumes under Commodity Sales.

12 Since the 2011/12 GSMIP year and through the 2020/21 GSMIP year, there has been an 13 increasing trend across all factors, including eligible mitigation revenue, incentive earned, 14 customer savings, and mitigated natural gas volumes.

15 In any given year the volumes of mitigated natural gas through commodity sales are primarily a 16 function of FEI's core customer load requirements, weather and temperature events, planned and 17 unplanned maintenance on regional transmission pipelines, supply disruptions and capacity

18 constraints, and regional markets dynamics in response to broader supply and demand events.

19 One contributing factor since the 2018/19 GSMIP year is that FEI has worked to develop an intra-20 day market at Huntingdon/Sumas with counterparties that hold take-away capacity on the 21 Northwest Pipeline system to downstream markets. Typically, in the past, FEI would balance any 22 length on a given day by adjusting the Aitken Creek nomination, whether withdrawing or injecting. 23 FEI now considers opportunities to sell excess commodity at Huntingdon/Sumas, Station 2 and 24 AECO/NIT as an option rather than just balancing with storage.

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- 28 On Slide 25 of Appendix D-3 to the Application, FEI states, "LNG [liquified natural gas] 29 exports have tied NA natural gas marketplace into other commodities markets worldwide 30 (ie oil/ Asian/Europe)."
- 31 Later in Appendix D-3, FEI identifies Mt. Hayes LNG and Tilbury LNG as storage facilities.
- 2.2 How does the changing and expanding LNG export market in BC affect the GSMIP 32 33 model with new liquefaction facilities, such as LNG Canada and Woodfibre LNG, 34 expected to begin operation in the next few years?
- Do the new LNG projects pose issues and/or opportunities for the GSMIP 35 2.2.1 36 model?

FORTIS BC^{**}

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- 2.2.2 Do on-system and off-system LNG projects have different implications for GSMIP model?
- 4 **Response:**

5 The LNG export market in BC, such as the future LNG Canada (i.e. off-system project) and 6 Woodfibre LNG (i.e. on-system project) projects, will not directly affect the GSMIP model, in terms 7 of posing issues or opportunities, but will be another variable in the supply and demand balance 8 for the natural gas marketplace in the Pacific Northwest. The resulting regional changes due to 9 these operations could indirectly affect the inputs to the GSMIP model, such as prices out of the

10 supply basins or into the market demand centres.

11 LNG Canada, located on the northwestern coast of BC, could be operational by 2025. This project 12 will draw feed supply from northeastern BC and Alberta through its own supply link (TC Energy's 13 Coastal Gaslink pipeline). Once in-service, there could be upward or downward pressure on the 14 regional prices (i.e., Station 2 and AECO/NIT), depending on the operating conditions of this 15 project (i.e. how much natural gas the facility is consuming). Further, although LNG Canada will 16 increase the demand for natural gas in general, it is expected that supply from the Western 17 Canada Sedimentary Basin will grow to offset some or all of this new demand. Therefore, there 18 is no certainty to how the LNG Canada project will impact prices at Station 2 or AECO/NIT.

Woodfibre LNG will operate on the southwestern coast of BC and also draw feed supply from northeastern BC through the T-South system. However, this project already has contracted a significant portion of the transportation capacity it will need on the Westcoast's T-South system to supply its facility (~300 MMcf/day). Currently, that capacity is being used to serve existing market demand. Therefore, when this project becomes operational, and absent any new pipeline infrastructure, it is likely to cause significant upward pressure on the Huntingdon/Sumas price.

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On May 25, 2021, the Lieutenant Governor in Council approved Order in Council (OIC)
306/2021, and amended the Greenhouse Gas Reduction (Clean Energy) Regulation
(GGRR), which among other things, repealed and replaced section 2 (3.8) to state:

- 31 (3.8) The public utility acquires renewable natural gas
- 32 a) at costs that meet the following criteria, as applicable:
- (i) if the public utility acquires renewable natural gas by purchasing it, the price of
 the renewable natural gas does not exceed the maximum amount, determined in
 accordance with section 9, in effect in the fiscal year in which the contract for
 purchase is signed;
- (ii) if the public utility acquires renewable natural gas by producing it, the levelized
 cost of production reasonably expected by the public utility does not exceed the



1 maximum amount, determined in accordance with section 9, in effect in the fiscal 2 year in which the public utility decides to construct or purchase the production 3 facility, and 4 b) that, in a calendar year, does not exceed 15% of the total amount, in GJ, of natural 5 gas provided by the public utility to its non-bypass customers in 2019, subject to 6 subsection (3.9) and section 10; 7 2.3 Please discuss how a growing renewable natural gas (RNG) portfolio may 8 potentially impact the proposed GSMIP extension and mitigation activities. 9 10 **Response:** 11 FEI does not see any potential impact to the proposed GISMIP extension and mitigation activities 12 from FEI's growing renewable natural gas (RNG) portfolio. 13 Over the GSMIP extension period of November 1, 2022 through October 31, 2025, FEI anticipates 14 that all of the RNG supply acquired over that period will be consumed and allocated to core 15 customer use. Further, there are no RNG deal structures or prices for FEI to use as a benchmark, 16 given that this market is still in early stages of development. 17 However, should there come a time when FEI's RNG supply is greater than the demand and the 18 RNG off-system market is more mature, FEI may bring forward an application for the development 19 of a new GSMIP mitigation activity based on RNG for BCUC consideration. 20 21 22 23 2.4 Does FEI view RNG as a potential new mitigation activity in the coming years given 24 the expanding role it plays in FEI's overall gas portfolio? 25 2.4.1 Please explain any challenges in developing a mitigation activity 26 involving RNG. 27 28 **Response:** 29 Please refer to the response to BCUC IR1 2.3. 30 31 32 2.5 33 Please explain if FEI views the attributable environment credit associated with the 34 RNG as a potential opportunity for future mitigation activity. 35



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1 Response:

While FEI does view the environment attributes associated with RNG as a potential opportunity for future mitigation activity, FEI has not explored mitigation activities of attributable environmental credits at this time. As discussed in the response to BCUC IR1 2.3, FEI anticipates that all of the RNG supply will be consumed and allocated to core customers over the GSMIP extension period.

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- 9 2.6 Please explain if any market indices currently exist for RNG and/or its associated 10 environmental credits.
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12 Response:

FEI is not aware of any market indices that exist for RNG or that would be transactable at thistime.

There are existing markets for associated environmental credits; however, the jurisdictionaltreatment of these attributes vary by region.

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