

Sarah Walsh

Director, 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: (778) 578-3861 Cell: (604) 230-7874 Fax: (604) 576-7074 www.fortisbc.com

September 7, 2023

B.C. Sustainable Energy Association c/o William J. Andrews, Barrister & Solicitor 70 Talbot Street Guelph, ON N1G 2E9

Attention: William J. Andrews

Dear William J. Andrews:

Re: FortisBC Energy Inc. (FEI)

Application for Acceptance of Demand Side Management (DSM) Expenditures Plan for the Period Covering 2024 to 2027 (Application)

Response to the B.C. Sustainable Energy Association (BCSEA) Information Request (IR) No. 1

On July 12, 2023, FEI filed the Application referenced above. In accordance with the regulatory timetable established in British Columbia Utilities Commission Order G-178-23A for the review of the Application, FEI respectfully submits the attached response to BCSEA 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 Sarah Commander, Regulatory Projects Manager, at (250) 469-6081.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Sarah Walsh

Attachments

cc (email only): Commission Secretary

Registered Parties



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 1

1.0 Topic: GHG Emissions Reductions

Reference: Exhibit B-2, Table 1-3: Planned Energy Savings & GHG
Emission Reductions from DSM, pdf p.11

1.1 Can the GHG emissions reductions shown in Table 1-3 for the years 2023 to 2027 be compared apples to apples with BC's legislated GHG emissions reduction targets?

78 Response:

FEI understands this question to be asking whether the GHG emissions savings in Table 1-3 of the Application would reduce the provincial GHG emissions inventory at a comparable basis.

FEI determines the GHG emissions savings from FEI's DSM Plan by comparing the gas consumption savings of the DSM program in the years 2023 through 2027 to a counterfactual reference scenario where those savings are not realized (i.e., they represent a combination of both actual customer emissions reductions and avoided emissions). This means that the values calculated in Table 1-3 are not directly comparable to the provincial GHG emissions inventory. Despite this, the GHG savings achieved through FEI's DSM Plan are real and account for GHG emissions reductions based on consumer behavior and technology adoption that would not have feasibly occurred without the incentives in FEI's DSM Plan.

1.2 Please confirm, or otherwise explain, that the Lifetime Net GHG Reductions shown in Table 1-3 are not directly comparable with BC's legislated GHG emissions reduction targets.

Response:

- Confirmed. BC's legislated GHG emissions reduction targets are intended to result in an absolute amount of total GHG emissions and are not comparable to the lifetime net GHG reductions shown in Table 1-3 of the Application, which represent the sum of the annual savings avoided by higher energy efficiency equipment and programs. In particular, BC's legislated reduction targets are totals while the values presented in Table 1-3 are net values and are, therefore, not comparable.
- The GHG emissions savings from energy efficiency incentives in the 2024-2027 DSM Plan still meaningfully contribute towards BC's legislated GHG emissions reduction targets. In particular, the incentives drive lower gas consumption and the resulting reduction of GHG emissions.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 2

2.0 Topic: Gas Savings and Reference Case

Reference: Exhibit B-2, Appendix D, Conservation Potential Review; Table 1-3: Planned Energy Savings & GHG Emission Reductions from DSM, pdf p.11

The CPR states:

"As explained in Section 3.2 Base Year Energy Use Model Development, the reference case begins with the base year values and forecasts natural gas use based on exogenous conditions that follow a "business-as-usual" scenario. The reference case for the CPR is intended to represent the baseline from which calculation of new potential can be calculated. It considers current energy consumption patterns and known future changes, including expected customer growth, current and known future changes to codes and standards, and natural replacement of equipment at end of life. The reference case does not account for potential changes in fuel share or end use saturations, except those that would occur incidentally because of different rates of new construction for different types of buildings or in the different regions.

The reference case starts with actual 2019 consumption, which includes all DSM activity up to that point. The subsequent years of the reference case incorporate natural conservation, such as the natural turnover of furnaces and other appliances. It does not include conservation from DSM activities carried out after 2019." [pdf p.244, underline added]

2.1 Please confirm, or otherwise explain, that Net incremental gas savings shown in Table 1-3 are in relation to the reference case in the 2021 Conservation Potential Review.

Response:

Not confirmed. The net incremental gas savings shown in Table 1-3 of the Application are not related to the reference case in the 2021 Conservation Potential Review (CPR). Instead, these values are calculated in the 2024-2027 DSM Plan using a bottom-up approach. To estimate the net incremental gas savings for each measure in the DSM Plan, the measure's assumed gas savings are multiplied by the forecast participation in each year for that measure. These savings are then summed to present the incremental gas savings at the program area and portfolio level.

2.2 Will the 2024-2027 DSM Plan induce any changes in fuel share or end use saturations, except those that would occur incidentally because of different rates

of new construction for different types of buildings or in the different regions?



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 3

If so, please explain how such changes reflected in the Planned Energy 2.2.1 1 2 Savings and associated GHG Reductions shown in Table 1-3? 3 2.2.2 If not, please explain why FEI is confident that the expected gas savings 4 from the 2024-2027 DSM Plan do not include gas savings from 5 participants who would not have been gas customers in the reference 6 case. 7 8 Response: 9 No, the 2024-2027 DSM Plan does not induce changes in fuel share or end use saturation. FEI 10 is confident that the expected gas savings from the 2024-2027 DSM Plan do not include gas 11 savings from participants who would not have been gas customers in the reference case as the 12 DSM Plan does not include any fuel switching measures (i.e., programs that switch end uses to 13 gas or switch end uses completely away from gas). 14 In new construction programs, the 2024-2027 DSM Plan encourages efficient buildings using dual 15 fuel hybrid systems or gas heat pumps for space and water heating. As such, the goal of FEI's 16 new construction programs is to encourage customers to adopt high-efficiency advanced gas 17 space and water heating equipment and higher steps of the BC Energy Step Code should 18 customers choose gas for those systems. 19 20 21 22 2.3 Has FEI considered whether the 2024-2027 DSM Plan would change the fuel 23 share or end use saturations, except those that would occur incidentally because 24 of different rates of new construction for different types of buildings or in the 25 different regions? 26 27 Response: 28 Please refer to the response to BCSEA IR1 2.2. 29 30 31 32 2.4 Has FEI considered how the customer costs and incentives for natural gas 33 solutions under the 2024-2027 DSM Plan compare with the customer costs and 34 available incentives for electricity solutions? 35

Response:

36

37

38

FEI does not directly compare customer costs for customers participating in FEI's DSM program with projects resulting from other organizations' programs (including those offering electric energy



FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 4

efficiency and electrification incentives). The role of FEI's DSM Plan is to encourage customers 1 2 that choose gas to use gas more efficiently. 3 4 5 6 2.5 Can FEI say that the 2024-2027 DSM Plan is not intended to increase the market 7 share of natural gas compared to that of electricity? 8 9 Response: 10 Confirmed. The 2024-2027 DSM Plan is not intended to increase the market share of natural gas 11 compared to that of electricity. 12 13 14 15 2.6 Can FEI say that the 2024-2027 DSM Plan is not aimed at retaining and expanding 16 FEI's customer base? 17 18 Response: 19 The 2024-2027 DSM Plan is not designed to retain or expand FEI's customer base. Rather, 20 consistent with the amended DSM Regulation, FEI designed the DSM Plan to continue supporting 21 customers who choose gas to use gas more efficiently and support provincial GHG reduction 22 policies. 23 24 25 26 2.7 Please confirm, or otherwise explain, that in developing the 2024-2027 DSM Plan 27 FEI did not take into account low-carbon electrification alternatives to the advanced 28 gas DSM measures in the Plan. 29 30 Response: 31 Confirmed. In the 2024-2027 DSM Plan, FEI did not take into consideration any electrification 32 measure that resulted in complete fuel switching of a particular end-use (e.g., switching from gas 33 to an electricity-only energy system). 34 35



FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 5

In estimating the total incremental gas savings and the GHG emissions reductions associated with the 2024-2027 DSM Plan, what assumptions did FEI make regarding whether FEI's proposed Renewable Gas Connections Program is approved or denied?

Response:

2.8

The total forecast incremental gas savings and GHG emission reductions in the DSM Plan did not consider the proposed Renewable Gas Connections Program which, at the time of Application filing, remains under review by the BCUC.



38

39

GHG emissions.

FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 6

3.0 Topic: **GHG Reduction Standard** 1 2 Reference: Exhibit B-2, 1.1 Government Policy and the Demand-Side 3 Measures Regulation, pdf p.7; Table 1-3: Planned Energy Savings & 4 GHG Emission Reductions from DSM, pdf p.11 5 FEI states: "The Roadmap introduced the concept of "a GHG emissions cap that will require 6 7 gas utilities to undertake activities and invest in technologies to further lower GHG 8 emissions from the fossil natural gas used to heat homes and buildings and power 9 some of our industries."8 The Roadmap states that utilities will determine how best 10 to meet the target, including by supporting greater energy efficiency, and that "the B.C. Utilities Commission will have a mandate to review gas utilities' plans, 11 12 investments and expenditures to ensure they're aligned with the GHG emissions 13 cap and cost effective".9 While the GHG emissions cap has not yet been 14 implemented, this policy direction from Government highlights the importance of FEI's DSM portfolio as a tool to reduce emissions." [pdf p.7, underline added] 15 In FEI's 2022 Long-Term Gas Resource Plan, FEI states: 16 17 "The GHGRS [GHG Reduction Standard] is the first of its kind in Canada, and will mandate FEI to invest in carbon saving technologies and solutions to displace 18 natural gas consumption by 2030. As described in the report, "the cap will be set 19 20 at approximately 6 Mt of CO_{2e} per year for 2030, which is approximately 47 percent lower than 2007 levels." The GHGRS would require a GHG reduction of 21 22 approximately 5.5 Mt of CO_{2e} [per year], which is equivalent to displacing 23 approximately half of the natural gas delivered by FEI. 24 Additionally, the GHGRS imposes a target of a 61 percent emissions reduction in 25 the buildings sector by 2030. This is an aggressive goal that disproportionately 26 impacts FEI, and is more representative of a 2040 target, thereby requiring a more 27 rapid transition in the buildings sector at greater cost and risk. 28 It is anticipated that the GHGRS policy framework will enable FEI to invest in a 29 broad set of GHG-saving actions such as increasing renewable and low-carbon 30 gases and incenting higher levels of energy efficiency and other measures. 31 Although many uncertainties remain for FEI, the 2022 LTGRP provides context 32 around FEI's approach to addressing the Roadmap. FEI will continue to work with 33 the Province and other stakeholders to further clarify issues and implications for 34 FEI and its customers. [pp. 2-9 – 2-10, pdf pp. 75-76, footnotes removed] 35 3.1 Please provide a version of Table 1-3 that shows the reference case natural gas consumption, the Total Incremental Gas Savings as a percentage of the reference 36

case natural gas consumption, the GHG emissions associated with the reference

case, and the GHG Emissions Reductions as a percentage of the reference case



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 7

2 Response:

3 Please refer to the updated version of Table 1-3 below.

Updated Table 1-3: Planned Energy Savings & GHG Emission Reductions from DSM

Indicator	Year	Total Incremental Gas Savings (GJ / yr)	GHG Emissions Reduction (t CO2e / yr)	Reference Case Natural Gas Consumption (GJ)	Total Incremental Savings as % of Reference Case Consumption	Reference Case GHG Emissions (t CO2e / yr)	GHG Emissions Reduction as Percentage of Reference Case Emissions
	2023	1,601,386	82,632	204,654,024	0.8%	10,560,148	0.8%
Net	2024	860,118	44,382	201,014,384	0.4%	10,372,342	0.4%
Incremental	2025	887,737	45,807	199,190,226	0.4%	10,278,216	0.4%
Annual Gas	2026	1,021,299	52,699	197,426,237	0.5%	10,187,194	0.5%
Savings and GHG	2027	1,127,874	58,198	195,389,514	0.6%	10,082,099	0.6%
Reductions	2024 - 2027	3,897,028	201,087	-	-	-	-
Lifetime Net Gas Savings and GHG Reductions		14,433,377	744,762	-	-	-	-

3.2 Please confirm, or otherwise explain, that 2024-2027 Net Incremental Annual GHG Emissions Reductions of 201,087 t CO_{2e}/yr is equivalent to approximately 0.000201 Mt t CO_{2e}/yr.

Response:

Not confirmed. The 2024-2027 Net Incremental Annual GHG Emissions Reductions of 201,087 t CO_{2e}/yr is equivalent to approximately 0.201 Mt CO_{2e}/yr .

3.3 Please comment on the observation that the amount of GHG reductions from the 2024-2027 DSM Plan is not material in relation to the amount of GHG reductions contemplated in the GHG Reduction Standard.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 8

Response:

- 2 FEI does not agree with BCSEA's premise that the GHG reductions in the 2024-2027 DSM Plan
- 3 are not material in relation to achieving the reductions contemplated in the potential GHG
- 4 Reduction Standard (GHGRS), which has not yet been legislated.
- 5 As reported in the 2022 LTGRP Diversified Energy Planning scenario, which indicatively
- 6 achieves the reductions contemplated by the GHGRS, DSM enables up to approximately 0.9
- 7 Mt/yr of GHG reductions by 2030. The DSM Plan forecasts GHG emissions reductions of 0.2
- 8 Mt/yr of GHG by 2027, and many emissions reductions persist past 2030. While further reductions
- 9 would be needed to achieve the 0.9 Mt/yr potential post-2027, the DSM Plan would achieve over
- 10 20 percent of the total required abatement from the DSM pillar in the Diversified Energy Planning
- 11 scenario.
- 12 The amendments to the DSM Regulation have also reduced the savings potential of FEI's DSM
- 13 programming to 2027. As a result of these amendments, FEI has proposed to provide incentives
- that enable and accelerate market transformation toward more efficient technology options that
- are currently in earlier market adoption phases. For example, dual fuel hybrid heating, deeper
- 16 retrofits, and other more advanced DSM opportunities will require a ramp-up phase which is
- 17 reflected in the lower overall savings across the Plan. Ultimately, however, FEI considers that the
- investments proposed in the DSM Plan will lead to substantially larger savings required post-2027
- 19 to achieve the goals that are anticipated under the potential GHGRS.

2021

22

23 24

25

28

3.4 In FEI's view, why should the BCUC conclude that the 2024-2027 DSM Plan is aligned with the GHG Reduction Standard?

26 Response:

27 The GHGR

The GHGRS has not yet been legislated by the Province; nonetheless, FEI expects that DSM is one of the pathways to be enabled by the Province to comply with the GHGRS, and the DSM

29 Plan has been designed to align with provincial emission reduction policies. Please also refer to

30 the response to BCSEA IR1 3.3.

31 32

33

3.5 In developing the 2024-2027 DSM Plan, did FEI consider a total (or partial) ban on new customer connections as a method of contributing to FEI meeting the GHG

Reduction Standard? If so, why was this rejected? If not, why not?

Section 9 <a href="https://www.cdn.fortisbc.com/libraries/docs/default-source/about-us-documents/regulatory-affairs-documents/gas-utility/220509-fei-2022-ltgrp-ff.pdf?sfvrsn=cbf19584_0.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 9

2 Response:

- FEI did not consider a total (or partial) ban on new customer connections as such a measure is outside of the scope and purpose of its DSM programming.
- 5 The purpose of FEI's DSM Plan and subsequent programming is to encourage gas customers to
- 6 use gas more efficiently. As described in the response to BCSEA IR1 3.3, FEI's DSM
- 7 programming will form an important component of its overall GHG reduction plan to comply with
- 8 prospective provincial GHG policies, such as the proposed GHGRS. However, the DSM Plan
- 9 itself is not intended to be an overall GHG reduction plan. FEI will conduct a broader assessment
- 10 of the measures and pathways required to achieve the goals of the GHGRS when more detail is
- 11 provided by the Province.
- 12 Section 4.4 of the Application presents FEI's guiding principles in developing the utility's DSM
- programming. The first principle of FEI's DSM portfolio is that "Programs will have a goal of being
- universal, offering access to energy efficiency and conservation for all residential, commercial,
- and industrial customers, including low income customers." As all customer segments continue
- to choose to use gas in new buildings, FEI DSM's activities will continue to encourage customers
- 17 that choose gas to adopt the highest efficiency gas equipment and improve overall building
- 18 performance.



FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
2024-2027 Demand-Side Management (DSM) Experiations 1 an Application (Application)	September 7, 2025
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 10

1	4.0	Topic: Collaboration with Electric Utilities and Government Programs
2		Reference: Exhibit B-2,
3 4 5 6		For the Industrial Program Area, the 2024-2027 DSM Plan includes a Strategic Energy Management (SEM) offer administered in collaboration with BC Hydro as the electric utility outside of FortisBC's shared service territory and with FBC within FortisBC's shared service territory. [Exhibit B-2, pdf p.67]
7 8		In relation to the feedback point "Desire for alignment with BC Hydro and Provincial Program Offers," FEI states:
9 10 11		"• Proposed to continue to partner with BC Hydro and Ministry of Energy, Mines and Low Carbon Innovation on Home Renovation Rebate, Continuous Optimization (i.e. recommissioning), and Strategic Energy Management Programs
12 13		 Proposed to continue to partner with BC Hydro on programs for low income customers, charities, non-profit housing providers, and Indigenous Communities
14 15		 Proposed to continue to pursue dialogue with other program entities to streamline offers where possible" [Exhibit B-2, Table 4-1, pdf p.18]
16 17 18		4.1 Please identify the ways in which the 2024-2027 DSM Plan includes alignment with BC Hydro and Provincial program offers.

Response:

In the table below, FEI provides an overview of how the 2024-2027 DSM Plan aligns with BC Hydro and provincial program offers by program area.

Table 1: 2024-2027 DSM Plan Alignment with BC Hydro and Other Offers

Program Area	Areas of Alignment
Residential	FEI co-delivers the Home Renovation Rebate (HRR) with FortisBC Inc. (FBC), BC Hydro and the Province to ensure that participation is accessible and consistent across the province for residential customers in existing homes. In alignment with program partners, FEI will continue to encourage whole-home retrofits by offering a suite of incentives including insulation, windows and doors, high-efficiency mechanical systems, and home performance improvements.
Commercial & Industrial	FEI co-delivers the Continuous Optimization offer and the Industrial Strategic Energy Management (SEM) offer with FBC and BC Hydro. When launched, FEI intends to co-deliver the Commercial SEM offer as well.
Low Income	FEI co-delivers the Self Install and Direct Install Programs with FBC and BC Hydro. This partnership enables collaboration on varying aspects of program design and promotion and ensures that program offers for Low Income residential customers are accessible and consistent.
Indigenous	FEI collaborates with FBC, BC Hydro and the Province on program offers for Indigenous communities to ensure consistency and accessibility, where applicable, across the province. This includes exploring opportunities to cost share and/or stack funding for the benefit of maximizing support to communities.
Enabling Activities	FEI will continue to partner with FBC, BC Hydro and the Province on industry capacity building and quality installation training initiatives including support for the Home Performance Contractor Network.



FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 11

1 2 4.2 In developing the 2024-2027 DSM Plan, did FEI consider a measure to help incent a gas customer to convert from a gas furnace to an electric heat pump for space heating, for example in climate zone 4 or 5, in cooperation with the electricity utility or the government?

6 7

Response:

- 8 FEI did not consider a measure to incent a gas customer to convert from a gas furnace to an electric heat pump (without gas backup) for space heating in developing the 2024-2027 DSM Plan.
- FEI partners with BC Hydro, FBC, and the Province on the Home Renovation Rebate (HRR) program which includes existing incentives for customers converting from a gas furnace to an
- electric heat pump (without gas backup) funded by the Province and BC Hydro. FEI will continue to collaborate with partners during the DSM Plan period, including incenting dual fuel hybrid
- 15 heating systems under the HRR program.

16

17 18

4.3 Does the 2024-2027 DSM Plan include only measures that retain the use of gas equipment?

202122

23

24

25

19

Response:

Yes, the 2024-2027 DSM Plan only includes energy efficiency measures that retain the use of gas. However, some energy efficiency measures include incentives for electric equipment when paired with gas equipment.

2627

28 29

30 31 4.3.1 Does the Plan include any low carbon electrification measures?

Response:

- The DSM Plan does not include any measures that promote the adoption of fully-electric appliances, either for retrofits or new construction. However, it does include energy efficiency measures that result in partial electrification, such as dual fuel hybrid systems.
- FBC also administers some CleanBC low-carbon electrification offers in the FBC electric service territory that are separate from the FBC and FEI DSM Plans.



FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 12

 4.3.2

Do all of the "advanced DSM measures" involve continuing use of natural gas?

Response:

Yes, advanced DSM measures involve the continued use of gas, although several of these measures also include partial electrification. Importantly, these measures also encourage a more efficient use of gas by customers and provide customers with an option where full electrification alternatives are not technically or economically feasible.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 13

1	5.0	Topic	: Legacy Program Area
2 3 4			Reference: Exhibit B-1, Appendix A, FEI 2024-2027 DSM Plan Report, Chapter 12 Legacy Expenditures, pdf p.91, et seq., Exhibit 21 – Legacy Program Area Expenditures [pdf p.92]
5		In Tab	ole 5-5: DSM Plan Compliance with DSM Regulation, FEI states
6			FEI intends to support two types of legacy expenditures:
7 8		a)	Those for customers with written commitments from FEI made prior to December 31, 2023 for class B demand-side measures.
9 10 11		b)	Those for customers participating in DSM programs that do not provide written commitments but meet the program terms and conditions and purchase and/or install a class B demand-side measure before December 31, 2023.
12 13 14 15			These include incentives for residential, low income, Indigenous, and commercial customers primarily related to the installation of conventional high-efficiency space and water heating equipment including furnaces, domestic water heaters, boilers and roof-top units.
16 17 18 19			To comply with this provision of the amended DSM Regulation, FEI is proposing a Legacy Expenditures Program Area that includes the above legacy expenditures. The cost-effectiveness of these measures are subject to the provisions of the pre-June 30, 2023 DSM Regulation,24 including using the TRC and mTRC tests.
20 21 22 23			No new written commitments will be made for class B demand-side measures after December 31, 2023. Class B demand-side measures purchased and/or installed after December 31, 2023 from programs that do not have written commitments will similarly not be eligible for incentives.
24 25			See Section 12 of Appendix A, and Appendix B to the Application, for additional details regarding these expenditures." [Exhibit B-1, pdf p.36]
26 27		5.1	Does FEI consider that the amended DSM Regulation <u>requires</u> FEI to include class B demand-side measures in the 2024-2029 DSM Plan?

Response:

No, FEI is not required under the amended DSM Regulation to include class B demand-side measures as part of its DSM programming. The inclusion of these measures enables customers who choose gas for space and water heating to use gas more efficiently, ultimately reducing their costs and reducing gas usage.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 14

5.2 Is there any reason that FEI could not immediately stop making new written commitments to provide incentives for class B demand-side measures?

2 3 4

5

6

7

8

1

Response:

FEI could stop making new written commitments to provide incentives for class B demand-side measures before December 31, 2023; however, this would have negative impacts. Please refer to the response to BCUC IR1 11.5 for the consequences of FEI withdrawing legacy commitments earlier than anticipated.

9

10

11 12

13

5.3 Please provide a version of Exhibit 21 showing Legacy Program Area Expenditures if FEI was to terminate as of the date of the responses to IR1 new written commitments to provide incentives for class B demand-side measures.

14 15 16

Response:

- 17 The following table is a version of Exhibit 21 assuming FEI stops written commitments as of
- 18 August 31, 2023. Please note that in this scenario FEI would still honor expenditures for
- 19 purchases made up until December 31, 2023, given the question's focus on new written
- 20 commitments from FEI.
- 21 FEI forecasts that the termination of new written commitments would impact the following Legacy
- 22 Program Area expenditure programs:
- Residential New Home;
- Indigenous Performance;
- Low Income Prescriptive;
- Commercial Performance Program Existing Buildings; and
- Commercial Performance Program New Construction.
- 28 FEI notes that these programs are being executed under the BCUC accepted 2023 DSM
- 29 Expenditure Plan Application and the removal of DSM programs from the market requires
- 30 advanced notification to customers, trade allies, and program partners in order to appropriately
- 31 manage expectations and introduce successor offers to the market. For these reasons, FEI does
- 32 not support terminating new written commitments within the Legacy Program Area prior to the
- and of 2023, as proposed in the Application.



2

FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 15

Table 1: Revised Exhibit 21 Showing Legacy Incentives Expenditures if FEI Terminated Written Commitments as of August 31, 2023

	Inc	entive E	xpenditu	ures (\$000s) Non-Incentive Expenditures (\$000s) Total Expenditures (\$000s)									s)		
	2024	2025	2026	2027	Total	2024	2025	2026	2027	Total	2024	2025	2026	2027	Total
Legacy Incentives	19,003	8,595	5,393	1,762	34,753	-	-	-	-	-	19,003	8,595	5,393	1,762	34,753
Labour	-	-	-	-	-	825	434	106	43	1,409	825	434	106	43	1,409
Total (\$000s)	19,003	8,595	5,393	1,762	34,753	825	434	106	43	1,409	19,829	9,030	5,499	1,805	36,162

With reference to Exhibit 21, Legacy Program Area Expenditures, are type b

4

3

5

6 7

8 9

Response:

10 11

5.4

Legacy Program Area Expenditures are not exclusively within 2024. Legacy Program Area Expenditures occur throughout the 2024-2027 Plan period and some expenditures in the Commercial Performance - New Construction program may occur in 2028. Please refer to the response BCUC IR1 10.2 for additional detail on the timing of Legacy Program Area Expenditures.

legacy expenditures exclusively within 2024? If not, please explain.

14 15

12

13

16 17

5.5 Does the Legacy Program Area include incentives regarding measures applicable to new construction in addition to retrofits?

18 19 20

Response:

21 Yes, Legacy Program Area incentives are for both retrofit and new construction.

22 23

24 25

5.6 Please provide a version of Exhibit 21 that breaks down new construction and retrofits.



5

FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 16

1 Response:

- 2 Please refer to the revised Exhibit 21 provided below which breaks down expenditures in the
- 3 Legacy Expenditures Program Area by retrofits and new construction.

Table 1: Revised Exhibit 21 Showing Breakdown of Legacy Incentives by Retrofits and New Construction

	Inc	Incentive Expenditures (\$000s) Non-Incentive Expenditures (\$000s) Total Expenditures (\$000s))			
	2024	2025	2026	2027	Total	2024	2025	2026	2027	Total	2024	2025	2026	2027	Total
Legacy Incentives - New Construction	22,451	12,838	6,011	3,600	44,899	-	-	-	-	-	22,451	12,838	6,011	3,600	44,899
Legacy Incentives - Retrofits	12,242	3,195	2,193	1,542	19,172	-	-	-	-	-	12,242	3,195	2,193	1,542	19,172
Labour	-	-	-	-	-	1,507	902	180	125	2,714	1,507	902	180	125	2,714
Total (\$000s)	34,693	16,033	8,204	5,142	64,072	1,507	902	180	125	2,714	36,200	16,934	8,384	5,267	66,785

7

6

8 9

5.7 Does FEI anticipate that the Legacy Program Area will be ended after 2027? If not, please explain.

10 11 12

Response:

13 Please refer to the response to BCUC IR1 10.4.



FortisBC Energy Inc. (FEI or the Company)	Submission Date: September 7, 2023
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 17

6.0 Topic: Dual fuel hybrid heating

Reference: Exhibit B-2, Appendix A, p. 35, pdf p. 84

Posterity describes dual fuel hybrid heating as follows:

"A dual fuel hybrid heating system consists of a gas and electric heating system that is sequentially operated to meet heating needs to reduce costs and GHG emissions for building owners. Using hybrid heating systems claims to reduce the number of hours that electric heat pumps are required to operate at lower efficiencies during colder days, leading to reduced electric peak demand. The system also supports annual system efficiencies greater than 100% and resulting in less GHG emissions." [Exhibit B-2, Appendix A, p. 35, pdf p. 84]

FEI uses various terms including: dual fuel heating systems [pdf p.6], dual fuel hybrid systems [pdf p.8], dual fuel hybrid heating systems [pdf p.17], dual fuel hybrid heat pump [pdf p.17], dual fuel hybrid systems [pdf p.17]; dual fuel hybrids [pdf p.21], residential and commercial dual fuel hybrid heating [pdf p.22], dual fuel hybrid heating [pdf p.24], dual fuel heat pump system [pdf p.34], dual fuel heating system [pdf p.35]

BCUC IR1 8.8 asks:

"Please provide a list of definitions of the various types of dual fuel systems, including FEI's views on which may be included or excluded from the meaning of a class B demand side measure. For example, please explain the differences between a dual fuel heating system, and an integrated, split or hybrid gas heat pump system." [Exhibit A-3, pdf p.13]

6.1 If not covered in the response to BCUC IR1 8.8, please discuss whether the different terms – dual fuel systems, dual fuel hybrid systems, etc. – have materially different meanings.

Response:

No, there is no difference in meaning between the various terms FEI uses in the Application, including references to dual fuel and dual fuel hybrid systems.

6.2 Does FEI agree that dual fuel hybrid heating systems, gas heat pumps and gasfired hybrid heating systems require more sophisticated maintenance and operation relative to conventional gas heating equipment in order to achieve their optimum results? If so, how does FEI address this need for more sophistication?



9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

FortisBC Energy Inc. (FEI or the Company)	Submission Date:		
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023		
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 18		

Response:

- 2 FEI addresses the maintenance and operation requirements of dual fuel hybrid heating systems,
- 3 gas heat pumps and gas-fired hybrid heating systems in turn below.
- 4 First, with respect to maintenance, FEI does not agree that the installation of dual fuel hybrid
- 5 heating systems, gas heat pumps, or gas heat pump hybrids will generally require more
- 6 sophisticated maintenance. A customer's overall maintenance requirements may or may not
- 7 increase and will, ultimately, vary significantly based on the customer's existing system and the
- 8 proposed retrofit. For example:
 - A residential customer with a gas furnace and AC unit will likely require similar maintenance to operate a high efficiency dual fuel hybrid heating system.
 - A customer with a gas furnace who is upgrading to a dual fuel hybrid heating system will likely require additional maintenance over the life of the heating system as they are adding an additional piece of equipment to the system (electric heat pump). However, the associated maintenance will not be more sophisticated and can be handled by qualified HVAC contractors.
 - A customer who has a furnace and replaces it with a gas heat pump will no longer require
 maintenance on the furnace but will instead be required to maintain the gas heat pump
 unit and companion components (air handler) which a certified gas contractor can perform.
 The annual maintenance requirements include:
 - Changing the gas heat pump's filters, cleaning coils, checking burners and reviewing glycol levels in air handlers.
 - Annual maintenance on residential gas heat pumps have yet to be observed and will be captured through FEI's pilot programs.
 - Based on FEI's field experience specific to commercial gas absorption heat pumps, the
 maintenance on these systems is no different than that of a condensing boiler. Customers
 can expect to utilize their existing gas contractor for annual maintenance similar to their
 conventional boiler systems.
- FEI intends to offer maintenance support for all dual fuel hybrid heating systems through the residential appliance maintenance program. FEI supports optimization of all commercial systems through the recommissioning offer under the Commercial Performance Program Existing Buildings.
- Second, with respect to the operation of dual fuel hybrid heating systems, gas heat pumps and gas-fired hybrid heating systems, FEI expects there to be little to no difference for residential customers when using a smart thermostat. While the operation of these systems may be more complex for commercial customers, as with maintenance, this will vary as customer system configurations vary greatly. For example:



3

4

5

6 7

8

9

10

11

FortisBC Energy Inc. (FEI or the Company) 2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	Submission Date: September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 19

- A dual fuel hybrid heating rooftop unit that is packaged has a factory-supplied internal controller that will sequence the heating stages using predetermined algorithms for the building operator to control.
- Adding an additional electric or gas heat pump to an existing gas system in commercial buildings may require a more advanced sequence of operations, commonly requiring the use of a Building Automation System and more complex piping and pumping configuration to maximize system efficiency.

FEI intends to continue developing training and education materials for dual fuel hybrid systems and gas heat pumps. For example, FEI recently completed a best practices guide for gas heat pumps that included maintenance and control considerations and has delivered training for trade allies and consultants.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 20

1	7.0	Topic	: Indigenous Program Area
2			Reference: Exhibit B-2, Table 4-4, p. 17, pdf p. 22; Appendix A, Indigenous Program Area, pp. 24-25, pdf pp. 73-74
4		FEI sta	ates in Table 4-4, p. 17:
5 6 7 8 9		"•	The increasing expenditures in this Program Area are driven by forecast expenditures in dual fuel hybrid systems, increased incentives for New Construction Indigenous offers, and the continuation of conventional higherficiency gas space and water heating equipment where allowable until the end of the plan period.
10 11		•	Additional expenditures include the Indigenous-focused Strategic Energy Management offer and increased support in the other existing Programs."
12		FEI/Po	osterity states on p. 25:
13 14 15 16			"The Indigenous Program Area is a proposed new program area in response to the amended DSM Regulation. FortisBC has previously offered programs for Indigenous customers within the existing Residential, Commercial and Low Income Program Areas." [footnote removed]
17 18 19 20 21 22		7.1	Does the 2024-2027 DSM Plan offer more, less or about the same levels of DSM incentives and planned savings to Indigenous customers under the new Indigenous Program Area, as compared to the programs offered to Indigenous customers within the existing Residential, Commercial and Low Income program areas? Please provide a quantitative response.
23	Respo	nse:	
24 25 26 27 28	Indiger severa for Ind	nous cu Il years igenous	27 DSM Plan proposes higher incentive expenditures and energy savings for astomers and communities under the new Indigenous Program Area. Over the last FEI has invested between \$1.2 and \$1.5 million annually towards energy efficiency a customers through existing offers in other program areas, such as the Low Income Program Areas.
29 30			27 DSM Plan proposes increased incentive levels of \$2.2 million in 2024, \$3.7 million million in 2026, and \$5.9 million in 2027.
31 32			
33 34		FEI/Po	osterity states on p. 24:
35 36 37			"Working collaboratively with Indigenous communities, the energy efficiency programming focusses on improvements for existing homes and new construction. Program design and eligible measures are based upon non-Indigenous retrofit and



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 21

new construction program eligibility criteria but with enhanced rebates and modified application processes and marketing approaches. Support is also provided for community outreach and education, energy efficiency construction and building maintenance training and community member capacity building."

7.2 Please describe any collaboration or coordination on DSM planning and/or housing policy that FEI is engaged in with BC Hydro and other utilities, with the BC government, and with Indian and Northern Affairs Canada and other federal agencies.

Response:

- As explained in the response to BCSEA IR1 4.1, FEI collaborates with various stakeholders for the purpose of DSM planning, including the following examples:
 - **FBC and BC Hydro:** FEI co-delivers the Direct Install Program to Indigenous communities. Whenever appropriate, FEI jointly funds Commercial Energy Specialist positions and capacity funding with FBC and BC Hydro in their respective service areas.
 - The Province of British Columbia: Where possible, FEI has coordinated offers with the
 provincial Income Qualified Program (IQP) and enabled the stacking of rebates. FEI works
 with the IQP program implementor to cross promote offers and foster community
 relationships.
 - Natural Resources Canada: FEI was active in the program design efforts for the Canada Greener Homes Program, specifically for Indigenous communities. FEI has continued to play a role in fostering community relationships by introducing multiple Bands to the Canada Greener Homes Program administrators.
 - Indian and Northern Affairs Canada: While FEI does not actively coordinate with INAC, it has provided assistance, including writing letters of support, to Indigenous groups that have applied for funding.

7.3 Please describe any strategic approach that FEI is taking in the Indigenous DSM Program Area, e.g., assessment of the general situation and scope of work, identifying high level goals and targets, and identifying timelines and strategies to achieve goals and targets.

Response:

FEI has worked directly with individual Indigenous community housing teams on a consistent basis over the last number of years to identify barriers to housing and community-building energy



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 22

- 1 efficiency improvements. FEI's strategic approach has been to support each community on what
- 2 it identifies its needs are, based on internal capacity and available funding levels. FEI's budgets
- 3 and high-level goals have been set based on the identified Indigenous communities' planned and
- 4 shared projects. Timelines have also been somewhat reactive, as much depends on the individual
- 5 community's needs and internal capacity.
- 6 FEI and FBC have also partnered with BC Hydro to conduct barrier research and have begun
- 7 coordinating with First Nation Housing and Infrastructure Council (FNHIC), First Nation Energy &
- 8 Mining Council (FNEMC), and Fraser Basin Council, among others, to identify and support energy
- 9 efficiency improvement opportunities, and budget allocations on a broader scale.
- 10 FEI is also working closely with FBC, BC Hydro, and the Province to coordinate program offers.
- 11 The goals, budget, and timelines for that combined effort are expected to be set in early 2024.

15

7.4 What are the most critical needs FEI has identified regarding the energy efficiency of the building stock that is subject to the Indigenous DSM Program Area?

16 17 18

Response:

The most critical needs FEI has identified regarding energy efficiency of the building stock in the Indigenous DSM Program Area are internal Indigenous community capacity (i.e., grant writing to secure additional funds), project management to implement improvements, maintenance, and housing team training regarding best practices in energy efficiency.

2324

25

26

7.4.1 What energy efficiency and conservation goals and targets does FEI think are most appropriate for the Indigenous DSM Program Area?

272829

30

31

32

33

34

Response:

FEI has identified forecast expenditures and savings goals in Section 6 of the 2024-2027 DSM Plan (Appendix A to the Application). These targets are significantly greater than those achieved in the 2019-2022 DSM Plan period and reflect the anticipated growth in Indigenous residential and community building retrofits, new construction projects, and improved coordination between funding agencies.

35

36



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 23

7.4.2 What are the most critical barriers that FEI has identified to achieving these goals and targets?

Response:

The most critical barriers that FEI has identified to achieving these goals and targets are the individual Indigenous community's internal capacity challenges (i.e., gaps in expertise and knowledge of energy efficient construction), limited capacity to secure adequate levels of funding, project management, and challenges securing local contractors to do the retrofit work.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 24

1	8.0	Topic:	Savings Cost by Program Area
2			Reference: Exhibit B-2, Table 1-1: FEI DSM Expenditures – 2024-1
3			2027 Forecast; Table 1-2: FEI DSM Savings – 2024-2027 Forecast
4		8.1 Plea	ase provide a table of cost per GJ annual gas savings for the program areas of
5		the	DSM Expenditures Plan.
6			

Response:

The table below provides the cost per GJ annual gas savings for the program areas of the DSM Plan.

Table 1: Cost per GJ Annual Gas Savings by Program Area

Program Area	2024-2027 DSM Plan Total Expenditures ² (\$000s)	2024-2027 DSM Plan Total Annual Natural Gas Savings (GJ)	Natural Gas Savings \$ / GJ (\$)
Residential	177,973	795,562	224
Commercial	59,753	640,373	93
Industrial	33,977	1,750,526	19
Low Income	44,120	247,843	178
Indigenous	18,759	94,959	198
Conservation Education and Outreach	57,898	110,000	526
Innovative Technologies	88,190	-	-
Enabling Activities	48,742	-	-
Portfolio Activities	21,111	-	-
Legacy Expenditures	66,785	257,765	259
Total	617,307	3,897,028	158

The Industrial and Commercial program areas have lower cost per GJ annual gas savings when compared to the Residential, Low Income, and Indigenous program areas. Industrial and commercial energy efficiency projects tend to be larger, and more expensive, but result in proportionately more savings than projects in residential buildings. FEI requires higher incentives per GJ in the Residential, Low Income, and Indigenous program areas to encourage market adoption. In addition, FEI's administration expenses tend to scale with number of participants and FEI administers considerably more customer projects in the Residential, Low Income, and Indigenous program areas as compared to the Industrial and Commercial program areas. The net impact of higher incentives per GJ and higher administration expenses results in a higher total

² Note that these expenditures do not include inflation.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 25

1 cost per GJ in the Residential, Low Income, and Indigenous program areas as compared to the Industrial and Commercial program areas.

8.2 Please discuss any material differences in the cost per GJ annual gas savings between the program areas.

Response:

10 Please refer to the response to BCSEA IR1 8.1.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 26

1	9.0	Topic	: Building Envelope Improvements
2 3			Reference: Exhibit B-2, 1.1 Government Policy and the Demand-Side Measures Regulation
4 5 6 7		progra heat p	otes that the <i>CleanBC Roadmap to 2030</i> "calls for enhanced energy efficiency ams, including more support for building envelope improvements and high-efficiency numps, including gas heat pumps and dual fuel hybrid heating systems." [pdf p.7, line added]
8 9 10	D	9.1	Please describe how the 2024-2027 DSM Plan provides more support for building-envelope improvements.
11	Kesp	onse:	

18

The 2024-2027 DSM Plan provides more support for building-envelope improvements as follows: 12

Residential Program Area

- 14 As discussed in the response to RCIA IR1 6.2, the Whole Home Performance and Whole Home
- 15 Performance Support measures are intended to incent and increase adoption of building-
- 16 envelope measures in the Residential Program Area. Further, FEI is proposing increased
- 17 incentives for insulation measures.

Commercial Program Area

- 19 As discussed in the response to BCUC IR1 5.2, starting in 2024, FEI is proposing to incent the
- 20 identification and implementation of stand-alone building envelope measures for commercial
- 21 buildings through the Performance - Existing Buildings Program. While building envelope
- 22 measures were sometimes eligible for the program incentives in the past, the previous cost-
- 23 effectiveness rules created a barrier to incenting building envelope measures. With the Utility Cost
- 24 Test (UCT), FEI anticipates increased program participation.

Low Income and Indigenous Program Areas

- 26 In the Low Income and Indigenous program areas, the Direct Install Program and Prescriptive
- 27 Program will continue to support building envelope measures. In the Direct Install Program, there
- 28 will be a focus on addressing limitations to enable more envelope measure installations. In the
- 29 Prescriptive Program, there will be incentives available for residential low income customers and
- 30 in the Non-profit Bundled measure. FEI anticipates that the new cost effectiveness rules (i.e.,
- 31 utilization of UCT) will increase program participation.

25



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 27

9.2 In FEI's view, does the amended DSM Regulation enable more DSM measures for building envelope efficiency to be cost effective, in absolute terms or relative to DSM measures for space and water heating equipment?

Response:

- Yes, it is FEI's view that the amended DSM Regulation has enabled more building envelope efficiency measures to be cost-effective.
- 8 Prior to the amended DSM Regulation, many building envelope efficiency measures did not pass 9 the TRC/MTRC cost-effectiveness test. With the amended DSM Regulation, building envelope 10 efficiency measures pass the UCT. In addition, the amended DSM Regulation defines DSM 11 measures and programs within Low Income and Indigenous program areas as class A measures 12 (previously referred to as specified DSM). Individual programs and measures, such as building 13 envelope efficiency, under these areas do not need to be cost-effective. These changes resulted 14 in FEI offering additional support for building envelope efficiency in the DSM Plan to increase 15 participation and support market transformation.

16 17

18 19

20

- 9.3 Does the 2024-2027 DSM Plan aim to achieve proportionately more building envelope DSM measures relative to previous FEI DSM expenditure plans?
- 21 9.3.1 If not, why not?
- 9.3.2 If not, is this an area where FEI's DSM Expenditures Plan fails to support the objectives of the CleanBC Roadmap to 2030?

24 25

26

27

Response:

Yes, the 2024-2027 DSM Plan aims to achieve proportionately more building envelope DSM measures relative to previous FEI DSM expenditure plans.



FortisBC Energy Inc. (FEI or the Company)	Submission Date:
2024-2027 Demand-Side Management (DSM) Expenditures Plan Application (Application)	September 7, 2023
Response to BC Sustainable Energy Association (BCSEA) Information Request (IR) No. 1	Page 28

1	10.0 Topic	Oil Fire Heating
2		Reference: Exhibit B-2
3 4 5	10.1 Response:	How does the 2024-2027 DSM Plan address switching people off oil heating?
6 7 8 9	FEI already se FEI's O&M be	27 DSM Plan does not have incentives to promote fuel switching from oil heating eparately administers the Connect to Gas program with expenditures coming from udget. Through this program, FEI encourages customers to convert their primary from oil to gas.
10		