

Diane Roy Director, Regulatory Affairs FortisBC Energy 16705 Fraser Highway Surrey, B.C. V4N 0E8 Tel: (604) 576-7349 Cell: (604) 908-2790 Fax: (604) 576-7074

Email: diane.roy@fortisbc.com

www.fortisbc.com

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

November 22, 2013

#### Via Email Original via Mail

B.C. Sustainable Energy Association c/o William J. Andrews, Barrister & Solicitor 1958 Parkside Lane North Vancouver, B.C. V7G 1X5

Attention: Mr. William J. Andrews

Dear Mr. Andrews:

Re: FortisBC Energy Inc. (FEI)

Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Response to the B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 2

On June 10, 2013, FEI filed the Application as referenced above. In accordance with Commission Order G-164-13 setting out the Amended Regulatory Timetable for the review of the Application, FEI respectfully submits the attached response to BCSEA IR No. 2.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachment

cc: Commission Secretary Registered Parties (e-mail only)



Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 1

1	1.0	Topic	: Furnace cost-effectiveness
2			Reference: Exhibit B-7, FEI responses to BCSEA IR 1.4.4 – 1.4.12 and Attachment 1.4.12
4 5 6 7	Respo	1.1 onse:	Please define what is meant by "Standard Upgrade" and "Mid-upgrade"? Please include specific AFUE ratings.
8 9 10 11 12	replac While efficie	ement of AFUE ncies the	ace Replacement Pilot program, "Standard Efficiency Upgrade" refers to the of traditional natural gas furnaces that were installed up to about the mid 1980's. testing was not done on these products, they are generally considered to have nat range from about 50 percent for the older products up to about 75 percent for a AFUE rating of about 65 percent is typical for the installed stock.
13 14 15 16			ace Replacement Pilot program, "Mid- Efficiency Upgrade" refers to furnaces e mid 1980's with an AFUE rating of about 80 percent.
17 18 19 20 21		1.2	Please provide a spreadsheet showing all assumptions and formulas used to calculate the annualized GJ savings used in the furnace cost-effectiveness analysis.
22	Respo	onse:	
23	For ba	ackgrou	nd information on this IR and for a more detailed analysis of methodology, please

refer to the Furnace Early Replacement Program - Preliminary Evaluation (Attachment 4.12, provided in the response to BCSEA 1.4.12) and background information about estimated energy savings as discussed in BCSEA IR.1.4.4 that resulted in the NPV of the annualized energy savings that combine Period 1 and Period 2 savings over the 18 year measure life of the new furnace as described below.

24

25

26

27

28



# FortisBC Energy Inc. (FEI or the Company) Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application) Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2 Submission Date: November 22, 2013

Estimated Energy Savings per Year for Each Savings Period

	Furnace	Boiler
Period 1 - Years of Purchase advancement		
Standard upgrade	24.0 GJ	44.4.0.1
Mid upgrade	11.9 GJ	11.1 GJ
Period 2 - Difference between code and ENERGY STAR	1.7 GJ	7.4 GJ

2

4

1

#### Annualized Energy Savings: Based on 4.3 Year purchase advancement

	Standard Furnace	Mid Furnace	Boiler
Annualized Savings (NPV)	10.0 GJ	5.5 GJ	8.8 GJ

5 6

7

8

Please refer to Attachment 1.2 for the details of the calculation. Important notes on the steps involved in developing the calculation as described in the working spreadsheet are provided below.

9 10  Determine if the old replaced furnace was a standard or mid-efficiency furnace or boiler for determination of period 1 savings.

11 12 13  Calculate total energy by combining Period 1 and Period 2 savings over the 18 year measure life (4.3 Years of advancement \* Period 1 savings) + (13.7 Years \* Period 2 savings)

14

Calculate the NPV of the total energy saved

15 16  Determine the annualized equivalent savings over the 18 years as the input to cost benefit analysis

17

18 19

20

1.2.1 Does the annualized GJ used in the cost-effectiveness analysis take into account the time value of the savings in different years (e.g., use of a discount rate)?

212223

#### Response:

Yes. Please refer to the methodology described in Attachment 1.2 provided in the response to BCSEA IR 2.1.2.



#### FortisBC Energy Inc. (FEI or the Company) Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014

1.2.2 Does the annualized GJ used in the cost-effectiveness analysis take into

through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 3

1 2

3

8

9

10

11

4 5

6

7 Response:

> No. The annualized GJ calculation is based on the same discount rate over the lifetime of the measure. (Please refer to the response to BCSEA IR 2.2.1.) Avoided costs do change over time as demonstrated in the models used to calculate Cost Benefit Tests. (Please refer to Confidential Attachments 1.5.3A and 1.5.3B provided in the response to BCSEA IR 2.1.5.3).

account any differences in avoided costs over time?

12 13

14 15

16

1.3 The baseline costs appear to be based on code furnaces (92 AFUE, whereas the period 2 energy savings appear to be based on a weighted average baseline of code and more efficient furnaces. Please confirm.

17 18 19

25

26

27

28

29

30

31

32

33

34

35

#### Response:

- 20 This response addresses BCSEA IR 2.1.3 and BCSEA IR 2.1.3.1
- 21 The FEU interpret these IRs as a request to confirm that the incremental cost calculations and 22 annualized energy savings calculations use the same baseline AFUE ratings.
- 23 The FEU believe there could be some confusion caused by the following statement in BCSEA 24 IR 1.4.11:
  - "The cost of the base furnace is further adjusted to account for the fact that approximately 59 percent of respondents stated that they would have installed a High Efficiency rather than a base furnace. The adjusted base furnace is now a blended cost of the code furnace (~41 percent) and the HE furnace (~59 percent). ..."

This statement is related to Exhibit 3.3.2 provided in Attachment 4.12 to the response to BCSEA IR 1.4.12 which outlines that the program encouraged 41 percent of participants to purchase a higher efficiency furnace or boiler than they would have purchased if the program had not been available. This value of 41 percent impacts both the calculation of energy savings and incremental costs since the FEU adjusts for this 59 percent of the participants, such that the program is not given credit for these energy savings and adjusts costs for these customers who purchased a higher efficiency furnace without the incentive.



6

7

8

9

10

11

12 13

FortisBC Energy Inc. (FEI or the Company)  Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)	Submission Date: November 22, 2013
Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2	Page 4

- In terms of **energy savings**, about 41 percent of participants stated that once they committed to the upgrade, the incentive and program terms were responsible for them choosing a more
- 3 efficient furnace over the AFUE 92 (code) furnace. This leads to a Period 2 effective savings of
- 4 1.7 GJs derived from the following calculation
  - 0.7 GJs is the increase from base code furnace of 92 to 93 AFUE (the average upgrade over base from the 2007 program evaluation)
  - 2.3 GJs is increase from 93 AFUE to 96.1 AFUE (the average upgrade in the 2012 Furnace Replacement Pilot)
  - 2.3 GJs is multiplied by 41 percent since 2.3 could only be claimed if ALL participants had been motivated by the incentive to upgrade to the high AFUE.
  - The FEU believe this is what is referred to in the above IR that "the period 2 energy savings appear to be based on a weighted average baseline of code and more efficient furnaces." This methodology was outlined in Attachment 1.2 provided in the response to BCSEA IR 2.1.2.
- In terms of **incremental costs**, the cost of the base furnace must also be adjusted for the 41 percent of participants who chose a more efficient furnace over the AFUE 92 (code) furnace as outlined in the following table.

	Furnace Cost	Explanation / Source
Installed furnace	\$4,365	Pre-tax installed cost averaged across applicants and validated by contractors*
Increase over code	\$977	Average response from program application forms as validated by contractors*
Code furnace	\$3,388	By subtraction
Adj. Base Furnace – 59% selected higher efficiency models on their own initiative	\$3,964	(Installed *0.59) + (Code * 0.41)
Calculations for a 4.3 year replacer	ment advancement – in	cremental cost of \$1,597
Installed furnace	\$4,365	
Code Furnace (NPV)	(\$3,081)	NPV of \$3964 - 4.3 Years at 6.0%



### FortisBC Energy Inc. (FEI or the Company)

Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 5

	Furnace Cost	Explanation / Source
Residual (NPV)	\$313	The residual value at the end is used to balance out the cash flows and recognizes that in the "no program" case, there is still useful life in that furnace, because it is replaced 4.3 years later than those furnaces replaced in the program.
Economic cost	\$1,597	

1 2 3

4

\*Costs were validated as true market costs by contractors, manufacturers and other industry reps at the Furnace Program Design Workshop on January 10, 2013.

baseline AFUE used for calculating energy savings.

If in the affirmative, please confirm that it is inconsistent for the baseline

costs to be based on furnaces with an AFUE that is lower than the

The evaluation indicates that 86.5% of the furnaces installed in the program have

ECM fans. Have the electricity savings from the ECM fans been included in the

5

6 7

8 9

9 10

10 11

#### Response:

12 Please refer to the response to BCSEA IR 2.1.3.

1.3.1

13 14

15

16 17

> 18 19

19 20

#### Response:

1.4

Yes. The electric savings from the fans have been included in the cost-effective analysis. For

cost-effectiveness analysis? If not, why not?

- more information please refer to Attachment 4.12, page 16, provided in the response to BCSEA IR 1.4.12.
- 24

25



Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 6

1.5 Please provide all of the cost-effectiveness assumptions used for determining that a furnace efficiency upgrade at the time of natural replacement was not costeffective.

3 4 5

1

2

#### Response:

- Attachment 1.5.3 is being filed confidentially due to the considerable time, effort and expense of both internal resources and external contract resources which have been invested in the development of these spreadsheets/models on behalf of all rate-paying customers. Confidential
- 9 Attachment 1.5.3 contains 2 functioning spreadsheet models as follows:
  - Confidential Attachment 1.5.3A compares a "Natural Replacement" Program with the "Early Replacement" Program for the calculation of TRC, UCT, RIM, PCT.
  - Confidential Attachment 1.5.3B compares a "Natural Replacement" Program with the "Early Replacement" Program for the calculation of MTRC.

14 15

10 11

12 13

16 17

18 19 1.5.1 Please include the AFUE, GJ usage, installed costs, kWh usage, and lifetime for both the baseline and efficient furnace. Also, please provide the avoided costs and discount rate used (indicating real or nominal) and any other pertinent data used in the cost-effectiveness analysis.

202122

#### Response:

Please refer to the response to BCSEA IR 2.1.5.

2425

23

26 27

1.5.2 Are these assumptions consistent with the assumptions currently used for early furnace replacements?

28 29 30

31

32

#### Response:

Yes. Please refer to the response to BCSEA IR 2.1.5 to see the overview of comparisons between the natural replacement model and the early replacement model.

33



5

### FortisBC Energy Inc. (FEI or the Company) Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 7

3 4

1.5.3 Please provide a functioning spreadsheet with this cost-effectiveness analysis.

#### Response:

- 6 Please refer to Confidential Attachment 1.5.3A for a functioning spreadsheet that compares a
- 7 "Natural Replacement" Program with the "Early Replacement" Program for the calculation of
- 8 TRC, UCT, RIM, PCT.
- 9 Please refer to Confidential Attachment 1.5.3B for a functioning spreadsheet that compares a
- 10 "Natural Replacement" Program with the "Early Replacement" Program for the calculation of
- 11 MTRC.

12

13 14 15

16

1.5.4 Has the cost-effectiveness for furnace efficiency upgrades at the time of natural replacement been examined for different AFUE levels of the efficient equipment (e.g., AFUE 95, 96, 97, 98)? If so, please provide these analyses.

17 18 19

#### Response:

- No. The FEU have not analyzed the cost-effectiveness for this range of AFUE levels.
  Consumption analysis of 2012 program participants will be conducted in early 2014. This will provide FEU with valid energy savings by AFUE that can be used to conduct future program design scenarios. At this time, the FEU are confident in the cost effectiveness model and
- program design developed for the Furnace Replacement Program as outlined in Section 3.4.2
- 25 Exhibit B-1-1, Appendix I, Attachment I1 of the 2014 2018 EEC Plan.



FortisBC Energy Inc. (FEI or the Company)
Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014
through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 8

1	2.0	Topic:	Energy Efficiency and Conservation
2			Reference: Exhibit B-1-1 FEI 2014-2018 PBR Application Volume 2,
3			Appendix I, Attachment I-1, FortisBC EEC Plan 2014-2018, May 2,
4			2013, p.9, Exhibit 5.
5		2.1	The Annual GJ savings in Exhibit 5 appear to include savings from DSM
6			measures installed in previous years plus the new savings installed in
7			each year (i.e., cumulative savings from 2014). Please provide the
8			incremental GJ savings in each year for only DSM measures installed in
9			that year.
10			

Response:

Table 1 below summarizes the incremental annual gas savings for each of the program areas. As requested, the annual values do not include savings from DSM measures installed in previous years.

Table 1: Incremental Annual Gas Savings for Each of the Program Areas					
Program Area	Incremental Annual Gas Savings, Net (GJ/yr.)				
	2014	2015	2016	2017	2018
RESIDENTIAL	190,255	212,785	223,384	236,422	271,890
COMMERCIAL	367,794	444,502	364,129	283,918	229,511
INDUSTRIAL	109,664	142,349	168,172	127,838	66,991
LOW INCOME	26,357	26,919	27,747	27,768	28,190
INNOVATIVE TECHNOLOGIES	9,878	72,204	18,937	5,343	29,468
ENTIRE PORTFOLIO	703,948	898,760	802,370	681,290	626,051

15

11

12

13 14



#### FortisBC Energy Inc. (FEI or the Company)

Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 9

#### 1 3.0 Topic: Energy Efficiency and Conservation

2 Reference: Exhibit

In response to BCSEA 1.3.1, the FEU state in part:

"Please note that the BCSEA IR 1.3 series refers to the Home Performance Program outlined in Section 3.4.1 of the 2014-2018 EEC Plan. The Home Performance Program is, in essence, the 2014 and ongoing version of a LiveSmart BC type of whole home retrofit program, which is a joint initiative between the British Columbia Provincial Government and utility partners. There is uncertainty about the 2014 program design due to factors such as the Provincial Government's future funding for the program, the administrative platform, and the introduction of the new NRCan Home Energy Rating System and its impact on program design, energy assessment requirements, and rebate administration. The utility partners are hosting a fall Program Design workshop to gather feedback from industry experts to help guide the future success of this program. ..." [underline added]

3.1 Has the fall Program Design workshop occurred yet?

#### Response:

- Yes. The utility partners hosted the Home Energy Efficiency Program Design Workshop on November 5 and November 6, 2013 with the objectives of providing an overview and gathering feedback on the current LiveSmart BC Efficiency Incentive Program, reviewing program best practices for home energy retrofit programs, and discussing options for future programs in BC. The primary goal of the workshop was to gather feedback to assist in the design of future home energy retrofit programs that support increased market transformation, industry capacity development, and increased participation and depth of energy savings associated with home energy retrofits.
- The November 5th workshop was designed to gain operations-focused feedback from the trades (gas contractors, insulators, home renovators, heating system and window manufacturers, distributors) and Certified Energy Advisors. The November 6th workshop was designed to gain strategy-focused feedback from municipalities, associations and BC-based home retrofit consultants.
- 31 At the time of writing, the final report of workshop findings is not yet available.



Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 10

1 3.1.1 If so, please summarize the results.

2

#### Response:

4 Please refer to the response to BCSEA IR 2.3.1. The report on the results is not yet available.

5 6

7 8

3.1.2 In any event, please provide an update on the current status of the Home Performance Program.

9 10 11

21

22

23 24

25

26

27

28

#### Response:

- 12 This response addresses the responses to BCSEA IRs 2.3.1.2, 2.4.1, 2.4.1.1, 2.5.1 and 2.6.1,
- 13 all related to the status of the Home Performance Program. This whole home retrofit program is
- 14 intended to be a joint initiative between the utility partners and government. The partners are
- 15 currently working on future program design options, while each partner is facing a combination
- 16 of issues including regulatory, budgetary constraints, industry challenges and other
- 17 uncertainties outlined in the Information Request.

#### 18 **Current Status:**

- Program partners are discussing ways to address the following key issues with a focus on what can be achieved for an April 2014 launch. At a high level, options include:
- can be achieved for an April 2014 launch. At a high level, options include:
  - **Status Quo** Continue the current LiveSmart program, as is, with provincial administration and limited offer changes.
  - **Program Redesign for April 2014** Invest in significant program redesign including new incentive structure, new administration processes, simplified/enhanced energy assessments, and industry development.
  - **Staged Program Redesign** Plan for longer term program redesign at a later date and determine interim solution

#### Incentive Structure:

- 29 The utility partners are working together to develop a program offering that passes cost-
- 30 effectiveness tests. The building envelope offer that is currently in market is faced with limited
- 31 participation since windows and heating systems, which are key program drivers, were removed
- 32 due to lack of government funding. The reduced offer currently in market, as of September was
- 33 trending at about 20 percent of forecast except for parts of the Interior where the Energy Diet
- 34 projects are driving program entry.



#### FortisBC Energy Inc. (FEI or the Company)

Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 11

#### 1 Program Administration Options:

- 2 The Ministry of Energy and Mines ("MEM") is currently providing program administration
- 3 services. Customers complete a pre- and post-retrofit home energy assessment from which a
- 4 Hot2000 file is generated through an NRCan process. NRCan provides monthly files to the
- 5 Ministry for customer payment processing. Unfortunately, these files, the file transfer process
- and data mapping into the MEM database is complex and cumbersome. MEM's database is not
- 7 configurable nor can it provide the flexibility for alternative design options. Program performance
- 8 reporting is limited. The utility partners are seeking options to simplify the file transfer and data
- 9 mapping process and are considering other cheque fulfillment options.
- 10 FEU is working on the development of an online "Rebate Center" including online forms for
- 11 stand-alone programs. This project could provide another data capture and fulfillment option for
- 12 envelope measures for the Home Performance program. Utility partners are in preliminary
- 13 discussions about how an integrated platform could function given privacy rules and other
- 14 challenges.

#### 15 Simplified or Enhanced Home Energy Assessments and their Value to Customers:

- 16 The current process for home energy assessments is a significant barrier to entry for program
- 17 participants, especially now that provincial and federal incentive funding is no longer available.
- 18 The pre-retrofit assessment costs the homeowner \$150-\$200 and the provincial government
- 19 further subsidizesthe assessment by paying Certifed Energy Advisors an additional \$150. The
- 20 post-retrofit assessment requires an additional \$150 payment from the homeowner.
- 21 Program partners are examining ways to add more customer value to the assessment process.
- 22 In addition to energy assessments, the FortisBC Energy utilities and FortisBC are including an
- 23 online energy assessment as a business requirement in the Community Engagement Tool
- 24 project.

#### **Outreach and Communications:**

- 26 Program design workshop feedback demonstrated the need for increased marketing and
- 27 communications to ensure customers are aware of the program and trades understand key
- 28 program terms. Workshop participants were supportive of co-op marketing funds for
- 29 manufacturers and contractors.



Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 12

1	4.0	opic: Energy Efficiency and Conservation
2		Reference: Exhibit B-7, BCSEA 1.
3		n response to BCSEA 1.3.2, the FEU state in part:
4 5 6 7 8 9 10 11		Currently the Provincial Government provides a \$150 subsidy for Home Energy Assessments and homeowners contribute approximately \$150 for the pre-retrofit assessment and \$150 for the post- retrofit assessment. The FEU contributes to accentives for which energy savings can be captured. FEU made the assumption that the Provincial Government would continue to provide energy assessment subsidies for the PBR period. For that reason, FEU did not provide a budget for energy assessment support. FEU will consider subsidizing energy assessments in community challenges such as "Energy Diets", where clusters of neighbourhood activity substantially reduce the cost of the audit to homeowners." [underline added]
13 14 15 16	Resp	Is "the assumption that the Provincial Government would continue to provide energy assessment subsidies for the PBR period" still valid?  se:
17 18 19	Pleas	efer to the response to BCSEA IR 2.3.1.2.
20 21 22 23 24	Resp	4.1.1 If LiveSmart BC is being cut back in its incentives for home energy audits, will FEU consider providing a budget for energy assessment support? se:
25	The F	J may consider providing support if assessment enhancements or the introduction of

lower cost assessments result in more value for customers. Currently, the FEU do not claim

energy savings for energy assessments. The program evaluation team will review the LiveSmart

spillover methodology to determine if program partners could justify energy savings for

29 assessments.

Please refer to the response to BCSEA IR 2.3.1.2.

30

2627



## FortisBC Energy Inc. (FEI or the Company) Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 13

		Topic	. Lifeigy Liffcle	ency and Conservation
2			Reference:	Exhibit B-7, BCSEA 1.3.7
3		In res	ponse to BCSEA 1.3.7,	the FEU state in part:
4 5 6 7 8 9		purpo retrofi <u>discus</u> deterr	oses of cost benefit and it joint initiative between ssion for 2014 and will	presented measures where there are gas savings for the alysis. The comprehensive offer for the Provincial home on utilities and the Provincial Government is still under evolve over the five year PBR period. Electric utilities will assures are to be included in the comprehensive offer."
10 11 12 13	Resp	5.1 onse:		atus of the discussion regarding a comprehensive offer for initiative between utilities and the Provincial Government?
15	Pleas	e refer t	to the response to BCSE	EA IR 2.3.1.2.



Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 14

1	6.0	Topic: E	Energy Effici	ency and Conservation
2		F	Reference:	Exhibit B-7, BCSEA 1.3.10
3		In response to E	BCSEA 1.3.10	0, the FEU state in part:
4		"In the past, the	e EnerChoice	measure was included in the LiveSmart BC brochure, with
5		instructions to	apply at Fo	ortisBC.com/ Enerchoice. With the current administration
6		system manage	ed by the M	inistry of Energy, Mines and Natural Gas, it is difficult to
7		preclude "doub	le- dipping" i	into the two offers, both funded by the FEU. 1 The utility
8		partners are loc	oking at optio	ns for an integrated rebate administration platform for 2014
9		and beyond. 7	This will take	e time to define requirements, develop technology and
10		implement with	appropriate	controls. The utility partners are also looking at options for
11		marketing a co	mprehensive	list of home retrofit measures that incorporate all stand-
12		alone and joint	offers." [unde	rline added]

What is the current status of the utility partners' exploration of options for an integrated rebate administration platform for 2014 and beyond?

15 16 **Re** 

Response:

17 Please refer to the response to BCSEA IR 2.3.1.2.

18

13



### FortisBC Energy Inc. (FEI or the Company) proval of a Multi-Year Performance Based Ratemaking Plan for 201

Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)

Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 15

1	7.0	Topic:	Balanced Scorecard
2			Reference: Exhibit B-7, BCSEA 1.3.19.1
3 4 5		Score	es not presently include GHG emissions or GHG emissions reductions on its eard [BCSEA 1.19.2]. However, FEI acknowledges that at least two of its peers the early performance indicator:
6 7 8 9 10		reducti include were b of em	ted in the table above, two of the five utilities reported included GHG emissions ons as part of their Scorecard. For instance, one of the utilities' scorecard of the company's annual GHG emission reductions achieved. The reductions assed on the company's recurring projects, carbon credits as well as the adoption ployee programs designed to reduce the GHG emissions (such as programs to commute to work)."
12 13			eviews the appropriateness of its current measures on an annual basis and will any necessary adjustments as required." [BCSEA 1.19.2]
14 15 16 17 18	Respo	7.1 onse:	Please confirm that FEI's present key performance indicators include no measures related to environmental performance. Alternatively, please explain.
19 20 21	FEI co	onfirms t	hat there are no measures related to environmental performance on its scorecard.
22 23 24 25 26	Respo	7.2 onse:	Has FEI explored developing a key performance indictor relating to environmental performance? If so, what candidate measures were examined?
27 28			explored the possibility of including a key performance indicator related to performance on its scorecard.
29	As ou	tlined in	the response to BCUC IR 1.191.1, in determining the scorecard categories and

measures to use, the Company seeks not only to select the appropriate success measures but

also the optimal number of measures (i.e. how many). At this time, FEI believes the six

scorecard measures used best represent the overall priorities for the Company.

33 34

30 31



FortisBC Energy Inc. (FEI or the Company)  Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)	Submission Date: November 22, 2013
Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2	Page 16

7.3 If the Commission required FEI to develop a key performance indicator related to environmental performance would GHG emissions and GHG emissions reductions be among the candidate measures?

#### Response:

FEI does not agree that the Commission has jurisdiction to require FEI to adopt a key performance indicator for its scorecard.

7.4 Given that FEI reports annual GHG emissions to the federal government [BCSEA 19.3], would annual GHG emissions be a practical and objective basis for a KPI relating to environmental performance?

#### Response:

Annual GHG emissions would be a possible basis for a KPI relating to environment performance. However, specific GHG reduction targets appropriate for LDCs in BC have not yet been determined, and as a result, there are no specific GHG related KPIs being considered by the Company at this time. Regulation currently exists only as related to GHG reporting and verification requirements.



Submission Date: November 22, 2013

Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2

Page 17

1	8.0	Topic:	Executive compensation		
2			Reference:	Exhibit B-1, s.3.3.3.1	

8.1 Do the FEU include DSM related success measures in individual employee objectives and performance plans for employees with DSM responsibilities?

#### Response:

Information about the Companies' short-term incentive pay for Management and Exempt employees generally can be found in the responses to BCUC IRs 1.79.3 and 1.79.4.1. Each of the employees in the EEC group have performance-related measures in their annual performance plans; these measures vary from employee to employee depending on their responsibility within the group.

8.1.1 If so, how individual employees have DSM related key success measures and what are the measures?

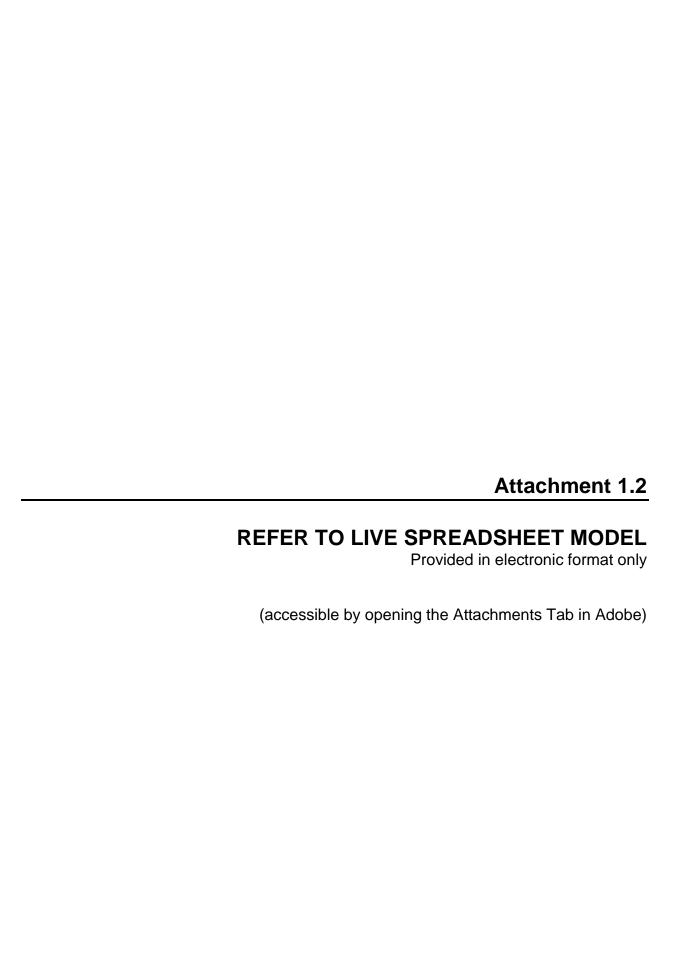
#### Response:

- The Companies interpret the question to mean, "How do individual employees have DSM related key success measures and what are the meaures?" The measures vary from employee to employee. The FEI Management and Exempt performance based pay consists of a portion based upon corporate performance and a portion based upon individual/group performance. All Management and Exempt employees have performance plans with measures specific to each individual or group, as well as corporate measures. This is true for employees with EEC duties and those without. The overarching EEC objective to meet the mTRC and TRC thresholds while also meeting the EEC program principles (as outlined in the 2008 EEC application). M&E staff with EEC responsibility support this and also have individual measures, examples of which include but are not limited to:
  - Full participation in various programs
- Successful submission of EEC Annual Report and Commission approval of EEC ask in RRA
- Implement CEO and Contractor Program activities to 75% of approved budget levels for 2013
  - Enhance alignments and partnerships, primarily with BC Hydro, post-secondary institutions, FBC electric, and internal groups.



# FortisBC Energy Inc. (FEI or the Company) Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application) Response to B.C. Sustainable Energy Association and Sierra Club of British Columbia (BCSEA) Information Request (IR) No. 2 Submission Date: November 22, 2013

1 2		Provide technical support - including M&V and the assessment and review of energy avings
3	• N	Manage project risk, scope and budget
4	• L	ook for ways to reduce costs while not compromising quality of M&V work
5	• L	ook for ways to improve /streamline the data analysis review and reporting process
6	• 5	Specific program participation targets for staff with responsibility for program delivery
7 8		
9  0  1  2	<u>Respon</u>	8.1.2 If not, would the FEU considered such an approach?  se:
3	Please r	efer to the responses to BCSEA IRs 2.8.1 and 2.8.1.1.



Attachment 1.5.3
REFER TO LIVE SPREADSHEET MODELS  Provided in electronic format only
FILED CONFIDENTIALLY
(accessible by opening the Attachments Tab in Adobe)
(accessible by opening the Attachments Tab in Adobe)