

Dennis Swanson Director, Regulatory Affairs FortisBC Inc. Suite 100 – 1975 Springfield Road Kelowna, BC V1Y 7V7 Tel: (250) 717-0890 Fax: 1-866-335-6295 www.fortisbc.com

Regulatory Affairs Correspondence Email: <u>electricity.regulatory.affairs@fortisbc.com</u>

September 18, 2014

### <u>Via Email</u> 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 Inc. (FBC)

Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)

Response to the B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1

On August 11, 2014, FBC filed the Application as referenced above. In accordance with Commission Order G-115-14 setting out the Regulatory Timetable for the review of the Application, FBC respectfully submits the attached response to BCSEA IR No. 1.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC INC.

Original signed:

**Dennis Swanson** 

Attachments

cc: Commission Secretary Registered Parties (email only)



Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1

- 1.0 1 Topic: **Relief Requested** 2 **Reference:** Exhibit B-1, August 11, 2014 FBC Cover Letter; Appendix C, Draft
- 3

# Order

4 "On July 16, 2014, FortisBC submitted a letter in its Application for Approval of a Multi-5 Year Performance Based Ratemaking Plan for the Years 2014 through 2018), 6 withdrawing its request for approval of the DSM expenditures for the years 2015 to 2018 7 due to the changes to the statutory framework regarding DSM expenditures (the Amendment). 8

- Attached please find FortisBC's revised DSM Plan for 2015 and 2016, incorporating the 9 10 impacts of the Amendment on its DSM portfolio." [footnotes omitted]
- 11 1.1 Please confirm (or, if not, explain why not) that FBC's July 16, 2014 letter to the 12 Commission in the FBC PBR proceeding withdrew FBC's request for approval of a 2014-2018 DSM expenditure schedule under s.44.2(3), and left intact for 13 14 Commission consideration in the PBR proceeding (and not in the present 15 proceeding) FBC's requests for

### 17 Response:

16

18 This response to BCSEA IR 1.1.1 addresses BCSEA IRs 1.1.1.1 through 1.1.1.3.3. FBC 19 confirms that its July 16, 2014 letter to the Commission in the FBC PBR proceeding withdrew 20 FBC's request for approval of a 2015 (rather than 2014 as the question states) to 2018 DSM 21 expenditure schedule under s. 44.2(3), and left intact for Commission consideration in the PBR 22 proceeding the following:

- 23 approval to change the amortization period of existing and future DSM expenditures from 10 years to 15 years, effective January 1, 2014; 24
- 25 approval to discontinue semi-annual reporting on its DSM Program and to submit annual • 26 reports as of December 31 in each year, effective January 1, 2014;
- 27 approval of the following funding transfer rules: •
- 28 o funding transfers under 25 percent between approved areas be permitted without 29 prior approval of the Commission;
- 30 o funding transfers of more than 25 percent into or out of approved areas would 31 require prior approval of the Commission; and



FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 2

1 2

3

 funding transfers from an existing program to a new program would be permitted, provided the new program meets the DSM Regulation and the benefit/cost test requirements and has not previously been rejected by the Commission.

On September 15, 2014, the Commission issued its Decision and Order G-139-14 on FBC's
Application for approval of a Multi-Year PBR Plan for 2014-2018. The Commission denied
FBC's request to change the DSM expenditure amortization period from 10 to 15 years,
approved FBC's request to move to annual DSM reporting effective January 1, 2014 and
declined to rule on FBC's proposed funding transfer rules.

9 10		
11 12 13 14 15 16	1.1.1 <u>Response:</u>	approval to change the amortization period of existing and future DSM expenditures from 10 years to 15 years, effective January 1, 2014 [Reference: FBC PBR Exhibit B-1, p.11],
17	Please refer to the re	sponse to BCSEA IR 1.1.1.
18 19		
20 21 22 23 24 25	1.1.2 <u>Response:</u>	approval to discontinue semi-annual reporting on its DSM Program and to submit annual reports as of December 31 in each year, effective January 1, 2014 [Reference: FBC PBR Exhibit B-1, p.11], and/or
26		sponse to BCSEA IR 1.1.1.
20 27 28		
29 30 31 32	1.1.3 <u>Response:</u>	approval of the following program funding transfer rules:
33	Please refer to the re	sponse to BCSEA IR 1.1.1.

	-			
			FortisBC Inc. (FBC or the Company)	Submission Date:
<b>FC</b>	<b>DRTIS</b> BC <sup>**</sup>	Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)		September 18, 2014
		Response to B.C. Sustair	nable Energy Association and the Sierra Club British Columbia (BCSEA)	Page 3
	l		Information Request (IR) No. 1	
4				
1 2				
Z				
3				
4		1.1.3.1	funding transfers under 25 percent between	approved areas
5			be permitted without prior approval of the Cor	nmission;
6	_			
7	Response:			
8	Please refer	to the response to E	BCSEA IR 1.1.1.	
9				
10				
11				
12		1.1.3.2	funding transfers of more than 25 percer	
13			approved areas would require prior a	pproval of the
14			Commission; and	
15 16	Response:			
10	Response.			
17	Please refer	to the response to E	BCSEA IR 1.1.1.	
18				
19				
20				
20 21		1.1.3.3	funding transfers from an existing program to	o a new program
21		1.1.5.5	would be permitted, provided the new program	
22			Regulation and the benefits/cost test requiren	
24			previously been rejected by the Commission.	
25			PBR Exhibit B-1-1, Appendix H - Demand S	-
26			p. 11.]	<b>c</b> ,
27				
28	Response:			
29	Please refer	to the response to E	BCSEA IR 1.1.1.	
30				



Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1

## 1 2.0 Topic: GHG Emissions Reductions

2 3

### Reference: Exhibit B-1, Table 2-1, "BC's Energy Objectives Met by FBC DSM Activities," p.4

Table 2-1 lists the BC energy objectives in subsections (b), (d), (h) and (i) of section 2 of
the *Clean Energy Act*, but it omits the subsection (g) objective to reduce BC GHG
emissions by targeted amounts.

- In the Commission's proceeding concerning FBC's Application for Approval of a MultiYear Performance Based Ratemaking (PBR) Plan for 2014 through 2018, FBC
  responded to a BCSEA-SCBC information request as follows:
- "1.2.1 Does FortisBC agree that the BC energy objective to reduce GHG
  emissions applies to FortisBC in terms of long-term resource and conservation
  planning? If not, why not?

### 13 Response:

- 14Yes. In the FortisBC 2012 Long-Term Resource Plan, Table 1.1-A "Relevant15Clean Energy Act Objectives" and Appendix F includes the Clean Energy Act16Objective "to reduce greenhouse gas emissions". Please also refer to the17response to BCSEA IR1.1.2." [FBC PBR 2014-2018, Exhibit B-12]
- Please confirm that FortisBC agrees that the BC energy objective to reduce GHG
   emissions applies to FortisBC in terms of long-term resource and conservation
   planning. If not confirmed, why not?
- 22 <u>Response:</u>
- 23 Confirmed.
- 24

21

- 25
- 26 27

- 2.2 Please confirm that FBC's proposed 2015-2016 DSM expenditure schedule supports the BC energy objective to reduce BC GHG emissions. If not confirmed, why not?
- 29 30



FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 5

### 1 Response:

2 Yes. Section 2.2, Table 2-1 of the 2015-2016 DSM Expenditure Application sets out the BC 3 Energy Objectives that are met by FBC DSM activity and includes the reduction of greenhouse 4 gas emissions in BC. 5 6 7 8 3.0 Topic: **Objectives** 9 Exhibit B-1, s.2.3 Consistency with Long Term Resource Plan **Reference:** 10 3.1 Please confirm that the proposed 2015-2016 DSM expenditure schedule captures all cost-effective DSM savings during the period. Alternatively, please 11 12 explain. 13 14 Response: 15 Please refer to the response to BCUC IR 1.1.2. 16

	FO	RTIS	BC <sup>™</sup>	Applicatio	FortisBC Inc. (FBC or the Company) on for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
-				Response	to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 6
	1	4.0	Торі	c:	Low-Income Program	
:	2		Refe	rence:	Exhibit B-1, s.2.4.1; Appendix A, s.A1.7, pp.A4-5	
	3 4 5	-	4.1		e direct installation programs referred to in section A1.7 ned within, the Energy Conservation Assistance Program	•
	6	Respo	onse:			
	7 8	The di family			n programs referred to are separate from the ECAP. The	ey focus on multi-
1	9 0					
1 1: 1: 1: 1: 1:	2 3 4 5	Respo	4.2	continu	e direct installation programs referred to in section A1. Jations of programs implemented in 2014? Are they in ms implemented in 2013 but not in 2014?	•
1 1	7	The di	rect in	stallation 1 2014.	programs referred to are a continuation of programs impl	emented in 2013,
1 2						
2 2: 2: 2: 2:	2 3 4 5		4.3	recentl	e discuss whether and how the expanded definition of "lo ly amended DSM Regulation allows FBC to expand t y Conservation Assistance Program during 2015-2016.	
2	6	Respo	onse:			
2 2 2 3	8 9	qualifie	ed cus AP pro	tomers a ogram. It	tion of "low income" (higher LICO eligibility threshold, de and pre-qualified housing providers) will allow FBC to exp will allow for a greater number of participants, in that mo ria for income minimums, low-income communities can	and the scope of or customers will

addressed at one time, and the process of verifying eligibility will be less onerous. Overcoming
 all these identified barriers will ease FBC's administrative, marketing and implementation
 burdens.



1

2

3

4

5

6 7

8 9

10

11

Page 7

Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1

5.0 Topic: Rental Accommodations
Reference: Exhibit B-1, s.2.4.2, p.5; Table 4-2; Appendix A, s.A1.8; Appendix B, p.3
"2.4.2 Rental Accommodations
In 2013 FBC piloted a direct-install program of ESK-type measures in 1,324 suites of 40 rental multi-unit residential buildings (MURBs) in its service territory. The pilot provided a whole-building audit to identify additional measures (common area lighting, central space heating and hot water boilers) that could be undertaken by the building owners. The 2015-16 DSM Plan includes provision to continue this offer to additional MURBs in this target segment."
5.1 To what extent did MURB owners follow up the whole-building audits in the pilot

12 13 program, for example by initiating one or more of the recommended measures?

## 14 **Response:**

15 One MURB owner upgraded boilers at two MURBs and another MURB owner upgraded the 16 common area lighting. In each instance, the owners accessed the applicable FEU and FBC 17 rebates for the installed measures.

18

19

20

5.2 Is it feasible for FBC to eventually apply this direct-install and whole-building audit program all MURBs in the service territory? How many MURBs does FBC estimate will be completed during 2015-2016, and what proportion of the total number of MURBs in the service territory does this represent?

# 2526 Response:

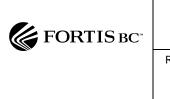
It is FBC's plan to offer the program throughout its service territory. Based on the success of the 2013 pilot project, FBC believes that an additional 40 buildings could be completed in each of 2015 and 2016. Forty buildings represents approximately 12 percent of the total number of 30 MURBs in FBC's service territory, thus approximately 24 percent of all MURBs are expected be 31 completed in the two-year 2015-16 DSM plan period.



FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 8

1	6.0	Торіс	: Deferred Capital Expenditure
2		Refer	rence: Exhibit B-1, s.5.1.3, p.12
3 4 5 6 7 8		MWh progra value deferr	tated in the previous section, the 2015-15 DSM Plan uses the LRMC of \$112 per from the 2012 LTRP to determine the avoided energy cost benefits of DSM am measures. The Company also adds a Deferred Capital Expenditure (DCE) of \$35.60 per kW per year to represent the incremental capacity savings of red infrastructure. The estimated Benefit/Cost ratios, using those avoided costs, are n at the sector/component and portfolio levels in Table 4-1 above."
9 10 11		6.1	Please provide a brief explanation of the method of determining the size of the Deferred Capital Expenditure value.
12	<u>Resp</u>	onse:	
13	Pleas	e refer	to the response to BCUC 1.3.4.1.
14 15			
16 17 18 19		6.2	Please confirm that the \$112 MWh LRMC does not include the Deferred Capital Expenditure.
20	<u>Resp</u>	onse:	
21	Confi	rmed.	
22 23			
24 25 26 27 28		6.3	Please confirm that in the present application the DCE works out to about 10% of the avoided cost, with the LRMC accounting for the other 90%. Alternatively, please explain.
29	<u>Resp</u>	onse:	
30 31		-	table shows that the DCE works out to about 5 percent of the avoided costs, with ccounting for the vast majority, i.e. 92 percent, for all measures in the 2015 DSM

32 plan.



FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 9

Benefit	% of Benefits
Energy	92%
NEB	3%
DCE	5%
Total	100%



#### 7.0 **Topic:** 1 **2015 Conservation Potential Review**

2 **Reference:** Exhibit B-1, p.1

3 "The Company intends to file a new Long-Term DSM Plan as part of the 2016 Long 4 Term Resource Plan (LTRP) filing. A dual-fuel Conservation Potential Review (the BC 5 CPR) undertaken by the FortisBC Energy Utilities (comprised of FortisBC Energy Inc., FortisBC Energy (Vancouver Island) Inc., and FortisBC Energy (Whistler) Inc.) (FEU), 6 7 BC Hydro and Power Authority (BC Hydro) and FBC will inform the 2016 Long-Term DSM Plan." 8

- 9 7.1 What steps are involved in carrying out the dual-fuel CPR? What is the 10 anticipated timeframe?
- 11
- 12 **Response:**
- 13 Please refer to the response to BCUC IR 1.10.3.



(BCSEA)

Information Request (IR) No. 1

### 1 8.0 Topic: Actual Spending

### 2 Reference: Exhibit B-1, Appendix A, p.A1

3 "DSM Plan expenditures are \$7.3 million in 2015 with an escalation to \$7.5 million in
4 2016. The 2013 approved DSM expenditure was \$7.8 million, and the 2013 actual
5 expenditure was \$6.9 million."

- 8.1 Does FBC anticipate that it will spend the entire budgeted amounts in 2015 and
  2016? If not, what factors would lead to an under-spend situation and what steps
  will FBC take to counteract such factors?
- 9

### 10 Response:

11 Please refer to the response to BCUC IR 1.7.1.

A major factor that will affect FBC's ability to spend the entire budgeted amounts in 2015 and 2016 is when the proposed DSM expenditure is accepted. Ideally the DSM expenditure will be accepted by mid- November, allowing FBC to hire staff and put in place the required contracts to deliver 2015 programs. FBC is endeavoring to meet the accelerated Regulatory Timetable for

16 the FBC DSM Application to ensure that programs can be launched in Q1 2015.



2

FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application) Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia

(BCSEA)

Information Request (IR) No. 1

Submission Date:

September 18, 2014

1 9.0 Topic: Home Energy Retrofit Offer

## Reference: Exhibit B-1, Appendix A, p.A3

3 "The main component of the Home Improvement Program (HIP) is building envelope 4 improvements (insulation and air sealing). Program delivery will be primarily through the 5 Home Energy Retrofit Offer (HERO) partnership with the FortisBC Energy Utilities, (the 6 FEU, collectively, FortisBC Energy Inc. (FEI), FortisBC Energy (Whistler) Inc. (FEW), 7 FortisBC Energy (Vancouver Island) Inc. (FEVI)) and BC Hydro, encouraging customers 8 to focus on the appropriate measure sequence up to obtaining a "whole house" 9 EnerGuide rating. Heating/cooling systems, (for example, heat pumps) are promoted 10 where applicable but tabulated under a separate plan line item. Energy Star appliances and lighting may also be marketed separately, as described below." [underline added] 11

- 9.1 What is the current status of implementation of the Home Energy Retrofit Offer
  program by FBC, the FEU and BC Hydro? If the program will be rolled out in
  stages, please describe the stages and the anticipated timing.
- 15

### 16 Response:

17 The HERO program was launched in mid-July 2014. In Phase 1 the utility partners (UPs: BC

Hydro, FortisBC Energy Utilities and FortisBC Inc.) soft launched the program to provide a buffer to work out any "bugs" if needed. Marketing was limited during that time, but will be more

20 aggressive in the fall of 2014 to promote the program for the prime heating season.

The UPs are currently evaluating feedback from key stakeholders and customers, as well as participation levels, to enhance and/or make adjustments for a program re-launch in April 2015. Marketing efforts will increase as the UPs gain more confidence in the administration and implementation processes.

The UPs are working closely with several energy efficiency building professional organizations to promote the program and provide greater coordination within the industry to better address residential energy efficiency retro-fit needs.

- 28
- 29
- 30 31
- 9.2 Please outline the differences between the Home Energy Retrofit Offer program and the FBC programs previously in place.
- 32 33



#### 1 **Response:**

2 The primary differences between the HERO program and the FBC programs previously in place 3 are:

- 4 Rebate values offered are slightly higher; •
- 5 Provides more focus on "whole home" improvements rather single measure • 6 improvements. For example, to promote deeper retro-fits and draftproofing and 7 insulation, customers must make at least one insulation improvement and make three or 8 more upgrades to receive a \$750 bonus; windows are only eligible for rebates if 9 insulation measures are installed first;
- 10 Although customers aren't required to have home energy evaluations to access rebates, all marketing materials and program structure (\$750 bonus offer) encourage energy 11 evaluations; and 12
- 13 Rebate values are now consistent across the province. •
- 14

### 15

- 16 17 9.3 Is what FBC refers to in the Application as the Home Energy Retrofit Offer the 18 same as what FBC refers to on its website as the Home Energy Rebate Offer? If 19 not, please explain the differences.
- 20

#### 21 Response:

22 Both references are to the same program. The program name used in the Application is 23 incorrect. The Home Energy Rebate Offer is the correct name.



Submission Date:

September 18, 2014

1	10.0	Торіс	Heat Pump Program
2		Refer	nce: Exhibit B-1, Appendix A, p.A3
3		"A1.2	HEAT PUMP PROGRAM
4 5 7 8 9 10		energ shows marke electri (for c	s temperate winters and hot summers, the FBC service area is an ideal climate for efficient heat pumps. Further, recent Residential End Use Survey (REUS) data that 38 percent of FBC customers have electric heat, indicating a large potential for the program. The program will continue with incentives for owners to upgrade heating systems to air source heat pumps, either central (forced-air) or ductless istomers with electric baseboard heating). A modified geoexchange (ground- heat pump) offer will be designed to minimize the free-ridership of past ms."
12 13		10.1	Is the Heat Pump program within the Home Energy Retrofit Offer program? Separate?
14 15	Respo	onse:	
16	The H	eat Pur	p program is within the HERO program and not separate.
17 18			
19 20 21 22 23 24 25	Respo	10.2 ] <b>onse:</b>	Please confirm that FBC's Heat Pump program is available for electrically heated homes only. [Reference: <u>http://www.fortisbc.com/NaturalGas/Homes/Offers/HomeEnergyRebateOffer/Pages/Rebate-details.aspx</u>
26	Confir	med. F	BC's Heat Pump program is only available for electrically heated homes.
27 28			
29 30 31 32 33		10.3	Given that the Home Energy Retrofit/Rebate Offer is a joint initiative with the FEU, please explain why the FBC Heat Pump program is not available to customers with homes heated by natural gas. Please address technical issues cost-effectiveness issues and regulatory issues as necessary.



×	FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
	Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 15

#### 1 **Response:**

- 2 Please refer to the response to BCUC IR 1.1.5.1.
- 3
- 4
- 5
- 6
- 7
- 8
- 10.4 Has FBC examined making the Heat Pump program available to customers with homes heated by natural gas or other non-electrical means? If so, what were the results? If not, does FBC plan to do so in the future? If not, why not?

### 9 10 Response:

11 Please refer to the response to BCUC IR 1.1.5.

- 12
- 13

- 14
- 15 10.5 Does FBC agree that upgrading a natural gas home heating system to an energy 16 efficient heat pump system would both reduce energy consumption and reduce 17 GHG emissions?
- 18 19 Response:

20 FBC does not agree. Upgrading a natural gas home heating system to an energy efficient heat 21 pump system would decrease overall GHG emissions. However, aggregate electric system 22 load would increase. Also, from a customer perspective, heating costs would be expected to 23 rise since natural gas heating is generally more cost-effective than heating with an electric heat 24 pump.



Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1

1	11.0	Topic:	Heat Pump Water Heaters
2		Refere	ence: Exhibit B-1, Appendix A, p.A4
3		"A1.5 \	WATER HEATING MEASURES
4 5 6 7		encour heat p	kimately 50 percent of FBC customers' water is heated with electricity. To rage efficient water heating, FBC will continue to offer rebates for the installation of pump water heaters for customers with electrically heated water. Low flow rheads will be distributed via Energy Saving Kits and other channels."
8 9 10	_	11.1	Please discuss the extent to which heat pump waters are a feasible energy- saving option for customer with natural gas water heating.
11	<u>Respo</u>	nse:	
12 13			believe this is a feasible option, as the customer's payback is approximately 20 nt rates, using the FBC Home Energy Calculator:
14	http://v	ww.for	tisbc.com/Rebates/HomeEnergyCalculator/Pages/Home-energy-calculator.aspx
15	The pa	yback v	would be further extended if an electrical service update was necessary.
16 17			
18 19 20 21 22	Respo	11.2 • <b>nse:</b>	Why is the FBC program for heat pump water heaters not available to customers with natural gas water heating?
23	Please	refer to	o the response to BCUC 1.1.5.
24 25			
26 27 28 29 30		11.3	Has FBC examined making its heat pump water heaters program available to customers with natural gas water heaters? If so, what were the results? If not, does FBC plan to do so in the future? If not, why not?



FortisBC Inc. (FBC or the Company) Application for Approval of Demand Side Management (DSM) Expenditures for 2015 and 2016 (the Application)	Submission Date: September 18, 2014
Response to B.C. Sustainable Energy Association and the Sierra Club British Columbia (BCSEA) Information Request (IR) No. 1	Page 17

#### 1 **Response:**

2 FBC has performed a high-level analysis of the economics of such a program (please refer to 3 the response to BCSEA IR 1.11.1). FBC does not plan to do so in the foreseeable future as 4 long as the customer economics remain unfavourable for switching from gas to an electric heat 5 pump water heater.

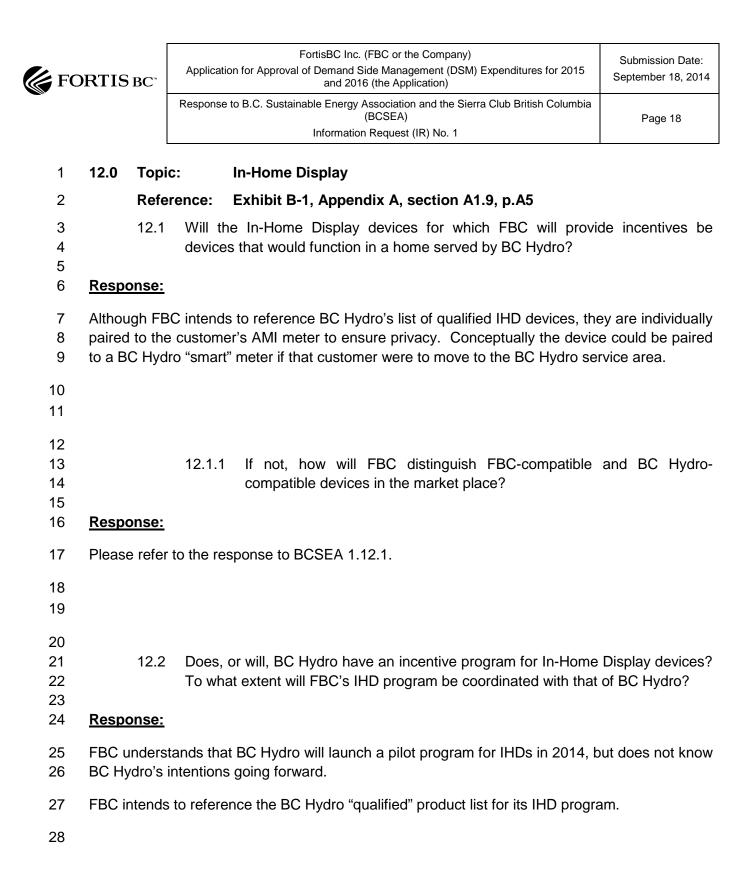
- 6
- 7
- 8

- 9
- 10 11
- 11.4 Does FBC agree that replacing a natural gas water heater with a heat pump water heater would both reduce energy consumption and reduce GHG emissions?
- 12

#### 13 Response:

14 FortisBC does not agree. Replacing a natural gas water heater with a heat pump water heater 15 would decrease overall GHG emissions. However, aggregate electric system load would 16 increase. Also, from a customer perspective, water heating costs would be expected to rise 17 since natural gas water heating is generally more cost-effective than heating with a heat pump

18 water heater.





**Topic:** 1 13.0

### **Commercial Programs**

#### **Reference:** Exhibit B-1, Appendix A,

- 3 Please describe in more detail the LED street lighting initiative. Does the program 13.1 4 involve a procurement component? Is BC Hydro involved? In addition to 5 municipalities, what other entities that maintain outdoor lighting will be eligible for 6 the program? What percentage of the existing street lights will be upgraded? Is 7 street lighting generally metered?
- 8

2

#### 9 **Response:**

10 FBC's street light program provides incentives for municipalities to upgrade their streetlights to 11 LED technology. FBC's 2011 inventory shows approximately 20 thousand streetlights in the 12 FBC service area: of which 3 thousand street lights are owned by FBC and the majority are 13 customer owned, mostly by municipalities. Approximately 25 percent of the existing street lights 14 are forecast to be upgraded over the 2015-16 DSM Plan period.

15 In addition to incentives provided by FBC, municipalities can access procurement services, 16 including a pre-gualified product list with volume pricing discount, through the LED Street Lights 17 Across B.C.; a joint initiative of the provincial government and BC Hydro PowerSmart. The 18 initiative offers a suite of tools and services to assist with the adoption of LED street lights, as 19 well as an opportunity to convene with like organizations that have already purchased products 20 to share knowledge and lessons learned.

21 Other entities that maintain outdoor lighting e.g. parking lots, are eligible for incentives under the 22 Commercial Lighting program.

23 24 25 26 13.2 Has, or will, FBC consult with the Irrigation Ratepayers Group regarding the 27 irrigation DSM program? What have been the results of such consultation? 28 29 Response:

30 In 2011 FBC consulted with the Irrigation Ratepayers Group, via a survey, focus groups and 31 interviews with individual ratepayers and trade allies, e.g. suppliers and contractors. These 32 consultations led to a pilot Irrigation Program, focused on pumping systems, that ran in 2012-33 2013 but experienced limited uptake. The offerings in 2015-2016 will draw on the lessons 34 learned from the pilot, prior consultations and may involve further consultation with irrigation 35 ratepayers in 2015.



1 14.0 **Topic: Industrial Sector Programs** 

#### **Reference:** Exhibit B-1, Appendix A, s.A3

- 3 "...Standardized product offers (for example, variable-speed air compressors) will be 4 offered through the DSMC rebate portal."
  - 14.1 Please list FBC's industrial customers.

#### 7 Response:

8 FBC does not believe it is appropriate or necessary to provide a list of industrial customers. 9 However, please refer to the response to BCUC IR 1.7.7, that provides a characterization of 10 them.

11

2

5

6

- 12
- 13 14

14.2 What is the Demand-Side Management Central (DSCM) portal?

### 15

#### 16 **Response:**

17 The DSMC portal is a software tool that manages the end-to-end DSM business process, from 18 on-line enrollment (application form) to approval & fulfillment, to tracking and reporting, to 19 assisting with program design and process flow. It includes some contact management 20 functionality, DSM measure and equipment libraries, cost effectiveness testing for improved 21 program visibility and management, as well as a central database for all validated program data.

- 22
- 23
- 24
- 25 14.3 In the phrase "Standardized product offers" does "standardized" mean the same 26 size of incentive for a certain product for any and all FBC industrial customers? 27 Or does "standardized" mean in relation to BC Hydro incentives for the same 28 products?
- 29
- 30 **Response:**

In the phrase "Standardized product offers", "standardized" means the same size of incentive for 31 32 a certain product for any FBC industrial customer that qualifies for such an incentive, subject to 33 the program terms and conditions. The FBC incentive amounts do not necessarily align with BC 34 Hydro offers.



#### 15.0 **Topic:** Integration with FEU EEC 1

#### **Reference:** Exhibit B-1, Appendix A, p.A13

3 "FBC will continue to work towards full integration of the marketing and processing of 4 FBC and FEU program offers for customer-facing components of program offers, 5 especially in the shared service territory. The intent is to provide customers with "one-6 stop" information and program access via the website, other marketing collateral and 7 face-to-face interactions." [footnote omitted]

- 8 Please outline the milestones and expected timing of FBC's integration of the 15.1 9 marketing and processing of the customer-facing components of FBC and FEU 10 DSM program offers during 2015-2016.
- 11

2

#### 12 Response:

Program	Status	Timeline
Home Improvement Program (through HERO, includes building envelope and heat pumps)	Integrated	Current
New Home Program	Integrated	Current
Appliance Program	Integrated (where applicable)	Current
Low-Income ESKs	Integrated	Current
Low-Income ECAP	In Progress	July 2015
Low-Income Direct Install	Integrated	Current
Rental (MURBs)	Integrated	Current
Lighting	N/A	
Water Heating	Integrated	Current
Behavioral	Integrated (where applicable)	Current
Commercial Lighting	N/A	
Building Improvement	In progress (work collaboratively with FEU)	Late 2015
Computers	N/A	
Municipal	Integrated	Current
Irrigation	N/A	
Industrial	In progress (work collaboratively with FEU)	Late 2015



**Topic:** 1 16.0 **Community Energy Diet** 

#### **Reference:** Exhibit B-1, Appendix B, p.2

3 "The Kootenay Energy Diet was launched in early 2013 with funding from NRCan 4 (Natural Resources Canada) and the Columbia Basin Trust, based on the success of the 5 2011-2012 Rossland Energy Diet pilot project. The Okanagan Energy Diet was launched 6 in mid-2013 for the Okanagan region. Implemented in partnership with the EEC group, 7 the two marketing campaigns proved particularly successful in promoting home energy 8 assessments and deeper retrofit improvements."

9 10

2

- Does FBC plan to run Energy Diet initiatives during 2015-2016? How will these 16.1 be different or similar to the Kootenay and Rossland projects?
- 11

#### 12 Response:

13 FBC plans to launch one or two Energy Diets (EDs) in late summer/early fall of 2016. Based on 14 the outcomes of the previous pilot projects, these EDs will focus on smaller "communities" (i.e., 15 Rutland vs the whole of the City of Kelowna) and on areas that include more 20+ year old 16 homes with less efficient envelopes. The program would also promote ECAP and MURB 17 upgrades so it becomes a community-wide initiative. All other elements of the promotional 18 program would stay intact.