

Diane Roy Vice President, Regulatory Affairs

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

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

August 20, 2018

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)

Project No. 1598939

2017 Cost of Service Analysis and Rate Design Application (the Application)

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

On December 22, 2017, FBC filed the Application referenced above. In accordance with the British Columbia Utilities Commission Order G-101-18 establishing the Regulatory Timetable for the review of the Application, attached please find FBC IR No. 1 to BCSEA on the Evidence of Phillip Raphals, Helios Centre (Exhibit C2-6).

If further information is required, please contact Corey Sinclair at (250) 469-8038.

Sincerely,

FORTISBC INC.

Original signed:

Diane Roy

Attachments

cc (email only): Commission Secretary Registered Parties



1 **1.0** Reference: Evidence of Philip Raphals, Page 21

- 2 "FBC is seeking to increase the residential customer charge from \$16.05 to \$18.70 per
 3 month (phased in over 5 years)."
- In the opinion of Mr. Raphals, is there a cost-based reason for the Customer
 Charge that exists as part of the residential conservation rate to differ from the
 Customer Charge that forms part of the existing flat residential rate RS 03?
- 7

8 2.0 Reference: Evidence of Philip Raphals, Page 9

- *footnote #22.* Hydro-Québec Distribution, Présentation de la Méthodologie de Calcul
 des Coûts évités, Régie de l'énergie, file R-3610-2006, HQD-15, doc. 2, Annexe A, URL
 http://www.regie-energie.qc.ca/audiences/3610-
- 12 06/Requete3610/hqd_15_02_annexe_a_PGEE.pdf
- 13 2.1 Please submit a full French to English translation of the PowerPoint cited on
 14 Page 9, footnote 22.
- 15

16 **3.0 Reference: Evidence of Philip Raphals, Page 10**

"FBC points out that the Deferred Capital Expenditure (DCE) is a high-level system-wide
estimate for the marginal costs of transmission and distribution, and does not separate
out a DCE value for the residential or any other customer class. <u>One plausible approach</u>
for allocating DCE among customer classes would be in relation to their contribution to
the coincident peak (CP)" [underline added]

- 3.1 Please confirm the proposed approach in Mr. Raphals submission for allocating
 the high-level system-wide Deferred Capital Expenditure (DCE) estimate among
 customer classes in relation to their contribution to the coincident peak is the
 original work of Mr. Raphals.
- 3.1.1 If not confirmed, please provide a reference (in English) for allocating a
 high-level system-wide DCE estimate among customer classes in relation
 to their contribution to the coincident peak.
- 29

30 4.0 Reference: Evidence of Philip Raphals, Page 11

31 "The full avoided cost is therefore: \$119.77/MWh * (1 + 8.3%) = \$129.71/MWh"

FORTIS BC[®]

FortisBC Inc. (FBC) 2017 Cost of Service Analysis and Rate Design Application (the Application)	Submission Date: August 20, 2018
FBC Information Request (IR) No. 1 to BC Sustainable Energy Association and Sierra Club BC (BCSEA) on Evidence	Page 2

- 4.1 Please confirm \$119.77 per MWh represents the avoided cost per MWh at the meter and \$129.71 per MWh represents the avoided cost per MWh at the point of interconnection to FBC's system in the equation "\$119.77/MWh * (1 + 8.3%) = \$129.71/MWh"
- 4.2 If confirmed, does Mr. Raphals agree that the calculation should be \$119.77 per
 MWh / (1 8.3%) = \$130.61 per MWh rather than \$119.77 per MWh * (1 + 8.3%)
 = \$129.71 per MWh, given 1MWh at the point of interconnection results in 1MWh
 less 8.3% losses being delivered to the customer meter?"
- 9 4.2.1 If not, why not?
- 10

1

2

3

4

11 5.0 Reference: Evidence of Philip Raphals, Page 12-13

"In Table 8-1 of the LTERP, FBC identifies the UEC of this High DSM resource option at
 \$114 (\$2015)/MWh, substantially higher than the \$96 associated with the full A4
 portfolio"

15 Reference: FBC. 2016 LTERP and LT DSM Plan

- 16 Table 8-1: FBC Demand-Side and Supply Side Resource Options. FBC Errata filed as
- 17 Ex B-1-1. September 15, 2017.

Table 8-1: FBC Demand-Side and Supply-Side Resource Options				
Resource Option	UEC (\$/MWh)	UCC (\$kW-year)		
Base DSM	\$ <u>86</u>	N/A		
High DSM	\$ <u>98</u>	N/A		
Max DSM	\$ <u>108</u>	N/A		
PPA Tranche 1 Energy	\$47 - \$56	N/A		
PPA Tranche 2 Energy	\$85 - \$130	N/A		
PPA Capacity	N/A	\$96 - \$115		
Market Purchases	\$34 - \$64	\$169 - \$355		
Wood-Based Biomass	\$118 - \$188	\$663 - \$774		
Biogas	\$77 - \$101	\$621 - \$838		
Municipal Solid Waste	\$134	\$1,031		
Geothermal	\$132 - \$217	\$857 - \$1,506		
Gas-Fired Generation (CCGT)	\$82 - \$100	\$147 - \$279		
Similkameen Hydro Project	\$202	\$1,298		
Gas-Fired Generation (SCGT)	N/A	\$80 - \$143		
Pumped Hydro Storage	N/A	\$217		
Onshore Wind	\$111 - \$145	\$1,219 - \$1,618		
Run-of-River Hydro	\$87 - \$150	\$1,230 - \$1,924		
Solar	\$169 - \$184	\$1,399 - \$1,413		

Table 8-1: FBC Demand-Side and Supply-Side Resource Options

18

195.1Please confirm if the UEC of \$114 per MWh associated with the High DSM20resource option shown in Mr. Raphals submission was intended to be \$98 per21MWh.

FORTIS BC [*]	FortisBC Inc. (FBC) 2017 Cost of Service Analysis and Rate Design Application (the Application)	Submission Date: August 20, 2018
I OKI IS BC	FBC Information Request (IR) No. 1 to BC Sustainable Energy Association and Sierra Club BC (BCSEA) on Evidence	Page 3
1	5.1.1 If confirmed, please redo the calculation on page 13	of Mr. Raphals

- 5.1.1 If confirmed, please redo the calculation on page 13 of Mr. Raphals submission using a UEC of \$98 per MWh for the High DSM resource option.
 - 5.1.2 If not confirmed, please provide a citation for the UEC of \$114 per MWh associated with the High DSM resource option.