

FortisBC Inc. 2016 Long-Term Electric Resource Plan and Long-Term DSM Plan
Industrial Customer Group
Information Request No. 1
March 7, 2017

1. Reference: LONG-TERM LOAD FORECAST

Exhibit B-1, Volume 1, p. 54; Appendix E, p. 2, p. 11 and p. 16
System losses and Advanced Metering Infrastructure (AMI) impact

- 1.1. Please provide the difference between the total billed (and metered) electricity and the sum of the total purchased and generated electricity on an annual basis since 2011. Please express this amount as both an energy quantity and as a percentage of the sum of the total purchased and generated electricity.
- 1.2. Please provide a table that shows on an annual basis since 2011 the losses assigned to each of FortisBC's transmission and distribution systems. Please also provide a table that shows the total distribution-connected loads, direct transmission-connected loads (less transmission-connected industrial loads) and transmission-connected industrial loads in each of the same years.

2. Reference: LONG-TERM DEMAND-SIDE MANAGEMENT PLAN
Exhibit B-1, Volume 2, Section 3.1, pp. 14-15;
DSM Scenario Consultation

"Customer feedback to key aspects of the LT DSM Plan was sought through an online "bulletin board" approach delivered by Sentis Research (Sentis). Sentis recruited both residential and commercial participants and hosted and moderated four sets of bulletin board discussion groups. Three groups engaged residential customers (in the regions of Central Okanagan, South Okanagan and Kootenay/Boundary) and one group engaged commercial customers (for the entire FBC service area). The consultation findings are reported in Appendix B of the LT DSM Plan."

- 2.1. Please explain whether and how industrial customers' feedback was sought and incorporated in the LT DSM Plan.
- 2.2. Please provide a table that shows on an annual basis since 2011 the approved, forecast and actual spending on industrial DSM programs and initiatives. For each program and initiative please provide the cost, the amount of forecast and realized energy savings, and the forecast and realized Benefit/Cost ratio.

3. Reference: LONG-TERM DEMAND-SIDE MANAGEMENT PLAN
Exhibit B-1, Volume 2, Section 3.1, p. 22;

New in 2016 was the offer of subsidized facility-wide energy efficiency assessments and detailed feasibility studies to qualifying industrial customers.

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FBC will offer rebates through the Custom Business Efficiency program... .

- 3.1. Please comment on whether self-generation customers will be eligible for subsidized facility-wide energy efficiency assessments and detailed feasibility studies?
 - 3.2. Please comment on whether self-generation customers will be eligible for the Custom Business Efficiency program, and identifies any restrictions that may be unique to self-generation customers?
4. Reference: LONG-TERM DEMAND-SIDE MANAGEMENT PLAN
 Exhibit B-1, Volume 2, p. 24; 2007 BC Energy Plan, p. 5;
 Self-generator eligibility

FortisBC states on page 24 of its 2016 LT DSM Plan: “In turn, the DSM financial incentives that are made available to qualified customers, under DSM programs, are predicated on reduced electricity consumption or demand to the Company.”

The 2007 BC Energy Plan states on page 5: “... the plan supports utilities in [BC] and the [Commission] pursuing all cost-effective and competitive demand side management programs”.

- 4.1. Please explain whether FortisBC considers the direction provided by the 2007 BC Energy Plan to be a provincial objective, or one specific only to reduced electricity consumption or demand to FortisBC.
- 4.2. Please explain how FortisBC’s self-generating customers should seek additional DSM incentives for high-ranking TRC opportunities that may not be pursued if FortisBC only provides incentives on a “sliding scale” basis.
- 4.3. Please provide any assessment or analysis FortisBC has performed to identify high-ranking TRC DSM opportunities for self-generating customers that would be pursued but for the reduced “sliding scale” incentive. Has FortisBC made any estimate of the costs and energy savings of such foregone opportunities? Has FortisBC consulted with its self-generating customers to identify any such opportunities?
- 4.4. Please provide on a confidential basis an example of how the financial incentives might be calculated for the City of Nelson and for Celgar making illustrative assumptions about load, self-generation, and energy savings?

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- 4.5. Please file and comment on the relevance of Order G-16-15 as clarified by Commission letter dated March 25, 2015 to the proposed calculation of financial incentives for self-generation customers?
 - 4.6. Please calculate the financial incentive for the DSM measure that was the subject of Order G-16-15?
 - 4.7. Please confirm that the proposed calculation of financial incentives for self-generation customers is not contemplated by legislation or regulations?
 - 4.8. Please comment on whether reduced financial incentives as proposed by FortisBC for self-generation customers can be expected to reduce program participation by self-generation customers?
 - 4.9. Please comment on whether BC Hydro DSM programs reduce financial incentives in proportion to the share of potential energy savings to BC Hydro for its self-generation customers?
5. Reference: LONG-TERM DEMAND-SIDE MANAGEMENT PLAN
 Exhibit B-1, Volume 2, Appendix A, Section 2.1.1.2
 Conservation Potential Review

Navigant allocated the electricity generated by Nelson Hydro to the residential and commercial sectors in proportion to the breakdown of sales provided by Nelson Hydro.

Self-generated electricity estimates were also determined for each industrial segment and were added to FortisBC Electric sales.

- 5.1. Please comment on whether the BC CPR distinguishes energy savings potential for self-generation customers from other customers?
- 5.2. Please comment on whether electricity intensity of industrial processes used in the BC CPR accounts for self-generation?
- 5.3. Please comment on whether the CLEAResult model would incorporate changes in electric and gas use intensity with changes in self-generation output?
- 5.4. Please explain why self-generation electricity estimates were added to FortisBC Electric sales?