

1 Q. Reference: Hydro's *Bi-weekly Energy Supply Report For the Island Interconnected*  
2 *System for the Period Ending February 25, 2016*, Page 2, Figure 1.

3

4 Similar to Figure 1 – Total System Energy Storage, please provide a plot of reservoir  
5 levels that includes the following:

- 6 (i) 2016 actual energy storage,  
7 (ii) 2016 actual energy storage less energy provided by thermal and standby  
8 generation sources to support reservoir levels,  
9 (iii) Maximum Operating Level, and  
10 (iv) Minimum Operating Level.

11

12

13 A. Hydro started using thermal generation to support reservoir levels on January 4,  
14 2016. Hydro stopped using thermal and standby generation to support reservoir  
15 levels on April 14, 2016. From February 1, 2016 to February 26, 2016, stand-by  
16 generation was used to support reservoir levels because of limitations in the  
17 availability of Holyrood. During this period approximately 800 GWh of thermal  
18 generation was used.

19

20 Figure 1 plots the actual energy storage in 2016 with the maximum operating level  
21 and the minimum storage target. Given that all thermal and standby generation  
22 reduces the use of hydraulic resources it is impossible to differentiate between  
23 thermal use for reliability and thermal use for reservoir support, so the plot  
24 requested in item (ii) has not been provided.

Figure 1 2016 Total System Energy Storage

