

1 Q. **Reference: Reliability and Resource Adequacy Study 2022 Update, Volume III, page 48-49.**

2 Considering fossil-fired replacement of Bay d’Espoir generation displaced by the need to hold a  
3 reserve for operation as a backup supply source post- Bay d’Espoir Unit 8 and considering the  
4 level at which a gas turbine unit as an alternative to Bay d’Espoir Unit 8 would have to operate,  
5 compare and quantify the environmental impacts of Bay d’Espoir Unit 8 versus a gas turbine unit  
6 as an alternative.

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9 A. Unit 8 at the Bay d’Espoir Hydroelectric Generating Facility (“Bay d’Espoir Unit 8”) is being  
10 proposed as an extension to an existing facility and will not require any significant expansion of  
11 the reservoir. As such, the environmental impact associated with the construction is expected to  
12 be minimal.

13 The primary environmental impact of a gas turbine is driven by the emissions produced through  
14 generation. The forecast generation from any potential new gas turbines would be dependent  
15 on a variety of factors including load growth, system conditions, and the mix of other generation  
16 expansion options being considered. However, since the gas turbines would be constructed to  
17 provide firm capacity, it is reasonable to assume that generation from the units would be  
18 minimal. Analyses of the generation, including emissions from potential gas expansion options,  
19 will be completed for the Reliability and Resource Adequacy Study – 2023 Update and will be  
20 included in any process to obtain regulatory approval to construct Bay d’Espoir Unit 8.