

- 1 Q. Please provide the fixed charge rates, including operation and maintenance costs, that  
 2 would be used for annualizing the capital costs of the supply expansion options under  
 3 consideration in Volume III of the *Reliability and Resource Adequacy Study*.  
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- 6 A. As per Newfoundland and Labrador Hydro’s discussion with The Liberty Consulting Group  
 7 on May 15, 2019, Hydro has provided the levelized annual cost of capacity for the  
 8 expansion options considered in the study. The values are included in Table 1, ordered  
 9 from lowest to highest cost. The costs include capital costs and fixed operation and  
 10 maintenance costs. They do not include administration costs or return on investment. The  
 11 costs also do not include variable costs including fuel and operation and maintenance costs.

**Table 1: Fixed Annual Costs for Expansion Options**

Plant Name	Annual Cost of Capacity (\$000/MW/year)
Hydro – Bay d’Espoir Unit 8	212
Battery - 20 MW	223
Gas Turbine: Greenfield 132 MW	227
Gas Turbine: Greenfield 264MW	247
Gas Turbine: Greenfield 66 MW	256
CCCT: <sup>1</sup> 170 MW	286
Hydro: Exploits Expansion	849
Hydro: Cat Arm Unit 3	903
Hydro: Island Pond	991
Hydro: Portland Creek	1033
Hydro: Round Pond	1118
Wind: 100 MW	1210
Wind: 12 MW	1414

<sup>1</sup> Combined Cycle Combustion Turbine (“CCCT”).