

1 Q. **Reference: Attachment 1- Long-Term Supply for Southern Labrador - Economic and Technical**  
2 **Assessment**

3 Further to the response to LAB-NLH-015, page 3 of 5, lines 23-27, please provide the estimates  
4 and assumptions Hydro used in deriving the diesel unit and diesel plant replacement costs in its  
5 economic analysis.

6  
7

8 A. The assumptions and estimates used in deriving the diesel unit and diesel generating station  
9 replacement costs are listed below:

- 10 • Diesel genset replacement costs were developed using historical costs and the most  
11 recent genset costs provided by vendors;
- 12 • Future diesel generating station replacements were assumed to cost a percentage of the  
13 estimated cost for a new diesel generating station in Charlottetown (Alternative 2)  
14 based on diesel generating station size; and
- 15 • All diesel generating station replacements, with the exception of Charlottetown, were  
16 assumed to be constructed in their existing location. The current Charlottetown site has  
17 limited physical space and likely would not support a new diesel generating station.

18 The unit replacement costs within the cost-benefit analysis are provided in Table 1.

**Table 1: Genset Replacement Costs**

Size (kW)	Cost (\$)
250	1,700,000
300	1,900,000
500	2,200,000
545	2,200,000
600	2,500,000
725	2,800,000
910	2,800,000
1,000	3,300,000
1,500	3,900,000
1,800	4,200,000
2,200	4,600,000