

1 Q. Reference: Teshmont Report - Section 5 – HVDC Reliability Data (Part 5.2) Data  
2 Provided by Nalcor Energy (pg 21):

3 ***5.2. Data Provided by Nalcor Energy***

4 ***“The forced outage rates and availability of the HVDC systems are highly***  
5 ***dependent on their design, installation, and location (for example availability of a***  
6 ***spare converter transformers and/or submarine cables can significantly improve***  
7 ***the reliability of the overall system). Therefore, unless details of a specific system***  
8 ***are available, an accurate estimate of its forced outage rates and availability***  
9 ***cannot be calculated. For the purpose of this study, Teshmont is planning to use***  
10 ***the following values, which are based on the information that was provided to***  
11 ***Teshmont by Nalcor Energy.”***

12 In providing a probabilistic reliability assessment, what information would  
13 Teshmont typically request to complete a full and accurate review?

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16 A. Teshmont would like to clarify that it will be technically challenging to claim a “full  
17 and accurate” probabilistic reliability assessment study can be conducted. The  
18 concept of probabilistic reliability assessment is a probabilistic approach to assess  
19 future system reliability. The analysis would rely on detailed understanding for  
20 industry available reported statistics (failure rates and repair times). Next steps  
21 would be a detailed comparative assessment for the provided utility outage  
22 statistics with both Teshmont’s experience and the reported industry outage  
23 statistics.