

1 Q. **Tab E; Volume 1: 2021 Capital Projects over \$50,000 but less than \$200,000 (Purchase SF6 Gas**  
2 **Recovery Systems)**

3 Hydro states on page E-11, lines 9-11, that “While SF<sub>6</sub> is used industry wide for high voltage  
4 breakers due to its excellent dielectric strength, it is a harmful greenhouse gas that is 22,800  
5 times more powerful than carbon dioxide.”

6 As SF<sub>6</sub> is a harmful greenhouse gas, is Hydro aware of any discussions or analyses in the industry  
7 as to a possible replacement of this medium? If so, please provide details.

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10 A. To Newfoundland and Labrador Hydro’s knowledge, at this time the only possible replacement  
11 for high-voltage circuit breakers containing SF<sub>6</sub> being discussed or analyzed in the industry is the  
12 Siemens 3AV1 blue high-voltage circuit breaker. As of February 2020, Hydro is aware of six 72.5  
13 kV blue breakers that are in operation, none of which are in Canada.