

1 Q. Is wind a viable alternative for electricity production in NL? How do average wind speeds and
2 levels of wind electricity production in NL compare to the province of Ontario, and the states of
3 Minnesota and Arizona? To what extent do freezing temperatures such as those experienced in
4 NL impact wind generation development?

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7 A. Wind generation is a viable alternative for electricity production in Newfoundland and
8 Labrador,¹ as evidenced by the two wind farms in St Lawrence and Fermeuse, which have been
9 generating since 2009. At this time, Newfoundland and Labrador Hydro (“Hydro”) does not track
10 the impact of temperature on generation. However, a detailed analysis of the historical
11 generation from both wind farms, which includes the full impact of weather conditions, can be
12 seen in the “Reliability and Resource Adequacy Study – 2019 Update.”²

13 Hydro does not currently track wind speed or generation data for other jurisdictions.

¹ While wind generation is a reliable source of energy, the variable nature of wind generation means that it cannot be relied upon for firm capacity to the same extent as conventional generation. As discussed in the “Reliability and Resource Adequacy Study,” Newfoundland and Labrador Hydro, November 15, 2019, Hydro maintains that a capacity contribution of 22% for existing and incremental wind generation is appropriate.

² “Reliability and Resource Adequacy Study,” Newfoundland and Labrador Hydro, November 15, 2019, vol. I, att. 1.