

1 Q. To what extent can the province's hydro reservoirs be used to balance the variability of  
2 production from renewable energy sources such as wind and solar? Can hydro reservoirs be  
3 called upon quickly enough to balance variations in wind and solar production?  
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6 A. Newfoundland and Labrador Hydro ("Hydro") reached out to an external consultant, Hatch Ltd.,  
7 in 2022 to conduct a study on wind power integration, including an assessment on the ability of  
8 the Island Interconnected System's reservoirs to incorporate the variability of wind generation.

9 Please refer to Attachment 1 of Hydro's response to PUB-NLH-232 for the "Wind Power  
10 Integration Study"<sup>1</sup> and Attachment 2 for a copy of the presentation providing a summary of the  
11 Wind Integration Study.

12 To date, Hydro has not studied the impacts of the integration of solar energy on the system.

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<sup>1</sup> "Wind Power Integration Study," Hatch Ltd., October 24, 2022,  
<[https://www.oasis.oati.com/woa/docs/NLSO/NLSOdocs/H-369130\\_Wind\\_Power\\_Integration\\_Study\\_Report\\_Final.pdf](https://www.oasis.oati.com/woa/docs/NLSO/NLSOdocs/H-369130_Wind_Power_Integration_Study_Report_Final.pdf)>.