Distribution

Q. Reference: "2024 Capital Budget Application," Newfoundland Power Inc., June 22, 2023, Supporting Materials, Distribution: 1.1, app. A, p. 1, Table A-1 to p. 5, Table A-5.

a) Please explain why WAV-01 was chosen for this project instead of feeders that were identified in Appendix A with worse distribution reliability data.

b) Please compare WAV-01 to the Electricity Canada average and the Atlantic Canadian utility counterparts.

A. a) See the response to Request for Information PUB-NP-029.

b) Table 1 provides a comparison of the five-year average System Average Interruption Duration Index ("SAIDI") and System Average Interruption Frequency Index ("SAIFI") performance of distribution feeder WAV-01 compared to the averages of Electricity Canada Region 2 and the Atlantic Canadian utility counterparts, excluding loss of supply and scheduled outages.

Table 1
Average SAIDI and SAIFI Performance of Distribution Feeder WAV-01, Electricity Canada – Region 2 and Atlantic Canadian Utilities Five-Year Average

	Electricity Canada Region 2	Atlantic Canada[1]	WAV-01
SAIDI	4.07	4.40	3.35
SAIFI	2.06	-	1.85

At the feeder level, the reliability performance of distribution feeder WAV-01 is on average 18% and 24% better for SAIDI when compared to the averages of Electricity Canada Region 2 and Atlantic Canadian utilities, respectively. The reliability performance is on average 10% better for SAIFI when compared to the Electricity Canada Region 2 average.

Table 2 provides a comparison of the three-year average SAIDI and SAIFI performance for the section of distribution feeder WAV-01 downstream of downline recloser WAV-01-R2 compared to the five-year averages of Electricity Canada Region 2 and the Atlantic Canadian utility counterparts, excluding loss of supply and scheduled outages.

[1] Data necessary to calculate the SAIFI performance of the Atlantic Canadian utilities is not available.

Table 2
Average SAIDI and SAIFI Performance of Distribution Feeder WAV-01, Electricity Canada – Region 2 and Atlantic Canadian Utilities

	Electricity Canada Region 2 (Five-Year Average)	Atlantic Canada[2] (Five-Year Average)	Downstream WAV-01-R2 (Three-Year Average)
SAIDI	4.07	4.40	8.77
SAIFI	2.06	-	3.98

The reliability performance of the identified section of distribution feeder WAV-01 is on average 115% and 99% worse for SAIDI when compared to the averages of Electricity Canada Region 2 and Atlantic Canadian utilities, respectively. The reliability performance is on average 93% worse for SAIFI when compared to the Electricity Canada Region 2 average.

[2] Ibid.