

- 1 **Q. (Reference CA-NP-004) With respect to customer trade-offs between cost and**
2 **reliability:**
3 **a) Is Newfoundland Power best described as a distribution company responsible**
4 **for the operation and planning of the low voltage network of power lines,**
5 **underground cables, substations etc. that deliver power to homes and businesses**
6 **in its franchise area? If not, how is Newfoundland Power best described?**
7 **b) Please provide a list and brief explanation of all documentation that**
8 **Newfoundland Power uses to plan and operate its distribution system such as the**
9 **Distribution Planning Guidelines, Schedule of Rates, Rules and Regulations,**
10 **CIAC policies, etc.**
11 **c) Please demonstrate the linkage between customer satisfaction and reliability**
12 **used to assist in determining the appropriate balance between improved service**
13 **and cost control.**
14 **d) How can Newfoundland Power gain useful information concerning customer**
15 **trade-offs between cost and reliability?**
16 **e) Does Newfoundland Power believe that customer satisfaction levels would be**
17 **improved noticeably if it could cut the average number and duration of**
18 **interruptions in half?**
19 **f) Does Newfoundland Power believe that customer satisfaction levels would**
20 **deteriorate noticeably if its average number and duration of interruptions**
21 **doubled?**
22 **g) Does Newfoundland Power believe that its customers place a premium on an**
23 **average SAIFI of 2 rather than 3 outages per year and/or an average SAIDI of 3**
24 **hours per year rather than 4 hours per year?**
25 **h) Would there be an incremental savings if Newfoundland Power were to allow**
26 **SAIDI to match to the Canadian average?**
27
28 **A. a) Newfoundland Power operates an integrated electricity generation, transmission and**
29 **distribution system throughout the island portion of Newfoundland and Labrador. The**
30 **Company is the primary distributor of electricity on the island portion of the province**
31 **of Newfoundland and Labrador, serving 87% of all customers in the province. The**
32 **Company maintains a distribution system operating at voltages of 12,500 volts to**
33 **25,000 volts. In addition, the Company maintains a transmission system operating at**
34 **voltages of 66,000 volts to 138,000 volts which transmits electricity to substations,**
35 **and converts it to distribution voltages.¹ The Company also operates 143 MW of**
36 **electricity generation, producing 421.1 GWh of electricity in 2022 with over 99% of**
37 **electricity generated from Hydroelectric plants.²**

¹ Newfoundland and Labrador Hydro is responsible for bulk transmission of electricity in the province, operating at voltages of 138,000 volts, 230,000 volts, 315,000 volts and 735,000 volts, as well as directly serving 38,000 customers mainly on the northern peninsula and in Labrador.

² $420.4 \text{ GWh} / 421.1 \text{ GWh} = 99.8\%$. See page 29 of Newfoundland Power's 2022 Sustainability Report found at <https://newfoundlandpower.com/-/media/PDFs/About-Us/Sustainable-Electricity/2022-SUSTAINABILITY-REPORT-FINAL.pdf>.

- 1 b) The primary documentation Newfoundland Power employs in the operation of its
2 distribution system are:
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4 • *Distribution Planning Guidelines* – this document is intended to be a
5 general listing of all the criteria that are to be observed when planning a
6 distribution system as well as the guidelines that are useful in planning the
7 most economical expansion of the distribution system.
8
9 • *Schedule of Rates, Rules and Regulations* – this document outlines classes
10 of service and rates for those classes along with other rules and
11 regulations.
12
13 • *Contribution in Aid of Construction (“CIAC”) Policy* – this document
14 outlines calculations of CIAC for the cost to construct and maintain a line
15 extension.

- 16
17 c) As outlined in the response to Request for Information CA-NP-004, customer
18 opinions on the value they place on reliable service can be difficult to ascertain.
19 Newfoundland Power referenced two jurisdictions in which parties determined that
20 customer “willingness-to-pay” studies did not provide substantial guidance in
21 analyzing tradeoffs between cost and reliability.
22

23 Newfoundland Power has a statutory obligation to provide safe, adequate and reliable
24 electrical service to customers at the lowest possible cost in an environmentally
25 responsible manner. The Board has recognized that fully justified capital expenditures
26 contribute to the delivery of least cost service to customers.³ The Company has had
27 consistent customer satisfaction and reliability performance over the last decade.
28

- 29 d) See part c) of this response.

- 30
31 e) Newfoundland Power does not have the information necessary to draw conclusions
32 on the hypothetical scenario in this request.
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34 Newfoundland Power observes that its reliability performance has been reasonably
35 consistent under normal operating conditions since 2013.⁴ Similarly, customers’
36 overall satisfaction with Newfoundland Power’s service delivery has been reasonably
37 consistent over the last decade.⁵ Newfoundland Power is focused on maintaining
38 current levels of service reliability for customers.
39

40 Additionally, the Company observes that the lowest level of customer satisfaction
41 recorded was during the first quarter of 2014. This survey followed widespread

³ See Order No. P.U. 7 (2002-2003), in which the Board stated: “From a regulatory perspective, efficient operations, fully justified capital expenditures and a low cost capital structure all combine to minimize revenue requirement, and hence provide least cost electricity to ratepayers.”

⁴ See Newfoundland Power’s 2025/2026 General Rate Application, Volume 1, Application, Company Evidence and Exhibits, Section 2: Customer Operations, pages 2-17 and 2-18.

⁵ Ibid, page 2-7.

1 customer outages known as “#darkNL.” Customer satisfaction was 82% in that
2 quarter.

3
4 f) See part e) of this response.

5
6 g) Newfoundland Power does not have the specific information necessary to conclude if
7 customers place a “premium” on various levels of SAIFI and SAIDI in its
8 operations.⁶

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10 As shown in the response to Request for Information PUB-NP-046, Newfoundland
11 Power’s capital investment increased by 47% over the 2013 to 2022 period. The
12 average growth rate experienced by the remaining two utilities in the Atlantic
13 Canadian comparison was 56%. On a per customer basis, the Company’s investment
14 was 7% lower than the average of the two remaining utilities in 2013, and 11% lower
15 in 2022. NB Power changed its accounting standards in 2016. Subsequent to that
16 change, Newfoundland Power observes that NB Power’s property, plant and
17 equipment relating to Transmission and Distribution (“T&D”) assets increased by
18 approximately 40% from 2016 to 2022. By comparison, Newfoundland Power’s T&D
19 assets increased by approximately 25% over the same period.

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21 In the same response, Newfoundland Power demonstrated that over the 2012 to 2021
22 period, the Company’s customers have experienced 31% fewer outage hours in
23 comparison to customers of other Atlantic Canadian utilities. The Company’s average
24 outage duration was among the lowest of any Atlantic Canadian utility over this
25 period.

26
27 h) See the responses to Requests for Information PUB-NP-148 and CA-NP-293.

⁶ See response to part c) of this Request for Information.