



NEWFOUNDLAND AND LABRADOR
BOARD OF COMMISSIONERS OF PUBLIC UTILITIES
120 Torbay Road, P.O. Box 21040, St. John's, Newfoundland and Labrador, Canada, A1A 5B2

E-mail: khopkins@newfoundlandpower.com

2019-03-15

Kelly Hopkins
Corporate Counsel
Newfoundland Power Inc.
P. O. Box 8910
St. John's, NL A1B 3P6

Dear Ms. Hopkins:

Re: Rate Mitigation Options and Impacts Reference - Information Requests

Attached are Information Requests PUB-NP-001 to PUB-NP-029 issued by the Board in relation to the above subject matter. Responses to these requests must be filed by 3:00 p.m. on **Friday, March 29, 2019**.

If you have any questions or require any clarification, please do not hesitate to contact the undersigned.

Sincerely,

Cheryl Blundon
Board Secretary

CB/cj

Enclosure

cc Gregory J. Connors, Nalcor Energy, E-mail: greg.connors@mcinnescooper.com
Peter Hickman, Nalcor Energy, E-mail: phickman@nalcorenergy.com
Rob Hull, Nalcor Energy, E-mail: robhull@nalcorenergy.com
Geoff Young, Newfoundland and Labrador Hydro, E-mail: gyoung@nlh.nl.ca
Dennis Browne, Q.C., Consumer Advocate, E-mail: dbrowne@bfma-law.com
Paul Coxworthy, Island Industrial Customer Group, E-mail: pcoxworthy@stewartmckelvey.com
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Dean A. Porter, Island Industrial Customer Group, E-mail: dporter@poolealthouse.ca
Senwung Luk, Labrador Interconnected Customer Group, E-mail: sluk@oktlaw.com

**Reference from the Lieutenant-Governor in Council
On the Rate Mitigation Options and Impacts
Relating to the Muskrat Falls Project**

INFORMATION REQUESTS

- 1 **PUB-NP-001** Please provide in Excel file format, Newfoundland Power’s monthly load
2 (GWh) and peak demand (MW) for its load on the Island Interconnected
3 System broken down by rate class for the period 2008 to 2018 and forecast
4 for 2019 to 2030, inclusive.
5
- 6 **PUB-NP-002** Further to PUB-NP-001, please provide in Excel file format, a breakdown
7 between Newfoundland Power’s sales and Newfoundland Power’s system
8 losses for GWh load and MW peak demand by month.
9
- 10 **PUB-NP-003** Please provide in Excel file format, any Newfoundland Power load forecast
11 estimates reflecting changes in load due to different future retail price
12 projections (i.e., estimation of underlying elasticity effects) and any
13 explanations for the underlying rationale for such projections. Please
14 provide any supporting data or analyses.
15
- 16 **PUB-NP-004** Please provide in Excel file format, Newfoundland Power’s number of
17 customers, at least by sector (residential, commercial, industrial) or by rate
18 class level if available. Provide this information on an annual basis for both
19 historical (2008-2018) and forecast (2019-2030) periods.
20
- 21 **PUB-NP-005** Please provide the details of all econometric and other models used to
22 develop the two most recent load forecasts. Please include the following in
23 Excel file format, where applicable.
24 a. Model specifications, statistical measures and all source data.
25 b. Clearly identify and document the source of all the model data.
26 c. All reports associated with those forecasts.
27 d. Clearly indicate the extent to which energy efficiency improvements
28 through Conservation Demand Management (CDM) programs or
29 “naturally occurring” equipment turnover, or related customer
30 response is incorporated into the load forecasts.
31
- 32 **PUB-NP-006** Please describe the nature of Newfoundland Power’s commercial and
33 industrial load, the current existence of any interruptible loads (commercial
34 or industrial), and the potential for additional interruptible load or demand
35 response, for the commercial or industrial sector.


- 1 **PUB-NP-012** Please provide any recent reports or analyses conducted by Newfoundland
2 Power assessing electrification possibilities for its service territories, or for
3 the Province.
4
- 5 **PUB-NP-013** Further to PUB-NP-012 please provide any further documentation
6 Newfoundland Power may have on the prospects for, or implications of,
7 increased electrification of end uses (transport, buildings, industry) in their
8 service territory.
9
- 10 **PUB-NP-014** Please provide in Excel file format, if applicable, any summary and detailed
11 data Newfoundland Power has on the percentage of customers that use
12 electric heat as the primary heating system, and the proportion of other fuels
13 used for heating, for each of the major sectors and with further
14 disaggregation if available (residential, small commercial, large
15 commercial, industrial, institutional, etc.)
16
- 17 **PUB-NP-015** Further to PUB-NP-014 please provide the same information for domestic
18 hot water end uses.
19
- 20 **PUB-NP-016** Please provide in Excel format, if applicable, any summary data
21 Newfoundland Power has on the proportion of electric heating systems that
22 use heat pumps in addition to or in lieu of electric resistance heating. Please
23 provide breakdowns by sector (e.g., at least residential and small
24 commercial) if or as applicable.
25
- 26 **PUB-NP-017** Please provide in Excel file format, if applicable, summary data and
27 information Newfoundland Power has in its possession concerning the
28 adoption rates of heat pumps in their service territory over the past five
29 years. If or as available, please provide indication of the type of heat pump,
30 the monthly or seasonal or annual pattern of increases in adoption of heat
31 pumps, and any other information Newfoundland Power has that would
32 assist in determining an overall estimation of heat pump adoption over the
33 next five years. As available, please indicate if the adoption rates apply to
34 those customers with existing electric heat, oil heat, or other fuel.
35
- 36 **PUB-NP-018** Further to the response to PUB-Nalcor-071 does Newfoundland Power
37 know when (if at all) Memorial University will be converting their oil
38 boilers to electric resistance boilers, and how much of their oil capacity will
39 be converted? If so, please provide any detailed information Newfoundland
40 Power has on the planned timeline, extent of conversion, consideration of
41 continuing use of oil as backup fuel, and planning for avoidance of use of
42 electric heat (fully or partially) during winter peak periods. If so, please
43 provide explicit information on the planned duration of use of electric heat
44 during the coldest days of the winter heating season.

- 1 **PUB-NP-019** Further to the response to PUB-Nalcor-071 does Newfoundland Power
2 know of the timelines of possible conversion from oil to electric heat for
3 any other large institutional or commercial facility or facilities? If so, please
4 provide such information.
5
- 6 **PUB-NP-020** Please provide in Excel file format, if applicable, any other data or
7 information Newfoundland Power may have that will assist the Board in
8 assessing which industries and/or end uses are best position to convert from
9 oil (or other non-electric fuel) to electricity, using either electric resistance
10 or heat pumps.
11
- 12 **PUB-NP-021** Please provide in Excel format, if applicable, any data, estimates,
13 projections, or insights Newfoundland Power has on the potential adoption
14 rate of electric vehicles in their service territory over the next approximately
15 ten years.
16
- 17 **PUB-NP-022** Please provide any information Newfoundland Power has on the charging
18 profiles for existing light duty electric vehicles in Newfoundland.
19
- 20 **PUB-NP-023** Does Newfoundland Power have any information, or insight, on the extent
21 to which other medium duty vehicles should be included in the
22 electrification analysis besides delivery trucks, school buses, transit buses,
23 and intercity buses?
24
- 25 **PUB-NP-024** Does Newfoundland Power have data or information concerning hourly
26 charging and load profiles available for the newly electrified St. John's
27 port? If not, does Newfoundland Power know what fraction of docking
28 happens at each hour of the day (winter and summer separately)?
29
- 30 **PUB-NP-025** Does Newfoundland Power know of the planned annual electrification of
31 the port out to 2030? (in terms of number of berths or percentage of annual
32 docking)?
33
- 34 **PUB-NP-026** Please provide any information Newfoundland Power has on the potential
35 costs associated with building out an infrastructure to allow Level 2 and/or
36 Level 3 public charging stations for electric vehicles in and around its
37 service territory.
38
- 39 **PUB-NP-027** Please provide any information Newfoundland Power has on the potential
40 costs associated with possible increases to Transmission & Distribution
41 investment to allow for implementation of Level 2 and/or Level 3 public
42 charging station infrastructure.
43
- 44 **PUB-NP-028** Have there been any time-of-use rates pilots or studies completed by
45 Newfoundland Power? If so, please describe, and indicate what hours are
46 considered peak, mid-peak, and off-peak.

1 **PUB-NP-029** Please provide in Excel format, if applicable, any information, data,
2 analyses, projections, evaluations, or other insights into Newfoundland
3 Power's assessment of the potential role and implementation details
4 concerning possible time-of-use rate structures in their service territory.

DATED at St. John's, Newfoundland this 15th day of March, 2019.

BOARD OF COMMISSIONERS OF PUBLIC UTILITIES

Per 
Cheryl Blundon
Board Secretary