

1 **Q. (Reference Application Schedule B, page 39 of 98) For the Street Lighting – LED**
 2 **Replacement Program (Pooled) project, it is stated “This project is justified on the**
 3 **obligation to provide reliable service to customers at least cost and cannot be deferred.”**
 4

5 **a) Is it true that this project cannot be deferred? Please explain the impact on**
 6 **customers if this project were delayed by a year.**

7
 8 **b) Are there other projects that would likewise be consistent with providing**
 9 **reliable power at least cost such as replacement of household/commercial**
 10 **lighting with LEDs and replacement of residential/commercial electric resistance**
 11 **heating with high efficiency heat pumps?**
 12

13 **A. a) As a public utility in the Province of Newfoundland and Labrador, Newfoundland**
 14 **Power is required to provide service to customers in accordance with the provisions**
 15 **of the *Electrical Power Control Act, 1994 (the “EPCA”)*.**
 16

17 Section 3 of the EPCA states:

18
 19 *“(b) all sources and facilities for the production, transmission and distribution of*
 20 *power in the province shall be managed and operated in a manner...*
 21

22 *(iii) that would result in power being delivered to consumers in the*
 23 *province at the lowest possible cost consistent with reliable service.”*
 24

25 Evidence filed in the Application shows that the *LED Street Lighting Replacement*
 26 *Plan* will result in both lower overall costs and improved service reliability for Street
 27 and Area Lighting customers.¹ Accordingly, deferring the *LED Street Lighting*
 28 *Replacement Plan* would not be consistent with the EPCA.
 29

30 The *LED Street Lighting Replacement Plan* proposes to replace approximately 10,000
 31 High Pressure Sodium (“HPS”) street lights with LED street lights in 2021.² This
 32 compares to the Company’s current practice which would result in approximately
 33 1,700 HPS street lights being replaced in 2021. Once a HPS street light is replaced
 34 with an LED street light, the customer begins to pay the lower LED rate.³
 35 Furthermore, street light outages are less likely to occur once an HPS street light is
 36 replaced with an LED street light.
 37

38 Delaying the *LED Street Lighting Replacement Plan* by a year would result in
 39 customers paying higher Street and Area Lighting rates associated with

¹ See the *2021 Capital Budget Application, Volume 1, LED Street Lighting Replacement Plan* at pages 3-4 and pages 7-12.

² See the *2021 Capital Budget Application, Volume 1, LED Street Lighting Replacement Plan*, page 8, Table 3 – Comparison of Alternatives: Street Light Installations.

³ Customer rates for LED street lights are between 9% and 39% less than equivalent HPS rates depending on the lighting output required. See the *2021 Capital Budget Application, Volume 1, Street Lighting Replacement Plan*, page 3, Table 1: Street Lighting Rates (October 1, 2019).

1 approximately 8,300 HPS street lights in 2021. It would also lead to increased street
2 light outages since HPS street lights would remain in service over a 7-year period as
3 opposed to the proposed 6-year period.
4

- 5 b) Projects or initiatives that involve customer adoption of energy efficient equipment
6 are typically delivered to customers through Newfoundland Power's conservation and
7 demand management programming and not the Company's capital budget
8 applications. Since 2009, through the takeCHARGE brand, Newfoundland Power
9 and Newfoundland and Labrador Hydro ("Hydro") have provided customers with
10 information and programs to help them manage their energy usage.⁴
11

12 For residential customers takeCHARGE initiatives include information and financial
13 supports for energy efficient products such as LED light bulbs, thermostats,
14 insulation, HRV systems, dimmer switches, dehumidifiers, etc. Customers are also
15 provided with relevant information and financing opportunities to assist in purchasing
16 heat pumps and other energy savings upgrades.
17

18 For commercial customers, takeCHARGE provides the Business Efficiency Program
19 (the "BEP"). The BEP program includes three components: (i) prescriptive rebates;
20 (ii) custom energy rebates; and (iii) custom demand rebates. Prescriptive rebates
21 provide financial benefits when customers purchase and install eligible energy
22 efficient products. Custom energy and demand rebates involve takeCHARGE
23 consulting with the customer on an energy or demand saving project that is
24 customized to individual customer circumstances. Incentives are provided on an
25 individualized basis for projects that are cost-effective from both the customer and
26 utility perspective.
27

28 As part of takeCHARGE program planning and monitoring, Newfoundland Power
29 performs economic and energy savings evaluations of its programs. This is to ensure
30 they are consistent with the Company's obligation to provide reliable service to
31 customers at least cost.⁵

⁴ See <http://www.takeCHARGE.nl.ca> for details regarding takeCHARGE initiative.

⁵ Newfoundland Power's methodology for evaluating customer conservation programming was approved by the Board in Order No. P.U. 18 (2016).