

WHENEVER. WHEREVER.  
We'll be there.



April 30, 2021

Board of Commissioners  
of Public Utilities  
P.O. Box 21040  
120 Torbay Road  
St. John's, NL A1A 5B2

Attention: G. Cheryl Blundon  
Director of Corporate Services  
and Board Secretary

**Re: 2021 Curtailable Service Option Report**

Ladies and Gentlemen:

In accordance with the Board's February 12, 2021 notice regarding the activation of its Business Continuity Plan to address the COVID-19 pandemic, Newfoundland Power is providing its *2021 Curtailable Service Option Report* in electronic format only.

If you have any questions, please contact the undersigned at the direct number noted below.

Yours very truly,

A handwritten signature in blue ink that reads "D. Foley". The signature is stylized and includes a long horizontal flourish at the end.

Dominic Foley  
Legal Counsel

Enclosures

cc. Shirley Walsh  
Newfoundland and Labrador Hydro

Dennis Browne, QC  
Browne Fitzgerald Morgan & Avis

**Newfoundland Power Inc.**

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**2021 Curtailable Service Option Report**

**April 30, 2021**

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**Table of Contents**

	<b>Page</b>
1.0 Purpose of Report .....	1
2.0 Costs of the Curtable Service Option.....	1
3.0 Curtable Service Option Statistics .....	2
3.1 Impact of Curtailment Request .....	2
3.2 2020-2021 Winter Season Curtailment Service Option Statistics .....	3
4.0 Summary .....	4

## **1.0 Purpose of Report**

This report summarizes the annual costs of maintaining Newfoundland Power Inc.'s ("Newfoundland Power" or the "Company") Curtable Service Option (the "Option") and the Option statistics for the 2020-2021 winter season, including the impact of curtailment on the demand of customers availing of the Option ("Option participants").

This report is submitted in accordance with Order No. P.U. 7 (1996-97), which states:

"The Applicant shall follow the directions given in Items (4) and (5) of Order No. P.U. 4 (1994-95) and provide the updated statistics, thirty days after each 'winter season' for the Board's information and evaluation."

Items (4) and (5) of Order No. P.U. 4 (1994-95) are as follows:

(4) "Accounts will be established to accumulate all costs associated with the curtable service option for purpose of evaluation at the next rate hearing.

(5) Statistics are to be compiled for the purpose of determining the impact on peak load conditions during the period in which curtailment occurred."

In Order No. P.U. 47 (2014), the Board of Commissioners of Public Utilities of Newfoundland and Labrador (the "Board") approved interim revisions to Newfoundland and Labrador Hydro's ("Hydro") Utility rate to reflect a curtable load credit (the "Curtable Credit") in the computation of billing demand for Newfoundland Power for the period December 1, 2014 to March 31, 2015.

In Order No. P.U. 9 (2016), the Board ordered continued use of the Curtable Credit, on an interim basis, effective December 1, 2015.

On December 1, 2016, the Board issued Order No. P.U. 49 (2016). In the Order, the Board approved use of the Curtable Credit on a final basis.

The Curtable Credit ensures that curtailments are requested from Newfoundland Power customers only to meet system load requirements. Previously, curtailments pursuant to the Option were also requested to reduce the demand requirements of the Company during peak load conditions.

## **2.0 Costs of the Curtable Service Option**

The operating costs incurred by Newfoundland Power in offering the Option include labour costs, telephone line and modem rental costs and the cost of curtailment credits paid to Option participants.

Table 1 compares the costs for the current period (April 2020 to March 2021) with the costs for the previous 12 months.

**Table 1:  
Curtable Service Option  
Operating Costs**

	<b>April 2020 to March 2021</b>	<b>April 2019 to March 2020</b>
Labour	\$8,103	\$9,388
Telephone Line and Modem Rentals	\$3,480	\$3,432
Curtable Credits	\$391,149	\$384,831
Total Operating Costs	\$402,732	\$397,651
Customers	24	24

The total curtable credits of \$391,149 for the current period compare to a total of \$384,831 for the same period during the previous year. The credit total for the 2020-2021 winter season is higher than the previous seasons total. This is attributable to variations in Option participant’s demand and consumption as well as the mix of Option participants achieving full, partial, or no credit.

### 3.0 Curtable Service Option Statistics

#### 3.1 Impact of Curtable Request

There were no curtable requests during the 2020-2021 winter season, apart from the Curtable Test, which was completed on the morning of December 11, 2020 from 9:00 a.m. to 11:00 a.m.<sup>1</sup>

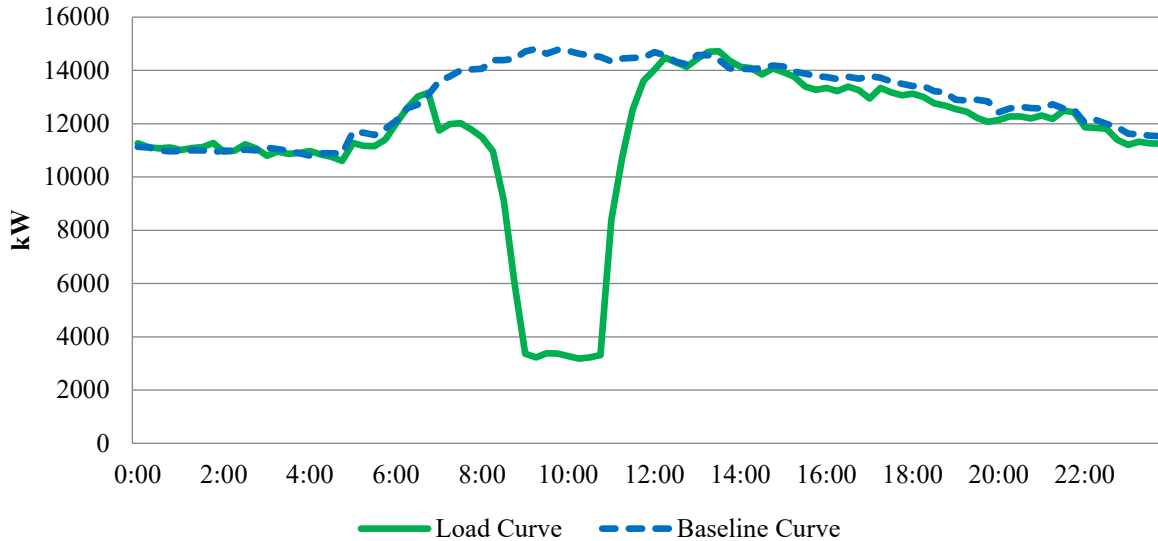
During the request, the average load curtailed was 11.4 MW, and 22 of the 24 Option participants were successful in their curtable.<sup>2</sup>

<sup>1</sup> In accordance with Hydro’s Utility rate, the Curtable Credit is required to be verified annually. The verification test involves curtailing Option participants’ load, at a minimum of the load on which the Curtable Credit is based, for a period of one hour (the “Curtable Test”).

<sup>2</sup> Curtable is measured based on a comparison of the aggregate customer load curve for the curtable event day to a *baseline curve*. A baseline curve is an estimate of what the customer aggregate load would have been had there been no curtable. The difference between the baseline curve and the aggregate curve for the event day determines the impact of the curtable. A baseline curve is the average of the aggregate load curves for the most recent three days of the same day type (i.e. weekday vs. weekend). Prior to averaging, the load data for each of the most recent three days are weather-adjusted (for temperature and wind) to match the weather on the day of curtable event. The weather adjustment is based on a statistical regression analysis of the aggregate load data for the related winter season. When necessary, one or more of the three most recent days may be excluded if the load shape is considered abnormal, or if one of more of the following three days is considered more comparable.

Figure 1 illustrates the impact of the curtailment request on the demand of customers availing of the Option on December 11, 2020.

**Figure 1:  
Aggregate Load Curve for the Curtailment Request  
December 11, 2020**



### 3.2 2020-2021 Winter Season Curtailment Service Option Statistics

Table 2 provides the Option participant statistics for the 2020-2021 winter season on a total basis.

**Table 2:  
Curtable Service Option  
Participant Statistics**

Number of Curtailment Requests	1
Number of Curtailment Days	1
Number of Customers Available to Curtail	24
Number of Customer Curtailment Failures	2
Number of Successful Customer Curtailments	22
% of Successful Curtailments	92%
Requested Hours of Curtailment	2
Avoided Load due to Curtailment	11.4 MW

#### **4.0 Summary**

The cost of offering the Option for the period April 2020 to March 2021 was \$402,732, of which \$391,149 was paid to Option participants in curtailment credits. The balance consists of internal labour and other costs associated with administration of the Option.

During the 2020-2021 winter season, a total of 24 customers participated in the Option. There was one curtailment request (the Curtailment Test), resulting in approximately 2 hours of curtailment.

The average load curtailed under the Option during the 2020-2021 winter season was 11.4 MW.