

- 1 Q. a) Provide the CBPP capacity assistance reports for the past 3 winter seasons.
- 2 b) Explain the administration of the capacity assistance agreement to ensure full capacity
- 3 assistance benefits are provided to Hydro if Hydro is also purchasing energy from CBPP at
- 4 times of capacity assistance requests.
- 5 c) Does the capacity assistance agreement receive priority over its energy purchase agreement
- 6 with CBPP at times when the system requires additional capacity? Explain based on past
- 7 experience in administering both agreements.
- 8
- 9
- 10 A. a) The requested reports for the past three winter seasons are provided as PUB-NLH-114,
- 11 Attachments 1, 2, and 3, respectively.
- 12 b) Newfoundland and Labrador Hydro ("Hydro") administers the Capacity Assistance
- 13 Agreement ("CAA") and energy purchase arrangements with Corner Brook Pulp and Paper
- 14 Limited ("CBPP") through ongoing operational coordination, including generation status
- 15 reporting, operational discussions, scheduling activities and communications between
- 16 Hydro's Energy Control Centre and CBPP operators. These processes provide Hydro with
- 17 visibility into CBPP's generating capability and support Hydro's ability to access capacity
- 18 assistance when required.
- 19 The obligation to provide capacity assistance arises from the CAA and not from Hydro's
- 20 energy purchase arrangements. When Hydro makes a Capacity Assistance Request, CBPP is
- 21 required to provide the requested capacity assistance in accordance with the terms of the
- 22 CAA. The CAA includes notification requirements, testing provisions, reporting obligations
- 23 and penalties for non-performance.
- 24 Hydro's current energy purchase arrangement with CBPP does not provide Hydro with a
- 25 contractual right to capacity. Rather, it is an energy purchase arrangement under which

1 Hydro purchases energy generated by CBPP. The capacity benefit available to Hydro
2 continues to be provided through the CAA.

3 From an operational perspective, the energy purchase arrangement results in frequent
4 communication and coordination between Hydro and CBPP regarding generation forecasts,
5 scheduling and system conditions. This coordination provides Hydro with greater visibility
6 into CBPP's operations and facilitates planning when system capacity requirements arise. In
7 addition, because CBPP receives compensation for energy delivered under the energy
8 purchase arrangement, CBPP has a commercial incentive to work with Hydro to align energy
9 deliveries with periods when the system can absorb the additional energy. However, the
10 requirement to provide capacity assistance when requested remains a separate contractual
11 obligation under the CAA and is not dependent upon the energy purchase arrangement.

- 12 c) Yes. The CAA receives priority over Hydro's energy purchase arrangements with CBPP when
13 Hydro requires capacity assistance for system reliability purposes.

14 The CAA is the agreement through which CBPP commits to provide capacity assistance to
15 Hydro when requested and contains the associated operational requirements, testing
16 provisions, reporting obligations and performance consequences. Hydro's energy purchase
17 agreements with CBPP are separate arrangements that provide for the purchase and sale of
18 energy and do not provide Hydro with a contractual right to capacity.

19 The current power purchase agreement expressly recognizes this distinction and states that
20 the CAA remains paramount. The agreement requires CBPP to manage its reservoirs and
21 schedule energy deliveries in a manner that does not jeopardize its ability to provide
22 capacity assistance when requested by Hydro.

23 Based on Hydro's experience administering both arrangements, the agreements have been
24 implemented in a complementary manner. Operational coordination between Hydro and
25 CBPP supports both energy deliveries and capacity assistance obligations. Hydro's
26 experience has been that CBPP remains highly engaged in system operations and responsive
27 to Hydro's operational requirements. As a result, Hydro has not needed to choose between
28 receiving energy deliveries and preserving access to contracted capacity assistance. Rather,

- 1 the arrangements have been administered with the objective of ensuring that capacity
- 2 assistance remains available while also facilitating energy deliveries.

Capacity Assistance Report

Winter 2023–2024

May 30, 2024

A report to the Board of Commissioners of Public Utilities



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Attachment 1: Supply and Demand Status Reports

1.0 Introduction

For the 2023–2024 winter season, Newfoundland and Labrador Hydro (“Hydro”) had capacity assistance agreements in place with Corner Brook Pulp and Paper Limited (“CBPP”) and Vale Newfoundland and Labrador Limited (“Vale”).

Hydro previously had a capacity assistance agreement with CBPP, the Second Amended and Restated Capacity Assistance Agreement, that ended April 30, 2023. A summary of the terms and conditions of the Capacity Assistance Agreement are contained in Appendix A. While negotiating with CBPP for a further capacity assistance agreement, Hydro entered into a short-term agreement for up to 90 MW of capacity assistance for the period November 1–30, 2023, utilizing the same terms and conditions of the Second Amended and Restated Capacity Assistance Agreement. On November 17, 2023, Hydro filed an application with the Board of Commissioners of Public Utilities (“Board”) for approval of the Long-term CBPP Capacity Assistance Agreement. For the period December 1–18, 2023, the parties entered into another short-term agreement utilizing the same terms and conditions as had been proposed in the application for approval of the Long-term Capacity Assistance Agreement. A summary of the terms and conditions of the Long-term Capacity Assistance Agreement are contained in Appendix B.

In Board Order No. P.U. 32(2023), approving the application for the Long-term CBPP Capacity Assistance Agreement, Hydro was directed to file a report no later than May 30 of each year during the term of the agreement, providing the following information:

- The capacity assistance requested and provided, including dates, times, and duration;
- The system conditions at the time of the capacity assistance request, including available generation and calculation of system reserve; and
- Payments made.

In addition, Hydro’s agreement with Vale was a short-term agreement for the 2023–2024 winter period for up to 10.8 MW of capacity assistance, of which 6.8 MW was tested and confirmed to be available. Hydro did not utilize the capacity assistance agreement with Vale during the 2023–2024 winter period. For the period December 1, 2023–March 31, 2024, Hydro paid Vale the fixed fee of \$190,400 for the

Capacity Assistance Report – Winter 2023–2024

- 1 6.8 MW of available capacity.¹ A summary of the terms and conditions of the Capacity Assistance
2 Agreement is contained in Appendix C.
- 3 The report for the 2023–2024 winter period is provided for both CBPP and Vale. Future reports will be
4 provided for the period May 1–April 30, as the Long-term CBPP Capacity Assistance Agreement includes
5 summer and winter capacity assistance.

6 **2.0 Capacity Assistance Provided – Winter 2023–2024**

- 7 During winter 2023–2024, Hydro made four requests for capacity assistance from CBPP, as detailed in
8 Table 1.

Table 1: Summary of Winter 2023–2024 Capacity Assistance Requests

Date	Contract	Start Time	End Time	Duration (hh:mm)	Island Generation Available (MW)	Island Available Reserve (MW)	Island 10-Minute Reserve (MW)	Maximum Capacity Assistance Requested (MW)	Maximum Capacity Assistance Provided (MW)
15-Dec-2023	CBPP	1633	2227	6:00	1936	656	146	90	90
16-Dec-2023	CBPP	1836	0033 (+1)	6:00	2132	854	276	90	90
17-Dec-2023	CBPP	0647	0035 (+1)	18:00	1839	652	257	90	90
24-Jan-2024	CBPP	0725	1325	6:00	2231	353	165	90	90

- 9 The details of each of these capacity assistance requests are as follows:

10 **2.1 December 15, 2023**

- 11 On December 15, 2023, Pole 2 of the Labrador-Island Link (“LIL”) tripped offline at 1523 hours. Following
12 the loss of LIL Pole 2,² and the unavailability of Holyrood Thermal Generating Station (“Holyrood TGS”)
13 Units 1 and 2,³ the Island 10-minute reserve started to drop during the evening peak load period. To
14 assist in maintaining adequate 10-minute reserve, Hydro requested that Newfoundland Power Inc.
15 (“Newfoundland Power”) maximize its hydraulic generation. In addition, Hydro maximized Holyrood TGS
16 Unit 3 thermal generation. Hardwoods and Holyrood Gas Turbines were also placed in service to support

¹ As per the agreement, the fixed fee was calculated as follows: 6,800 kW x \$28/kW/winter = \$190,400.

² The loss of LIL Pole 2 resulted in subsequent restrictions of the net LIL imports to the Island system to 15 MW during monopole operation to avoid under frequency load shedding in the event of loss of the remaining LIL pole.

³ Holyrood TGS Units 1 and 2 were unavailable due to a forced outage and a forced extension to a planned outage, respectively.

the 10-minute reserve. The Stephenville Gas Turbine was unavailable due to a forced outage.⁴ To further assist in maintaining adequate 10-minute reserve, CBPP provided 90 MW of capacity assistance at Hydro's request for six hours from 1633 hours to 2227 hours. LIL Pole 2 returned to service at 2158 hours, re-establishing LIL Bipole operation. The capacity assistance provided by CBPP during this period resulted in an equivalent value of 540,000 kWh.

2.2 December 16, 2023

On December 16, 2023, LIL Pole 1 tripped offline at 1812 hours. With the loss of LIL Pole 1,⁵ the continued unavailability of Holyrood TGS Units 1 and 2, and the derating of Holyrood TGS Unit 3 to 70 MW due to a boiler leak, the Island 10-minute reserve started to drop during the evening peak load period. To assist in maintaining adequate 10-minute reserve, CBPP provided 90 MW of capacity assistance at Hydro's request for six hours from 1836 hours on December 16, 2023, to 0033 hours on December 17, 2023. To further assist in maintaining adequate Island 10-minute reserve, Hydro requested that Newfoundland Power maximize its hydraulic generation while preparing the Holyrood Gas Turbine for operation. Subsequent to the Pole 1 trip, LIL Pole 2 tripped offline at 2123 before Pole 1 was returned to service at 2319. The capacity assistance provided by CBPP during this period resulted in an equivalent value of 540,000 kWh.

2.3 December 17, 2023

On the morning of December 17, 2023, LIL Pole 2 was unavailable after it tripped offline the previous day. Due to the unavailability of LIL Pole 2,⁶ the continued unavailability of Holyrood TGS Units 1 and 2, and the continued derating of Holyrood TGS Unit 3 to 70 MW, the Island 10-minute reserve started to drop during the morning peak load period. To assist in maintaining adequate 10-minute reserve, Hydro placed the Holyrood Gas Turbine in service. In addition, Hydro requested that Newfoundland Power maximize its hydraulic generation to support the 10-minute reserve. To further assist in maintaining adequate 10-minute reserve and cover the anticipated morning and evening peak loads for December 17, 2023, CBPP provided 90 MW of capacity assistance at Hydro's request for 18 hours from

⁴ The Stephenville Gas Turbine was unavailable for the full winter period.

⁵ The loss of LIL Pole 1 resulted in subsequent restrictions of the net LIL imports to the Island system to 15 MW during monopole operation to avoid under frequency load shedding in the event of loss of the remaining LIL pole.

⁶ The loss of LIL Pole 2 resulted in subsequent restrictions of the net LIL imports to the Island system to 15 MW during monopole operation to avoid under frequency load shedding in the event of loss of the remaining LIL pole.

Capacity Assistance Report – Winter 2023–2024

0647 hours on December 17, 2023 to 0035 hours on December 18, 2023. The capacity assistance provided by CBPP during this period resulted in an equivalent value of 1,620,000 kWh.

2.4 January 24, 2024

On January 24, 2024, the morning Island load was forecast to be high. The load forecast indicated loads of up to 1,990 MW including Maritime Link exports. Generation capacity on the Island Interconnected System was reduced due to the unavailability of Holyrood TGS Unit 2, and the derating of Holyrood TGS Unit 1. The Upper Salmon and Granite Canal units' outputs were proactively reduced to 50 MW and 22 MW respectively, due to the risk of frazil ice. The Upper Salmon uUnit was also proactively shut down overnight to mitigate this risk. In the early morning on January 24, 2024, the 10-minute reserve dropped to 165 MW as the Island load was increasing toward its peak. To assist in maintaining adequate 10-minute reserve, available Hydro standby generation was placed online. Hydro requested that Newfoundland Power maximize its hydraulic generation. To further assist in maintaining adequate 10-minute reserve, CBPP provided 90 MW of capacity assistance at Hydro's request for 6 hours from 0725 hours to 1325 hours. The capacity assistance provided by CBPP during this period resulted in an equivalent value of 540,000 kWh.

Details on system conditions, including actual peak demand values, are provided in Hydro's Supply and Demand Status Reports, included as Attachment 1 to this report.

3.0 Capacity Assistance Costs

The overall cost of capacity assistance for the 2023–2024 winter season is provided in Table 2.

Table 2: Summary of Capacity Assistance Costs Winter 2023–2024

Capacity Assistance Agreement	Capacity Fee (\$)	Variable Charge (\$)	Total (\$)
CBPP Capacity Assistance November 1–30, 2023	368,909	-	368,909
CBPP Capacity Assistance December 1, 2023–April 30, 2024	3,000,000	108,000	3,108,000
Vale Winter 2023–2024	190,400	-	190,400
Total	3,559,309	108,000	3,667,309

Capacity Assistance Report – Winter 2023–2024

1 **Corner Brook Pulp and Paper Payments:**

2 For the Period of November 1–30, 2023, Hydro paid the Capacity Fee for the available capacity from
3 CBPP as follows:

4 $25 \text{ days} \times 80 \text{ MW} \times \$158.33/\text{MW}/\text{day} = \$316,660$

5 $3 \text{ days} \times 70 \text{ MW} \times \$158.33/\text{MW}/\text{day} = \$33,249.30$

6 $2 \text{ days} \times 60 \text{ MW} \times \$158.33/\text{MW}/\text{day} = \$18,999.60$

7 **Total November 1–30, 2023 Fee = \$368,908.90**

8 For the period December 1, 2023–April 30, 2024, Hydro paid a fixed monthly fee of \$600,000 per month
9 for a total of \$3,000,000, as well as a variable fee for the extended call on December 17, 2023. The
10 variable charge is based on the following clause in the term sheet: “During summer or winter, if CBPP
11 can provide more capacity than the maximum contracted amount or for longer than six hours and Hydro
12 would like to purchase the capacity then there will be a variable payment for this extra capacity at \$0.20
13 per kW per hour.” Since Hydro called capacity assistance for 18 hours that day, and 12 of the hours were
14 included in the fixed fee Hydro paid the variable charge on the additional 6 hours calculated as follows:

15 **Energy associated with Capacity:** $90,000 \text{ kW} \times 6 \text{ hrs} = 540,000 \text{ kWh}$

16 **Rate:** $\$0.20/\text{kWh}$

17 **Fee:** $540,000 \text{ kWh} \times \$0.20/\text{kWh} = \$108,000$

18 **4.0 Conclusion**

19 Hydro made four requests for capacity assistance during winter 2023–2024 to support the provision of
20 reliable service to its customers. CBPP demonstrated its ability to provide capacity assistance when
21 requested.

Appendix A

Summary of Short-Term CBPP Capacity Assistance
Agreement November 1–30, 2023



Capacity Assistance Agreements– Winter 2023–2024
Appendix A

Table A-1: Summary of Short-term CBPP Capacity Assistance Agreement November 1–30, 2023¹

Capacity	Rate Structure	Conditions
Up to 105 MW in the following increments:	<u>Fixed</u> ² \$4.75/kW per month for each of November through April for a total of \$2,992,500.	• Notification Period: 10 minutes • Interruption Period: 4 hours (minimum) to 6 hours (maximum)
• 20 MW • 40 MW • 60 MW • 90 MW • 105 MW	<u>Variable</u> For capacity assistance up to and including 90 MW, a minimum of \$0.20 per kW per hour to a maximum of \$0.26 per kW per hour for the maximum assistance provided as determined on the following sliding scale: 1) 0 to 7.5 GWh/Winter – 90% of GTVC;³ 2) Greater than 7.5 to 100 GWh/Winter Period – 80% of GTVC. For capacity assistance over 90 MW, the variable rate fee is based on the greater of (i) 80% of the previous month's GTVC plus \$0.06/kWh, or (ii) a predetermined rate of \$0.26/KWh, but which shall not exceed \$0.32/KWh.	• Maximum number of curtailments: 2 per day, 60 per winter • Total Assistance Period: 250 hours per winter • Penalties: Three Strike Clause⁴ • Test: Annually

¹As per the Second Amended and Restated Capacity Assistance Agreement dated May 4, 2021.

² Due to the short term nature of the agreement the rate was converted to a daily rate as follows:
\$2,992,500/180 days/105 MW = \$158.33/day/MW.

³ GTVC = the previous month's Gas Turbine Variable Cost as provided on CBPP's monthly invoice and expressed as a cost per kWh.

⁴ If CBPP fails to provide the requested capacity assistance, the fixed fee is reduced by 50% in the first instance. For the second failure to provide capacity assistance, the fixed fee is reduced by a further 25%. If CBPP fails to provide capacity assistance three times during the winter, 100% of the fee is forfeited.

Appendix B

Summary of Long-term CBPP Capacity Assistance
Agreement December 1, 2023–April 30, 2024



Capacity Assistance Agreements– Winter 2023–2024
Appendix B

Table B-2: Summary of Long-term CBPP Capacity Assistance December 1, 2023–April 30, 2024¹¹

Contracted Capacity	Rate Structure	Conditions
<u>Winter (Nov 1–Apr 30)</u> Up to 90 MW (or another higher amount as tested and agreed by the parties) in the following increments: • 20 MW • 30 MW • 60 MW • 90 MW • Other if tested and agreed	<u>Fixed</u> \$80 per kW per year for the maximum capacity contracted. $90 \text{ MW} \times \$80 = \$7,200,000$ The fixed fee will be adjusted annually, starting January 1, 2025, according to the percentage change over 12 months in the “All-items” Consumer Price Index for Canada. The minimum adjustment will be 0% and the maximum adjustment will be 2.5%.	• Notification Period: 10 minutes • Interruption Period: 4 hours (minimum) to 6 hours (maximum) • Maximum Number of Curtailments: 2 per day, 30 per year • Total Assistance Period: 180 hours per year • Penalties: Reduced payment by \$250,000 per failure occurrence; after three failures Hydro has the right to terminate the contract. • Expiry: 15 years • Test: Test to be completed in September or October of each year. CBPP and Hydro identify a one-day window for which the test can be completed. Hydro will make a call for capacity during this window for up to four hours. The amount of capacity provided will be the maximum contracted amount of capacity assistance for that winter (or lower amount as agreed to by both parties).
<u>Summer (May 1–Oct 31)</u> • 20 MW • 50 MW	<u>Variable</u> The variable fee will not apply to the first 180 hours/30 calls. An additional 90 hours/30 calls to be made available at \$0.25 per kW per hour. The variable fee for extended duration or additional capacity assistance will be \$0.20 per kW per hour	

¹¹As approved in Board Order No. P.U. 32(2023) on December 18, 2023. Hydro and CBPP operated under these terms during the review of the application from December 1-18, 2023.

Appendix C

Summary of Vale Capacity Assistance Agreement
December 1, 2023–March 31, 2024



Capacity Assistance Agreements– Winter 2023–2024
Appendix C

Table C-3: Summary of Vale Capacity Assistance Agreement

Capacity	Rate Structure	Conditions
Up to 10.8 MWs	<u>Fixed</u> \$28 per kW per Winter	• Notification Period: 20 minutes • Capacity Assistance Request Period: Up to 6 hours (maximum) • Maximum Number of requests: 2 per day, 20 per winter • Total Assistance Period: 100 hours per winter • Expiry: March 31, 2024 • Test: Annually

Attachment 1

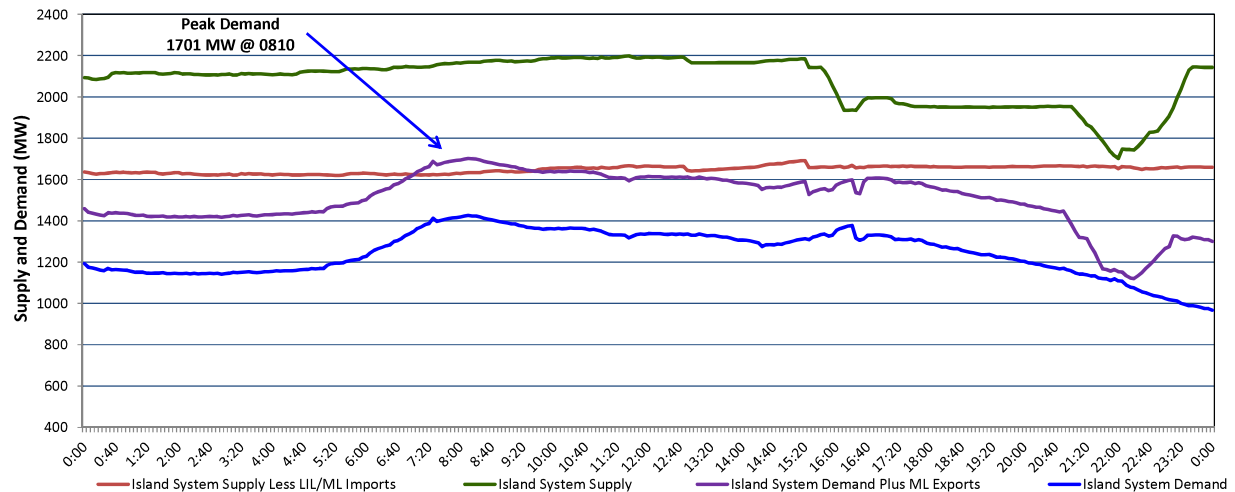
Supply and Demand Reports



Capacity Assistance Report - Winter 2023-2024
Attachment 1, Supply and Demand Reports, Page 1 of 4

Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Monday, December 18, 2023

Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Friday, December 15, 2023



Supply Notes For December 15, 2023

1,2

- A** As of 0800 hours, May 21, 2023, Holyrood Unit 2 unavailable due to forced extension to planned outage (170 MW).
B As of 2059 hours, July 13, 2023, Stephenville Gas Turbine unavailable (50 MW).
C As of 2220 hours, December 11, 2023, Holyrood Unit 1 unavailable 140 MW (170 MW).

Section 2
Island Interconnected Supply and Demand

Sat, Dec 16, 2023	Island System Outlook ³		Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
				Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵	2,210	MW	Saturday, December 16, 2023	1	-4	1,650	1,551
NLH Island Generation: ^{4,8}	1,305	MW	Sunday, December 17, 2023	-6	1	1,555	1,457
NLH Island Power Purchases: ⁶	130	MW	Monday, December 18, 2023	4	7	1,420	1,324
Other Island Generation:	230	MW	Tuesday, December 19, 2023	8	7	1,175	1,081
ML/LIL Imports:	545	MW	Wednesday, December 20, 2023	8	7	1,180	1,086
Current St. John's Temperature & Windchill:	1 °C	N/A °C	Thursday, December 21, 2023	1	-1	1,335	1,240
7-Day Island Peak Demand Forecast:	1,650	MW	Friday, December 22, 2023	-3	-2	1,430	1,333

Supply Notes For December 16, 2023

3

- Notes:**
- Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. The power system operators schedule outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
 - Due to the Island system having no synchronous connections to the larger North American grid, when there is a sudden loss of large generating units there may be a requirement for some customer's load to be interrupted for short periods to bring generation output equal to customer demand. This automatic action of power system protection, referred to as under frequency load shedding (UFLS), is necessary to ensure the integrity and reliability of system equipment. Under frequency events have typically occurred 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes. With the activation of the Maritime Link frequency controller during the winter of 2018, UFLS events have occurred less frequently.
 - As of 0800 Hours.
 - Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
 - Gross output from all Island sources (including Note 4).
 - NLH Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
 - Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
 - Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold

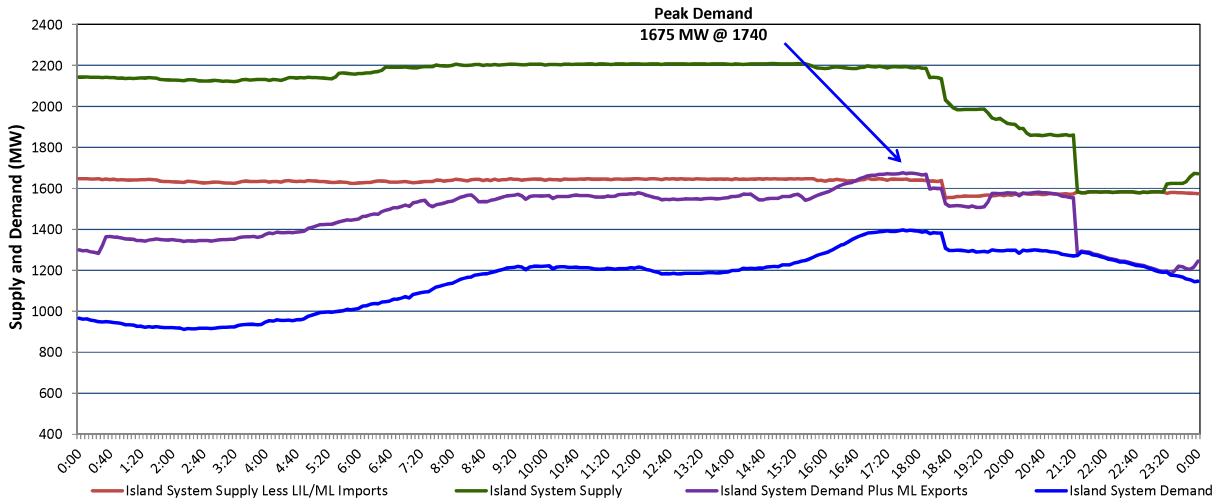
Section 3
Island Peak Demand Information
Previous Day Actual Peak and Current Day Forecast Peak

Fri, Dec 15, 2023	Actual Island Peak Demand ⁹	8:10	1,701 MW
Sat, Dec 16, 2023	Forecast Island Peak Demand		1,650 MW

- Notes:** 9. Island Demand / LIL / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Monday, December 18, 2023

Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Saturday, December 16, 2023



Supply Notes For December 16, 2023

- A As of 0800 hours, May 21, 2023, Holyrood Unit 2 unavailable due to forced extension to planned outage (170 MW).
B As of 2059 hours, July 13, 2023, Stephenville Gas Turbine unavailable (50 MW).
C As of 2220 hours, December 11, 2023, Holyrood Unit 1 unavailable 140 MW (170 MW).
D At 1833 hours, December 16, 2023, Holyrood Unit 3 available at 70 MW (150 MW).

Section 2
Island Interconnected Supply and Demand

Sun, Dec 17, 2023		Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
				Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵	1,780	MW	Sunday, December 17, 2023	-7	0	1,610	1,511
NLH Island Generation: ^{4,8}	1,225	MW	Monday, December 18, 2023	2	4	1,445	1,348
NLH Island Power Purchases: ⁶	95	MW	Tuesday, December 19, 2023	8	10	1,180	1,086
Other Island Generation:	215	MW	Wednesday, December 20, 2023	9	8	1,170	1,076
ML/LIL Imports:	245	MW	Thursday, December 21, 2023	5	-1	1,310	1,215
Current St. John's Temperature & Windchill:	-8 °C	-16 °C	Friday, December 22, 2023	0	1	1,400	1,304
7-Day Island Peak Demand Forecast:	1,610	MW	Saturday, December 23, 2023	2	2	1,280	1,185

Supply Notes For December 17, 2023

- Notes:
- Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. The power system operators schedule outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
 - Due to the Island system having no synchronous connections to the larger North American grid, when there is a sudden loss of large generating units there may be a requirement for some customer's load to be interrupted for short periods to bring generation output equal to customer demand. This automatic action of power system protection, referred to as under frequency load shedding (UFLS), is necessary to ensure the integrity and reliability of system equipment. Under frequency events have typically occurred 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes. With the activation of the Maritime Link frequency controller during the winter of 2018, UFLS events have occurred less frequently.
 - As of 0800 Hours.
 - Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
 - Gross output from all Island sources (including Note 4).
 - NLH Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
 - Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
 - Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold

Section 3
Island Peak Demand Information
Previous Day Actual Peak and Current Day Forecast Peak

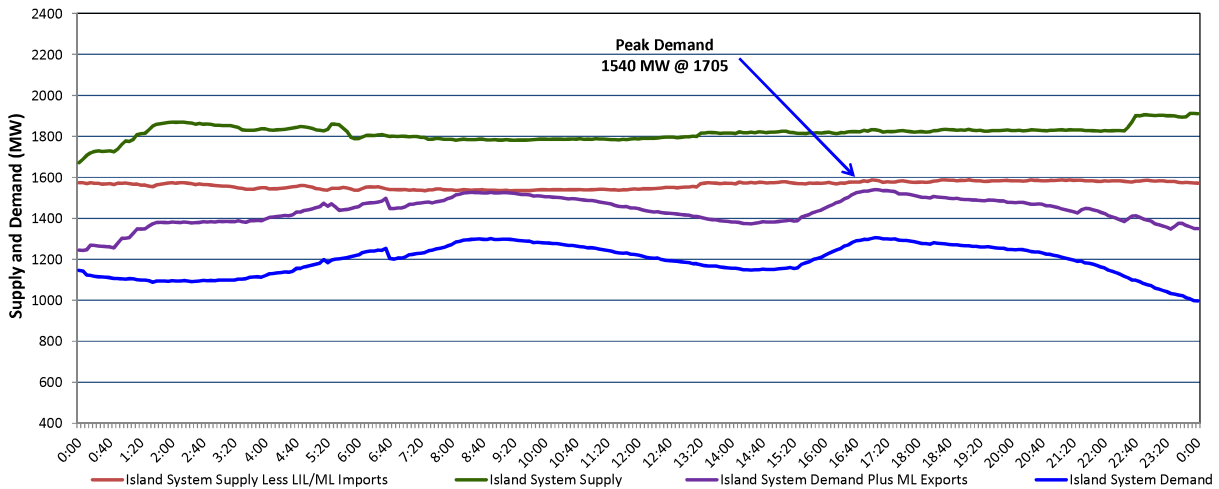
Sat, Dec 16, 2023	Actual Island Peak Demand ⁹	17:40	1,675 MW
Sun, Dec 17, 2023	Forecast Island Peak Demand		1,610 MW

- Notes: 9. Island Demand / LIL / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Monday, December 18, 2023

Section 1

Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Sunday, December 17, 2023



Supply Notes For December 17, 2023

1,2

- A** As of 0800 hours, May 21, 2023, Holyrood Unit 2 unavailable due to forced extension to planned outage (170 MW).
B As of 2059 hours, July 13, 2023, Stephenville Gas Turbine unavailable (50 MW).
C As of 2220 hours, December 11, 2023, Holyrood Unit 1 unavailable 140 MW (170 MW).
D As of 1833 hours, December 16, 2023, Holyrood Unit 3 available at 70 MW (150 MW).

Section 2

Island Interconnected Supply and Demand

Mon, Dec 18, 2023	Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
			Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵	1,974 MW	Monday, December 18, 2023	2	4	1,470	1,373
NLH Island Generation: ^{4,8}	1,225 MW	Tuesday, December 19, 2023	8	9	1,140	1,047
NLH Island Power Purchases: ⁶	130 MW	Wednesday, December 20, 2023	9	9	1,165	1,072
Other Island Generation:	215 MW	Thursday, December 21, 2023	6	6	1,175	1,081
ML/LIL Imports:	404 MW	Friday, December 22, 2023	-1	0	1,425	1,329
Current St. John's Temperature & Windchill:	2 °C N/A °C	Saturday, December 23, 2023	-1	-3	1,335	1,240
7-Day Island Peak Demand Forecast:	1,470 MW	Sunday, December 24, 2023	-4	-4	1,395	1,299

Supply Notes For December 18, 2023

3

- Notes:**
- Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. The power system operators schedule outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
 - Due to the Island system having no synchronous connections to the larger North American grid, when there is a sudden loss of large generating units there may be a requirement for some customer's load to be interrupted for short periods to bring generation output equal to customer demand. This automatic action of power system protection, referred to as under frequency load shedding (UFLS), is necessary to ensure the integrity and reliability of system equipment. Under frequency events have typically occurred 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes. With the activation of the Maritime Link frequency controller during the winter of 2018, UFLS events have occurred less frequently.
 - As of 0800 Hours.
 - Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
 - Gross output from all Island sources (including Note 4).
 - NLH Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
 - Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
 - Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold

Section 3

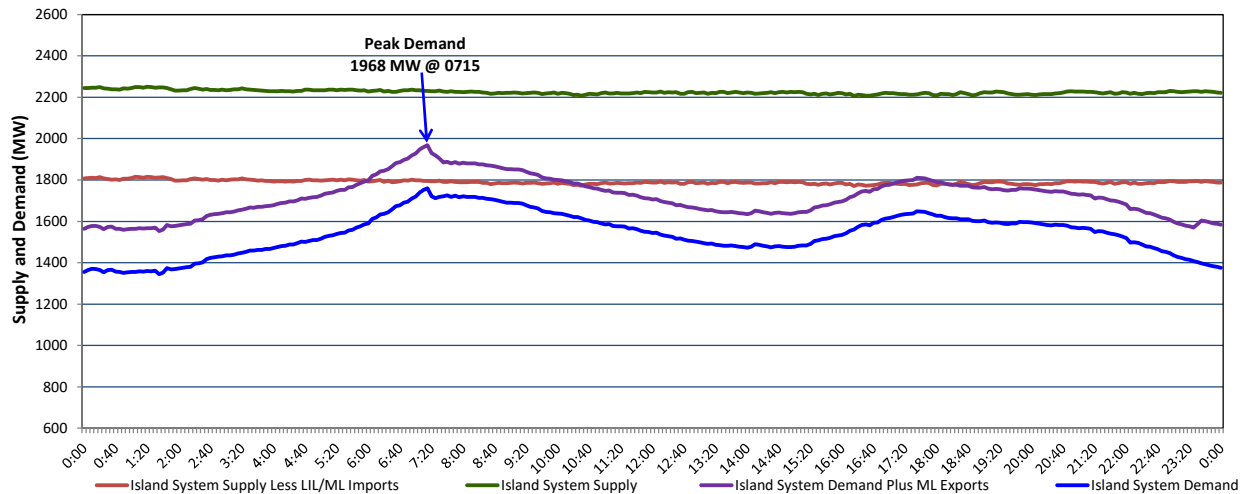
Island Peak Demand Information
Previous Day Actual Peak and Current Day Forecast Peak

Sun, Dec 17, 2023	Actual Island Peak Demand ⁹	17:05	1,540 MW
Mon, Dec 18, 2023	Forecast Island Peak Demand		1,470 MW

- Notes:** 9. Island Demand / LIL / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, January 25, 2024

Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Wednesday, January 24, 2024



Supply Notes For January 24, 2024

1,2

- A As of 0800 hours, May 21, 2023, Holyrood Unit 2 unavailable due to forced extension to planned outage (170 MW).
B As of 2059 hours, July 13, 2023, Stephenville Gas Turbine unavailable (50 MW).
C As of 0714 hours, January 08, 2024, Holyrood Unit 1 available at 160 MW (170 MW).

Section 2
Island Interconnected Supply and Demand

Thu, Jan 25, 2024	Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
			Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵	2,272 MW	Thursday, January 25, 2024	-2	-3	1,710	1,610
NLH Island Generation: ^{4,8}	1,465 MW	Friday, January 26, 2024	-7	-6	1,585	1,487
NLH Island Power Purchases: ⁶	150 MW	Saturday, January 27, 2024	-6	-6	1,375	1,279
Other Island Generation:	230 MW	Sunday, January 28, 2024	-3	-1	1,370	1,274
ML/LIL Imports:	427 MW	Monday, January 29, 2024	-14	-14	1,660	1,561
Current St. John's Temperature & Windchill:	-3 °C -12 °C	Tuesday, January 30, 2024	-13	-10	1,670	1,571
7-Day Island Peak Demand Forecast:	1,710 MW	Wednesday, January 31, 2024	-7	-9	1,540	1,442

Supply Notes For January 25, 2024

3

- Notes:
- Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. The power system operators schedule outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
 - Due to the Island system having no synchronous connections to the larger North American grid, when there is a sudden loss of large generating units there may be a requirement for some customer's load to be interrupted for short periods to bring generation output equal to customer demand. This automatic action of power system protection, referred to as under frequency load shedding (UFLS), is necessary to ensure the integrity and reliability of system equipment. Under frequency events have typically occurred 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes. With the activation of the Maritime Link frequency controller during the winter of 2018, UFLS events have occurred less frequently.
 - As of 0800 Hours.
 - Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
 - Gross output from all Island sources (including Note 4).
 - NLH Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
 - Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
 - Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold

Section 3
Island Peak Demand Information
Previous Day Actual Peak and Current Day Forecast Peak

Wed, Jan 24, 2024	Actual Island Peak Demand ⁹	7:15	1,968 MW
Thu, Jan 25, 2024	Forecast Island Peak Demand		1,710 MW

- Notes: 9. Island Demand / LIL / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Capacity Assistance Report

May 1, 2024 to April 30, 2025

May 30, 2025

A report to the Board of Commissioners of Public Utilities



Capacity Assistance Report – May 1, 2024 to April 30, 2025

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Appendix A: Summary of Long-term CBPP Capacity Assistance Agreement

Appendix B: Summary of Vale Capacity Assistance Agreement December 1, 2024–May 30, 2025

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Attachment 1: Supply and Demand Status Reports

1.0 Introduction

Newfoundland and Labrador Hydro (“Hydro”) had capacity assistance agreements in place with Corner Brook Pulp and Paper Limited (“CBPP”) and Vale Newfoundland and Labrador Limited (“Vale”) during the May 1, 2024–April 30, 2025, period. The agreement with CBPP is a long-term agreement and remains in effect throughout the year and the agreement with Vale was in effect from December 1, 2024–May 30, 2025.

The terms of the Capacity Assistance Agreement with CBPP were approved in Board Order No. P.U. 32(2023). This agreement includes capacity assistance of up to 90 MW in the winter and 50 MW in the summer at a rate of \$80 per kW per year, escalating annually in accordance with the terms of the agreement,¹ for the maximum capacity contracted.² A summary of the terms and conditions of the Long-term Capacity Assistance Agreement are contained in Appendix A.

In Board Order No. P.U. 32(2023), Hydro was directed to file a report no later than May 30 of each year during the term of the agreement, providing the following information:

- The capacity assistance requested and provided, including dates, times, and duration;
- The system conditions at the time of the capacity assistance request, including available generation and calculation of system reserve; and
- Payments made.

Hydro’s agreement with Vale was a short-term agreement for the period December 1, 2024–May 31, 2025 for up to 10.8 MW of capacity assistance, of which 7.5 MW was tested and confirmed to be available. Hydro did not utilize the capacity assistance agreement with Vale during the period December 1, 2024–April 30, 2025;³ however, in accordance with the terms and conditions of the agreement, Hydro paid Vale a fixed fee of \$7 per kW per month for a total of \$262,500 for the 7.5 MW

¹ As the agreement is based on a calendar year, the rate of \$80 per kW per year was in effect until the end of 2024, at which point it had increased to \$81.92 per kW per year.

² A variable fee of \$0.25 per kW per hour is charged to Hydro for capacity assistance required beyond the first 180 hours or 30 calls made, for up to 90 additional hours or 30 additional calls. A fee of \$0.20 per kW per hour is charged for additional capacity or extended duration.

³ The period May 1–30, 2025 will be covered in the May 1, 2025 to April 30, 2026 Capacity Assistance Report.

Capacity Assistance Report – May 1, 2024 to April 30, 2025

1 of available capacity during this time period.⁴ A summary of the terms and conditions of the Capacity
2 Assistance Agreement is contained in Appendix B.

3 **2.0 Capacity Assistance Provided – May 1, 2024 to** 4 **April 30, 2025**

5 From May 1, 2024 to April 30, 2025, Hydro made five requests for capacity assistance from CBPP, as
6 detailed in Table 1.

Table 1: Summary of Capacity Assistance Requests

Date	Contract	Start Time	End Time	Duration (hh:mm)	Island Generation Available (MW)	Island Available Reserve (MW)	Island 10-Minute Reserve (MW)	Maximum Capacity Assistance Requested (MW)	Maximum Capacity Assistance Provided (MW)
13-Jan-2025	CBPP	1556	2156	06:00	1,560	470	96	60	60
22-Jan-2025	CBPP	0650	1250	06:00	2,080	630	236	80	80
12-Feb-2025	CBPP	1645	2245	06:00	1,862	250	173	90	90
12-Feb-2025	CBPP	2245	0445	06:00	1,862	250	173	90	90
13-Feb-2025	CBPP	0500	1200	07:00	1,880	281	270	90	90

7 The details of each of these capacity assistance requests are as follows:

8 **2.1 January 13, 2025**

9 On January 13, 2025, the Labrador-Island Link (“LIL”) experienced a bipole trip at 1446 hours. Holyrood
10 Units 1 and 2 were unavailable due to a forced extension to a planned outage and a forced outage,
11 respectively.⁵ Following the loss of the LIL, the Island 10-minute reserve dropped to 96 MW.
12 Newfoundland Power Inc. (“Newfoundland Power”) generation was already maximized per request from
13 Hydro prior to the LIL trip. The Holyrood Combustion Turbine (“CT”) start was attempted but the Unit
14 failed to start.⁶ Hydro then started the Hardwoods and the Stephenville Gas Turbines (“GT”). To further
15 assist in maintaining adequate 10-minute reserve, CBPP provided 60 MW of capacity assistance at

⁴ As per the agreement, the fixed fee was calculated as follows: 7,500 kW x \$7/kW x 5 months = \$262,500.

⁵ Holyrood Unit 2 returned to service at 1714 hours.

⁶ Holyrood CT returned to service at 1655 hours.

Capacity Assistance Report – May 1, 2024 to April 30, 2025

1 Hydro's request from 1556 hours to 2156 hours. The capacity assistance provided by CBPP during this
2 period resulted in an equivalent value of 360,000 kWh.

3 **2.2 January 22, 2025**

4 On January 22, 2025, LIL Pole 2 tripped offline at 0318 hours. LIL Pole 1 flow was reduced to 450 MW
5 due to unsuccessful cable switching sequence five minutes following the Pole 2 trip, causing
6 underfrequency load shedding ("UFLS"). To prevent further UFLS in the event of loss of Pole 1, net LIL
7 import to the Island was reduced to less than 20 MW. Holyrood Unit 1 was unavailable due to a forced
8 extension to a planned outage. Cold temperatures caused concerns related to frazil ice which led to
9 required limiting of output for some hydro generation units. The Island 10-minute reserve dropped to
10 236 MW. Newfoundland Power generation was already maximized per request from Hydro following
11 the LIL Pole 2 trip. The Holyrood, Hardwoods, and Stephenville CTs were all placed in service to assist in
12 maintaining adequate 10-minute reserve. To further assist in maintaining adequate 10-minute reserve,
13 CBPP provided 80 MW of capacity assistance at Hydro's request from 0650 hours to 1250 hours. The
14 capacity assistance provided by CBPP during this period resulted in an equivalent value of 480,000 kWh.

15 **2.3 February 12, 2025**

16 On February 12, 2025, LIL Pole 1 tripped offline at 1014 hours. To prevent UFLS in the event of loss of
17 Pole 2, net LIL import to the Island was reduced to less than 20 MW. Holyrood Unit 1 was unavailable
18 due to a forced extension to a planned outage. The Island system capacity was further reduced due to
19 the forced derating of Holyrood Units 2 and 3 to 130 MW and 135 MW, respectively. The Holyrood CT
20 was started following the LIL Pole 1 trip, but it tripped offline and became unavailable at 1449 hours. In
21 response to the Holyrood CT trip, the Hardwoods and Stephenville GTs, in addition to the Hawkes Bay
22 and St. Anthony Diesel plants, were all placed in service to assist in maintaining adequate 10-minute
23 reserve. Attempts were made to return the Holyrood CT to service, but they were not successful and the
24 unit remained unavailable. The Island 10-minute reserve dropped to 173 MW. There were also concerns
25 related to frazil ice that required limiting hydro generation at the Hinds Lake and Granite Canal plants.
26 To further assist in maintaining adequate 10-minutes reserve, CBPP provided 90 MW of capacity
27 assistance at Hydro's request from 1645 hours to 2245 hours. At that time, an additional six-hour
28 request was made, extending the capacity assistance provided to 0445 hours the following day. The
29 capacity assistance provided by CBPP during this period resulted in an equivalent value of
30 1,080,000 kWh.

Capacity Assistance Report – May 1, 2024 to April 30, 2025

2.4 February 13, 2025

On February 13, 2025, LIL Pole 1 remained unavailable prior to the morning peak. Holyrood Unit 1 was also unavailable for the morning peak due to a forced extension to a planned outage. Holyrood Units 2 and 3 also remained derated to 130 MW and 135 MW, respectively. The Holyrood CT also remained unavailable for the morning peak. The Island 10-minute reserve dropped to 270 MW. The frazil ice concerns experienced on February 12 continued, and required limiting the output of the Hinds Lake and Granite Canal hydro generation units. To help supply the morning peak load, Hydro requested further capacity assistance from CBPP who provided 90 MW from 0500 hours to 1200 hours. This call was the third capacity call that Hydro had made in a 24-hour period, and as a result, the hours from 0500 to 1200 were charged at the variable rate as per the terms and conditions of the agreement. The capacity assistance provided by CBPP during this period had an equivalent value of 630,000 kWh. Details on system conditions, including actual peak demand values, are provided in Hydro's Supply and Demand Status Reports, included as Attachment 1 to this report.

3.0 Capacity Assistance Costs

The overall cost of capacity assistance for May 1, 2024 to April 30, 2025 is provided in Table 2.

Table 2: Summary of Capacity Assistance Costs

Capacity Assistance	Capacity (MW)	Rate (\$/kW)	Capacity Fee (\$)	Variable Charge (\$)	Total (\$)
CBPP Capacity Assistance May 1, 2024–December 31, 2024	90.0	80.00	4,800,000		4,800,000
CBPP Capacity Assistance January 1, 2025–April 30, 2025	90.0	81.92	2,457,600	126,000	2,583,600
Vale May 1, 2024 to April 30, 2025	7.5	7.0 ⁷	262,500		262,500
Total			7,520,100	126,000	7,646,100

⁷ The rate paid to Vale is \$7 per kw per month. The period for this report covers five months of the six-month agreement with Vale.

Capacity Assistance Report – May 1, 2024 to April 30, 2025

Corner Brook Pulp and Paper Payments:

For the period May 1, 2024–December 31, 2024, Hydro paid a fixed monthly fee of \$600,000 per month for a total of \$4,800,000. In 2025, the fixed fee paid to CBPP was escalated in accordance with the agreement from \$80/kW to \$81.92/kW. For the period from January 1, 2025–April 30, 2025, Hydro paid a fixed monthly fee of \$614,400 per month, totalling \$2,457,600, as well as a variable fee of \$126,000 related to the February 13, 2025 request for assistance. The variable fee was calculated per the terms of the agreement, as demonstrated below:

Energy associated with Capacity: 90,000 kW * 7 hrs = 630,000 kWh

Rate: \$0.20/kWh

Fee: 630,000 kWh * \$0.20/kWh = **\$126,000**

4.0 Conclusion

Hydro made five requests for capacity assistance during May 1, 2024 to April 30, 2025 to support the provision of reliable service to its customers. CBPP demonstrated its ability to provide capacity assistance when requested.

Appendix A

Summary of Long-term CBPP Capacity Assistance Agreement



Capacity Assistance Agreements – May 1, 2024 to April 30, 2025
Appendix A

Table A-1: Summary of Long-term CBPP Capacity Assistance

Contracted Capacity	Rate Structure	Conditions
<u>Winter (Nov 1–Apr 30)</u> Up to 90 MW (or another higher amount as tested and agreed by the parties) in the following increments: • 20 MW • 30 MW • 60 MW • 90 MW • Other if tested and agreed	<u>Fixed</u> \$80 per kW per year for the maximum capacity contracted. 90 MW x \$80 = \$7,200,000 The fixed fee will be adjusted annually, starting January 1, 2025, according to the percentage change over 12 months in the “All-items” Consumer Price Index for Canada. The minimum adjustment will be 0% and the maximum adjustment will be 2.5%. <u>Variable</u> The variable fee will not apply to the first 180 hours/30 calls. An additional 90 hours/30 calls to be made available at \$0.25 per kW per hour. <u>Extended Duration</u> The variable fee for extended duration or additional capacity assistance will be \$0.20 per kW per hour.	• Notification Period: 10 minutes. • Interruption Period: 4 hours (minimum) to 6 hours (maximum). • Maximum Number of Curtailments: 2 per day, 30 per year. • Total Assistance Period: 180 hours per year. • Penalties: Reduced payment by \$250,000 per failure occurrence; after three failures Hydro has the right to terminate the contract. • Expiry: 15 years. • Test: Test to be completed in September or October of each year. CBPP and Hydro identify a one-day window for which the test can be completed. Hydro will make a call for capacity during this window for up to four hours. The amount of capacity provided will be the maximum contracted amount of capacity assistance for that winter (or lower amount as agreed to by both parties).
<u>Summer (May 1–Oct 31)</u> • 20 MW • 50 MW		

Appendix B

Summary of Vale Capacity Assistance Agreement
December 1, 2024–May 30, 2025



Capacity Assistance Agreements – May 1, 2024 to April 30, 2025
Appendix B

Table B-1: Summary of Vale Capacity Assistance Agreement

Capacity	Rate Structure	Conditions
Up to 10.8 MWs	<u>Fixed</u> \$7 per kW per month during Obligation Period	• Notification Period: 20 minutes • Capacity Assistance Request Period: Up to 6 hours (maximum) • Maximum Number of requests: 2 per day, 20 per winter • Total Assistance Period: 100 hours per winter • Obligation Period: December 1, 2024 to May 30, 2025 • Expiry: May 30, 2025 • Test: Annually

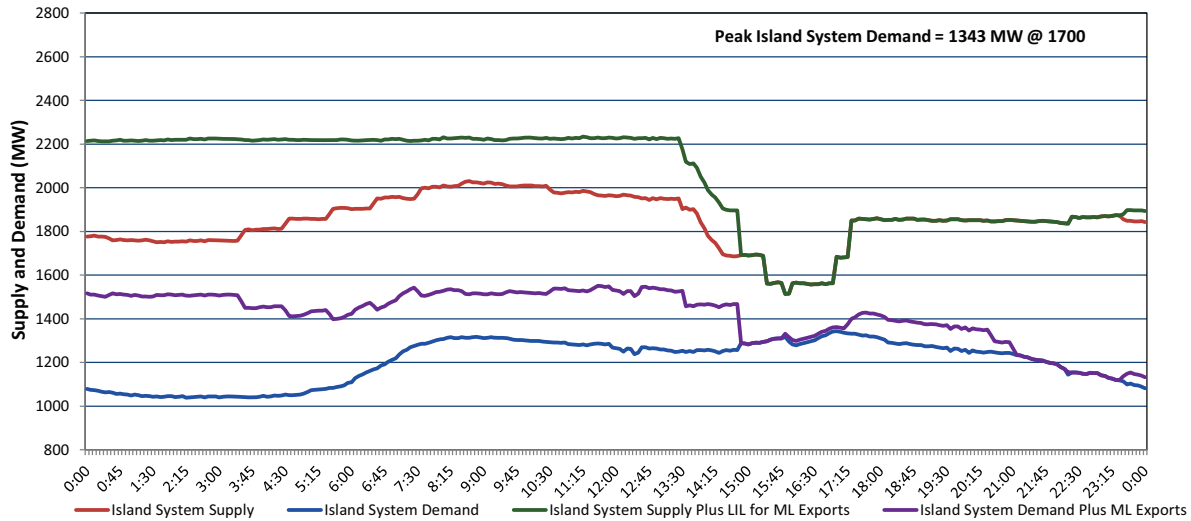
Attachment 1

Supply and Demand Reports



Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Tuesday, January 14, 2025

Section 1
Island Interconnected System - Supply, Demand & Exports
Actual 24 Hour System Performance For Monday, January 13, 2025



Island Supply Notes For January 13, 2025

- A As of 0000 hours, October 20, 2024, Holyrood Unit 1 unavailable due to forced extension to planned outage (170 MW).
B At 1446 hours, January 13, 2025, Labrador Island Link unavailable due to forced outage (700 MW).
C At 1521 hours, January 13, 2025, Holyrood Gas Turbine unavailable due to forced outage (123.5 MW).
D At 1550 hours, January 13, 2025, Stephenville Gas Turbine unavailable due to forced outage (50 MW).
E At 1601 hours, January 13, 2025, Stephenville Gas Turbine available (50 MW).
F At 1655 hours, January 13, 2025, Holyrood Gas Turbine available (123.5 MW).
G At 1714 hours, January 13, 2025, Holyrood Unit 2 available (170 MW).
H At 2215 hours, January 13, 2025, Labrador Island Link available at 450 MW due to forced derating (700 MW) - Monopole.

Section 2
Island Interconnected System - Supply, Demand & Outlook

Tue, Jan 14, 2025	Island System Outlook ²	Seven-Day Forecast	Island System Daily Peak Demand (MW)	
			Forecast ⁸	Adjusted ⁶
Island System Supply: ⁴	1,873 MW	Tuesday, January 14, 2025	1,350	1,254
NLH Island Generation: ^{3,7}	1,525 MW	Wednesday, January 15, 2025	1,310	1,215
NLH Island Power Purchases: ⁵	110 MW	Thursday, January 16, 2025	1,360	1,264
NP and CBPP Owned Generation:	210 MW	Friday, January 17, 2025	1,365	1,269
LIL/ML Net Imports to Island: ⁹	28 MW	Saturday, January 18, 2025	1,325	1,230
		Sunday, January 19, 2025	1,235	1,141
7-Day Island Peak Demand Forecast:	1,440 MW	Monday, January 20, 2025	1,440	1,343

Island Supply Notes For January 14, 2025

- Notes: 1. Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. Hydro schedules outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
2. As of 0800 Hours.
3. Gross continuous unit output.
4. Gross output from all Island sources (including Note 4).
5. NLH Island Power Purchases include: ML Imports, Exploits Generation, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
6. Adjusted for interruptible load and the impact of voltage reduction when applicable.
7. Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold required for full rated output. This threshold is dependent on the design of each turbine.
8. Does not include ML Exports.
9. LIL Import sunk in the Island System. Actual LIL flows will be restricted by various system conditions including, but not limited to, Island Load, ML Exports and Avalon Unit status.

Section 3
Island Peak Demand and Exports Information
Previous Day Actual Peak and Current Day Forecast Peak

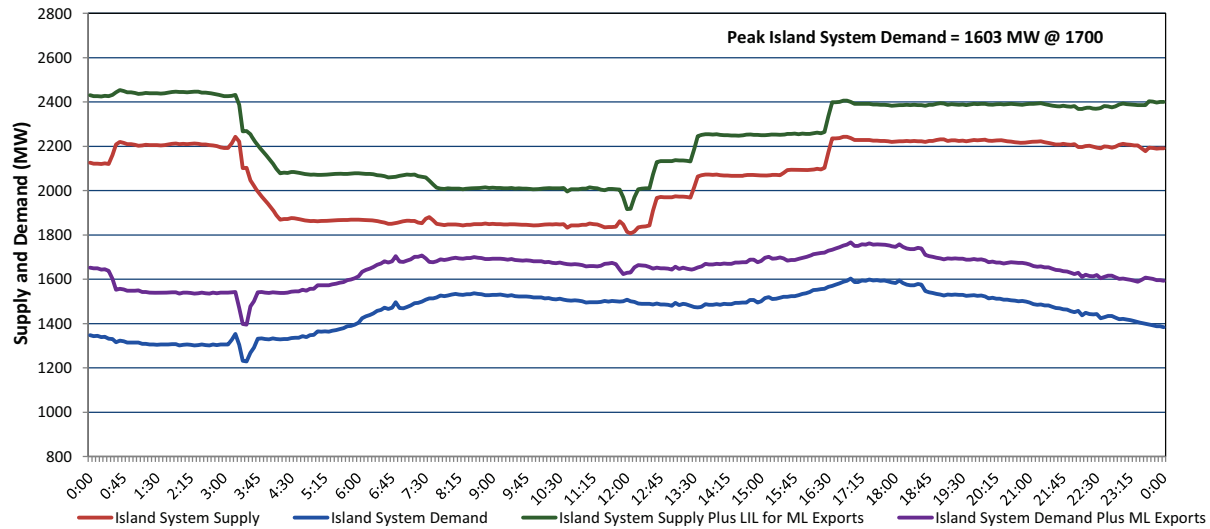
Mon, Jan 13, 2025	Island Peak Demand ¹⁰	17:00	1,343 MW
	Exports at Peak		20 MW
	LIL Net Imports to Island		3,170 MWh
Tue, Jan 14, 2025	Forecast Island Peak Demand		1,350 MW

Notes: 10. Island Demand is supplied by NLH generation and purchases, LIL Imports plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Capacity Assistance Report - May 1, 2024 to April 30, 2025
Attachment 1, Supply and Demand Reports, Page 2 of 4

Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, January 23, 2025

Section 1
Island Interconnected System - Supply, Demand & Exports
Actual 24 Hour System Performance For Wednesday, January 22, 2025



Island Supply Notes For January 22, 2025

- A As of 0000 hours, October 20, 2024, Holyrood Unit 1 unavailable due to forced extension to planned outage (170 MW).
B At 0318 hours, January 22, 2025, Labrador Island Link available at 450 MW due to forced outage (700 MW) - Monopole.
C At 1203 hours, January 22, 2025, Labrador Island Link available at full capacity (700 MW) - Bipole.

Section 2
Island Interconnected System - Supply, Demand & Outlook

Thu, Jan 23, 2025	Island System Outlook ²	Seven-Day Forecast	Island System Daily Peak Demand (MW)	
			Forecast ⁸	Adjusted ⁶
Island System Supply: ⁴ NLH Island Generation: ^{3,7} NLH Island Power Purchases: ⁵ NP and CBPP Owned Generation: LIL/ML Net Imports to Island: ⁹	2,243 MW	Thursday, January 23, 2025	1,720	1,610
	1,525 MW	Friday, January 24, 2025	1,530	1,422
	105 MW	Saturday, January 25, 2025	1,525	1,417
	210 MW	Sunday, January 26, 2025	1,435	1,328
	403 MW	Monday, January 27, 2025	1,445	1,338
		Tuesday, January 28, 2025	1,410	1,304
7-Day Island Peak Demand Forecast:	1,720 MW	Wednesday, January 29, 2025	1,375	1,269

Island Supply Notes For January 23, 2025

- Notes: 1. Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. Hydro schedules outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
2. As of 0800 Hours.
3. Gross continuous unit output.
4. Gross output from all Island sources (including Note 3).
5. NLH Island Power Purchases include: ML Imports, Exploits Generation, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
6. Adjusted for interruptible load and the impact of voltage reduction when applicable.
7. Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold required for full rated output. This threshold is dependent on the design of each turbine.
8. Does not include ML Exports.
9. LIL Import sunk in the Island System. Actual LIL flows will be restricted by various system conditions including, but not limited to, Island Load, ML Exports and Avalon Unit status.

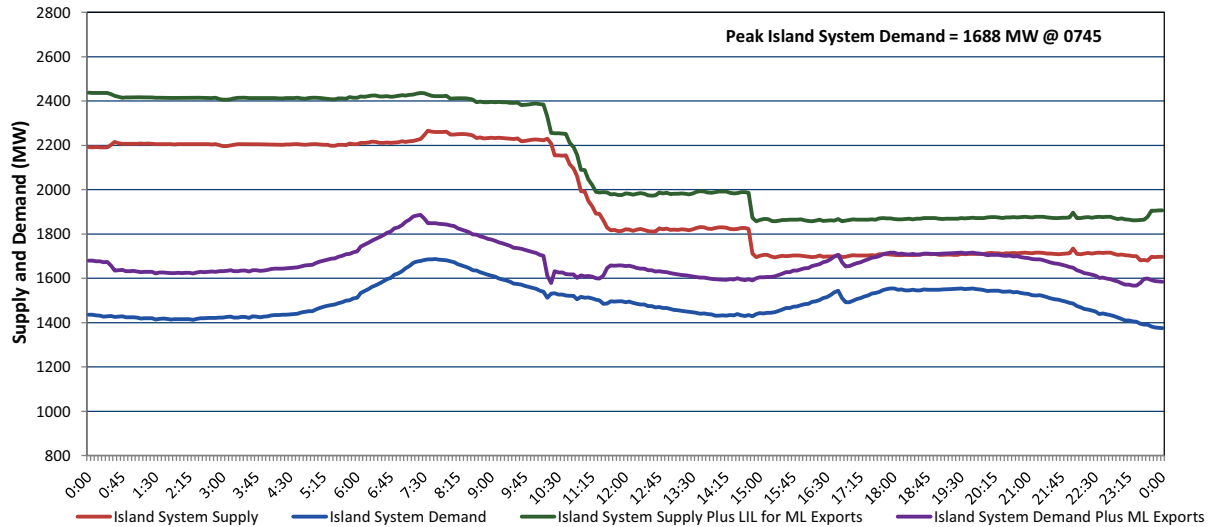
Section 3
Island Peak Demand and Exports Information
Previous Day Actual Peak and Current Day Forecast Peak

Wed, Jan 22, 2025	Island Peak Demand ¹⁰	17:00	1,603 MW
	Exports at Peak		163 MW
	LIL Net Imports to Island		5,209 MWh
Thu, Jan 23, 2025	Forecast Island Peak Demand		1,720 MW

- Notes: 10. Island Demand is supplied by NLH generation and purchases, LIL Imports plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, February 13, 2025

Section 1
Island Interconnected System - Supply, Demand & Exports
Actual 24 Hour System Performance For Wednesday, February 12, 2025



Island Supply Notes For February 12, 2025

- A As of 0000 hours, October 20, 2024, Holyrood Unit 1 unavailable due to forced extension to planned outage (170 MW).
B At 1014 hours, February 12, 2025, Labrador Island Link available at 450 MW due to forced derating (700 MW) - Monopole.
C At 1059 hours, February 12, 2025, Holyrood Unit 2 available at 130 MW due to forced derating (170 MW).
D At 1116 hours, February 12, 2025, Holyrood Unit 3 available at 135 MW due to forced derating (150 MW).
E At 1449 hours, February 12, 2025, Holyrood Gas Turbine unavailable due to forced outage (123.5 MW).
F At 1858 hours, February 12, 2025, Hawkes Bay Diesel Plant available at 2.5 MW due to forced derating (5 MW).

Section 2
Island Interconnected System - Supply, Demand & Outlook

Thu, Feb 13, 2025	Island System Outlook ²	Seven-Day Forecast	Island System Daily Peak Demand (MW)	
			Forecast ⁸	Adjusted ⁶
Island System Supply: ⁴	1,749 MW	Thursday, February 13, 2025	1,710	1,600
NLH Island Generation: ^{3,7}	1,340 MW	Friday, February 14, 2025	1,535	1,427
NLH Island Power Purchases: ⁵	135 MW	Saturday, February 15, 2025	1,530	1,422
NP and CBPP Owned Generation:	190 MW	Sunday, February 16, 2025	1,440	1,333
LIL/ML Net Imports to Island: ⁹	84 MW	Monday, February 17, 2025	1,430	1,323
		Tuesday, February 18, 2025	1,475	1,368
7-Day Island Peak Demand Forecast:	1,710 MW	Wednesday, February 19, 2025	1,440	1,333

Island Supply Notes For February 13, 2025

- Notes: 1. Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. Hydro schedules outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
2. As of 0800 Hours.
3. Gross continuous unit output.
4. Gross output from all Island sources (including Note 3).
5. NLH Island Power Purchases include: ML Imports, Exploits Generation, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
6. Adjusted for interruptible load and the impact of voltage reduction when applicable.
7. Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold required for full rated output. This threshold is dependent on the design of each turbine.
8. Does not include ML Exports.
9. LIL Import sunk in the Island System. Actual LIL flows will be restricted by various system conditions including, but not limited to, Island Load, ML Exports and Avalon Unit status.

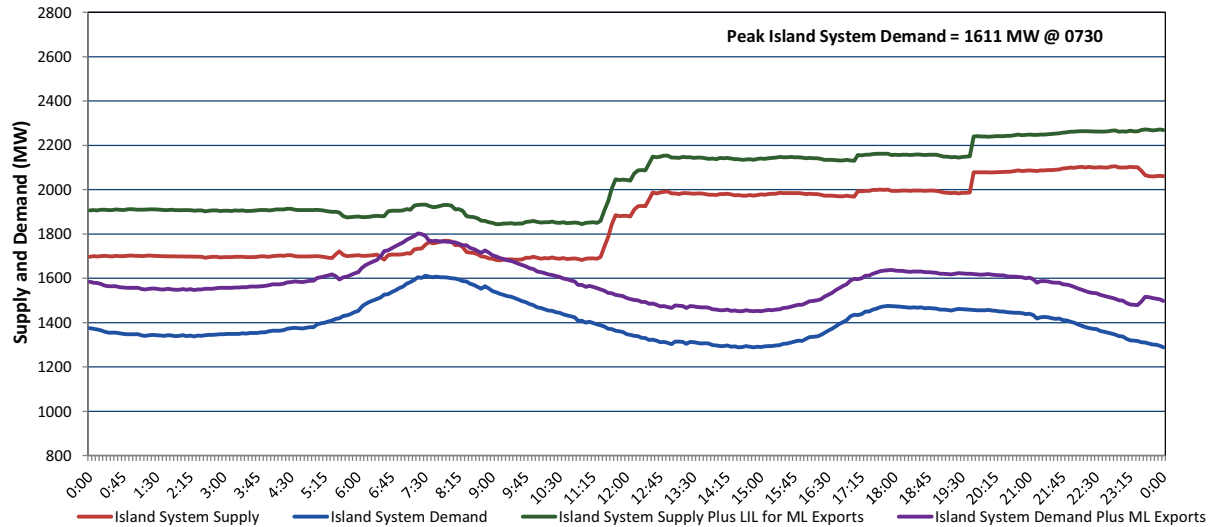
Section 3
Island Peak Demand and Exports Information
Previous Day Actual Peak and Current Day Forecast Peak

Wed, Feb 12, 2025	Island Peak Demand ¹⁰	7:45	1,688 MW
	Exports at Peak		162 MW
	LIL Net Imports to Island		4,316 MWh
Thu, Feb 13, 2025	Forecast Island Peak Demand		1,710 MW

- Notes: 10. Island Demand is supplied by NLH generation and purchases, LIL Imports plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Friday, February 14, 2025

Section 1 Island Interconnected System - Supply, Demand & Exports Actual 24 Hour System Performance For Thursday, February 13, 2025



Island Supply Notes For February 13, 2025

- A As of 1059 hours, February 12, 2025, Holyrood Unit 2 available at 130 MW due to forced derating (170 MW).
 B As of 1116 hours, February 12, 2025, Holyrood Unit 3 available at 135 MW due to forced derating (150 MW).
 C As of 1449 hours, February 12, 2025, Holyrood Gas Turbine unavailable due to forced outage (123.5 MW).
 D At 0953 hours, February 13, 2025, Labrador Island Link available at full capacity (700 MW) - Bipole.
 E At 1508 hours, February 13, 2025, Hawkes Bay Diesel Plant available at full capacity (5 MW).
 F At 1943 hours, February 13, 2025, Holyrood Unit 1 available at 90 MW due to forced derating (170 MW).

Section 2 Island Interconnected System - Supply, Demand & Outlook

Fri, Feb 14, 2025	Island System Outlook ²	Seven-Day Forecast	Island System Daily Peak Demand (MW)	
			Forecast ⁸	Adjusted ⁶
Island System Supply: ⁴	2,138 MW	Friday, February 14, 2025	1,530	1,422
NLH Island Generation: ^{3,7}	1,435 MW	Saturday, February 15, 2025	1,510	1,403
NLH Island Power Purchases: ⁵	140 MW	Sunday, February 16, 2025	1,420	1,314
NP and CBPP Owned Generation:	205 MW	Monday, February 17, 2025	1,415	1,309
LIL/ML Net Imports to Island: ⁹	358 MW	Tuesday, February 18, 2025	1,395	1,289
		Wednesday, February 19, 2025	1,385	1,279
7-Day Island Peak Demand Forecast:	1,530 MW	Thursday, February 20, 2025	1,450	1,343

Island Supply Notes For February 14, 2025

- Notes: 1. Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. Hydro schedules outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
 2. As of 0800 Hours.
 3. Gross continuous unit output.
 4. Gross output from all Island sources (including Note 3).
 5. NLH Island Power Purchases include: ML Imports, Exploits Generation, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
 6. Adjusted for interruptible load and the impact of voltage reduction when applicable.
 7. Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold required for full rated output. This threshold is dependent on the design of each turbine.
 8. Does not include ML Exports.
 9. LIL Import sunk in the Island System. Actual LIL flows will be restricted by various system conditions including, but not limited to, Island Load, ML Exports and Avalon Unit status.

Section 3 Island Peak Demand and Exports Information Previous Day Actual Peak and Current Day Forecast Peak

Thu, Feb 13, 2025	Island Peak Demand ¹⁰	7:30	1,611 MW
	Exports at Peak		180 MW
	LIL Net Imports to Island		4,490 MWh
Fri, Feb 14, 2025	Forecast Island Peak Demand		1,530 MW

- Notes: 10. Island Demand is supplied by NLH generation and purchases, LIL Imports plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).

Capacity Assistance Report

May 1, 2025 to April 30, 2026

May 29, 2026

A report to the Board of Commissioners of Public Utilities



Capacity Assistance Report – May 1, 2025 to April 30, 2026

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Attachment 1: Supply and Demand Status Report

Capacity Assistance Report – May 1, 2025 to April 30, 2026

1.0 Introduction

Newfoundland and Labrador Hydro (“Hydro”) had capacity assistance agreements in place with Corner Brook Pulp and Paper Limited (“CBPP”) and Vale Newfoundland and Labrador Limited (“Vale”) during the May 1, 2025–April 30, 2026 reporting period (“Reporting Period”). The agreement with CBPP is a long-term agreement and remains in effect throughout the year (“Long-term CBPP Capacity Assistance Agreement”). Hydro had two capacity agreements with Vale during the Reporting Period. The first agreement was for the period December 1, 2024–May 31, 2025,¹ and the second agreement was in effect from December 1, 2025–March 31, 2026.

The terms of the Long-term CBPP Capacity Assistance Agreement were approved in Board Order No. P.U. 32(2023). This agreement includes capacity assistance of up to 90 MW in the winter and 50 MW in the summer at a rate of \$80 per kW per year, escalating annually in accordance with the terms of the agreement,² for the maximum capacity contracted.³ A summary of the terms and conditions of the Long-term CBPP Capacity Assistance Agreement are contained in Appendix A.

In Board Order No. P.U. 32(2023), Hydro was directed to file a report no later than May 30 of each year during the term of the agreement, providing the following information:

- The capacity assistance requested and provided, including dates, times, and duration;
- The system conditions at the time of the capacity assistance request, including available generation and calculation of system reserve; and
- Payments made.

Hydro also includes details herein on other capacity assistance agreements in place during the Reporting Period. Hydro’s agreements with Vale were short-term agreements for the periods December 1, 2024–May 31, 2025 and December 1, 2025–March 31, 2026 for up to 10.8 MW of capacity assistance, of which

¹ The first five months of the December 1, 2024 to May 31, 2025 agreement, up to April 30, 2025, were reported on within the Winter 2024–2025 Capacity Assistance Report.

² As the agreement is based on a calendar year, the rate of \$80 per kW per year was in effect until the end of 2024. In 2025, it had increased to \$81.92 per kW per year in accordance with the agreement. In 2026, it increased to \$83.80 per kW per year.

³ A variable fee of \$0.25 per kW per hour is charged to Hydro for capacity assistance required beyond the first 180 hours or 30 calls made, for up to 90 additional hours or 30 additional calls. A fee of \$0.20 per kW per hour is charged for additional capacity or extended duration.

Capacity Assistance Report – May 1, 2025 to April 30, 2026

1 7.5 MW was tested and confirmed to be available.⁴ In accordance with the terms and conditions of the
2 agreements, Hydro paid Vale a fixed fee of \$7 per KW per month. Pursuant to the terms of the
3 agreements, Hydro is also obligated to pay the fuel costs incurred by Vale to provide the capacity
4 requested. A summary of the terms and conditions of both of the Vale capacity assistance agreements
5 are contained in Appendix B and Appendix C.

6 **2.0 Capacity Assistance Provided – May 1, 2025 to** 7 **April 30, 2026**

8 From May 1, 2025 to April 30, 2026, Hydro made one request for capacity assistance from Vale, as
9 detailed in Table 1. There were no capacity requests made to CBPP.⁵

Table 1: Summary of Capacity Assistance Requests

Date	Contract	Start Time	End Time	Duration (hh:mm)	Island Generation Available (MW)	Island Available Reserve (MW)	Island 10-Minute Reserve (MW)	Maximum Capacity Assistance Requested (MW)	Maximum Capacity Assistance Provided (MW)
21-Jan-2026	Vale	15:45	23:14	07:29	1,746	297	193	7.5	7.5

10 The details of this capacity assistance request is as follows:

11 **2.1 January 21, 2026**

12 On January 21, 2026, the Bay d’Espoir generating station capability was severely limited due to frazil ice
13 issues. By 1530 hours, the plant could only supply 150 MW. In addition, Holyrood Thermal Generating
14 Station (“Holyrood TGS”) Unit 3 was unavailable due to the planned maintenance outage that had
15 started in March 2025. The Island 10-minute reserve dropped to 193 MW. To support the Island
16 10-minute reserve, Holyrood TGS generation from Units 1 and 2 was maximized and the Holyrood,
17 Hardwoods and Stephenville Gas Turbines were placed in service. To further assist in maintaining
18 adequate 10-minute reserve, Vale provided 7.5 MW of capacity assistance through the operation of

⁴ As the agreements are for supply of capacity and energy to Hydro and do not affect the Industrial Service Agreements approved by the Board of Commissioners of Public Utilities (“Board”). Hydro did not seek Board Order with respect to the agreements.

⁵ While Hydro and CBPP are parties to the capacity assistance agreement, the parties also have an existing Power Purchase Agreement (“PPA”). Due to the CBPP mill outage at the time of the Bay d’Espoir frazil ice incident, Hydro continued to procure energy from CBPP under the PPA.

Capacity Assistance Report – May 1, 2025 to April 30, 2026

- 1 their stand by diesels at Hydro's request from 1545 hours to 2314 hours. The capacity assistance
2 provided by Vale during this period resulted in an equivalent value of 56,250 kWh. The fuel cost to
3 provide this capacity assistance was \$94,407.

4 **3.0 Capacity Assistance Costs**

- 5 The overall cost of capacity assistance for May 1, 2025 to April 30, 2026 is provided in Table 2.

Table 2: Summary of Capacity Assistance Costs

Capacity Assistance	Capacity (MW)	Rate (\$/kW)	Capacity Fee (\$)	Variable Charge (\$)	Total (\$)
CBPP Capacity Assistance May 1, 2025–December 31, 2025	90.0	81.92	4,915,200	-	4,915,200
CBPP Capacity Assistance January 1, 2026–April 30, 2026	90.0	83.80	2,514,000	-	2,514,000
Vale Capacity Assistance May 2025	7.5	7.0 ⁶	52,500	-	52,500
Vale Capacity Assistance December 1, 2025-March 31, 2026	7.5	7.0	210,000	94,407	304,407
Total			7,691,700	94,407	7,786,107

⁶ The rate paid to Vale is \$7 per kw per month.

Capacity Assistance Report – May 1, 2025 to April 30, 2026

Corner Brook Pulp and Paper Payments:

For the period May 1, 2025–December 31, 2025, Hydro paid a fixed monthly fee of \$614,400 per month for a total of \$4,915,200. In 2026, the fixed fee paid to CBPP was escalated in accordance with the agreement from \$81.92/kW to \$83.80/kW. For the period from January 1, 2026–April 30, 2026, Hydro paid a fixed monthly fee of \$628,500 per month, totalling \$2,514,000.

Vale Payments:

Hydro paid Vale \$52,500 for the 7.5 MW of available capacity in May 2025.⁷ While the terms of the agreement require a payment for fuel costs incurred by Vale in providing requested capacity, Hydro did not utilise the capacity assistance agreement May 2025 and there was no resulting fuel cost payable.

For the December 1, 2025–March 31, 2026 agreement, Hydro paid Vale the fixed fee of \$7 per KW per month for a total of \$210,000 for the 7.5 MW of available capacity.⁸ In January 2026, Hydro called on Vale to provide capacity assistance and was charged a fuel cost of \$94,407.

4.0 Conclusion

Hydro made one request for capacity assistance during May 1, 2025 to April 30, 2026 to support the provision of reliable service to its customers.

⁷ As per the agreement, the fixed fee was calculated as follows: 7,500 kW x \$7/kW x 1 month = \$52,500. The first five months of the December 1, 2024 to May 31, 2025 agreement, up to April 30, 2025, were reported on within the Winter 2024–2025 Capacity Assistance Report.

⁸ As per the agreement, the fixed fee was calculated as follows: 7,500 kW x \$7/kW x 4 months = \$210,000

Appendix A

Summary of Long-term CBPP Capacity Assistance Agreement



Capacity Assistance Agreements – May 1, 2025 to April 30, 2026
Appendix A

Table A-1: Summary of Long-term CBPP Capacity Assistance

Contracted Capacity	Rate Structure	Conditions
<u>Winter (Nov 1–Apr 30)</u> Up to 90 MW (or another higher amount as tested and agreed by the parties) in the following increments: • 20 MW • 30 MW • 60 MW • 90 MW • Other if tested and agreed	<u>Fixed</u> \$80 per kW per year for the maximum capacity contracted. 90 MW x \$80 = \$7,200,000 The fixed fee will be adjusted annually, starting January 1, 2025, according to the percentage change over 12 months in the “All-items” Consumer Price Index for Canada. The minimum adjustment will be 0% and the maximum adjustment will be 2.5%. <u>Variable</u> The variable fee will not apply to the first 180 hours/30 calls. An additional 90 hours/30 calls to be made available at \$0.25 per kW per hour. <u>Extended Duration</u> The variable fee for extended duration or additional capacity assistance will be \$0.20 per kW per hour.	• Notification Period: 10 minutes. • Interruption Period: 4 hours (minimum) to 6 hours (maximum). • Maximum Number of Curtailments: 2 per day, 30 per year. • Total Assistance Period: 180 hours per year. • Penalties: Reduced payment by \$250,000 per failure occurrence; after three failures Hydro has the right to terminate the contract. • Expiry: 15 years. • Test: Test to be completed in September or October of each year. CBPP and Hydro identify a one-day window for which the test can be completed. Hydro will make a call for capacity during this window for up to four hours. The amount of capacity provided will be the maximum contracted amount of capacity assistance for that winter (or lower amount as agreed to by both parties).
<u>Summer (May 1–Oct 31)</u> • 20 MW • 50 MW		

Appendix B

Summary of Vale Capacity Assistance Agreement December 1, 2024–May 30, 2025



Capacity Assistance Agreements – May 1, 2025 to April 30, 2026
Appendix B

Table B-1: Summary of Vale Capacity Assistance Agreement

Capacity	Rate Structure	Conditions
Up to 10.8 MWs	<u>Fixed</u> \$7 per kW per month during Obligation Period. <u>Variable</u> Hydro will also pay for fuel costs incurred by Vale in providing requested capacity.	• Notification Period: 20 minutes. • Capacity Assistance Request Period: Up to 6 hours (maximum). • Maximum Number of requests: 2 per day, 20 per winter. • Total Assistance Period: 100 hours per winter. • Obligation Period: December 1, 2024 to May 30, 2025. • Expiry: May 30, 2025. • Test: Annually.

Appendix C

Summary of Vale Capacity Assistance Agreement
December 1, 2025–March 31, 2026



Capacity Assistance Agreements – May 1, 2025 to April 30, 2026
Appendix C

Table C-1: Summary of Vale Capacity Assistance Agreement

Capacity	Rate Structure	Conditions
Up to 10.8 MWs	<u>Fixed</u> \$7 per kW per month during Obligation Period. <u>Variable</u> Hydro will also pay for fuel costs incurred by Vale in providing requested capacity.	• Notification Period: 20 minutes. • Capacity Assistance Request Period: Up to 6 hours (maximum). • Maximum Number of requests: 2 per day, 20 per winter. • Total Assistance Period: 100 hours per winter. • Obligation Period: December 1, 2025 to March 31, 2026. • Expiry: March 31, 2026. • Test: Annually.

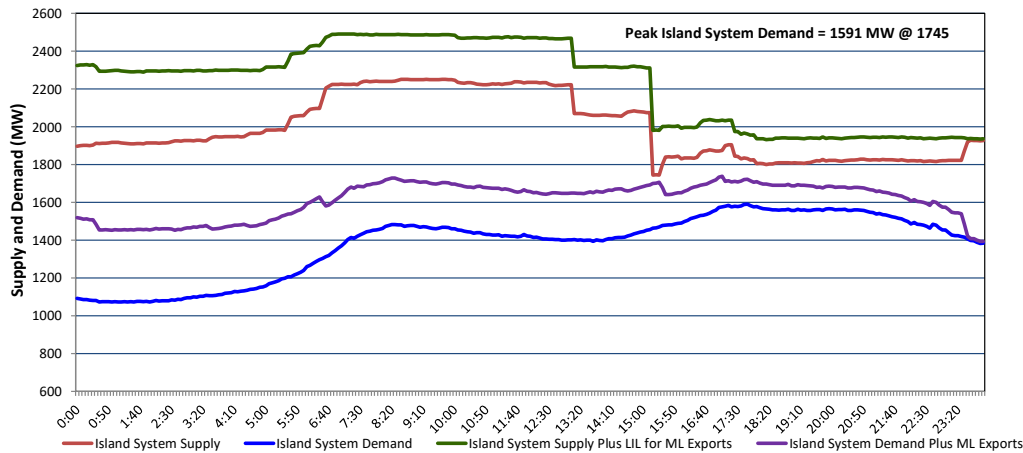
Attachment 1

Supply and Demand Report



Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, January 22, 2026

Section 1
Island Interconnected System - Supply, Demand & Exports
Actual 24 Hour System Performance For Wednesday, January 21, 2026



Island Supply Notes For January 21, 2026

- A As of 0800 hours, March 30, 2025, Holyrood Unit 3 unavailable due to planned outage 130 MW (150 MW).
B As of 1642 hours, December 17, 2025, Holyrood Unit 1 available at 160 MW due to forced derating (170 MW).
C As of 1425 hours, December 22, 2025, St. Anthony Diesel Plant available at 7.7 MW due to forced derating (9.7 MW).
D At 1309 hours, January 21, 2026, Bay d'Espoir Unit 5 unavailable due to forced derating (76.5 MW).
E At 1309 hours, January 21, 2026, Bay d'Espoir Unit 6 unavailable due to forced derating (76.5 MW).
F At 1511 hours, January 21, 2026, Bay d'Espoir Unit 1 available at 20 MW due to forced derating (76.5 MW).
G At 1511 hours, January 21, 2026, Bay d'Espoir Unit 2 available at 20 MW due to forced derating (76.5 MW).
H At 1511 hours, January 21, 2026, Bay d'Espoir Unit 3 available at 20 MW due to forced derating (76.5 MW).
I At 1511 hours, January 21, 2026, Bay d'Espoir Unit 4 available at 20 MW due to forced derating (76.5 MW).
J At 1511 hours, January 21, 2026, Bay d'Espoir Unit 7 available at 50 MW due to forced derating (154.4 MW).
K At 1529 hours, January 21, 2026, Bay d'Espoir Unit 6 available at 20 MW due to forced derating (76.5 MW).
L At 1557 hours, January 21, 2026, Bay d'Espoir Unit 6 unavailable due to forced derating 20 MW (76.5 MW).
M At 1724 hours, January 21, 2026, Bay d'Espoir Unit 2 unavailable due to forced derating 20 MW (76.5 MW).
N At 1724 hours, January 21, 2026, Bay d'Espoir Unit 3 unavailable due to forced derating 20 MW (76.5 MW).
O At 1724 hours, January 21, 2026, Bay d'Espoir Unit 4 unavailable due to forced derating 20 MW (76.5 MW).
P At 1756 hours, January 21, 2026, Bay d'Espoir Unit 1 unavailable due to forced derating 20 MW (76.5 MW).

Section 2
Island Interconnected System - Supply, Demand & Outlook

Thu, Jan 22, 2026	Island System Outlook ²	Seven-Day Forecast	Island System Daily Peak Demand (MW)	
			Forecast ⁸	Adjusted ⁶
Island System Supply: ⁴	1,827 MW	Thursday, January 22, 2026	1,590	1,492
NLH Island Generation: ^{3,7}	880 MW	Friday, January 23, 2026	1,385	1,289
NLH Island Power Purchases: ⁵	95 MW	Saturday, January 24, 2026	1,530	1,432
NP and CBPP Owned Generation:	225 MW	Sunday, January 25, 2026	1,620	1,521
LIL/ML Net Imports to Island: ⁹	627 MW	Monday, January 26, 2026	1,710	1,610
		Tuesday, January 27, 2026	1,600	1,502
7-Day System Peak Demand Forecast:	1,710 MW	Wednesday, January 28, 2026	1,620	1,521

Island Supply Notes For January 22, 2026

- Q At 0513 hours, January 22, 2026, Bay d'Espoir Unit 1 available at 20 MW due to forced derating (76.5 MW).
R At 0531 hours, January 22, 2026, Bay d'Espoir Unit 1 unavailable due to forced derating 20 MW (76.5 MW).
S At 0635 hours, January 22, 2026, Holyrood Diesels available at 6 MW due to forced derating (10 MW).
T At 0735 hours, January 22, 2026, Bay d'Espoir Unit 7 unavailable due to forced derating 50 MW (154.4 MW).
U At 0737 hours, January 22, 2025, Holyrood Unit 1 available at 125 MW due to forced derating (170 MW).

- Notes: 1. Generation outages for running and corrective maintenance are included. These are not unusual for power system operations. They generally do not impact customer supply. Hydro schedules outages to system equipment whenever possible to coincide with periods when customer demands are low and sufficient supply reserves are available. However, from time to time equipment outages are necessary and reserves may be impacted.
2. As of 0800 Hours.
3. Gross continuous unit output.
4. Gross output from all Island sources (including Note 3).
5. NLH Island Power Purchases include: ML Imports, Exploits Generation, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
6. Adjusted for interruptible load and the impact of voltage reduction when applicable.
7. Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold required for full rated output. This threshold is dependent on the design of each turbine.
8. Does not include ML Exports.
9. LIL Import sunk in the Island System. Actual LIL flows will be restricted by various system conditions including, but not limited to, Island Load, ML Exports and Avalon Unit status.

Section 3
Island Peak Demand and Exports Information
Previous Day Actual Peak and Current Day Forecast Peak

Wed, Jan 21, 2026	Island Peak Demand ¹⁰	17:45	1,591 MW
	Exports at Peak		131 MW
	LIL Net Imports to Island		8,726 MWh
Thu, Jan 22, 2026	Forecast Island Peak Demand		1,590 MW

- Notes: 10. Island Demand is supplied by NLH generation and purchases, LIL Imports plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).