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December 17, 2025

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

Attention: Jo-Anne Galarneau
Executive Director and Board Secretary

Re: Monthly Energy Supply Report for the Island Interconnected System for November 2025

Enclosed please find Newfoundland and Labrador Hydro's Monthly Energy Supply Report for the Island Interconnected System as directed by the Board of Commissioners of Public Utilities.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO

Shirley A. Walsh
Senior Legal Counsel, Regulatory
SAW/mc

Encl.

ecc:

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Monthly Energy Supply Report for the Island Interconnected System for November 2025

December 17, 2025

A report to the Board of Commissioners of Public Utilities

newfoundland labrador hydro

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1.0 Introduction

On February 8, 2016, the Board of Commissioners of Public Utilities ("Board") requested Newfoundland and Labrador Hydro ("Hydro") file a biweekly report containing, but not limited to, the following:

1) System Hydrology Report;

2) The thermal plant operated in support of hydrology;

3) Production by plant/unit; and

4) Details of any current or anticipated long-term derating.

In July 2016, the Board indicated that a monthly report would thereafter be sufficient. This report provides data for November 2025.

Ownership of the Water Management function resides within Hydro in the Resource and Production Planning department and is at all times guided by Hydro's operating instructions and environmental standards. This group works in consultation with Energy Marketing to optimize the use of Hydro's hydrologic resources through imports/exports and to ensure that the security of supply for domestic load for Hydro's customers remains paramount in all decisions, ensuring the delivery of least-cost, reliable service in an environmentally responsible manner.

2.0 System Hydrology

Reservoir inflows in November 2025 were 58% above the month's historical average.[1] Table 1 summarizes the aggregate storage position of Hydro's reservoirs at the end of the reporting period.

Table 1: System Hydrology Storage Levels

Date	2025 (GWh)	2024 (GWh)	20-Year Average (GWh)	Minimum Storage Limit (GWh)	Maximum Operating Level (GWh)	Maximum Operating Level (%)
30-November-2025	1,513	1,907	1,979	1,166	2,452	62

[1] Calculated in terms of energy [gigawatt hour ("GWh")].

The aggregate reservoir storage level on November 30, 2025 was 1,513 GWh, which is 38% below the seasonal maximum operating level and 30% above the minimum storage limit.[2] Total system energy for the month increased by 506 GWh overall, resulting in a total system energy storage 466 GWh below the 20-year average. Inflows to the reservoirs of the Bay d'Espoir Hydroelectric Generating Station ("Bay d'Espoir") were 66% above average in November 2025. Inflows to the Hinds Lake Reservoir were 15% above average and inflows to the Cat Arm Reservoir were 51% above average during the month.

There were five notable rain events throughout the month of November across Hydro's reservoir system which resulted in an overall increase in system energy storage of 506 GWh from October 31, 2025 to November 30, 2025. As shown in Table 2.

Table 2: Precipitation Events

	Total Rainfall (mm)			
Date	**Burnt Dam Spillway**	**Long Pond**	**Hinds Lake**	**Cat Arm**
November 1, 2025	17.00	11.20	17.27	0.00
November 4–5, 2025	35.00	37.20	2.03	0.00
November 11–15, 2025	84.00	139.00	56.89	4.83
November 17–18, 2025	27.00	43.90	15.74	42.93
November 22–23, 2025	11.00	24.80	9.90	7.87

Table 3 summarizes the unit outages experienced during November 2025.

[2] Minimum storage limits are developed annually to provide guidance in the reliable operation of Hydro's major reservoirs—Victoria, Meelpaeg, Long Pond, Cat Arm, and Hinds Lake. The minimum storage limit is designed to indicate the minimum level of aggregate storage required such that if there was a repeat of Hydro's critical dry sequence, or other less severe sequence, Hydro's load can still be met through the use of the available hydraulic storage supplemented with maximized deliveries of power from the Muskrat Falls Hydroelectric Generating Facility ("Muskrat Falls") over the Labrador-Island Link ("LIL"). Hydro's long-term critical dry sequence is defined as January 1959 to March 1962. Other dry periods are also considered during this analysis to ensure that no other shorter-term historic dry sequence could result in insufficient storage.

Table 3: November 2025 Unit Outage Summary

Unit Name	Date Offline	Return to Service	Outage type	Notes
Bay d'Espoir Unit 1	March 31	Ongoing	Planned outage	n/a
Bay d'Espoir Unit 2	March 31	Ongoing	Planned outage	n/a
Hinds Lake	November 2	November 27	Planned outage	n/a
Cat Arm Unit 2	November 6	November 6	Forced outage	Failed shutdown solenoid. Solenoid removed and cleaned.
Cat Arm Unit 2	November 11	November 11	Forced outage	Failed shutdown solenoid. Solenoid replaced with spare.
Bay d'Espoir Unit 5	November 14	November 23	Planned outage	n/a
Bay d'Espoir Unit 6	November 14	November 23	Planned outage	n/a
Cat Arm Unit 2	November 19	November 19	Forced outage	Unit lockout during normal shutdown caused by deflector major tracking error. No initial causes identified. Investigation is ongoing.
Granite Canal	November 25	November 25	Planned outage	n/a
Bay d'Espoir Unit 3	November 27	November 27	Planned outage	n/a
Bay d'Espoir Unit 4	November 27	November 27	Planned outage	n/a

Figure 1 plots the 2024 and 2025 storage levels, minimum storage limits, maximum operating level storage, and 20-year average aggregate storage for comparison. In addition to the 2024–2025 limits presented in Figure 1, Hydro has established the minimum storage limits to April 30, 2026.[3] Please note that the minimum storage limits for 2025–2026 have been updated as of September 30, 2025 utilizing the LIL transmission limits associated with the full or final under-frequency load shedding ("UFLS") scheme as opposed to the previously presented and interim UFLS scheme. The final UFLS scheme was implemented on November 24, 2025. The LIL final UFLS scheme allows for incrementally more LIL energy to be brought to the Island without the need to export more energy over the Maritime Link

[3] The minimum storage methodology was updated to ensure Hydro's reservoirs could continue to provide reliable service to customers at the lowest possible cost, in an environmentally responsible manner. The 2025–2026 analysis assumed that only two units at the Holyrood Thermal Generating Station ("Holyrood TGS") would be online and operating at minimum load during the winter 2025–2026 period.

("ML") export path. This resulted in a small adjustment downwards of the monthly minimum storage limits.

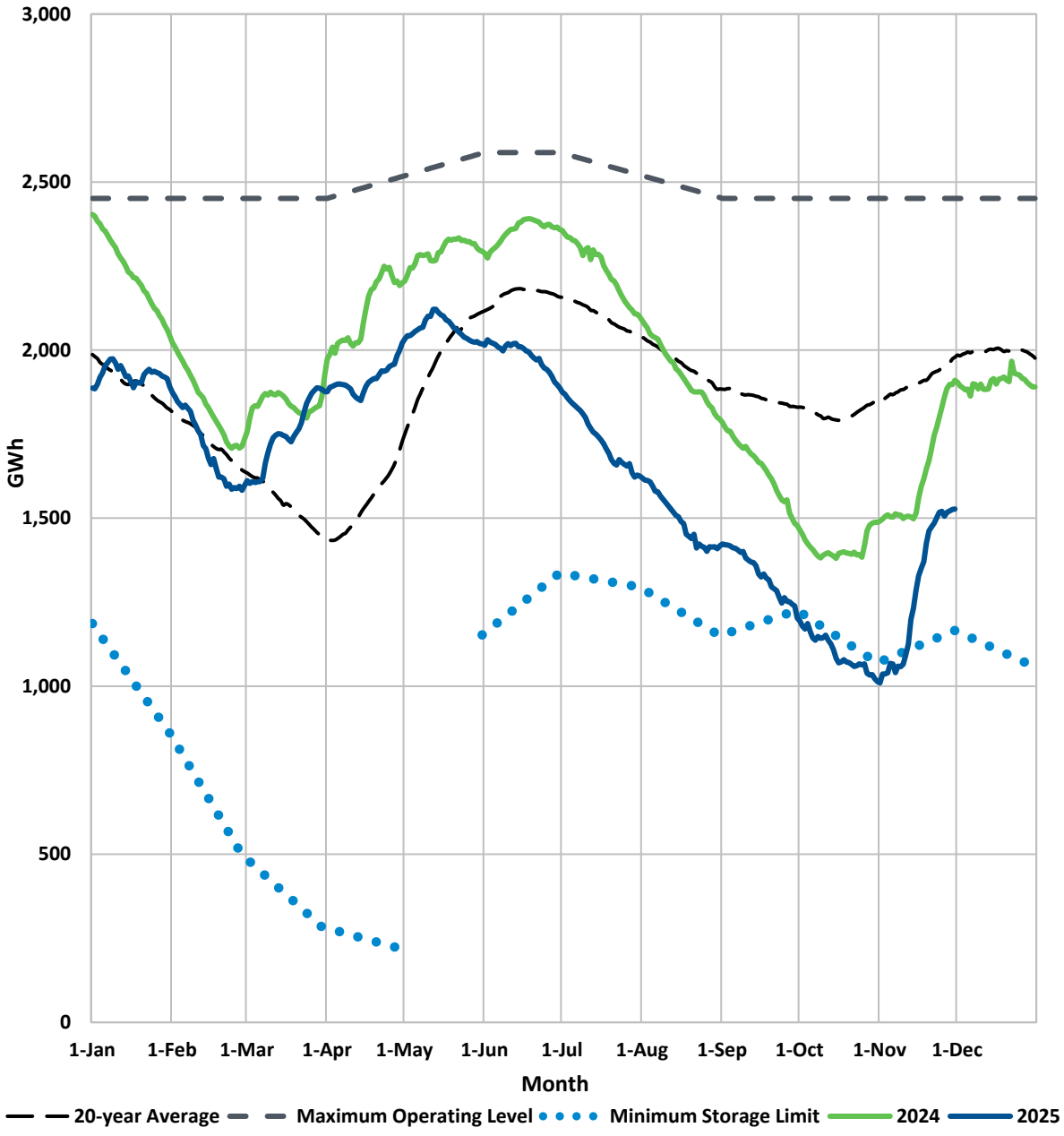

Figure 1: Total System Energy Storage[4]

[4] Data points in Figure 1 represent storage at the beginning of each day. Table 1 reports the end-of-day storage values, which results in a small difference between the storage data presented in Table 1 and Figure 1.

2.1 Ponding

In Board Order No. P.U. 49(2018), the Board approved Hydro's application for approval of a Pilot Agreement for the Optimization of Hydraulic Resources ("Pilot Agreement").[5] The intent of the Pilot Agreement is to optimize Hydro's hydraulic resources through the strategic use of its storage capabilities, taking advantage of the variability of energy pricing in external markets over time.

Appendix A provides information regarding imported and exported energy transactions under the Pilot Agreement during the month. No ponding exports or imports occurred over the ML during November 2025. Exports from Island sources have been placed on hold since July 2025.

2.2 Spill Activity

Appendix A provides information regarding spill avoidance export transactions undertaken.[6] No releases of water were required at any locations on the Island Interconnected System in November 2025, and no spill avoidance exports were required during the month. A summary of the year-to-date ("YTD") total volumes spilled or bypassed in both MCM[7] and GWh can be found in Table 4.

Table 4: Spill Activity

	Granite Canal Bypass		Upper Salmon Bypass		Burnt Dam Spillway	
	MCM	**GWh**	**MCM**	**GWh**	**MCM**	**GWh**
30-November-2025	0.0	0.0	0.0	0.0	0.0	0.0
YTD Total	**22.8**	**2.2**	**0.0**	**0.0**	**0.0**	**0.0**

[5] The Third Amended and Restated Pilot Agreement for the Optimization of Hydraulic Resources was approved as per Board Order No. P.U. 35(2022), and was extended as per Board Order No. P.U. 30(2023), Board Order No. P.U. 29(2024), and again in Board Order No. P.U. 37(2025).

[6] Pursuant to the Pilot Agreement, exporting when system load is low allows for increased generation from Island hydraulic facilities and the utilization of water (energy) that would have otherwise been spilled, while not increasing the risk of spill elsewhere in the system.

[7] Million cubic metres ("MCM").

3.0 Production and Purchases

Appendix B provides a breakdown of power purchases, including the import and export activity over the LIL and ML and production by plant during November 2025.[8] There was no energy repaid from CBPP to Energy Marketing under the Temporary Energy Exchange Agreement in November 2025. There was 0.06 GWh of emergency energy, including losses, supplied to Nova Scotia over the Maritime Link during November 2025.

Deliveries of energy to the Island Interconnected System from Labrador via the LIL were maximized to the extent possible to support Island reservoir storage until November 19, 2025 at which time deliveries were reduced to manage storage in the Lond Pond Reservoir.

4.0 Thermal Production

Apart from a planned outage on Holyrood TGS Unit 1 from November 24 to 27, 2025, Holyrood TGS Units 1 and 2 were online during the month of November and operating above minimum until November 18, 2025, as system conditions allowed, for system requirements and to support reservoir storage. Total energy production from Holyrood TGS for the month was 116.8 GWh. Standby generation was not used to support reservoir storage, however, there was a total 0.6 GWh standby generation in November 2025 for system requirements and support emergency energy deliveries to Nova Scotia.

The operating hours for the Holyrood TGS, Holyrood Combustion Turbine (“CT”), and the Hardwoods and Stephenville Gas Turbines (“GT”) are summarized in Table 5.

[8] On October 1, 2025, Hydro entered into a third six-month power purchase agreement with Corner Brook Pulp and Paper Limited ("CBPP") as directed by the Government of Newfoundland and Labrador. The power purchase agreement with CBPP provides Hydro with 80 GWh of non-firm energy from October 1, 2025 to March 31, 2026, inclusive.

Table 5: **Holyrood TGS and Combustion Turbines Operating Hours**

	Operating Hours	Sync Condense Hours	Available Hours
Holyrood TGS			
Unit 1	637.5	0.0	637.5
Unit 2	720.0	0.0	720.0
Unit 3	0.0	0.0	0.0
Combustion Turbines			
Hardwoods GT	5.1	714.6	720.0
Stephenville GT	5.0	38.2	720.0
Holyrood CT	5.5	0.0	439.7

5.0 Unit Deratings

Holyrood TGS Unit 1 was derated to 100 MW until November 24, 2025, when the unit was taken offline for a planned outage to address the issue with the main steam turbine control valves. The unit was returned to service on November 27, 2025 after successful resolution of the turbine control valve issue. The forced derate of the unit to 100 MW was removed, however, the unit operated for the remainder of November under a scheduled derate to 150 MW pending completion of the on-line safety valve testing for this unit. This testing was completed on December 2, 2025 and the unit reached a maximum load of 163 MW.

Holyrood TGS Unit 2 was derated to 163 MW until November 13, 2025 when an issue with boiler feed pump recirculating valves was discovered and corrected. The unit was on-line with full capability for the remainder of November.

Holyrood TGS Unit 3 was on a planned annual outage for the entire month of November 2025.

The Holyrood CT was available for the month of November 2025, apart from a forced extension of the planned annual outage. The unit was made unavailable due to a ground fault alarm upon energizing the generator. The issue was resolved and the unit has been available at full capacity since November 12, 2025.

The Hardwoods GT was available at full capacity for the entire month of November 2025 except for a forced derating of the unit to 25 MW on November 20, 2025. During routine preventative maintenance activities, metallic debris was found on one of End A's chip detectors. It was determined that an engine

fuel pump gear box experienced a bearing failure. A replacement gear box is being expedited. The unit returned to service on December 6, 2025.

The Stephenville GT was available for the full month of November 2025.

Appendix A

Ponding and Spill Transactions

Table A-1: Ponding Transactions

Date	Ponding Imports (MWh)	Ponding Exports (MWh)	Ponding Imports Purchased by Hydro (MWh)	Transfer of Pond Balance to Spill Avoidance (MWh)	Energy Losses to Export (MWh)	Cumulative Ponded Energy (MWh)
Opening Balance	**-**	**-**	**-**	**-**	**-**	**(5,097)**
Total[1]	**-**	-	**-**	**-**	-	-

Table A-2: Avoided Spill Energy

Date	Avoided Spill Exports (MWh)	Energy Losses to Export (MWh)	Transfer of Pond Balance to Spill Avoidance (MWh)	YTD Avoided Spill Energy (MWh)
Opening Balance	**-**	**-**	-	-
Total[2]	**-**	**-**	**-**	-

[1] Total transactions for November 2025.
[2] Total transactions for November 2025.

Appendix B

Production and Purchases

Table B-1: Generation and Purchases (GWh)[1,2]

	Nov-25	YTD Nov 2025
Hydro Generation (Hydro)		
Bay d'Espoir		
Unit 1	0.0	121.6
Unit 2	0.0	110.0
Unit 3	38.9	371.2
Unit 4	20.7	213.7
Unit 5	11.1	234.6
Unit 6	15.5	302.1
Unit 7	43.4	754.5
Subtotal Bay d'Espoir	129.6	2,107.6
Upper Salmon	40.8	482.3
Granite Canal	22.8	192.3
Hinds Lake	5.6	271.0
Cat Arm		
Unit 1	22.2	335.6
Unit 2	18.2	340.9
Subtotal Cat Arm	40.3	676.4
Paradise River	5.2	23.7
Star Lake	10.7	106.5
Rattle Brook	2.0	11.0
Exploits	30.8	465.2
Mini Hydro	0.0	0.0
Total Hydro Generation (Hydro)	**287.9**	**4,336.1**
Thermal Generation (Hydro)		
Holyrood TGS		
Unit 1	52.7	243.2
Unit 2	64.1	295.5
Unit 3	0.0	138.4
Subtotal Holyrood TGS Units	116.8	677.2
Holyrood Combustion Turbine and Diesels	0.4	4.8
Hardwoods Gas Turbine	0.0	1.3
Stephenville Gas Turbine	0.1	1.1
Other Thermal	0.1	0.4
Total Thermal Generation (Hydro)	**117.4**	**684.8**
Purchases		
Requested Newfoundland Power and Vale	0.0	0.1
CBPP		
Capacity Assistance	0.0	0.0
Power Purchase Agreement	15.3	74.8
Secondary	0.0	0.6
Co-Generation	0.0	32.8
Subtotal CBPP	15.3	108.2
Wind Purchases	17.3	160.5
Maritime Link Imports[3]	0.0	21.7
New World Dairy	0.2	1.3
Labrador Island Link Delivery to IIS[4,5]	165.5	1,006.3
Total Purchases	**198.4**	**1,298.2**
Total	**603.7**	**6,319.1**

[1] Gross generation.
[2] Actuals reflect rounded values to the nearest tenth of a GWh. Differences between total versus addition of individual components due to rounding.
[3] Includes energy flows as a result of purchases and inadvertent energy.
[4] LIL deliveries to the Island Interconnected System are calculated as LIL imports of 355.9 GWh less ML exports of 190.3 GWh.
[5] Net energy delivered to the Island Interconnected System is less than the total energy delivery to Hydro under the Muskrat Falls Power Purchase Agreement because of transmission losses on the LIL.