



Newfoundland and Labrador Hydro
Hydro Place, 500 Columbus Drive
P.O. Box 12400, St. John's, NL
Canada A1B 4K7
t. 709.737.1400 | f. 709.737.1800
nlhydro.com

September 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 August 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:

Board of Commissioners of Public Utilities
Jacqui H. Glynn
Ryan Oake
Board General

Linde Canada Inc.
Sheryl E. Nisenbaum
Peter Strong

Teck Resources Limited
Shawn Kinsella

Consumer Advocate
Dennis M. Browne, KC, Browne Fitzgerald Morgan & Avis
Stephen F. Fitzgerald, KC, Browne Fitzgerald Morgan & Avis
Sarah G. Fitzgerald, Browne Fitzgerald Morgan & Avis
Bernice Bailey, Browne Fitzgerald Morgan & Avis

Newfoundland Power Inc.
Dominic J. Foley
Douglas W. Wright
Regulatory Email

Island Industrial Customer Group
Paul L. Coxworthy, Stewart McKelvey
Denis J. Fleming, Cox & Palmer
Glen G. Seaborn, Poole Althouse

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

September 17, 2025

A report to the Board of Commissioners of Public Utilities



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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 August 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 import/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 August 2025 were 55% below 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 (%)
31-August-2025	1,423	1,785	1,885	1,255	2,454	58

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

The aggregate reservoir storage level on August 31, 2025 was 1,423 GWh, which is 42% below the seasonal maximum operating level and 113% of the minimum storage limit.² Total system energy for the month decreased by 198 GWh overall, resulting in a total system energy storage 462 GWh below the 20-year average. Inflows to the reservoirs of the Bay d’Espoir Hydroelectric Generating Station (“Bay d’Espoir”) were 57% of average in August 2025. Inflows to the Hinds Lake Reservoir were 26% of average and inflows to the Cat Arm Reservoir were 7% of average during the month.

There were three significant rainfall events in August 2025. The first of these occurred on August 18 and 19, 2025 when 14 mm of rain was recorded at Burnt Dam, 27 mm of rain at Long Pond, and 18 mm at Hinds Lake. A second rainfall event occurred on August 26, 2025 when 30 mm of rain was recorded at Burnt Dam, 22 mm at Long Pond, and 12 mm at Hinds Lake. The third rainfall event occurred on August 30, 2025 when 20 mm of rain was recorded at Burnt Dam, 27 mm of rain at Long Pond, and 11 mm at Hinds Lake.

Table 2 summarizes the unit outages experienced during August 2025.

Table 2: August 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
Cat Arm Unit 2	July 21	August 28	Planned outage	n/a
Cat Arm Unit 1	July 24	Ongoing	Planned outage	n/a
Bay d’Espoir Unit 5	August 8	August 8	Forced outage	Unit had to be jacked with hydraulic lifters after exceeding 48 hours without spinning.
Granite Canal	August 11	August 11	Forced outage	Lost communications between plant and Energy Control Centre.
Bay d’Espoir Unit 3	August 20	August 20	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d’Espoir Unit 4	August 20	August 20	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d’Espoir Unit 3	August 21	August 21	Planned outage	Daily outage to facilitate powerhouse roof upgrades.

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 (39 months). Other dry periods are also considered during this analysis to ensure that no other shorter-term historic dry sequence could result in insufficient storage.

Unit Name	Date Offline	Return to Service	Outage type	Notes
Bay d'Espoir Unit 4	August 21	August 21	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d'Espoir Unit 3	August 22	August 22	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d'Espoir Unit 4	August 22	August 22	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d'Espoir Unit 3	August 23	August 23	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d'Espoir Unit 3	August 24	August 24	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d'Espoir Unit 4	August 25	August 25	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Bay d'Espoir Unit 5	August 25	August 25	Planned outage	Daily outage to facilitate powerhouse roof upgrades.
Upper Salmon	August 27	Ongoing	Planned outage	n/a

1 Figure 1 plots the 2024 and 2025 storage levels, minimum storage limits, maximum operating level
2 storage, and 20-year average aggregate storage for comparison. In addition to the 2024–2025 limits
3 presented in Figure 1, Hydro has established the minimum storage limits to April 30, 2026. The 2025–
4 2026 limits were developed considering maximized delivery of power from the Muskrat Falls,
5 supplemented by available Recapture Energy from the Churchill Falls Generating Station over the LIL,
6 utilizing the transmission limits associated with the >58.0 Hz under-frequency load shedding scheme.³

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. Hydro plans to have all three units at the Holyrood TGS available at full capability, if needed. However, Hydro expects Island reservoirs to be supported with Muskrat Falls energy instead of thermal energy from the Holyrood TGS.

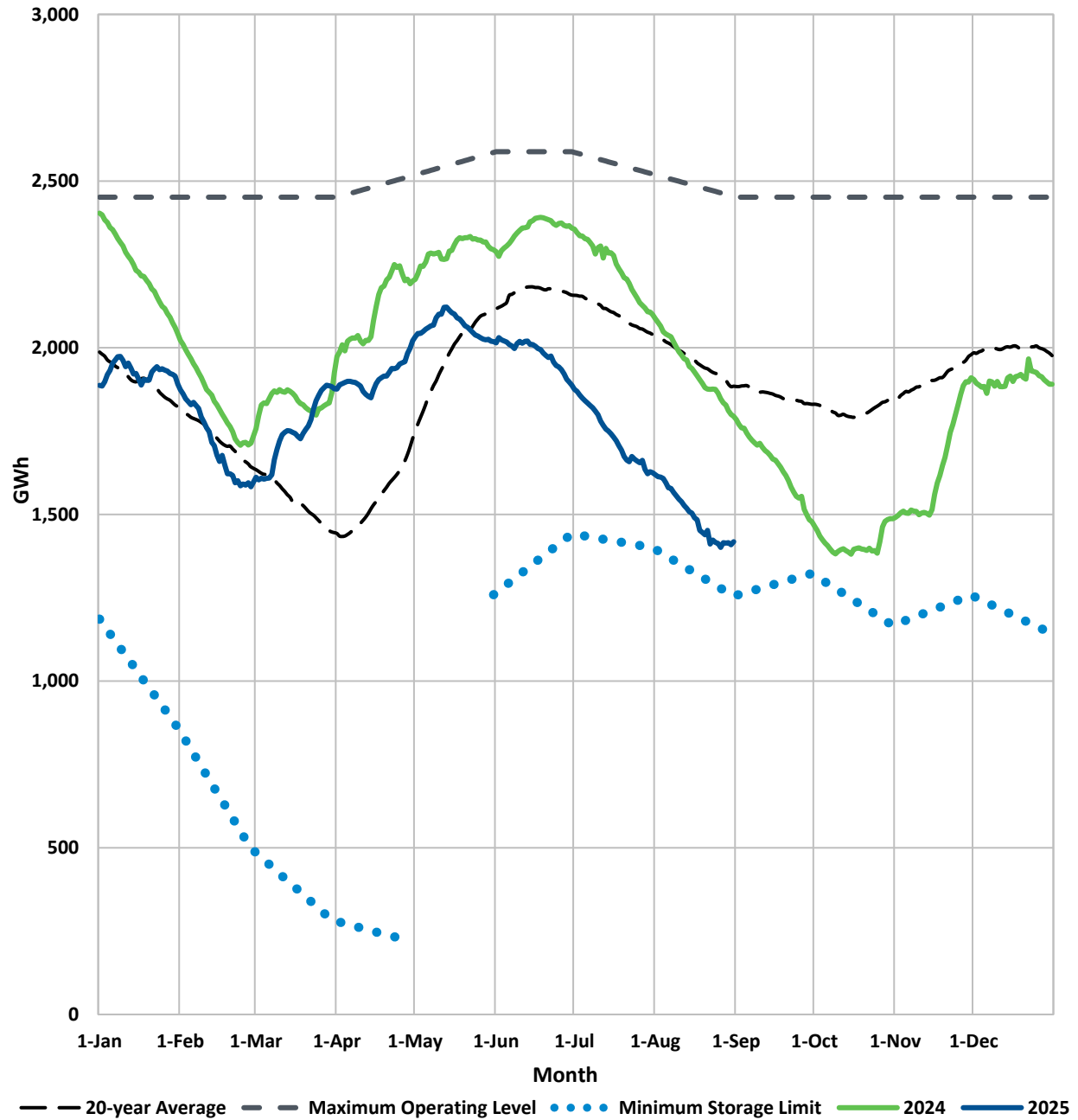


Figure 1: Total System Energy Storage⁴

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 Maritime Link during August 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 August 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 MCM⁷ and GWh can be found in Table 3.

Table 3: Spill Activity

	Granite Canal Bypass		Upper Salmon Bypass		Burnt Dam Spillway	
	MCM	GWh	MCM	GWh	MCM	GWh
31-August-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

3.0 Production and Purchases

Appendix B provides a breakdown of power purchases, including the import and export activity over the LIL and Maritime Link and production by plant during August 2025. There was no energy repaid from CBPP⁸ to Energy Marketing under the Temporary Energy Exchange Agreement in August 2025. There was no emergency energy supplied to Nova Scotia over the Maritime Link during August 2025.

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), and again in Board Order No. P.U. 29(2024).

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").

⁸ Corner Brook Pulp and Paper Limited ("CBPP").

4.0 Thermal Production

No Holyrood TGS units were online for system requirements in August 2025. There was no energy production from the Holyrood TGS during the month. Standby generation was not used to support reservoir storage. The operating hours for the Holyrood TGS, Holyrood Combustion Turbine (“CT”), and the Hardwoods and Stephenville Gas Turbines (“GT”) are summarized in Table 4.

Table 4: Holyrood TGS and Combustion Turbines Operating Hours

	Operating Hours	Synch Condense Hours	Available Hours
Holyrood TGS			
Unit 1	0.0	0.0	0.0
Unit 2	0.0	0.0	0.0
Unit 3	0.0	0.0	0.0
Combustion Turbines			
Hardwoods GT	6.6	245.7	252.3
Stephenville GT	0.6	24.8	744.0
Holyrood CT	1.1	0.0	743.4

5.0 Unit Deratings

All three Holyrood TGS units were on planned annual outages for the entire month of August.

The Hardwoods GT was unavailable for most of the month of August on a planned outage to complete a tank inspection and associated repairs, instrumentation upgrades, and preventative maintenance and corrective maintenance activities. The unit returned to service on August 22.

The Holyrood CT and Stephenville GT were available for the full month of August.

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)
Total¹	-	-	-	-	-	

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	-	-	-	-
Total²	-	-	-	-

¹ Total transactions for August 2025.

² Total transactions for August 2025.

Appendix B

Production and Purchases



Table B-1: Generation and Purchases (GWh)^{1,2}

	Aug-25	YTD Aug 2025
Hydro Generation (Hydro)		
Bay d'Espoir		
Unit 1	0.0	121.6
Unit 2	0.0	110.0
Unit 3	34.0	249.4
Unit 4	21.0	153.5
Unit 5	19.5	177.1
Unit 6	29.8	249.0
Unit 7	72.1	659.1
Subtotal Bay d'Espoir	176.4	1,719.6
Upper Salmon	34.2	380.9
Granite Canal	22.4	136.2
Hinds Lake	19.1	240.6
Cat Arm		
Unit 1	3.0	264.4
Unit 2	6.3	268.5
Subtotal Cat Arm	9.3	532.8
Paradise River	0.0	17.0
Star Lake	12.6	92.5
Rattle Brook	0.0	8.4
Exploits	42.1	394.4
Mini Hydro	0.0	0.0
Total Hydro Generation (Hydro)	316.2	3,522.5
Thermal Generation (Hydro)		
Holyrood TGS		
Unit 1	0.0	107.4
Unit 2	0.0	198.3
Unit 3	0.0	138.4
Subtotal Holyrood TGS Units	0.0	444.1
Holyrood Combustion Turbine and Diesels	0.0	4.3
Hardwoods Gas Turbine	0.0	1.1
Stephenville Gas Turbine	0.0	0.9
Other Thermal	0.0	0.2
Total Thermal Generation (Hydro)	0.0	450.6
Purchases		
Requested Newfoundland Power and Vale	0.0	0.1
CBPP		
Capacity Assistance	0.0	0.0
Power Purchase Agreement	0.3	34.7
Secondary	0.1	0.5
Co-Generation	2.3	30.3
Subtotal CBPP	2.7	65.6
Wind Purchases	8.0	120.3
Maritime Link Imports ³	0.0	0.0
New World Dairy	0.1	1.0
Labrador Island Link Delivery to IIS ^{4,5}	88.5	638.2
Total Purchases	99.2	825.3
Total	415.5	4,798.3

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 270.1 GWh less Maritime Link exports of 181.6 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.