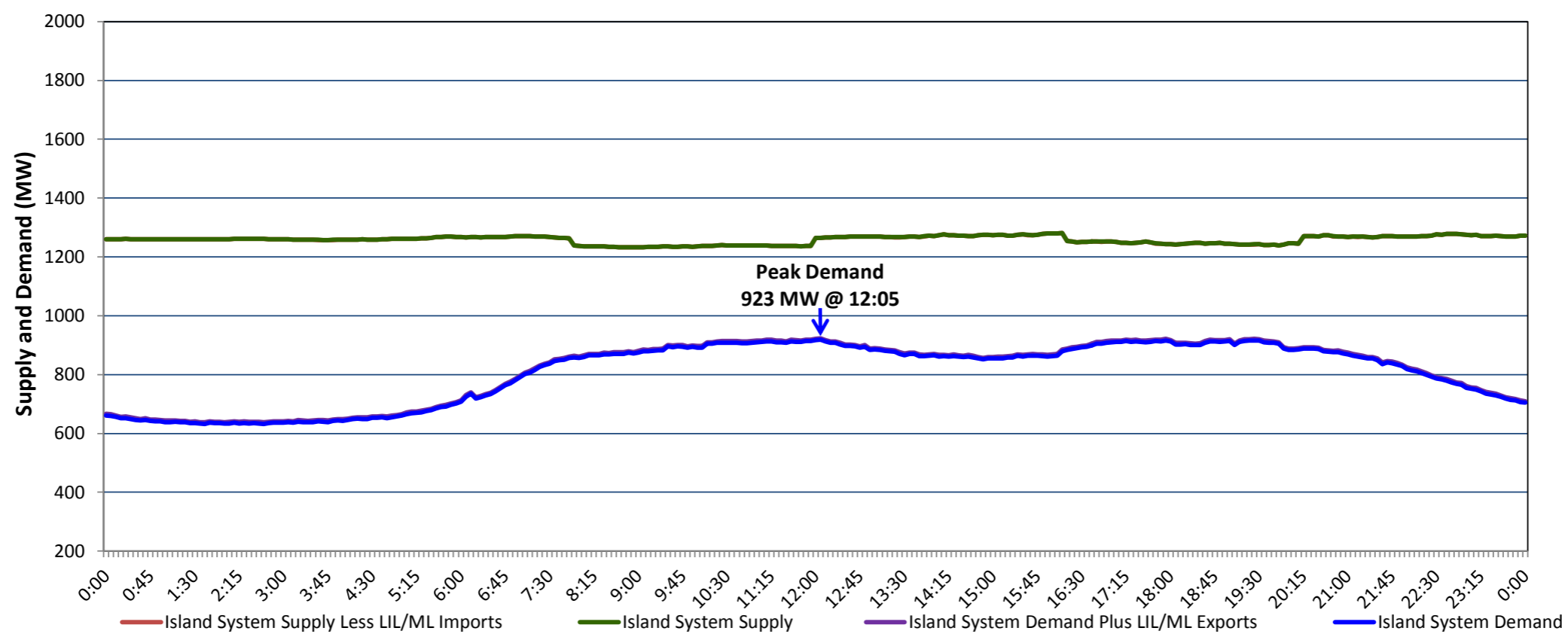


**Newfoundland Labrador Hydro (NLH)  
Supply and Demand Status Report Filed Wednesday, October 13, 2021**

**Section 1  
Island Interconnected System Supply, Demand & Exports  
Actual 24 Hour System Performance For Tuesday, October 12, 2021**



**Supply Notes For October 12, 2021**

- 1,2
- A As of 0804 hours, May 26, 2021, Holyrood Unit 1 unavailable due to planned outage (170 MW).
  - B As of 0850 hours, July 25, 2021, Bay d'Espoir Unit 5 unavailable due to planned outage (76.5 MW).
  - C As of 1051 hours, July 25, 2021, Bay d'Espoir Unit 6 unavailable due to planned outage (76.5 MW).
  - D As of 1052 hours, August 01, 2021, Upper Salmon Unit unavailable due to planned outage (84 MW).
  - E As of 1500 hours, August 12, 2021, Holyrood Unit 2 unavailable due to planned outage (170 MW).
  - F As of 1006 hours, September 11, 2021, Holyrood Unit 3 unavailable (150 MW).
  - G At 0754 hours, October 12, 2021, Hardwoods Gas Turbine available at 25 MW (50 MW).
  - H At 1156 hours, October 12, 2021, Hardwoods Gas Turbine available at full capacity (50 MW).
  - I At 1611 hours, October 12, 2021, Hardwoods Gas Turbine available at 25 MW (50 MW).
  - J At 2011 hours, October 12, 2021, Hardwoods Gas Turbine available at full capacity (50 MW).

**Section 2  
Island Interconnected Supply and Demand**

Wed, Oct 13, 2021	Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
			Morning	Evening	Forecast	Adjusted <sup>7</sup>
Available Island System Supply: <sup>5</sup>	1,295 MW	Wednesday, October 13, 2021	8	7	910	910
NLH Island Generation: <sup>4,8</sup>	965 MW	Thursday, October 14, 2021	6	9	935	935
NLH Island Power Purchases: <sup>6</sup>	120 MW	Friday, October 15, 2021	9	8	920	920
Other Island Generation:	210 MW	Saturday, October 16, 2021	8	6	890	890
ML/LIL Imports:	- MW	Sunday, October 17, 2021	7	8	870	870
Current St. John's Temperature & Windchill:	7 °C N/A	Monday, October 18, 2021	13	10	860	860
7-Day Island Peak Demand Forecast:	935 MW	Tuesday, October 19, 2021	10	10	870	870

**Supply Notes For October 13, 2021**

- 3
- 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. 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.
  2. 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.
  3. As of 0800 Hours.
  4. Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
  5. Gross output from all Island sources (including Note 4).
  6. NLH Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
  7. Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
  8. 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.

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

Tue, Oct 12, 2021	Actual Island Peak Demand <sup>8</sup>	12:05	923 MW
Wed, Oct 13, 2021	Forecast Island Peak Demand		910 MW

Notes: 8. 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).