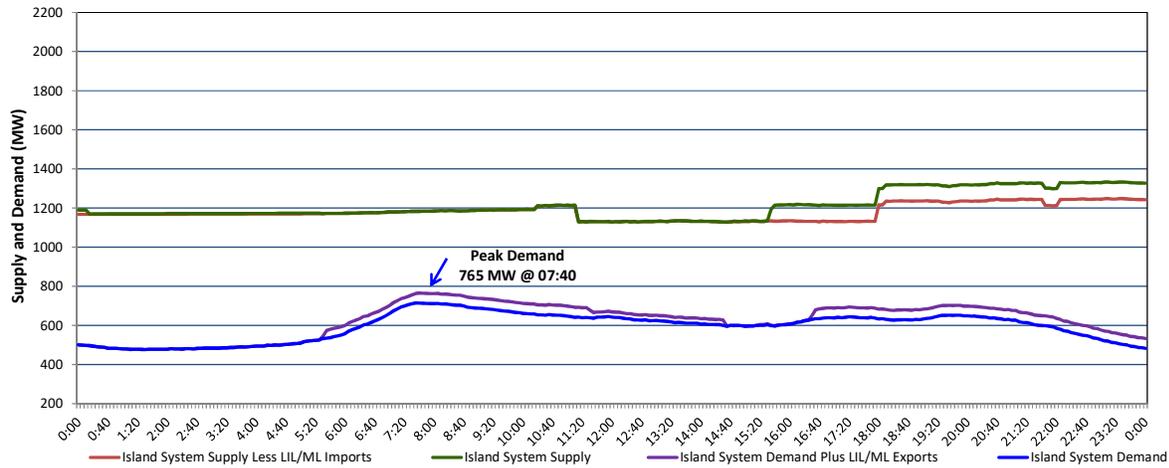


**Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, September 22, 2022**

**Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Wednesday, September 21, 2022**



Supply Notes For September 21, 2022

- A As of 0800 hours, June 08, 2022, Holyrood Unit 1 unavailable due to planned outage (170 MW).
- B As of 0800 hours, July 31, 2022, Holyrood Unit 2 unavailable due to planned outage 150 MW (170 MW).
- C As of 1040 hours, August 27, 2022, Holyrood Unit 3 available but not operating (150 MW).
- D As of 1748 hours, September 11, 2022, Cat Arm Unit 2 unavailable due to planned outage (67 MW).
- E As of 0814 hours, September 12, 2022, Cat Arm Unit 1 unavailable due to planned outage (67 MW).
- F As of 0815 hours, September 18, 2022, Holyrood Gas Turbine unavailable due to planned outage (123.5 MW).
- G At 1113 hours, September 21, 2022, Upper Salmon Unit unavailable due to planned outage (84 MW).
- H At 1808 hours, September 21, 2022, Upper Salmon Unit available (84 MW).

**Section 2
Island Interconnected Supply and Demand**

Thu, Sep 22, 2022	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	1,420 MW	Thursday, September 22, 2022	14	15	955	955
NLH Island Generation: ^{4,8}	945 MW	Friday, September 23, 2022	15	16	730	730
NLH Island Power Purchases: ⁶	100 MW	Saturday, September 24, 2022	17	15	720	720
Other Island Generation:	215 MW	Sunday, September 25, 2022	13	11	755	755
ML/LIL Imports:	160 MW	Monday, September 26, 2022	13	16	750	750
Current St. John's Temperature & Windchill:	13 N/A °C	Tuesday, September 27, 2022	16	17	755	755
7-Day Island Peak Demand Forecast:	955 MW	Wednesday, September 28, 2022	17	13	770	770

Supply Notes For September 22, 2022

- 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 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**

Wed, Sep 21, 2022	Actual Island Peak Demand ⁹	7:40	765 MW
Thu, Sep 22, 2022	Forecast Island Peak Demand		955 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).