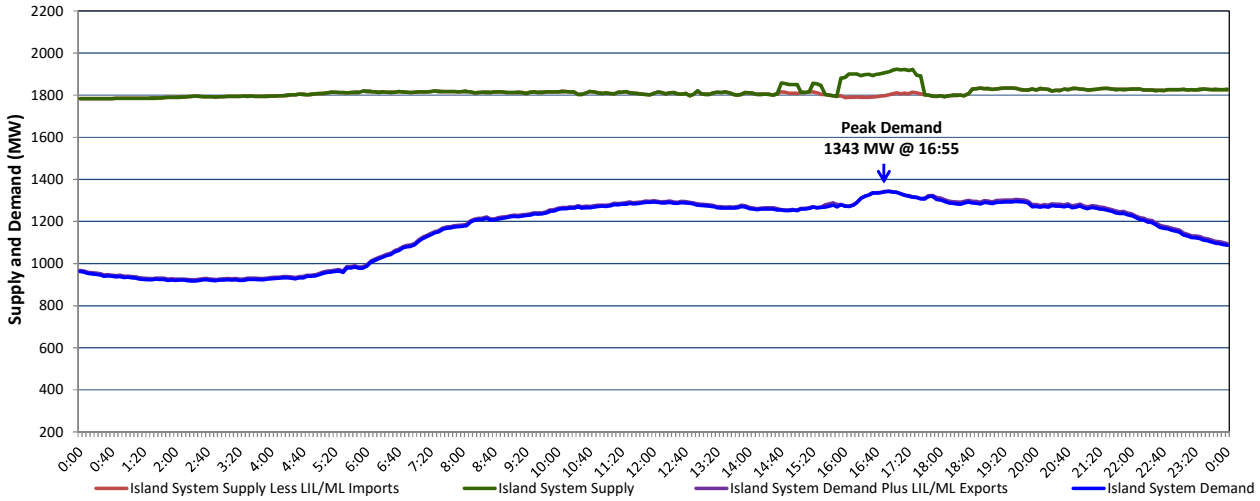
Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Friday, December 10, 2021

Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Thursday, December 09, 2021



Supply Notes For December 09, 2021 [1,2]

A As of 0850 hours, July 25, 2021, Bay d'Espoir Unit 5 unavailable due to planned outage (76.5 MW).

B As of 0830 hours, November 12, 2021, Holyrood Unit 2 unavailable (170 MW).

Section 2
Island Interconnected Supply and Demand

Fri, Dec 10, 2021	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]	**1,790**	**MW**		Friday, December 10, 2021	-5	-6	**1,415**	**1,311**
NLH Island Generation:[4,8]	1,445	MW		Saturday, December 11, 2021	-6	2	1,295	1,192
NLH Island Power Purchases:[6]	140	MW		Sunday, December 12, 2021	6	10	1,110	1,009
Other Island Generation:	205	MW		Monday, December 13, 2021	-1	1	1,375	1,271
ML/LIL Imports:	-	MW		Tuesday, December 14, 2021	0	-1	1,315	1,212
Current St. John's Temperature & Windchill:	-5	-14	°C	Wednesday, December 15, 2021	-5	-4	1,425	1,321
7-Day Island Peak Demand Forecast:	**1,425**	MW		Thursday, December 16, 2021	-7	-7	1,425	1,321

Supply Notes For December 10, 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

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

Thu, Dec 09, 2021	Actual Island Peak Demand[9]	16:55	1,343 MW
Fri, Dec 10, 2021	Forecast Island Peak Demand		1,415 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).