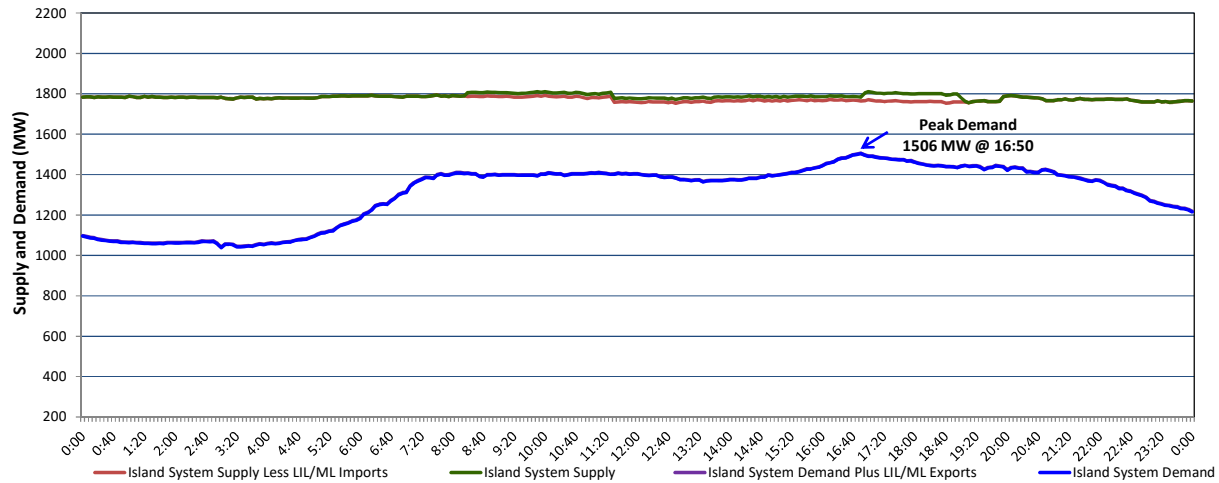


**Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, December 16, 2021**

**Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Wednesday, December 15, 2021**



Supply Notes For December 15, 2021

- 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).
 C At 1130 hours, December 15, 2021, Hardwoods GT available at 25 MW (50 MW).
 D At 1954 hours, December 15, 2021, Hardwoods GT available (50 MW).

**Section 2
Island Interconnected Supply and Demand**

Thu, Dec 16, 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	1,675 MW	Thursday, December 16, 2021	-8	-8	1,480	1,375
NLH Island Generation: ^{4,8}	1,355 MW	Friday, December 17, 2021	-4	1	1,405	1,301
NLH Island Power Purchases: ⁶	100 MW	Saturday, December 18, 2021	1	-2	1,405	1,301
Other Island Generation:	220 MW	Sunday, December 19, 2021	-5	-6	1,480	1,375
ML/LIL Imports:	- MW	Monday, December 20, 2021	-6	-5	1,490	1,385
Current St. John's Temperature & Windchill:	-8 -17 °C	Tuesday, December 21, 2021	-7	-6	1,480	1,375
7-Day Island Peak Demand Forecast:	1,495 MW	Wednesday, December 22, 2021	-5	-4	1,495	1,390

Supply Notes For December 16, 2021

- E At 0612 hours, December 16, 2021, Granite Canal unavailable (40 MW).
 F At 0710 hours, December 16, 2021, Hardwoods GT available at 25 MW (50 MW).
 G At 0747 hours, December 16, 2021, Stephenville GT available at 25 MW (50 MW).

- 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**

Wed, Dec 15, 2021	Actual Island Peak Demand ⁹	16:50	1,506 MW
Thu, Dec 16, 2021	Forecast Island Peak Demand		1,480 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).