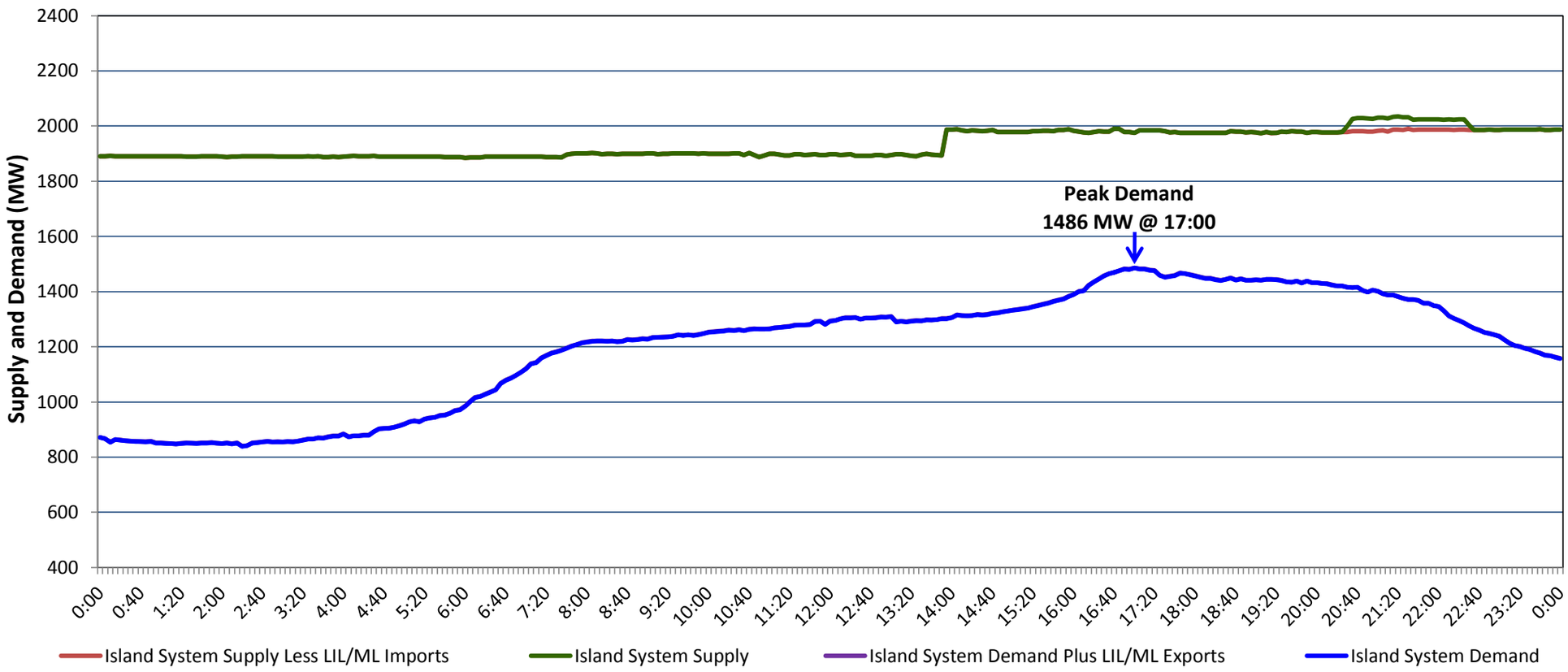
Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Tuesday, December 17, 2019

Section 1
Island Interconnected System Supply, Demand & Exports
Actual 24 Hour System Performance For Monday, December 16, 2019



Supply Notes For December 16, 2019 [1,2]

A As of 1719 hours, December 14, 2019, Stephenville Gas Turbine available at 25 MW (50 MW).

B At 1351 hours, December 16, 2019, Holyrood Unit 2 available at full capacity (170 MW).

Section 2
Island Interconnected Supply and Demand

Tue, Dec 17, 2019	Island System Outlook[3]			Seven-Day Forecast	Temperature (°C) Morning	Temperature (°C) Evening	Island System Daily Peak Demand (MW) Forecast	Island System Daily Peak Demand (MW) Adjusted[7]
Available Island System Supply:[5]	**2,025**	**MW**		Tuesday, December 17, 2019	-3	-4	**1,570**	**1,464**
NLH Island Generation:[4]	1,670	MW		Wednesday, December 18, 2019	-4	-5	1,480	1,375
NLH Island Power Purchases:[6]	145	MW		Thursday, December 19, 2019	-6	-4	1,420	1,316
Other Island Generation:	210	MW		Friday, December 20, 2019	-1	-1	1,405	1,301
ML/LIL Imports:	-	MW		Saturday, December 21, 2019	-1	-3	1,395	1,291
Current St. John's Temperature & Windchill: -3 °C	-13	°C		Sunday, December 22, 2019	-7	-6	1,520	1,414
7-Day Island Peak Demand Forecast:	**1,570**	MW		Monday, December 23, 2019	-6	-4	1,505	1,400

Supply Notes For December 17, 2019 [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.

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

Mon, Dec 16, 2019	Actual Island Peak Demand[8]	17:00	1,486 MW
Tue, Dec 17, 2019	Forecast Island Peak Demand		1,570 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).