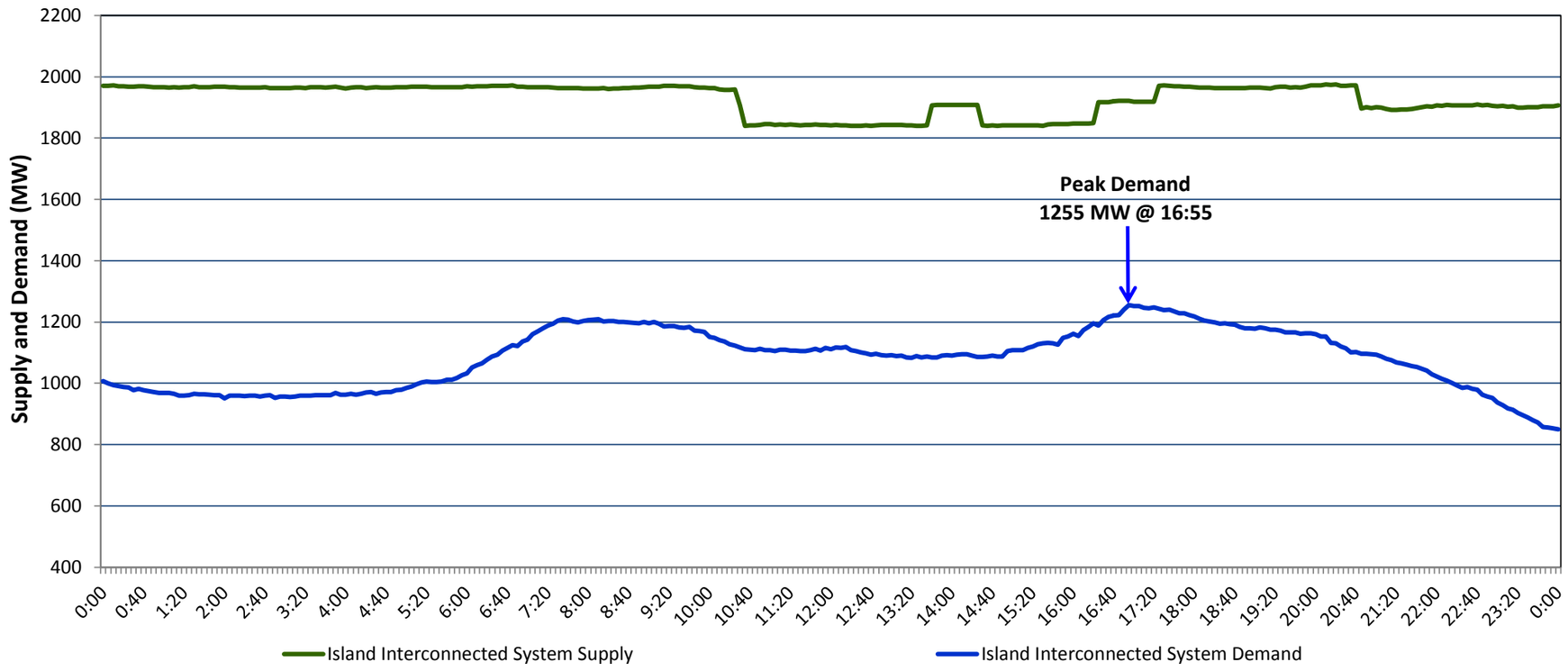
Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, December 14, 2017

Section 1
Island Interconnected System Supply and Demand
Actual 24 Hour System Performance For Wednesday, December 13, 2017



Supply Notes For December 13, 2017 [1,2]

A	As of 1908 hours, November 24, 2017, Holyrood Unit 2 available at 160 MW (170 MW).
B	As of 0852 hours, December 02, 2017, Stephenville Gas Turbine available at 38 MW (50 MW).
C	As of 1508 hours, December 04, 2017, Holyrood Unit 1 available at 150 MW (170 MW).
D	As of 2230 hours, December 11, 2017, Holyrood Unit 3 available at 130 MW (150 MW).
E	At 1027 hours, December 13, 2017, Hardwoods Gas Turbine unavailable due to planned outage (50 MW).
F	At 1035 hours, December 13, 2017, Cat Arm Unit 1 unavailable due to planned outage (67 MW).
G	At 1339 hours, December 13, 2017, Cat Arm Unit 1 available (67 MW).
H	At 1426 hours, December 13, 2017, Cat Arm Unit 2 unavailable due to planned outage (67 MW).
I	At 1624 hours, December 13, 2017, Cat Arm Unit 2 available (67 MW).
J	At 1722 hours, December 13, 2017, Hardwoods Gas Turbine available (50 MW).
K	At 2042 hours, December 13, 2017, Bay d'Espoir Unit 4 unavailable due to planned outage (76.5 MW).

Section 2
Island Interconnected Supply and Demand

Thu, Dec 14, 2017 Island System Outlook[3]		
Available Island System Supply:[5]	**1,895**	**MW**
NLH Generation:[4]	1,555	MW
NLH Power Purchases:[6]	145	MW
Other Island Generation:	195	MW
Current St. John's Temperature:	3	°C
Current St. John's Windchill:	N/A	°C
7-Day Island Peak Demand Forecast:	**1,565**	MW

Seven-Day Forecast	Temperature (°C) Morning	Evening	Island System Daily Peak Demand (MW) Forecast	Adjusted[7]
Thursday, December 14, 2017	3	3	**1,370**	**1,263**
Friday, December 15, 2017	2	-1	1,440	1,332
Saturday, December 16, 2017	-1	0	1,385	1,278
Sunday, December 17, 2017	-5	-4	1,480	1,372
Monday, December 18, 2017	-8	-7	1,565	1,456
Tuesday, December 19, 2017	-8	-4	1,490	1,382
Wednesday, December 20, 2017	2	9	1,365	1,258

Supply Notes For December 14, 2017 [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 Interconnected System being isolated from the larger North American grid, when there is a sudden loss of large generating units some customer's load must 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, is necessary to ensure the integrity and reliability of system equipment. Under frequency events typically occur 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes.
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 Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation, Vale capacity assistance and Maritime Link Import (when applicable).
7. Adjusted for CBP&P and Vale and Praxair interruptible load, the impact of voltage reduction and Maritime Link Exports (when applicable).

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

Wed, Dec 13, 2017	Actual Island Peak Demand[8]	16:55	1,255 MW
Thu, Dec 14, 2017	Forecast Island Peak Demand		1,370 MW

Notes: 8. Island Demand is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).