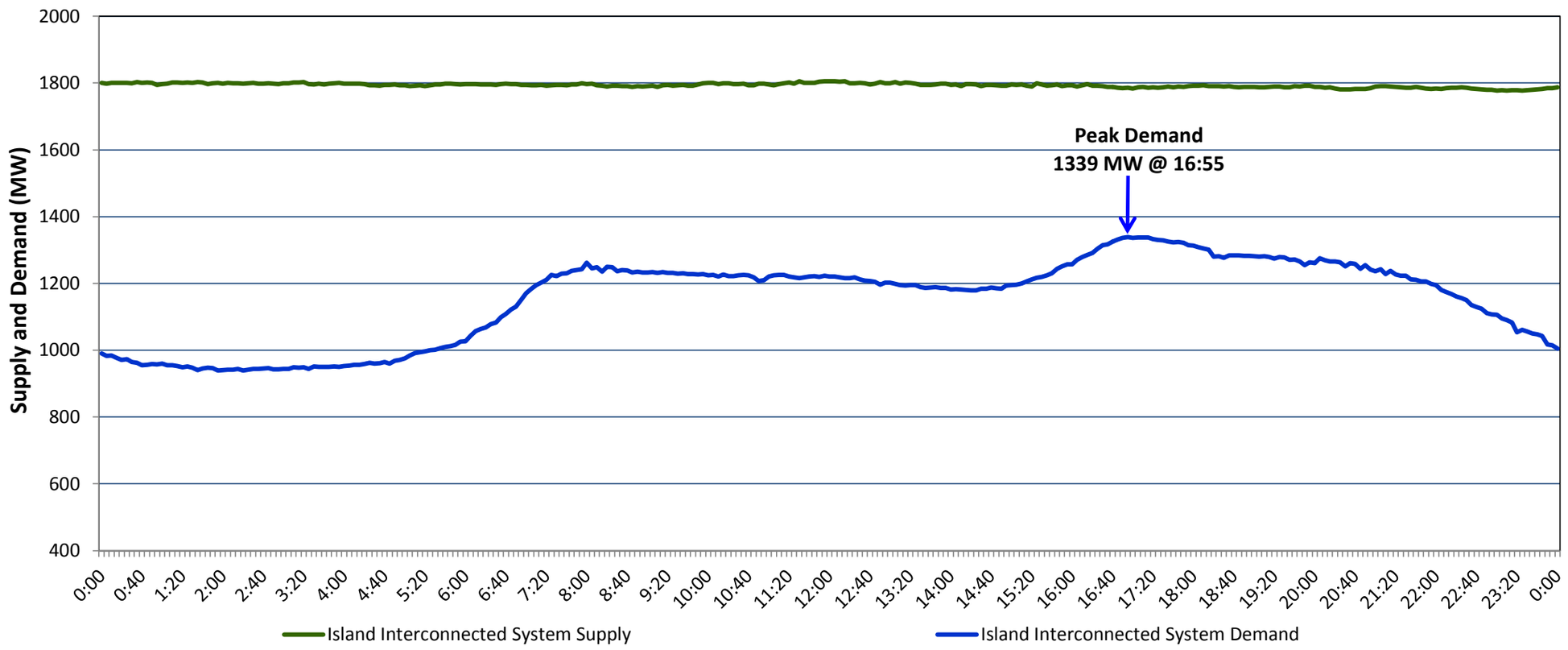
Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Wednesday, December 06, 2017

Section 1
Island Interconnected System Supply and Demand
Actual 24 Hour System Performance For Tuesday, December 05, 2017



Supply Notes For December 05, 2017 [1,2]

A	As of 1510 hours, November 04, 2017, Bay d'Espoir Unit 1 unavailable (76.5 MW).
B	As of 1510 hours, November 04, 2017, Bay d'Espoir Unit 2 unavailable (76.5 MW).
C	As of 1908 hours, November 24, 2017, Holyrood Unit 2 available at 160 MW (170 MW).
D	As of 0852 hours, December 02, 2017, Stephenville Gas Turbine available at 38 MW (50 MW).
E	As of 1508 hours, December 04, 2017, Holyrood Unit 1 available at 150 MW (170 MW).

Section 2
Island Interconnected Supply and Demand

Wed, Dec 06, 2017	**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]	**1,700**	**MW**	Wednesday, December 06, 2017	0	1	**1,300**	**1,194**
NLH Generation:[4]	1,450	MW	Thursday, December 07, 2017	4	4	1,295	1,189
NLH Power Purchases:[6]	75	MW	Friday, December 08, 2017	-2	1	1,315	1,209
Other Island Generation:	175	MW	Saturday, December 09, 2017	0	0	1,325	1,219
Current St. John's Temperature:	-1	°C	Sunday, December 10, 2017	0	8	1,350	1,243
Current St. John's Windchill:	-5	°C	Monday, December 11, 2017	3	0	1,375	1,268
7-Day Island Peak Demand Forecast:	**1,375**	MW	Tuesday, December 12, 2017	2	5	1,295	1,189

Supply Notes For December 06, 2017 [3]

F	At 0602 hours, December 06, 2017, Hardwoods Gas Turbine unavailable due to planned outage (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 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, Vale capacity assistance (when applicable), and Wind Generation.
7. Adjusted for CBP&P and Vale and Praxair interruptible load and the impact of voltage reduction, when applicable.

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

Tue, Dec 05, 2017	Actual Island Peak Demand[8]	16:55	1,339	MW
Wed, Dec 06, 2017	Forecast Island Peak Demand		1,300	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).