

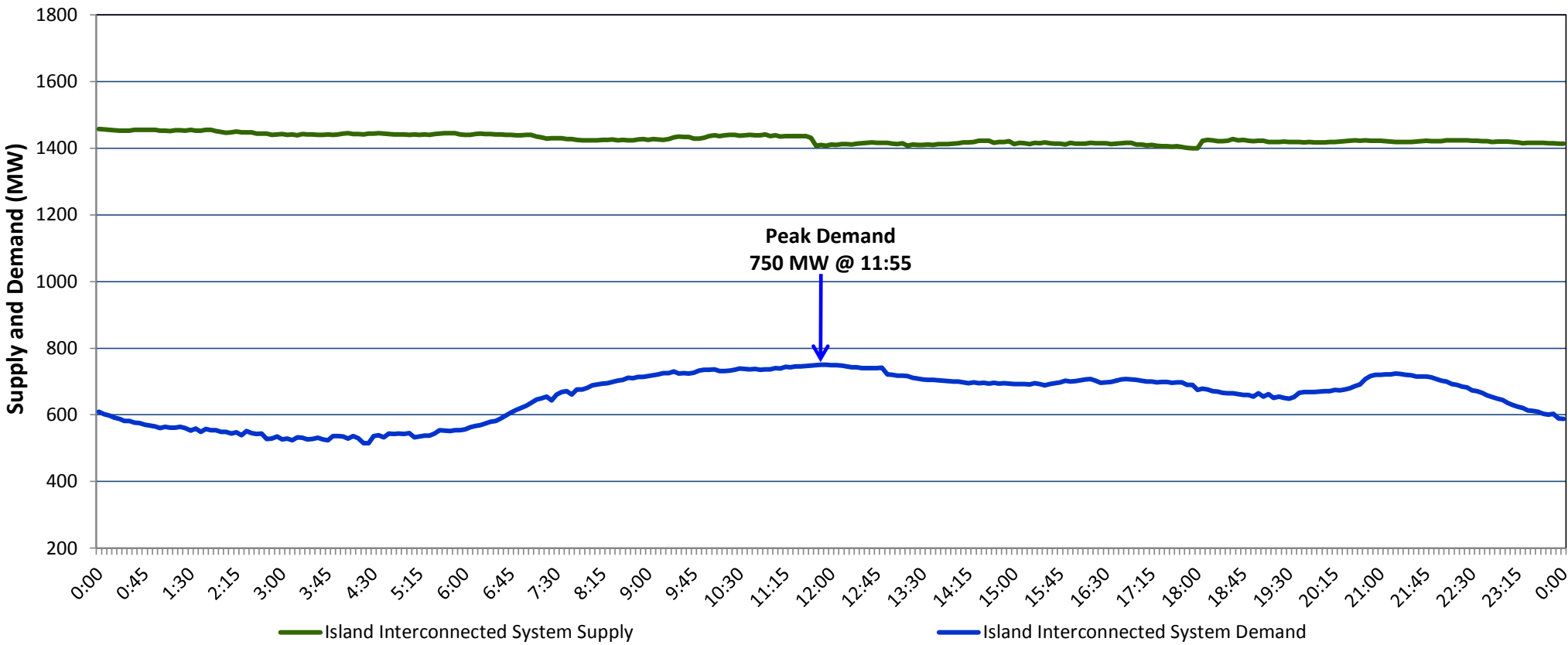
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Wednesday, August 16, 2017

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Tuesday, August 15, 2017



Supply Notes For August 15, 2017

- 1,2
- A

As of 1858 hours, June 22, 2017, Stephenville Gas Turbine available at 25 MW (50 MW).
- B

As of 0938 hours, June 23, 2017, Holyrood Unit 1 unavailable due to planned outage 120 MW (170 MW).
- C

As of 0827 hours, July 31, 2017, Holyrood Unit 2 unavailable due to planned outage 165 MW (170 MW).
- D

As of 0827 hours, July 31, 2017, Holyrood Unit 3 unavailable due to planned outage (150 MW).
- E

As of 1250 hours, August 06, 2017, Upper Salmon Unit unavailable due to planned outage (84 MW).
- F

At 1043 hours, August 15, 2017, Hardwoods Gas Turbine available at 25 MW (50 MW).
- G

At 1550 hours, August 15, 2017, St. Anthony Diesel Plant available at full capacity (9.7 MW).
- H

At 1802 hours, August 15, 2017, Hardwoods Gas Turbine available at full capacity (50 MW).

Section 2

Island Interconnected Supply and Demand

Wed, Aug 16, 2017		Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)
				Morning	Evening	
Available Island System Supply: ⁵		1,375 MW	Wednesday, August 16, 2017	15	15	800
NLH Generation: ⁴		1,095 MW	Thursday, August 17, 2017	16	14	810
NLH Power Purchases: ⁶		95 MW	Friday, August 18, 2017	12	12	825
Other Island Generation:		185 MW	Saturday, August 19, 2017	13	15	790
Current St. John's Temperature:		12 °C	Sunday, August 20, 2017	16	16	770
Current St. John's Windchill:		N/A °C	Monday, August 21, 2017	17	19	810
7-Day Island Peak Demand Forecast:		825 MW	Tuesday, August 22, 2017	17	18	800

Supply Notes For August 16, 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, Vale capacity assistance (when applicable), and Wind Generation.

Section 3

Island Peak Demand Information

Previous Day Actual Peak and Current Day Forecast Peak

Tue, Aug 15, 2017	Actual Island Peak Demand ⁸	11:55	750 MW
Wed, Aug 16, 2017	Forecast Island Peak Demand		800 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).