

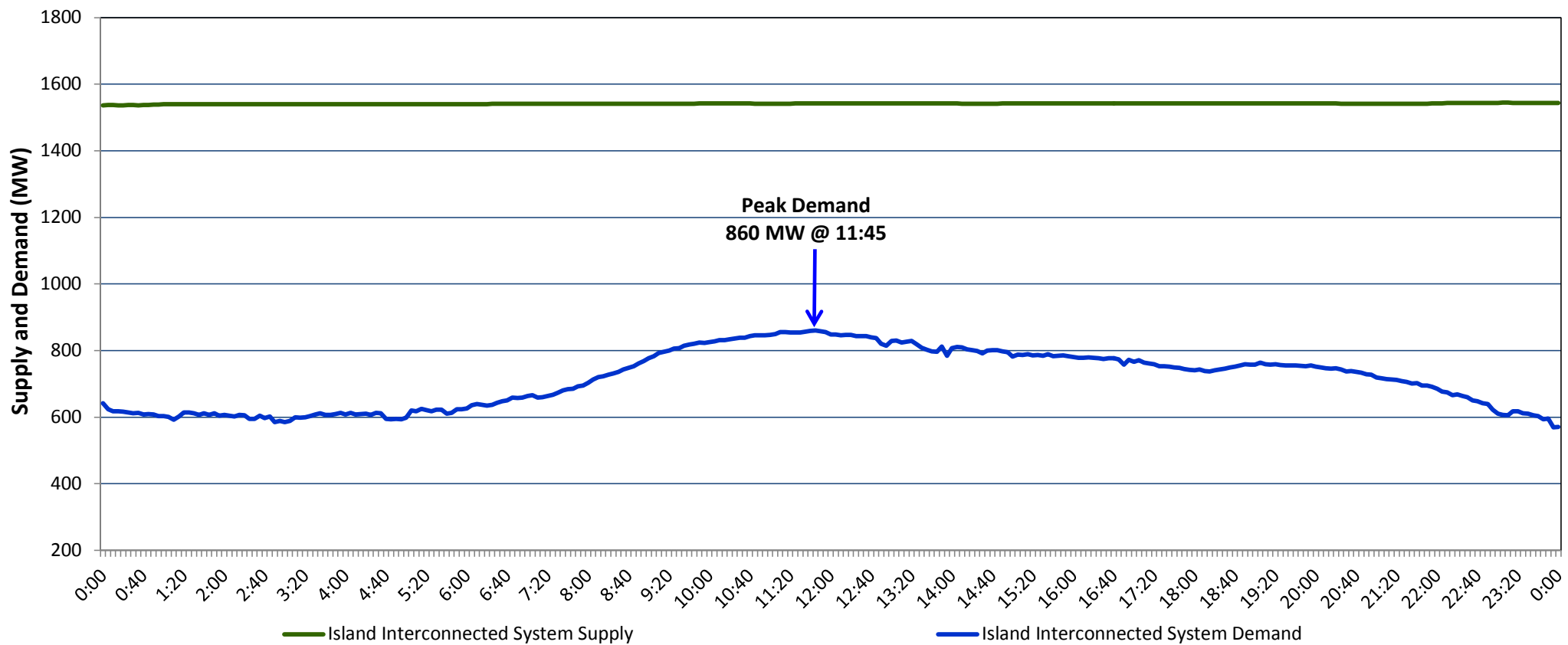
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Tuesday, October 10, 2017

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Sunday, October 08, 2017



**Supply Notes For October 08, 2017** <sup>1,2</sup>

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

**B** As of 1527 hours, September 17, 2017, Cat Arm Unit 1 unavailable due to planned outage (67 MW).

**C** As of 1229 hours, September 22, 2017, Stephenville Gas Turbine available at 25 MW (50 MW).

**D** As of 1211 hours, October 01, 2017, Cat Arm Unit 2 unavailable due to planned outage (67 MW).

**E** As of 1442 hours, October 07, 2017, Holyrood Unit 1 available at 35 MW (170 MW).

Section 2

Island Interconnected Supply and Demand

Mon, Oct 09, 2017			Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)
					Morning	Evening	
Available Island System Supply: <sup>5</sup>			1,535 MW	Monday, October 09, 2017	16	13	780
NLH Generation: <sup>4</sup>			1,230 MW	Tuesday, October 10, 2017	13	15	830
NLH Power Purchases: <sup>6</sup>			105 MW	Wednesday, October 11, 2017	13	7	1,005
Other Island Generation:			200 MW	Thursday, October 12, 2017	6	5	1,015
Current St. John's Temperature:			16 °C	Friday, October 13, 2017	5	7	1,025
Current St. John's Windchill:			N/A °C	Saturday, October 14, 2017	10	11	935
7-Day Island Peak Demand Forecast:			1,025 MW	Sunday, October 15, 2017	9	9	940

**Supply Notes For October 09, 2017** <sup>3</sup>

Notes:

- 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.
- 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.
- As of 0800 Hours.
- Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
- Gross output from all Island sources (including Note 4).
- 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

Sun, Oct 08, 2017	Actual Island Peak Demand <sup>8</sup>	11:45	860 MW
Mon, Oct 09, 2017	Forecast Island Peak Demand		780 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).