

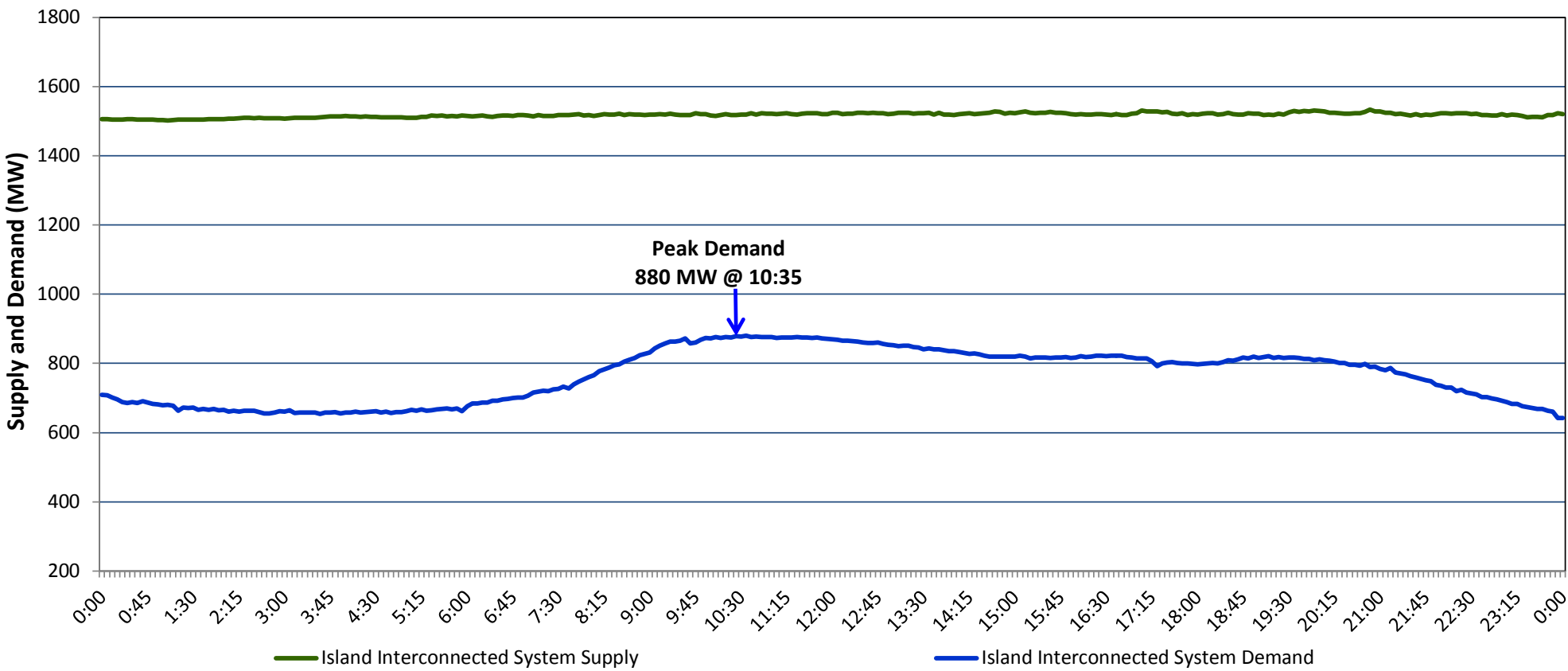
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Tuesday, October 11, 2016

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Sunday, October 09, 2016



Supply Notes For October 09, 2016

- A** As of 1956 hours, January 14, 2016, Nalcor Exploits Grand Falls Unit 7 unavailable. No net impact to the Island Interconnected System.
- B** As of 1526 hours, March 26, 2016, Stephenville Gas Turbine End A unavailable (25 MW).
- C** As of 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
- D** As of 1341 hours, August 27, 2016, Holyrood Unit 1 unavailable. Previously derated to 120 MW (170 MW).
- E** As of 0714 hours, August 31, 2016, Cat Arm Unit 1 unavailable (67 MW).
- F** As of 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant units 7 and 9 unavailable. No net impact to the Island Interconnected System.
- G** As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- H** As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- I** As of 1956 hours, September 30, 2016, Paradise River Unit unavailable (8 MW).
- J** As of 1154 hours, October 02, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).
- K** As of 1928 hours, October 03, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW).
- L** As of 0808 hours, October 04, 2016, Holyrood Diesels unit 5 unavailable (2 MW). No net impact to the Island Interconnected System.
- M** At 0800 hours, October 09, 2016, Hawkes Bay Diesel Plant unavailable (5 MW).

Section 2

Island Interconnected Supply and Demand

Mon, Oct 10, 2016	Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)
			Morning	Evening	Forecast
Available Island System Supply: <sup>5</sup>	1,525 MW	Monday, October 10, 2016	15	15	915
NLH Generation: <sup>4</sup>	1,240 MW	Tuesday, October 11, 2016	11	5	1,035
NLH Power Purchases: <sup>6</sup>	110 MW	Wednesday, October 12, 2016	5	9	1,010
Other Island Generation:	175 MW	Thursday, October 13, 2016	9	9	935
Current St. John's Temperature:	16 °C	Friday, October 14, 2016	9	9	915
Current St. John's Windchill:	N/A °C	Saturday, October 15, 2016	7	7	1,120
7-Day Island Peak Demand Forecast:	1,120 MW	Sunday, October 16, 2016	10	11	1,015

Supply Notes For October 10, 2016

- N** At 0532 hours, October 10, 2016, Nalcor Exploits Grand Falls Unit 5 unavailable. Net impact to the Island Interconnected System is 4 MW.

- 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 09, 2016	Actual Island Peak Demand <sup>8</sup>	10:35	880 MW
Mon, Oct 10, 2016	Forecast Island Peak Demand		915 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).