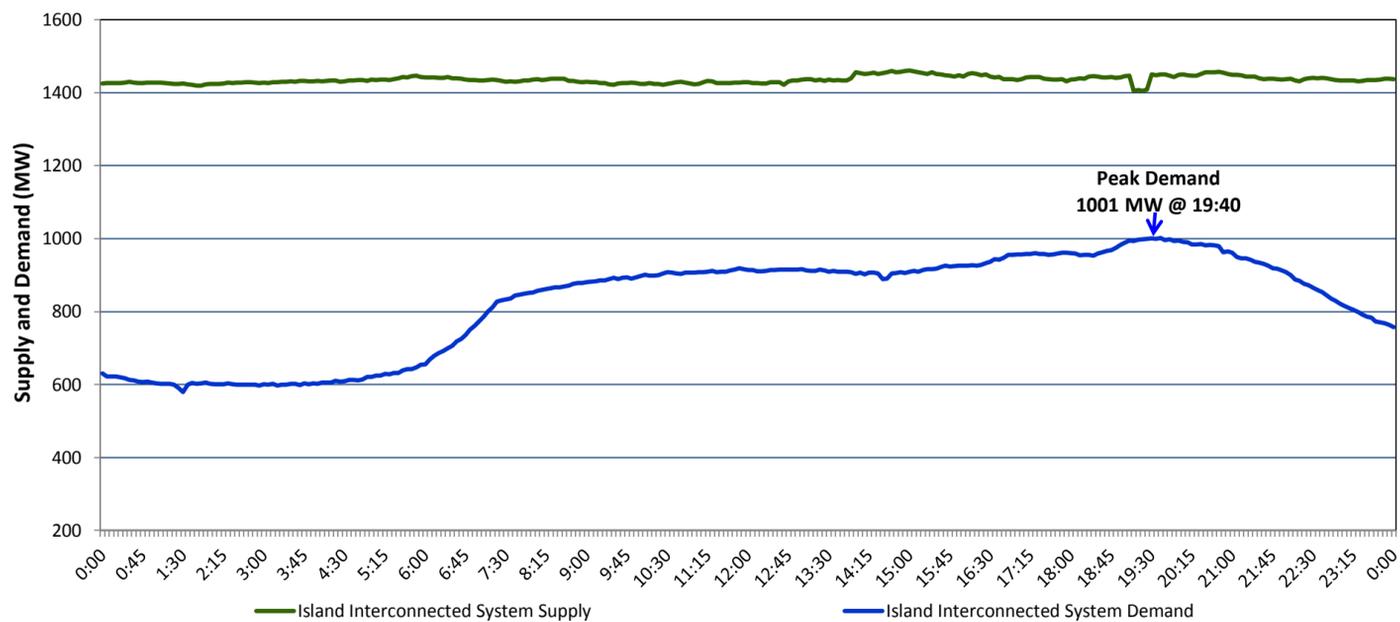


**Newfoundland Labrador Hydro (NLH)  
Supply and Demand Status Report Filed Tuesday, October 04, 2016**

**Section 1  
Island Interconnected System Supply and Demand  
Actual 24 Hour System Performance For Monday, October 03, 2016**



**Supply Notes For October 03, 2016**

- 1,2
- 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 0757 hours, August 29, 2016, Bay d'Espoir Unit 5 unavailable (76.5 MW).
  - F As of 0714 hours, August 31, 2016, Cat Arm Unit 1 unavailable (67 MW).
  - G 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.
  - H As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
  - I As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
  - J As of 1956 hours, September 30, 2016, Paradise River Unit unavailable (8 MW).
  - K As of 2224 hours, September 30, 2016, Holyrood Diesels units 5 and 6 unavailable (4 MW). Net impact to the Island Interconnected System is 2 MW.
  - L As of 1154 hours, October 02, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).
  - M At 0408 hours, October 03, 2016, Nalcor Exploits Grand Falls Unit 6 unavailable. Net impact to the Island Interconnected System is 4 MW.
  - N At 1909 hours, October 03, 2016, Hardwoods Gas Turbine unavailable. Previously derated to 38 MW (50 MW).
  - O At 1928 hours, October 03, 2016, Hardwoods Gas Turbine available. Derated to 38 MW (50 MW).

**Section 2  
Island Interconnected Supply and Demand**

Tue, Oct 04, 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>	1,440 MW	Tuesday, October 04, 2016	4	8	1,030
NLH Generation: <sup>4</sup>	1,165 MW	Wednesday, October 05, 2016	10	12	935
NLH Power Purchases: <sup>6</sup>	110 MW	Thursday, October 06, 2016	10	10	850
Other Island Generation:	165 MW	Friday, October 07, 2016	11	11	885
Current St. John's Temperature:	3 °C	Saturday, October 08, 2016	6	9	935
Current St. John's Windchill:	N/A °C	Sunday, October 09, 2016	12	13	855
7-Day Island Peak Demand Forecast:	1,030 MW	Monday, October 10, 2016	14	15	860

**Supply Notes For October 04, 2016**

- 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**

Mon, Oct 03, 2016	Actual Island Peak Demand <sup>8</sup>	19:40	1,001 MW
Tue, Oct 04, 2016	Forecast Island Peak Demand		1,030 MW

Not 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).