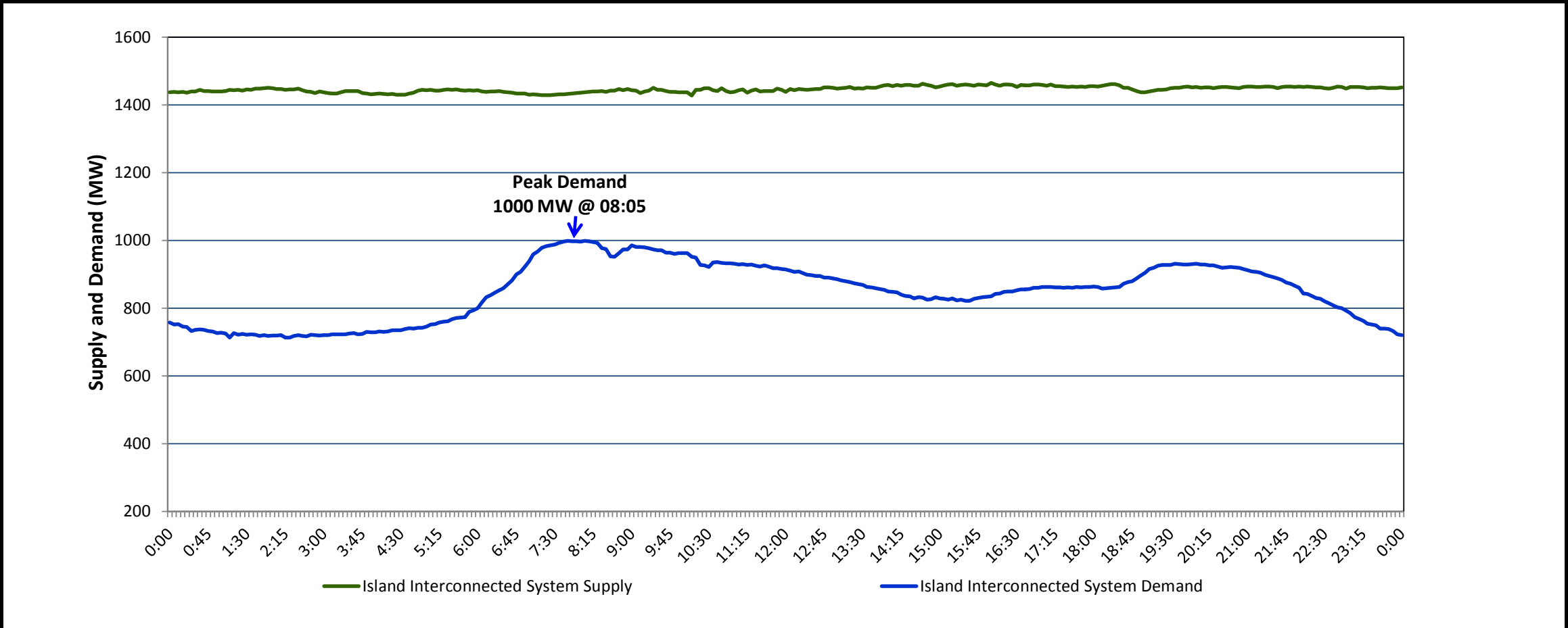


Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Wednesday, October 05, 2016

Section 1
Island Interconnected System Supply and Demand
Actual 24 Hour System Performance For Tuesday, October 04, 2016



- Supply Notes For October 04, 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 1154 hours, October 02, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).
- L

As of 0408 hours, October 03, 2016, Nalcor Exploits Grand Falls Unit 6 unavailable. Net impact to the Island Interconnected System is 4 MW.
- M

As of 1928 hours, October 03, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW).
- N

At 0803 hours, October 04, 2016, St. Anthony Diesel Plant units G1 (525) and G2 (523) unavailable (2 MW).
- O

At 0808 hours, October 04, 2016, Holyrood Diesels unit 6 available (2 MW). Net gain to the Island Interconnected System is 2 MW.
- P

At 0808 hours, October 04, 2016, Holyrood Diesels unit 5 remains unavailable (2 MW). No net impact to the Island Interconnected System.
- Q

At 1830 hours, October 04, 2016, Hawkes Bay Diesel Plant unavailable (5 MW).

Section 2
Island Interconnected Supply and Demand

Wed, Oct 05, 2016 Island System Outlook ³			Seven-Day Forecast		Temperature (°C)		Island System Daily Peak Demand (MW)
					Morning	Evening	
Available Island System Supply: ⁵	1,455	MW	Wednesday, October 05, 2016		9	12	925
NLH Generation: ⁴	1,160	MW	Thursday, October 06, 2016		11	12	885
NLH Power Purchases: ⁶	130	MW	Friday, October 07, 2016		12	14	835
Other Island Generation:	165	MW	Saturday, October 08, 2016		9	6	855
Current St. John's Temperature:	9	°C	Sunday, October 09, 2016		10	10	855
Current St. John's Windchill:	N/A	°C	Monday, October 10, 2016		11	8	975
7-Day Island Peak Demand Forecast:	1,030	MW	Tuesday, October 11, 2016		5	7	1,030

- Supply Notes For October 05, 2016³
- 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, Oct 04, 2016	Actual Island Peak Demand ⁸	08:05	1,000 MW
Wed, Oct 05, 2016	Forecast Island Peak Demand		925 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).