

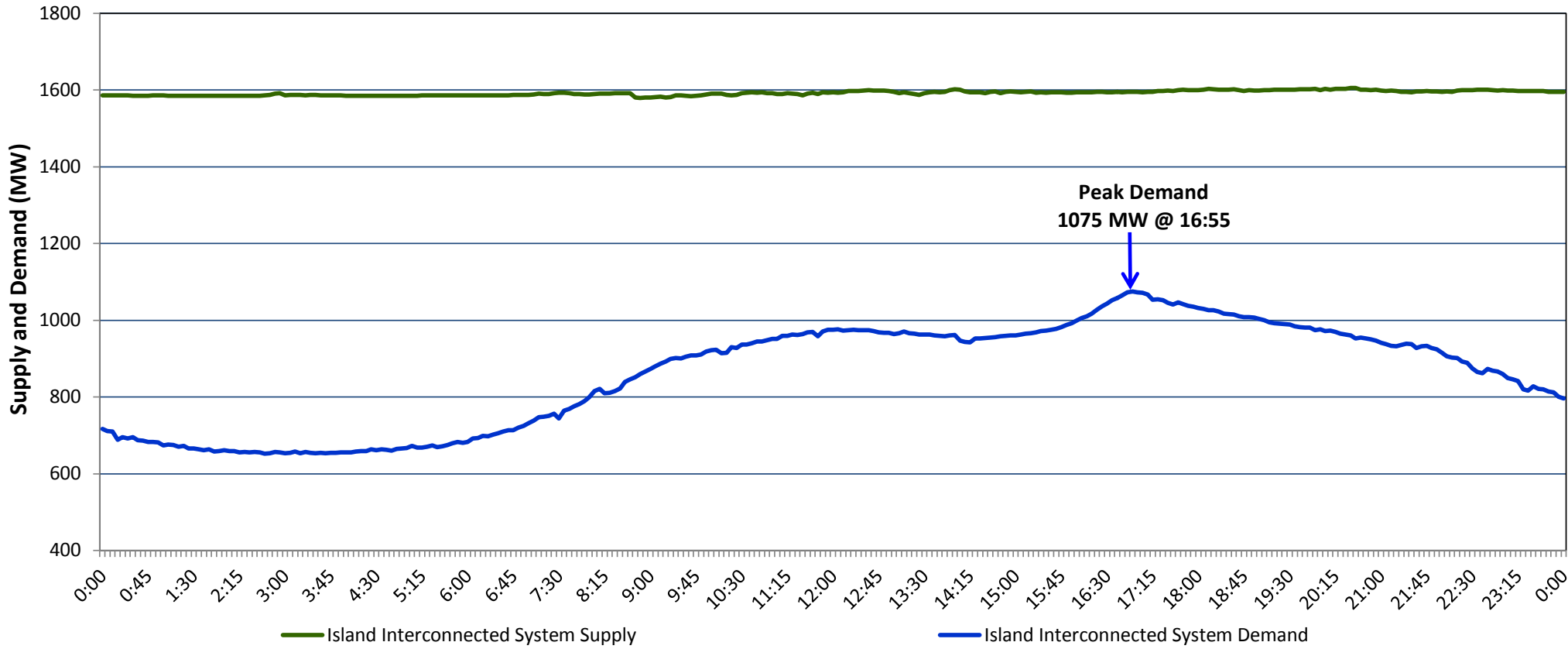
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Monday, November 21, 2016

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Saturday, November 19, 2016



Supply Notes For November 19, 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 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant unit 9 unavailable. No net impact to the Island Interconnected System.
- E

As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- F

As of 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- G

As of 2132 hours, October 10, 2016, Nalcor Exploits Bishop's Falls plant units 4,5,6 and 8 unavailable. Net impact to the Island Interconnected System is 9 MW.
- H

As of 1007 hours, November 04, 2016, Nalcor Exploits Bishop's Falls plant unit 2 unavailable. Net impact to the Island Interconnected System is 2 MW.
- I

As of 1245 hours, November 13, 2016, Star Lake Unit unavailable (18 MW).
- J

As of 1850 hours, November 16, 2016, Holyrood Unit 2 unavailable (170 MW).
- K

At 0842 hours, November 19, 2016, Hardwoods Gas Turbine End A unavailable. Previously derated to 19 MW (25 MW).

Section 2

Island Interconnected Supply and Demand

Sun, Nov 20, 2016		Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)	
				Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵		1,600 MW	Sunday, November 20, 2016	13	15	990	978
NLH Generation: ⁴		1,320 MW	Monday, November 21, 2016	10	12	1,005	993
NLH Power Purchases: ⁶		80 MW	Tuesday, November 22, 2016	7	5	1,010	998
Other Island Generation:		200 MW	Wednesday, November 23, 2016	9	3	1,245	1,230
Current St. John's Temperature:		9 °C	Thursday, November 24, 2016	9	11	1,345	1,329
Current St. John's Windchill:		N/A °C	Friday, November 25, 2016	10	10	1,235	1,221
7-Day Island Peak Demand Forecast:		1,350 MW	Saturday, November 26, 2016	4	5	1,350	1,334

Supply Notes For November 20, 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.
7.

Adjusted for CBP&P interruptible load and the impact of voltage reduction, when applicable.

Section 3

Island Peak Demand Information

Previous Day Actual Peak and Current Day Forecast Peak

Sat, Nov 19, 2016	Actual Island Peak Demand ⁸	16:55	1,075 MW
Sun, Nov 20, 2016	Forecast Island Peak Demand		990 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).