

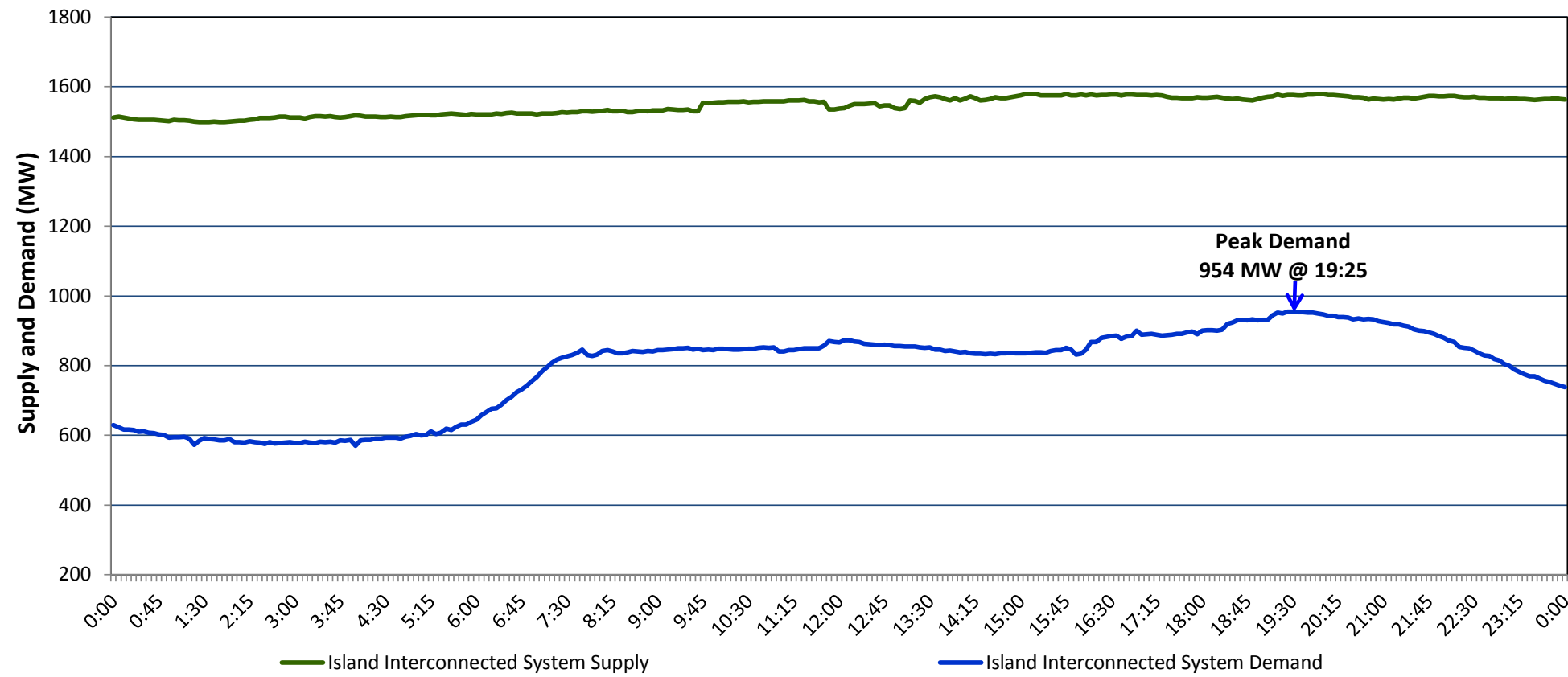
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Tuesday, October 25, 2016

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Monday, October 24, 2016



Supply Notes For October 24, 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 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 2132 hours, October 10, 2016, Nalcor Exploits Bishop's Falls plant units 1,2,3,4,5,6 and 8 unavailable. Net impact to the Island Interconnected System is 15 MW.
- K

As of 1706 hours, October 22, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW).
- L

At 1307 hours, October 24, 2016, Star Lake Unit available (18 MW).

Section 2

Island Interconnected Supply and Demand

Tue, Oct 25, 2016			Island System Outlook ³			Seven-Day Forecast		Temperature (°C)		Island System Daily Peak Demand (MW)	
								Morning	Evening	Forecast	
Available Island System Supply: ⁵			1,510	MW	Tuesday, October 25, 2016		10	6	1,035		
NLH Generation: ⁴			1,260	MW	Wednesday, October 26, 2016		5	4	1,090		
NLH Power Purchases: ⁶			95	MW	Thursday, October 27, 2016		5	2	1,160		
Other Island Generation:			155	MW	Friday, October 28, 2016		4	1	1,110		
Current St. John's Temperature:			8	°C	Saturday, October 29, 2016		4	5	1,130		
Current St. John's Windchill:			N/A	°C	Sunday, October 30, 2016		10	7	990		
7-Day Island Peak Demand Forecast:			1,160	MW	Monday, October 31, 2016		7	6	1,110		

Supply Notes For October 25, 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 24, 2016	Actual Island Peak Demand ⁸	19:25	954 MW
Tue, Oct 25, 2016	Forecast Island Peak Demand		1,035 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).