

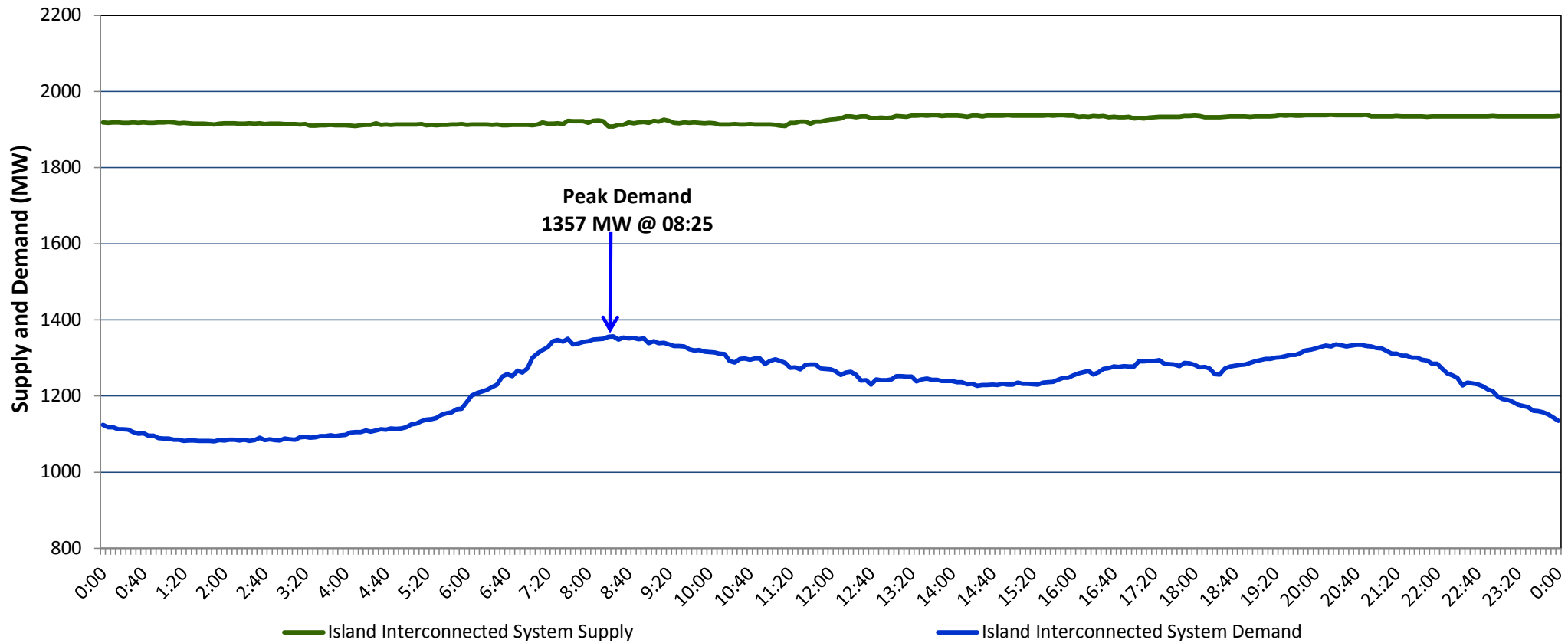
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Wednesday, April 05, 2017

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Tuesday, April 04, 2017



Supply Notes For April 04, 2017

- 1,2
- A

As of 0829 hours, March 31, 2017, Holyrood Unit 1 available at 135 MW (170 MW).
- B

As of 0829 hours, March 31, 2017, Holyrood Unit 2 available at 135 MW (170 MW).
- C

As of 0829 hours, March 31, 2017, Holyrood Unit 3 available at 135 MW (150 MW).
- D

As of 1526 hours, April 03, 2017, Stephenville Gas Turbine available at 25 MW (50 MW).

Section 2

Island Interconnected Supply and Demand

Wed, Apr 05, 2017 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	1,910	MW	Wednesday, April 05, 2017	-1	-2	1,430	1,430
NLH Generation: ⁴	1,570	MW	Thursday, April 06, 2017	-4	-3	1,395	1,395
NLH Power Purchases: ⁶	125	MW	Friday, April 07, 2017	-2	0	1,305	1,305
Other Island Generation:	215	MW	Saturday, April 08, 2017	6	7	1,055	1,055
Current St. John's Temperature:	-2	°C	Sunday, April 09, 2017	6	3	1,090	1,090
Current St. John's Windchill:	-10	°C	Monday, April 10, 2017	1	4	1,190	1,190
7-Day Island Peak Demand Forecast:	1,430	MW	Tuesday, April 11, 2017	3	3	1,115	1,115

Supply Notes For April 05, 2017

- 3
- E

At 0651 hours, April 05, 2017, Paradise River Unit unavailable (8 MW).
- F

At 0720 hours, April 05, 2017, Holyrood Unit 2 available at 130 MW (170 MW).

- 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, Praxair and Vale interruptible load as well as the impact of voltage reduction, when applicable.

Section 3

Island Peak Demand Information

Previous Day Actual Peak and Current Day Forecast Peak

Tue, Apr 04, 2017	Actual Island Peak Demand ⁸	08:25	1,357 MW
Wed, Apr 05, 2017	Forecast Island Peak Demand		1,430 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).