

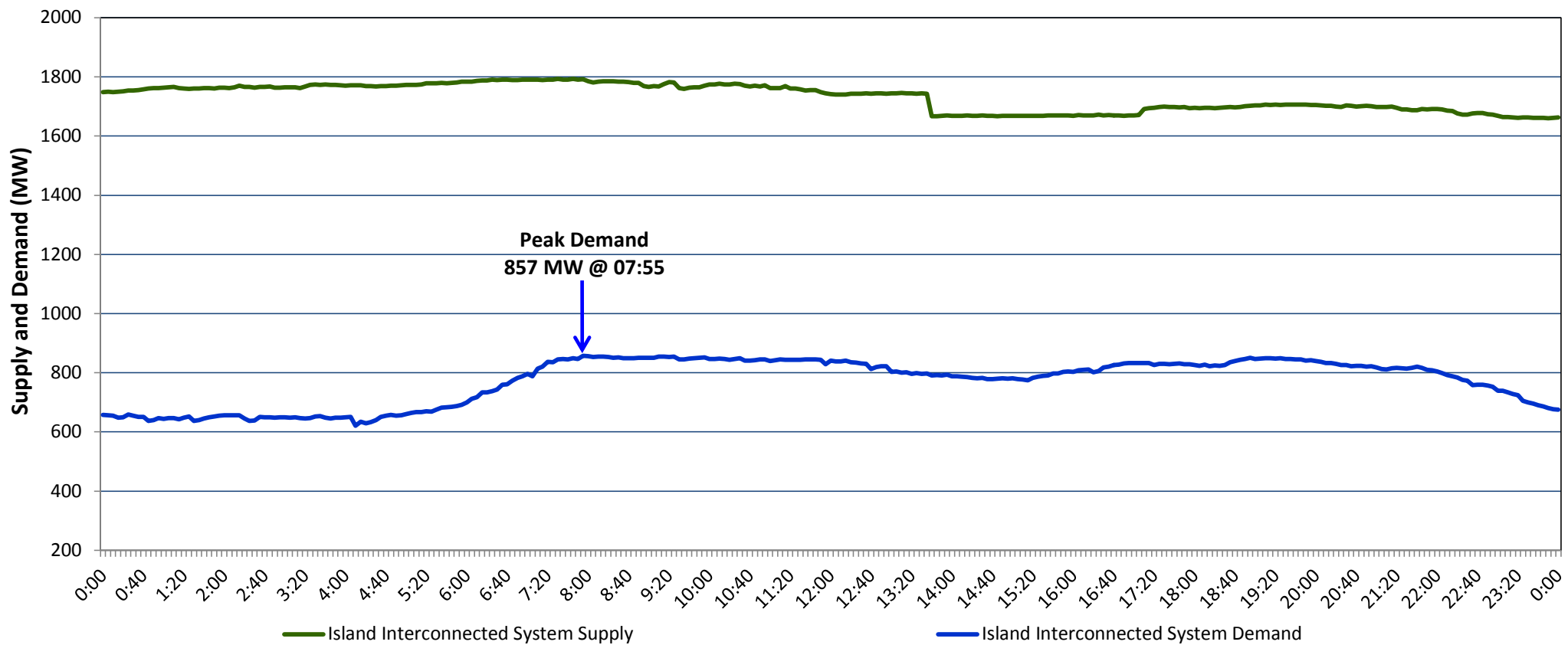
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Tuesday, October 17, 2017

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Monday, October 16, 2017



Supply Notes For October 16, 2017

1,2

AAs of 0827 hours, July 31, 2017, Holyrood Unit 2 unavailable due to planned outage 165 MW (170 MW).

BAs of 1229 hours, September 22, 2017, Stephenville Gas Turbine available at 25 MW (50 MW).

CAs of 1211 hours, October 01, 2017, Cat Arm Unit 2 unavailable due to planned outage (67 MW).

DAt 1337 hours, October 16, 2017, Bay d'Espoir Unit 3 unavailable due to planned outage (76.5 MW).

Section 2

Island Interconnected Supply and Demand

Tue, Oct 17, 2017	Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW)
			Morning	Evening	
Available Island System Supply: ⁵	1,660 MW	Tuesday, October 17, 2017	6	5	985
NLH Generation: ⁴	1,355 MW	Wednesday, October 18, 2017	4	5	1,050
NLH Power Purchases: ⁶	110 MW	Thursday, October 19, 2017	6	8	1,030
Other Island Generation:	195 MW	Friday, October 20, 2017	10	10	960
Current St. John's Temperature:	4 °C	Saturday, October 21, 2017	5	5	1,075
Current St. John's Windchill:	N/A °C	Sunday, October 22, 2017	4	4	1,080
7-Day Island Peak Demand Forecast:	1,080 MW	Monday, October 23, 2017	8	12	940

Supply Notes For October 17, 2017

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 16, 2017	Actual Island Peak Demand ⁸	07:55	857 MW
Tue, Oct 17, 2017	Forecast Island Peak Demand		985 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).