

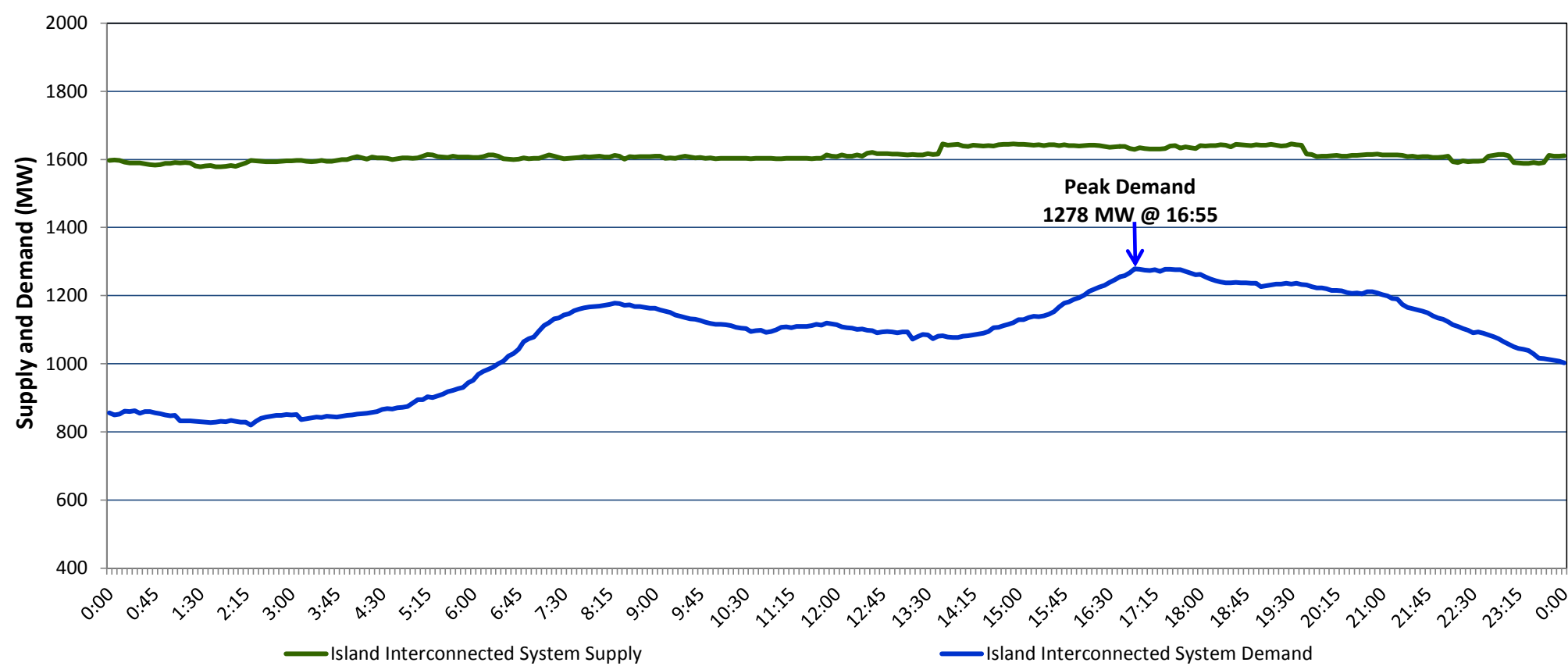
Newfoundland Labrador Hydro (NLH)

Supply and Demand Status Report Filed Wednesday, November 22, 2017

Section 1

Island Interconnected System Supply and Demand

Actual 24 Hour System Performance For Tuesday, November 21, 2017



Supply Notes For November 21, 2017

- 1,2
- A

As of 1510 hours, November 04, 2017, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- B

As of 1510 hours, November 04, 2017, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- C

As of 0012 hours, November 16, 2017, Holyrood Unit 1 available at 145 MW (170 MW).
- D

As of 2115 hours, November 20, 2017, Holyrood Unit 2 unavailable due to planned outage 150 MW (170 MW).
- E

At 1341 hours, November 21, 2017, Hardwoods Gas Turbine available at full capacity (50 MW).
- F

At 1930 hours, November 21, 2017, Stephenville Gas Turbine unavailable 25 MW (50 MW).

Section 2

Island Interconnected Supply and Demand

Wed, Nov 22, 2017			Island System Outlook <sup>3</sup>		Seven-Day Forecast		Temperature (°C)		Island System Daily Peak Demand (MW)	
							Morning	Evening	Forecast	Adjusted <sup>7</sup>
Available Island System Supply: <sup>5</sup>			1,580	MW	Wednesday, November 22, 2017		-1	0	1,295	1,200
NLH Generation: <sup>4</sup>			1,320	MW	Thursday, November 23, 2017		3	7	1,210	1,116
NLH Power Purchases: <sup>6</sup>			80	MW	Friday, November 24, 2017		2	2	1,230	1,136
Other Island Generation:			180	MW	Saturday, November 25, 2017		-2	2	1,295	1,200
Current St. John's Temperature:			-2	°C	Sunday, November 26, 2017		5	5	1,160	1,066
Current St. John's Windchill:			-8	°C	Monday, November 27, 2017		7	5	1,280	1,185
7-Day Island Peak Demand Forecast:			1,375	MW	Tuesday, November 28, 2017		3	-1	1,375	1,279

Supply Notes For November 22, 2017

- 3
- G

At 0650 hours, November 22, 2017, Stephenville Gas Turbine available at 25 MW (50 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 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

Tue, Nov 21, 2017	Actual Island Peak Demand <sup>8</sup>	16:55	1,278 MW
Wed, Nov 22, 2017	Forecast Island Peak Demand		1,295 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).