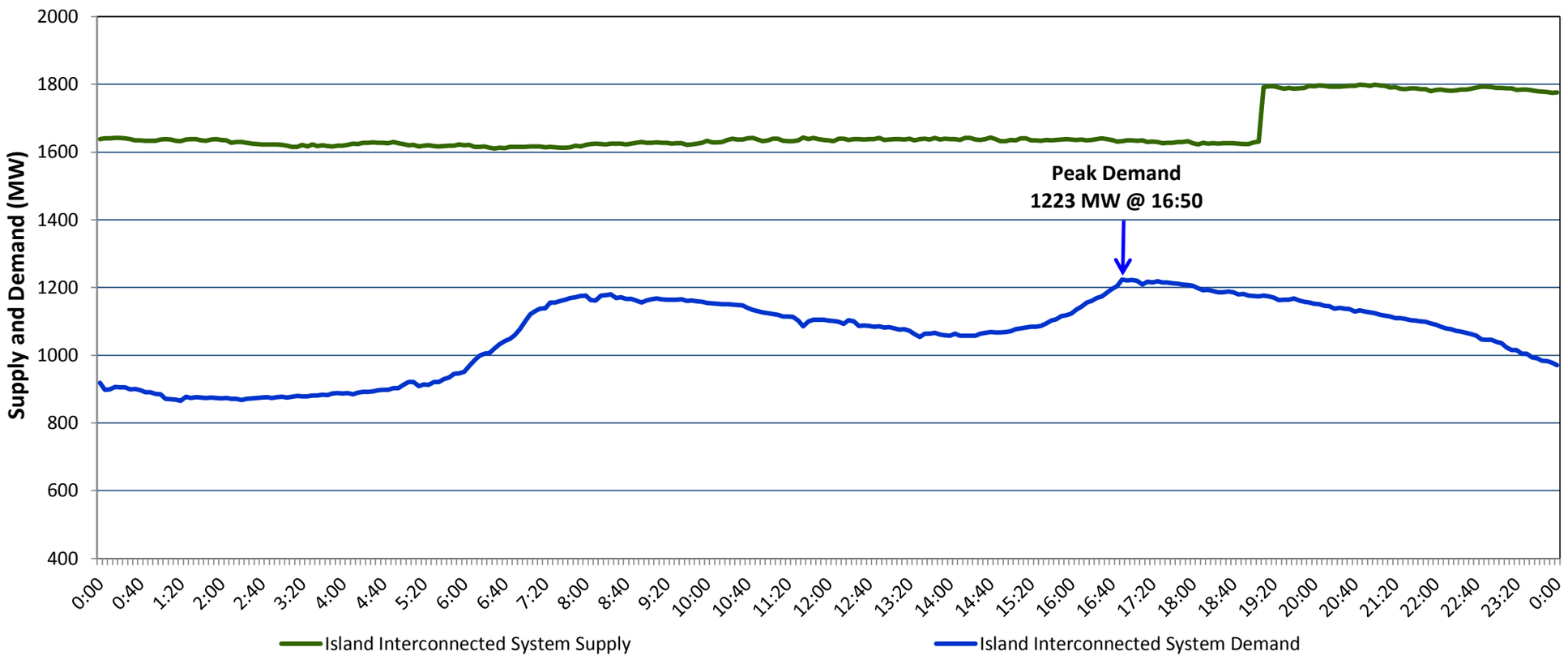
# Newfoundland Labrador Hydro (NLH)
# Supply and Demand Status Report Filed Monday, November 27, 2017

## Section 1
## Island Interconnected System Supply and Demand
## Actual 24 Hour System Performance For Friday, November 24, 2017




**Supply Notes For November 24, 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 0650 hours, November 22, 2017, Stephenville Gas Turbine available at 25 MW (50 MW). |
| E | At 1908 hours, November 24, 2017, Holyrood Unit 2 available at 160 MW (170 MW). |

## Section 2
## Island Interconnected Supply and Demand

| Sat, Nov 25, 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] | **1,665** | **MW** | Saturday, November 25, 2017 | -2 | 3 | **1,255** | **1,160** |
| NLH Generation:[4] | 1,405 | MW | Sunday, November 26, 2017 | 4 | 9 | 1,255 | 1,160 |
| NLH Power Purchases:[6] | 70 | MW | Monday, November 27, 2017 | 7 | 2 | 1,300 | 1,205 |
| Other Island Generation: | 190 | MW | Tuesday, November 28, 2017 | 0 | -3 | 1,390 | 1,294 |
| Current St. John's Temperature: | -2 | °C | Wednesday, November 29, 2017 | -5 | 2 | 1,385 | 1,289 |
| Current St. John's Windchill: | -9 | °C | Thursday, November 30, 2017 | -1 | -1 | 1,400 | 1,304 |
| 7-Day Island Peak Demand Forecast: | **1,400** | MW | Friday, December 01, 2017 | -1 | 3 | 1,265 | 1,170 |

**Supply Notes For November 25, 2017** [3]

| | |
|---|---|
| F | At 0040 hours, November 25, 2017, Bay d'Espoir Unit 3 unavailable due to planned outage (76.5 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

| | | | | |
|---|---|---|---|---|
| Fri, Nov 24, 2017 | Actual Island Peak Demand[8] | 16:50 | 1,223 | MW |
| Sat, Nov 25, 2017 | Forecast Island Peak Demand | | 1,255 | 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).