

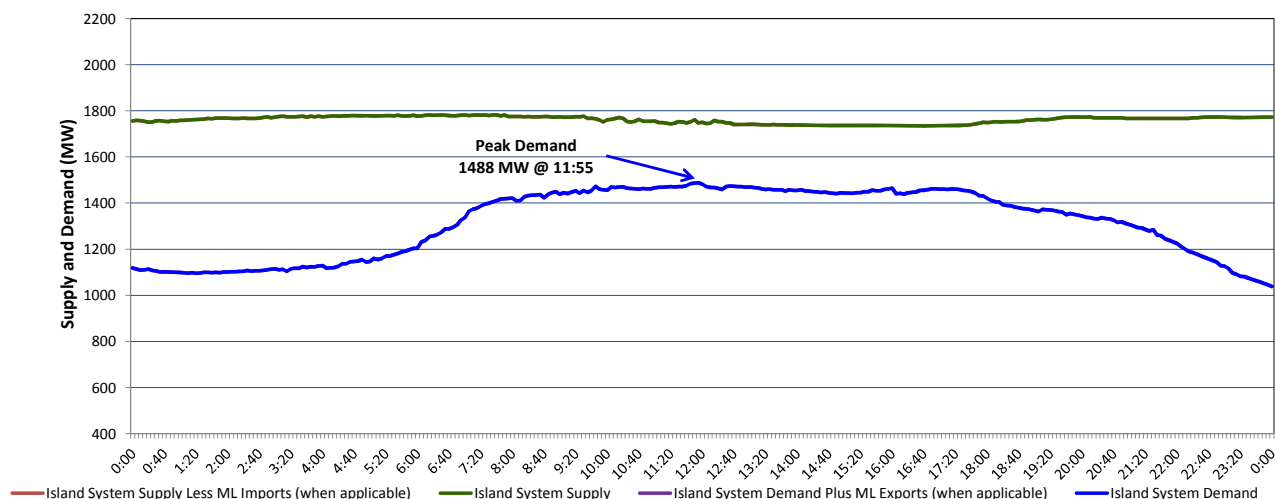
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Wednesday, January 31, 2018

### Section 1

#### Island Interconnected System Supply, Demand & Exports

#### Actual 24 Hour System Performance For Tuesday, January 30, 2018



#### Supply Notes For January 30, 2018

- A As of 2115 hours, January 04, 2018, Stephenville Gas Turbine available at 25 MW (50 MW).
- B As of 1916 hours, January 20, 2018, Holyrood Unit 1 unavailable 140 MW (170 MW).
- C As of 0752 hours, January 22, 2018, Holyrood Unit 2 available at 136 MW (170 MW).
- D As of 1144 hours, January 22, 2018, Holyrood Unit 3 available at 115 MW (150 MW).
- E As of 0855 hours, January 23, 2018, St. Anthony Diesel Plant available at 8.85 MW due to planned outage (9.7 MW).

### Section 2

#### Island Interconnected Supply and Demand

| Wed, Jan 31, 2018                             | 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>  | 1,765                              | MW | Wednesday, January 31, 2018 | 6                | -5      | 1,495                                | 1,387                 |
| NLH Generation: <sup>4</sup>                  | 1,430                              | MW | Thursday, February 01, 2018 | -5               | -2      | 1,495                                | 1,387                 |
| NLH Power Purchases: <sup>6</sup>             | 120                                | MW | Friday, February 02, 2018   | 4                | 6       | 1,350                                | 1,243                 |
| Maritime Link Imports:                        | -                                  | MW | Saturday, February 03, 2018 | 4                | -8      | 1,600                                | 1,490                 |
| Other Island Generation:                      | 215                                | MW | Sunday, February 04, 2018   | -7               | -1      | 1,525                                | 1,416                 |
| Current St. John's Temperature & Windchill: 8 | N/A                                | °C | Monday, February 05, 2018   | -7               | -1      | 1,555                                | 1,446                 |
| 7-Day Island Peak Demand Forecast:            | 1,600                              | MW | Tuesday, February 06, 2018  | 11               | 0       | 1,355                                | 1,248                 |

#### Supply Notes For January 31, 2018

- Notes:
- 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.
  - Due to the Island System having no synchronous connections to 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.
  - As of 0800 Hours.
  - Gross output including station service at Holyrood (24.5 MW) and improved NLH hydraulic output due to water levels (35 MW).
  - Gross output from all Island sources (including Note 4).
  - NLH Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation, Vale capacity assistance (when applicable).
  - Adjusted for CBP&P, Vale and Praxair interruptible load, Maritime Link Exports and the impact of voltage reduction (when applicable).

### Section 3

#### Island Peak Demand Information

#### Previous Day Actual Peak and Current Day Forecast Peak

|                   |  |       |          |
|-------------------|--|-------|----------|
| Tue, Jan 30, 2018 | Actual Island Peak Demand <sup>8</sup> | 11:55 | 1,488 MW |
| Wed, Jan 31, 2018 | Forecast Island Peak Demand            |       | 1,495 MW |

- Notes: 8. Island Demand / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).