

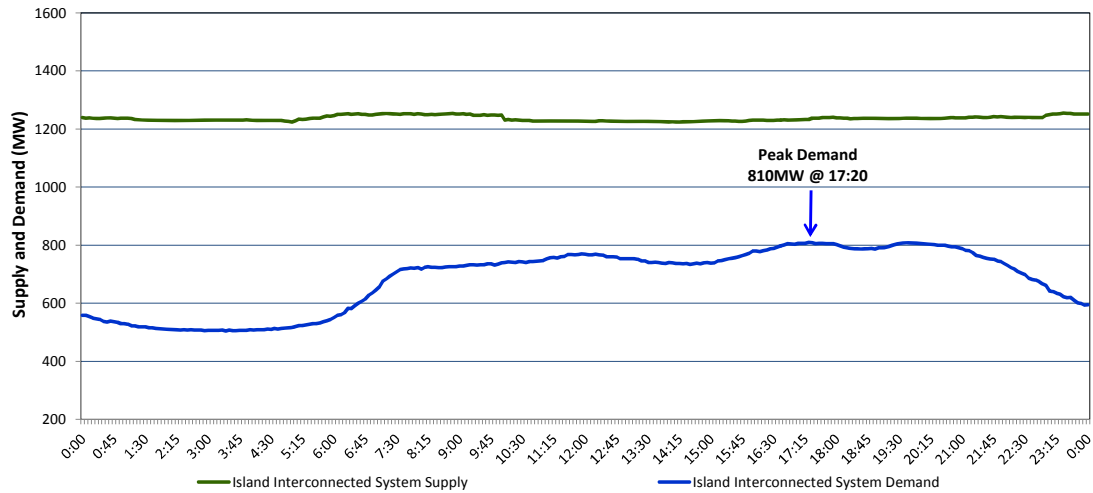
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Tuesday, September 15, 2015

### Section 1

#### Island Interconnected System Supply and Demand

#### Actual 24 Hour System Performance For Monday, September 14, 2015



#### Supply Notes For September 14, 2015

- A As of 1440 hours, June 06, 2015, Holyrood Unit 2 removed from service for annual maintenance (170 MW).
- B As of 1450 hours, June 24, 2015, Hawke's Bay Unit 548 (G2) unavailable (2.5 MW).
- C As of 0949 hours, August 01, 2015, Holyrood Unit 1 removed from service for annual maintenance (170 MW).
- D As of 1330 hours, August 19, 2015, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- E As of 1042 hours, August 31, 2015, Stephenville Gas Turbine unavailable. Previously derated to 30 MW (50 MW).
- F As of 0808 hours, September 08, 2015, Cat Arm Unit 2 unavailable (67 MW).
- G As of 0904 hours, September 12, 2015, Holyrood Unit 3 available. Derated to 70 MW (150 MW).
- H As of 1212 hours, September 13, 2015, Hardwoods Gas Turbine available. Derated to 38 MW (50 MW). End A 20 MW, End B 19 MW.
- I As of 1323 hours, September 13, 2015, Bay d'Espoir Unit 1 unavailable. Previously derated to 45 MW (76.5 MW).
- J As of 1630 hours, September 13, 2015, Paradise River Unit unavailable (8 MW).

### Section 2

#### Island Interconnected System Supply and Demand

| Tue, Sep 15, 2015      Island System Outlook <sup>3</sup> |          | Seven-Day Forecast            | Temperature (°C) |         | Island System Daily Peak Demand (MW) |
|---|----------|-------------------------------|------------------|---------|--------------------------------------|
|   |          |                               | Morning          | Evening |                                      |
| Available Island System Supply: <sup>5</sup>              | 1,250 MW | Tuesday, September 15, 2015   | 16               | 17      | 810                                  |
| NLH Generation: <sup>4</sup>                              | 980 MW   | Wednesday, September 16, 2015 | 11               | 10      | 905                                  |
| NLH Power Purchases:                                      | 80 MW    | Thursday, September 17, 2015  | 9                | 12      | 835                                  |
| Other Island Generation:                                  | 190 MW   | Friday, September 18, 2015    | 16               | 8       | 785                                  |
| Current St. John's Temperature:                           | 14 °C    | Saturday, September 19, 2015  | 12               | 19      | 755                                  |
| Current St. John's Windchill:                             | N/A °C   | Sunday, September 20, 2015    | 18               | 18      | 730                                  |
| 7-Day Island Peak Demand Forecast:                        | 905 MW   | Monday, September 21, 2015    | 17               | 18      | 805                                  |

#### Supply Notes For September 15, 2015

- 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 underfrequency load shedding, is necessary to ensure the integrity and reliability of system equipment. Underfrequency 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).

### Section 3

#### Island Peak Demand Information

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

|                   |  |       |        |
|-------------------|--|-------|--------|
| Mon, Sep 14, 2015 | Actual Island Peak Demand <sup>7</sup> | 17:20 | 810 MW |
| Tue, Sep 15, 2015 | Forecast Island Peak Demand            |       | 810 MW |

Notes: 7. 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).