

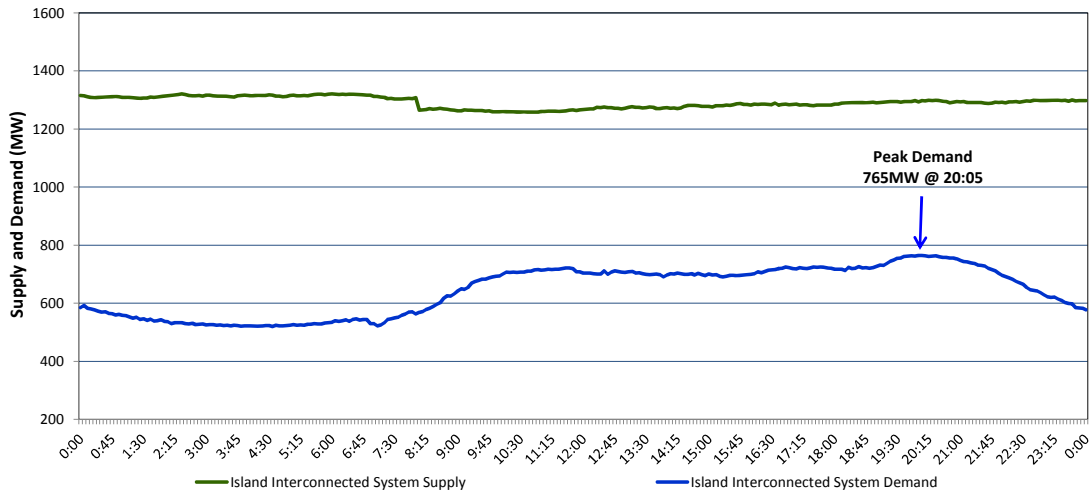
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Monday, September 21, 2015

### Section 1

#### Island Interconnected System Supply and Demand

#### Actual 24 Hour System Performance For Sunday, September 20, 2015



#### Supply Notes For September 20, 2015

- 1,2
- 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 1630 hours, September 13, 2015, Paradise River Unit unavailable (8 MW).
- J** At of 0803 hours, September 20, 2015, Bay d'Espoir Unit 1 unavailable. Previously derated to 40 MW (76.5 MW).

### Section 2

#### Island Interconnected System Supply and Demand

| Mon, Sep 21, 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> | 1,290 MW                           | Monday, September 21, 2015    | 17               | 9       | 795                                  |
| NLH Generation: <sup>4</sup>                 | 980 MW                             | Tuesday, September 22, 2015   | 10               | 10      | 760                                  |
| NLH Power Purchases:                         | 115 MW                             | Wednesday, September 23, 2015 | 11               | 13      | 765                                  |
| Other Island Generation:                     | 195 MW                             | Thursday, September 24, 2015  | 12               | 11      | 790                                  |
| Current St. John's Temperature:              | 18 °C                              | Friday, September 25, 2015    | 9                | 9       | 875                                  |
| Current St. John's Windchill:                | N/A °C                             | Saturday, September 26, 2015  | 7                | 6       | 910                                  |
| 7-Day Island Peak Demand Forecast:           | 1,045 MW                           | Sunday, September 27, 2015    | 4                | 3       | 1,045                                |

#### Supply Notes For September 21, 2015

- 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 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

|                   |                                        |       |        |
|-------------------|----------------------------------------|-------|--------|
| Sun, Sep 20, 2015 | Actual Island Peak Demand <sup>7</sup> | 20:05 | 765 MW |
| Mon, Sep 21, 2015 | Forecast Island Peak Demand            |       | 795 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).