

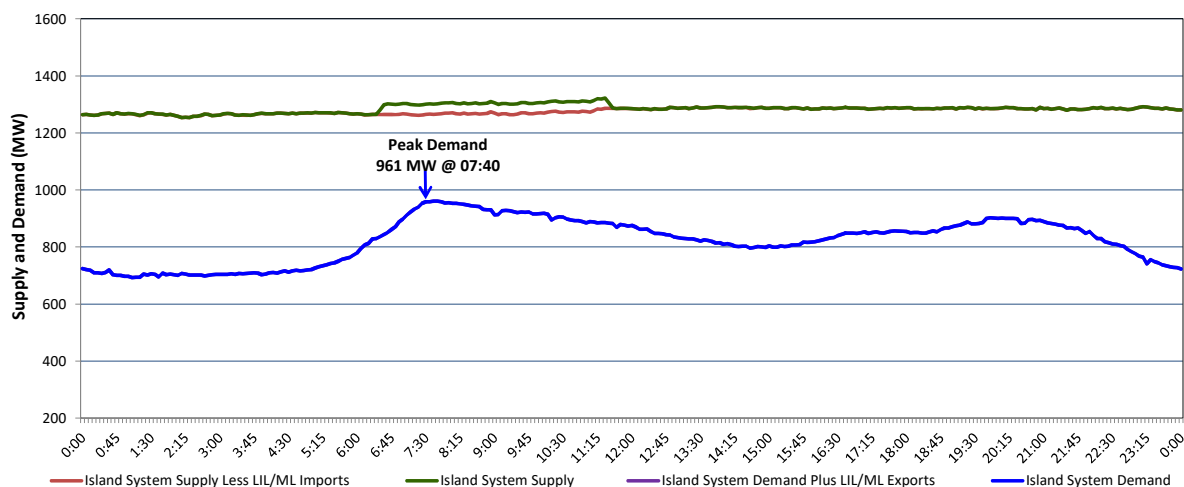
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Thursday, September 20, 2018

### Section 1

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

#### Actual 24 Hour System Performance For Wednesday, September 19, 2018



#### Supply Notes For September 19, 2018

- A** As of 0801 hours, July 19, 2018, Holyrood Unit 3 removed from service for economic dispatch 110 MW (150 MW).  
**B** As of 1000 hours, July 27, 2018, Holyrood Unit 1 unavailable due to planned outage 88 MW (170 MW).  
**C** As of 1609 hours, August 07, 2018, Stephenville Gas Turbine available at 25 MW (50 MW).  
**D** As of 1118 hours, August 21, 2018, Holyrood Gas Turbine unavailable due to planned outage (123.5 MW).  
**E** As of 1034 hours, September 17, 2018, Bay d'Espoir Unit 4 unavailable due to planned outage (76.5 MW).  
**F** As of 1255 hours, September 18, 2018, Holyrood Unit 2 unavailable 70 MW (170 MW).

### Section 2

#### Island Interconnected Supply and Demand

| Thu, Sep 20, 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>     | 1,330 MW                           | Thursday, September 20, 2018  | 8                | 7       | 940                                  | 940                   |
| NLH Island Generation: <sup>4</sup>              | 1,050 MW                           | Friday, September 21, 2018    | 7                | 6       | 935                                  | 935                   |
| NLH Island Power Purchases: <sup>6</sup>         | 115 MW                             | Saturday, September 22, 2018  | 9                | 15      | 900                                  | 900                   |
| Other Island Generation:                         | 165 MW                             | Sunday, September 23, 2018    | 9                | 10      | 845                                  | 845                   |
| ML/LIL Imports:                                  | - MW                               | Monday, September 24, 2018    | 9                | 5       | 940                                  | 940                   |
| Current St. John's Temperature & Windchill: 6 °C | N/A °C                             | Tuesday, September 25, 2018   | 8                | 8       | 940                                  | 940                   |
| 7-Day Island Peak Demand Forecast:               | 940 MW                             | Wednesday, September 26, 2018 | 11               | 16      | 885                                  | 885                   |

#### Supply Notes For September 20, 2018

- G** At 0306 hours, September 20, 2018, Holyrood Unit 2 available at 70 MW (170 MW).

- 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 Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation, Vale capacity assistance (when applicable).
  - Adjusted for CBPP, Vale and Praxair interruptible load, Maritime Link and Labrador-Island 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

|                   |  |      |        |
|-------------------|--|------|--------|
| Wed, Sep 19, 2018 | Actual Island Peak Demand <sup>8</sup> | 7:40 | 961 MW |
| Thu, Sep 20, 2018 | Forecast Island Peak Demand            |      | 940 MW |

- Notes: 8. Island Demand / LIL / 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).