

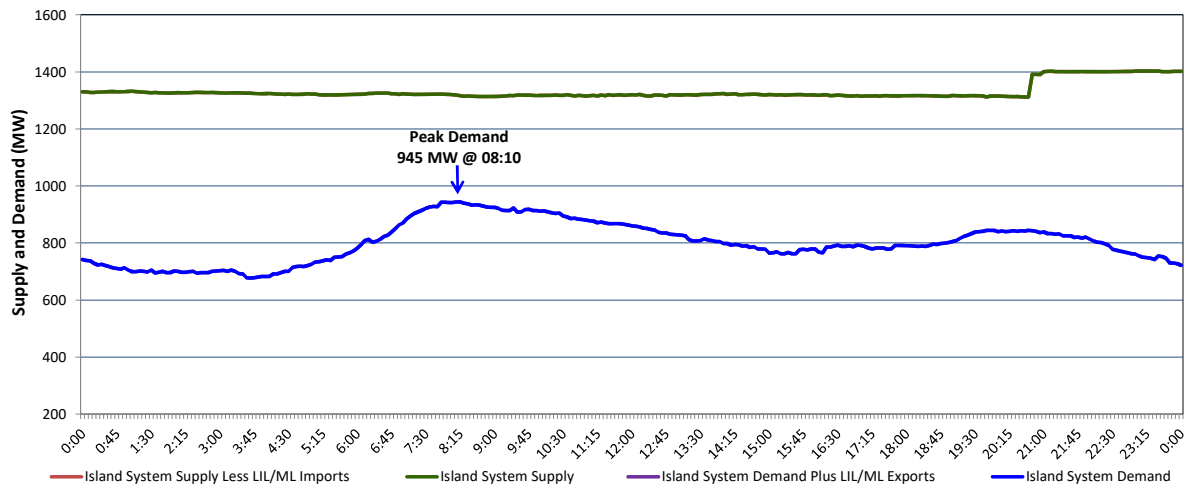
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Monday, September 24, 2018

### Section 1

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

#### Actual 24 Hour System Performance For Friday, September 21, 2018



#### Supply Notes For September 21, 2018

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- 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** At 2042 hours, September 21, 2018, Holyrood Unit 2 available at 140 MW (170 MW).

### Section 2

#### Island Interconnected Supply and Demand

Sat, Sep 22, 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>			1,405	MW	Saturday, September 22, 2018		7	8	875	875
NLH Island Generation: <sup>4</sup>			1,120	MW	Sunday, September 23, 2018		8	12	875	875
NLH Island Power Purchases: <sup>6</sup>			125	MW	Monday, September 24, 2018		7	6	990	990
Other Island Generation:			160	MW	Tuesday, September 25, 2018		7	5	990	990
ML/LIL Imports:			-	MW	Wednesday, September 26, 2018		7	10	915	915
Current St. John's Temperature & Windchill:			6	N/A °C	Thursday, September 27, 2018		13	12	905	905
7-Day Island Peak Demand Forecast:			1,140	MW	Friday, September 28, 2018		12	14	1,140	1,140

#### Supply Notes For September 22, 2018

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- 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 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.
  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 Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation, Vale capacity assistance (when applicable).
  7. 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

Fri, Sep 21, 2018	Actual Island Peak Demand <sup>8</sup>	8:10	945 MW
Sat, Sep 22, 2018	Forecast Island Peak Demand		875 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).