

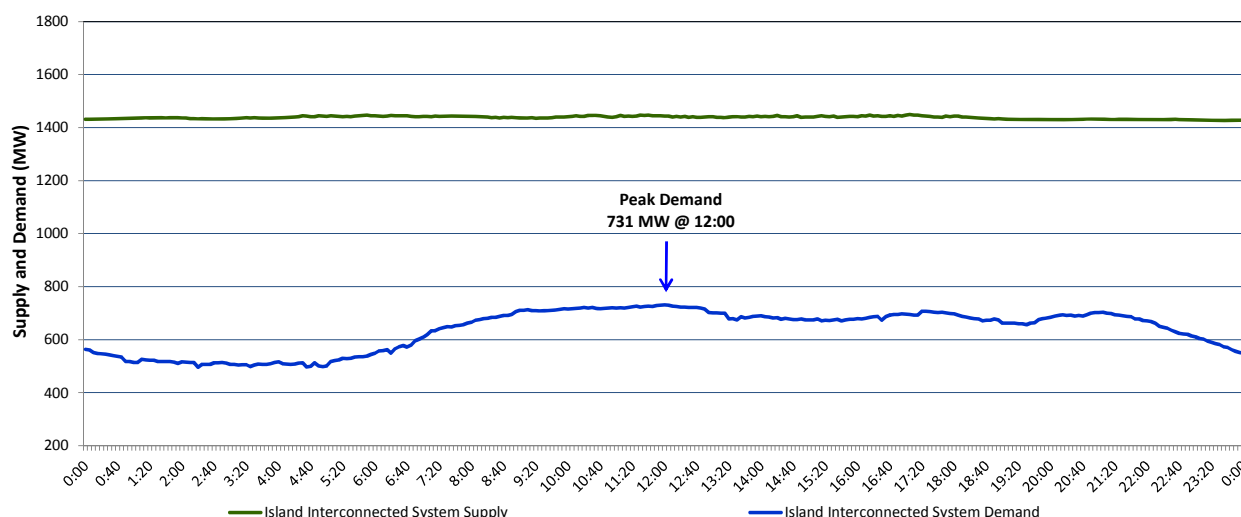
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Thursday, August 31, 2017

### Section 1

#### Island Interconnected System Supply and Demand

#### Actual 24 Hour System Performance For Wednesday, August 30, 2017



#### Supply Notes For August 30, 2017

- A** As of 1858 hours, June 22, 2017, Stephenville Gas Turbine available at 25 MW (50 MW).  
**B** As of 0938 hours, June 23, 2017, Holyrood Unit 1 unavailable due to planned outage 120 MW (170 MW).  
**C** As of 0827 hours, July 31, 2017, Holyrood Unit 2 unavailable due to planned outage 165 MW (170 MW).  
**D** As of 0828 hours, August 27, 2017, Bay d'Espoir Unit 7 unavailable due to planned outage (154.4 MW).  
**E** As of 0927 hours, August 28, 2017, Hardwoods Gas Turbine unavailable due to a planned outage 25 MW (50 MW).

### Section 2

#### Island Interconnected Supply and Demand

Thu, Aug 31, 2017			Island System Outlook <sup>3</sup>		Seven-Day Forecast		Temperature (°C)		Island System Daily Peak Demand (MW)	
							Morning	Evening	Forecast	
Available Island System Supply: <sup>5</sup>			1,425	MW	Thursday, August 31, 2017		13	11	780	
NLH Generation: <sup>4</sup>			1,125	MW	Friday, September 01, 2017		12	16	800	
NLH Power Purchases: <sup>6</sup>			110	MW	Saturday, September 02, 2017		13	10	840	
Other Island Generation:			190	MW	Sunday, September 03, 2017		12	14	795	
Current St. John's Temperature:			11	°C	Monday, September 04, 2017		13	15	840	
Current St. John's Windchill:			N/A	°C	Tuesday, September 05, 2017		16	16	815	
7-Day Island Peak Demand Forecast:			840	MW	Wednesday, September 06, 2017		19	20	795	

#### Supply Notes For August 31, 2017

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

### Section 3

#### Island Peak Demand Information

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

Wed, Aug 30, 2017	Actual Island Peak Demand <sup>8</sup>	12:00	731 MW
Thu, Aug 31, 2017	Forecast Island Peak Demand		780 MW

- Notes:** 8. 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).