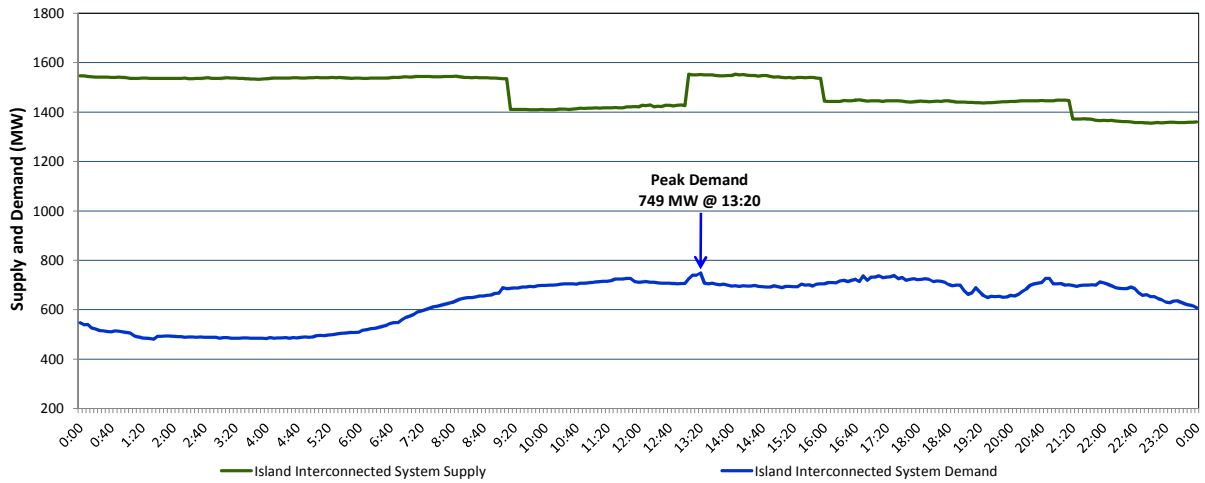


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Wednesday, August 23, 2017

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Tuesday, August 22, 2017



#### Supply Notes For August 22, 2017

- 1,2
- 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 1250 hours, August 06, 2017, Upper Salmon Unit unavailable due to planned outage (84 MW).
  - E As of 1333 hours, August 17, 2017, Hardwoods Gas Turbine available at 25 MW (50 MW).
  - F At 0914 hours, August 22, 2017, Holyrood Combustion Turbine unavailable due to planned outage (123.5 MW).
  - G At 1301 hours, August 22, 2017, Holyrood Combustion Turbine available (123.5 MW).
  - H At 1600 hours, August 22, 2017, Holyrood Unit 3 available at 50 MW (150 MW).
  - I At 2106 hours, August 22, 2017, Bay d'Espoir Unit 6 unavailable due to planned outage (76.5 MW).

### Section 2 Island Interconnected System Supply and Demand

Wed, Aug 23, 2017	Island System Outlook <sup>3</sup>	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW) Forecast
			Morning	Evening	
Available Island System Supply: <sup>5</sup>	1,325 MW	Wednesday, August 23, 2017	18	19	805
NLH Generation: <sup>4</sup>	1,040 MW	Thursday, August 24, 2017	21	20	800
NLH Power Purchases: <sup>6</sup>	100 MW	Friday, August 25, 2017	21	19	790
Other Island Generation:	185 MW	Saturday, August 26, 2017	17	11	800
Current St. John's Temperature:	16 °C	Sunday, August 27, 2017	11	12	795
Current St. John's Windchill:	N/A °C	Monday, August 28, 2017	13	14	810
7-Day Island Peak Demand Forecast:	815 MW	Tuesday, August 29, 2017	14	12	815

#### Supply Notes For August 23, 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

Tue, Aug 22, 2017	Actual Island Peak Demand <sup>8</sup>	13:20	749 MW
Wed, Aug 23, 2017	Forecast Island Peak Demand		805 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).