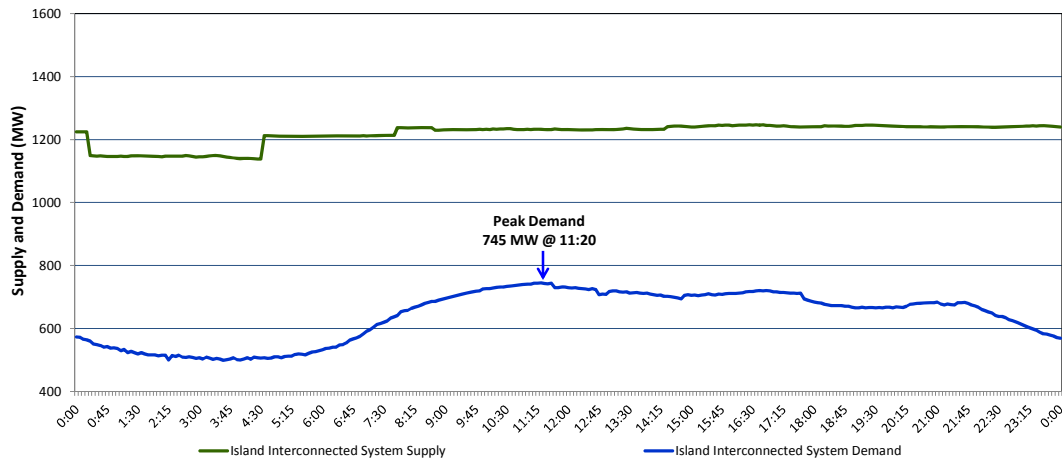


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Monday, August 22, 2016

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Friday, August 19, 2016



#### Supply Notes For August 19, 2016

- A As of 1956 hours, January 14, 2016, Nalcor Exploits Grand Falls Unit 7 unavailable. No net impact to the Island Interconnected System.
- B As of 1526 hours, March 26, 2016, Stephenville Gas Turbine End A unavailable (25 MW).
- C As of 0822 hours, June 05, 2016, Bay d'Espoir Unit 4 unavailable (76.5 MW).
- D As of 1425 hours, June 16, 2016, Holyrood Unit 2 unavailable. Previously derated to 120 MW (170 MW).
- E As of 0833 hours, June 30, 2016, Bay d'Espoir Unit 7 unavailable (154.4 MW).
- F As of 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
- G As of 1610 hours, July 16, 2016, Holyrood Unit 1 derated to 120 MW (170 MW).
- H As of 1125 hours, July 18, 2016, Hardwoods Turbine unavailable. Previously derated to 38 MW (50 MW).
- I As of 1436 hours, August 14, 2016, Granite Canal Unit unavailable (40 MW).
- J As of 1811 hours, August 17, 2016, Holyrood Unit 3 was removed from service for economic dispatch. Unit previously derated to 135 MW (150 MW).
- K At 0017 hours, August 19, 2016, Hinds Lake Unit unavailable (75 MW).
- L At 0433 hours, August 19, 2016, Hinds Lake Unit available (75 MW).
- M At 0749 hours, August 19, 2016, Stephenville Gas Turbine End B available (25 MW).
- N At 0847 hours, August 19, 2016, St. Anthony Diesel Plant Units G1 to G5, G7 and G8 unavailable (7.7 MW).
- O At 1423 hours, August 19, 2016, St. Anthony Diesel Plant Units G1 to G5, G7 and G8 available (7.7 MW).
- P At 1813 hours, August 19, 2016, St. Anthony Diesel Plant G6 (unit 544) available (2 MW).

### Section 2 Island Interconnected Supply and Demand

Sat, Aug 20, 2016	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>2</sup>	1,240 MW	Saturday, August 20, 2016	12	11	745
NLH Generation: <sup>4</sup>	975 MW	Sunday, August 21, 2016	15	17	755
NLH Power Purchases: <sup>6</sup>	90 MW	Monday, August 22, 2016	17	20	800
Other Island Generation:	175 MW	Tuesday, August 23, 2016	20	18	790
Current St. John's Temperature:	11 °C	Wednesday, August 24, 2016	17	17	780
Current St. John's Windchill:	N/A °C	Thursday, August 25, 2016	18	16	780
7-Day Island Peak Demand Forecast:	800 MW	Friday, August 26, 2016	15	20	800

#### Supply Notes For August 20, 2016

- 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 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.
  - 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 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

Fri, Aug 19, 2016	Actual Island Peak Demand <sup>8</sup>	11:20	745 MW
Sat, Aug 20, 2016	Forecast Island Peak Demand		745 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).