

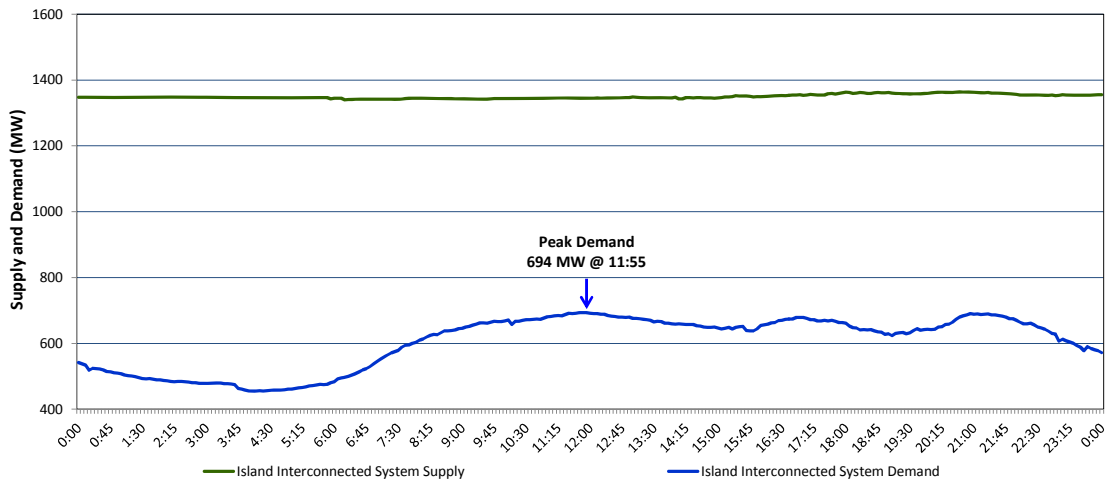
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Wednesday, August 17, 2016

### Section 1

#### Island Interconnected System Supply and Demand

#### Actual 24 Hour System Performance For Tuesday, August 16, 2016



#### Supply Notes For August 16, 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 0846 hours, July 12, 2016, St. Anthony Diesel Plant G6 (unit 544) unavailable (2 MW).
- G As of 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
- H As of 1610 hours, July 16, 2016, Holyrood Unit 1 derated to 120 MW (170 MW).
- I As of 1125 hours, July 18, 2016, Hardwoods Turbine unavailable. Previously derated to 38 MW (50 MW).
- J As of 1628 hours, August 09, 2016, Stephenville Gas Turbine End B unavailable (25 MW).
- K As of 1436 hours, August 14, 2016, Granite Canal Unit unavailable (40 MW).
- L As of 2356 hours, August 14, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).

### Section 2

#### Island Interconnected Supply and Demand

Wed, Aug 17, 2016 Island System Outlook <sup>3</sup>			Temperature (°C)		Island System Daily Peak Demand (MW)
			Morning	Evening	
Available Island System Supply: <sup>5</sup>	1,345	MW	Wednesday, August 17, 2016		765
NLH Generation: <sup>4</sup>	1,085	MW	Thursday, August 18, 2016		810
NLH Power Purchases: <sup>6</sup>	80	MW	Friday, August 19, 2016		775
Other Island Generation:	180	MW	Saturday, August 20, 2016		765
Current St. John's Temperature:	16	°C	Sunday, August 21, 2016		755
Current St. John's Windchill:	N/A	°C	Monday, August 22, 2016		790
7-Day Island Peak Demand Forecast:	810	MW	Tuesday, August 23, 2016		795

#### Supply Notes For August 17, 2016

- 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 16, 2016	Actual Island Peak Demand <sup>8</sup>	11:55	694 MW
Wed, Aug 17, 2016	Forecast Island Peak Demand		765 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).