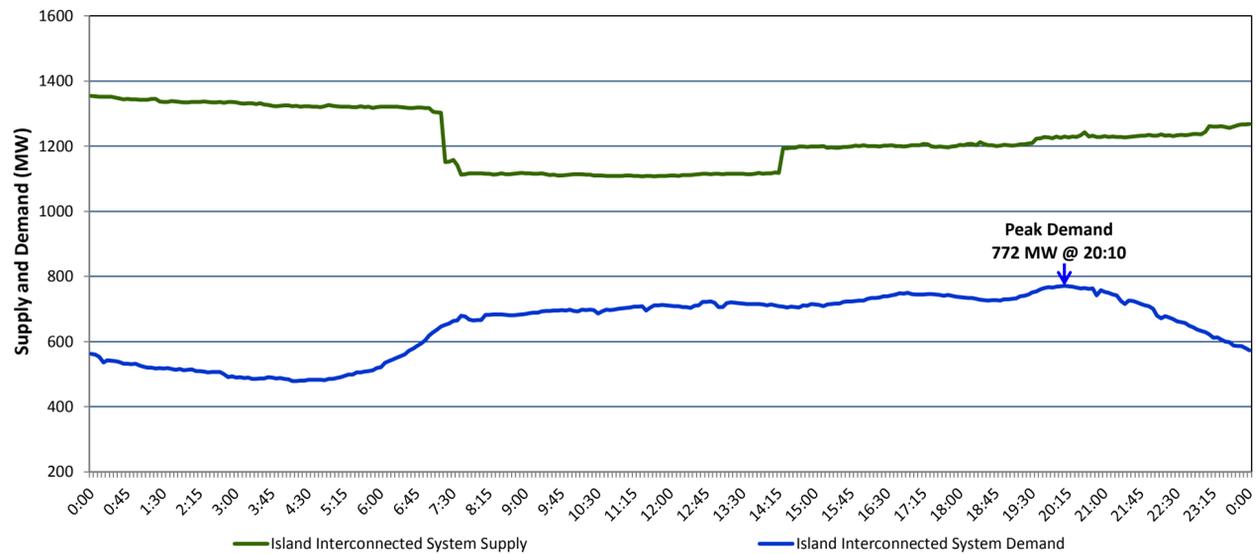


**Newfoundland Labrador Hydro (NLH)
Supply and Demand Status Report Filed Thursday, September 15, 2016**

**Section 1
Island Interconnected System Supply and Demand
Actual 24 Hour System Performance For Wednesday, September 14, 2016**



Supply Notes For September 14, 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 1425 hours, June 16, 2016, Holyrood Unit 2 unavailable. Previously derated to 120 MW (170 MW).
- D As of 1316 hours, July 15, 2016, Nalcor Exploits Grand Falls Unit 4 unavailable. Net impact to the Island Interconnected System is 7 MW.
- E As of 1733 hours, August 26, 2016, Holyrood Unit 3 derated to 135 MW (150 MW).
- F As of 1341 hours, August 27, 2016, Holyrood Unit 1 unavailable. Previously derated to 120 MW (170 MW).
- G As of 0757 hours, August 29, 2016, Bay d'Espoir Unit 5 unavailable (76.5 MW).
- H As of 0714 hours, August 31, 2016, Cat Arm Unit 1 unavailable (67 MW).
- I As of 1609 hours, August 31, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW).
- J As of 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant units 7 and 9 unavailable. No net impact to the Island Interconnected System.
- K As of 0902 hours, September 12, 2016, Stephenville Gas Turbine End B unavailable (25 MW).
- L At 0122 hours, September 14, 2016, Paradise River Unit unavailable (8 MW).
- M At 0701 hours, September 14, 2016, Nalcor Exploits Grand Falls Unit 8 unavailable. No net impact to the Island Interconnected System.
- N At 0702 hours, September 14, 2016, Nalcor Exploits Grand Falls Units 5 and 6 unavailable. Net impact to the Island Interconnected System is 8 MW.
- O At 0717 hours, September 14, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- P At 0717 hours, September 14, 2016, Bay d'Espoir Unit 2 unavailable (76.5 MW).
- Q At 0723 hours, September 14, 2016, Paradise River Unit available (8 MW).
- R At 0736 hours, September 14, 2016, Nalcor Exploits Grand Falls Unit 9 unavailable. Net impact to the Island Interconnected System is 30 MW.
- S At 0738 hours, September 14, 2016, Nalcor Exploits Bishop's Falls plant units 1,2,3,4,5,6, and 8 unavailable. Net impact to the Island Interconnected System is 15 MW.
- T At 1420 hours, September 14, 2016, Bay d'Espoir Unit 4 available (76.5 MW).
- U At 1743 hours, September 14, 2016, Nalcor Exploits Bishop's Falls plant units 1,2,3,4,5,6, and 8 available. Net gain to the Island Interconnected System is 15 MW.
- V At 1828 hours, September 14, 2016, Paradise River Unit unavailable (8 MW).
- W At 1921 hours, September 14, 2016, Nalcor Exploits Grand Falls Units 5 and 6 available. Net gain to the Island Interconnected System is 8 MW.
- X At 1921 hours, September 14, 2016, Nalcor Exploits Grand Falls Unit 8 available. No net gain to the Island Interconnected System.
- Y At 1933 hours, September 14, 2016, Paradise River Unit available (8 MW).
- Z At 2302 hours, September 14, 2016, Nalcor Exploits Grand Falls Unit 9 available. Net gain to the Island Interconnected System is 30 MW.

**Section 2
Island Interconnected Supply and Demand**

Thu, Sep 15, 2016	Island System Outlook ³	Seven-Day Forecast	Temperature (°C)		Island System Daily Peak Demand (MW) Forecast
			Morning	Evening	
Available Island System Supply: ⁵	1,375 MW	Thursday, September 15, 2016	16	8	890
NLH Generation: ⁴	1,110 MW	Friday, September 16, 2016	8	11	850
NLH Power Purchases: ⁶	100 MW	Saturday, September 17, 2016	13	14	785
Other Island Generation:	165 MW	Sunday, September 18, 2016	16	16	785
Current St. John's Temperature:	16 °C	Monday, September 19, 2016	16	17	830
Current St. John's Windchill:	N/A °C	Tuesday, September 20, 2016	13	10	925
7-Day Island Peak Demand Forecast:	925 MW	Wednesday, September 21, 2016	9	10	915

Supply Notes For September 15, 2016

- AA At 0313 hours, September 15, 2016, Holyrood Unit 2 available. Derated to 130 MW (170 MW).
- AB At 0330 hours, September 15, 2016, Nalcor Exploits Grand Falls Unit 9 unavailable. Net impact to the Island Interconnected System is 30 MW.

- 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, Sep 14, 2016	Actual Island Peak Demand ⁸	20:10	772 MW
Thu, Sep 15, 2016	Forecast Island Peak Demand		890 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).