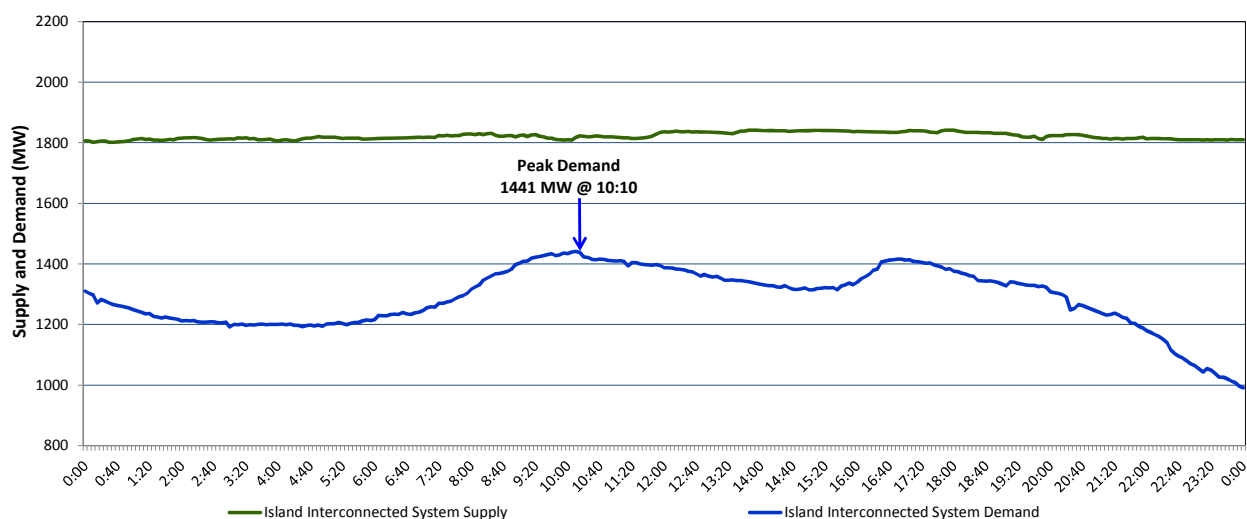


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Monday, December 19, 2016

### Section 1 Island Interconnected System Supply and Demand Actual 24 Hour System Performance For Sunday, December 18, 2016



#### Supply Notes For December 18, 2016 <sup>1,2</sup>

- 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 1719 hours, September 09, 2016, Nalcor Exploits Bishop's Falls plant unit 9 unavailable. No net impact to the Island Interconnected System.
- D** As of 2132 hours, October 10, 2016, Nalcor Exploits Bishop's Falls plant unit 8 unavailable. No net impact to the Island Interconnected System.
- E** As of 1007 hours, November 04, 2016, Nalcor Exploits Bishop's Falls plant unit 2 unavailable. No net impact to the Island Interconnected System.
- F** As of 2233 hours, December 17, 2016, Holyrood Unit 1 unavailable. Previously derated to 148 MW (170 MW).

### Section 2 Island Interconnected System Supply and Demand

Mon, Dec 19, 2016	Island System Outlook <sup>3</sup>		Seven-Day Forecast		Temperature (°C)		Island System Daily Peak Demand (MW)	
					Morning	Evening	Forecast	Adjusted <sup>7</sup>
Available Island System Supply: <sup>5</sup>	2,020	MW	Monday, December 19, 2016		3	-7	1,570	1,472
NLH Generation: <sup>4</sup>	1,660	MW	Tuesday, December 20, 2016		-10	-6	1,545	1,447
NLH Power Purchases: <sup>6</sup>	150	MW	Wednesday, December 21, 2016		-4	1	1,425	1,328
Other Island Generation:	210	MW	Thursday, December 22, 2016		-3	-1	1,400	1,304
Current St. John's Temperature:	2	°C	Friday, December 23, 2016		-2	1	1,495	1,398
Current St. John's Windchill:	N/A	°C	Saturday, December 24, 2016		-3	-2	1,500	1,402
7-Day Island Peak Demand Forecast:	1,570	MW	Sunday, December 25, 2016		3	0	1,310	1,215

#### Supply Notes For December 19, 2016 <sup>3</sup>

**G** At 0230 hours, December 19, 2016, Holyrood Unit 1 available. Derated to 160 MW (170 MW).

- 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.
  - Adjusted for CBP&P interruptible load and the impact of voltage reduction, when applicable.

### Section 3 Island Peak Demand Information Previous Day Actual Peak and Current Day Forecast Peak

Sun, Dec 18, 2016	Actual Island Peak Demand <sup>8</sup>	10:10	1,441 MW
Mon, Dec 19, 2016	Forecast Island Peak Demand		1,570 MW

Notes: <sup>8</sup> 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).