

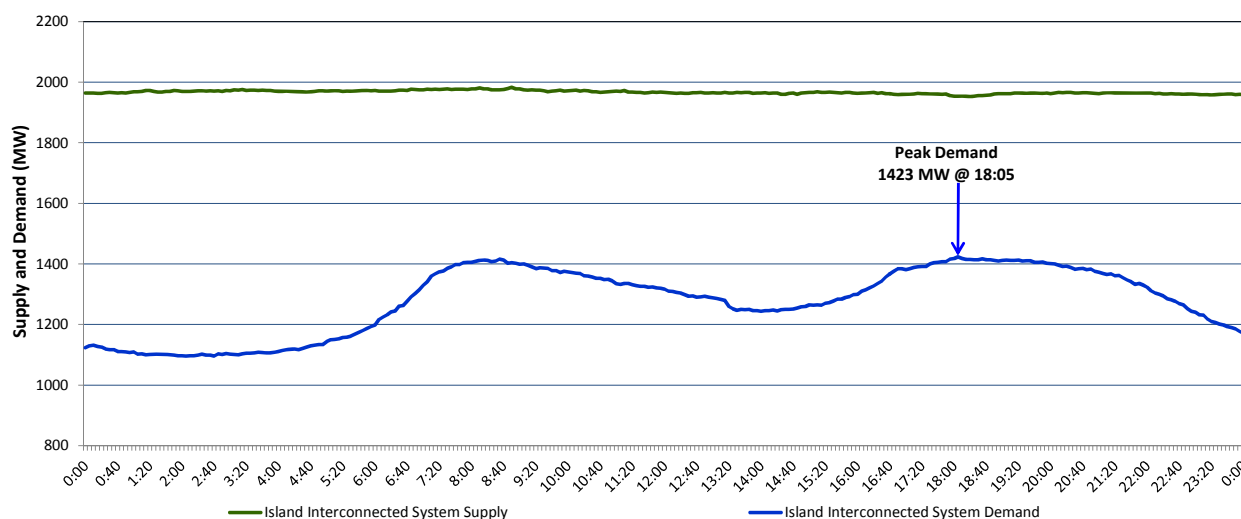
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Wednesday, February 22, 2017

### Section 1

#### Island Interconnected System Supply and Demand

#### Actual 24 Hour System Performance For Tuesday, February 21, 2017



#### Supply Notes For February 21, 2017

- A** As of 1513 hours, February 09, 2017, Stephenville Gas Turbine available at 38 MW (50 MW).  
**B** As of 1800 hours, February 14, 2017, Holyrood Unit 1 available at 145 MW (170 MW).  
**C** As of 1238 hours, February 19, 2017, Hardwoods Gas Turbine available at 25 MW (50 MW).  
**D** At 0909 hours, February 21, 2017, St. Anthony Diesel Plant Unit 522 (G3) unavailable due to planned outage (1 MW).  
**E** At 1546 hours, February 21, 2017, St. Anthony Diesel Plant Unit 522 (G3) available (1 MW).

### Section 2

#### Island Interconnected Supply and Demand

Wed, Feb 22, 2017			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>	1,930	MW			Wednesday, February 22, 2017		-4	-2	1,450	1,342
NLH Generation: <sup>4</sup>	1,610	MW			Thursday, February 23, 2017		-3	-3	1,420	1,312
NLH Power Purchases: <sup>6</sup>	110	MW			Friday, February 24, 2017		0	0	1,395	1,288
Other Island Generation:	210	MW			Saturday, February 25, 2017		-5	-3	1,355	1,248
Current St. John's Temperature:	-5	°C			Sunday, February 26, 2017		3	3	1,255	1,149
Current St. John's Windchill:	-10	°C			Monday, February 27, 2017		2	-2	1,355	1,248
7-Day Island Peak Demand Forecast:	1,495	MW			Tuesday, February 28, 2017		-4	-5	1,495	1,387

#### Supply Notes For February 22, 2017

- F** At 0720 hours, February 22, 2017, Holyrood Unit 2 available at 150 MW (170 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.
  7. Adjusted for CBPP&P, Praxair and Vale interruptible load as well as the impact of voltage reduction, when applicable.

### Section 3

#### Island Peak Demand Information

#### Previous Day Actual Peak and Current Day Forecast Peak

Tue, Feb 21, 2017	Actual Island Peak Demand <sup>8</sup>	18:05	1,423 MW
Wed, Feb 22, 2017	Forecast Island Peak Demand		1,450 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).