

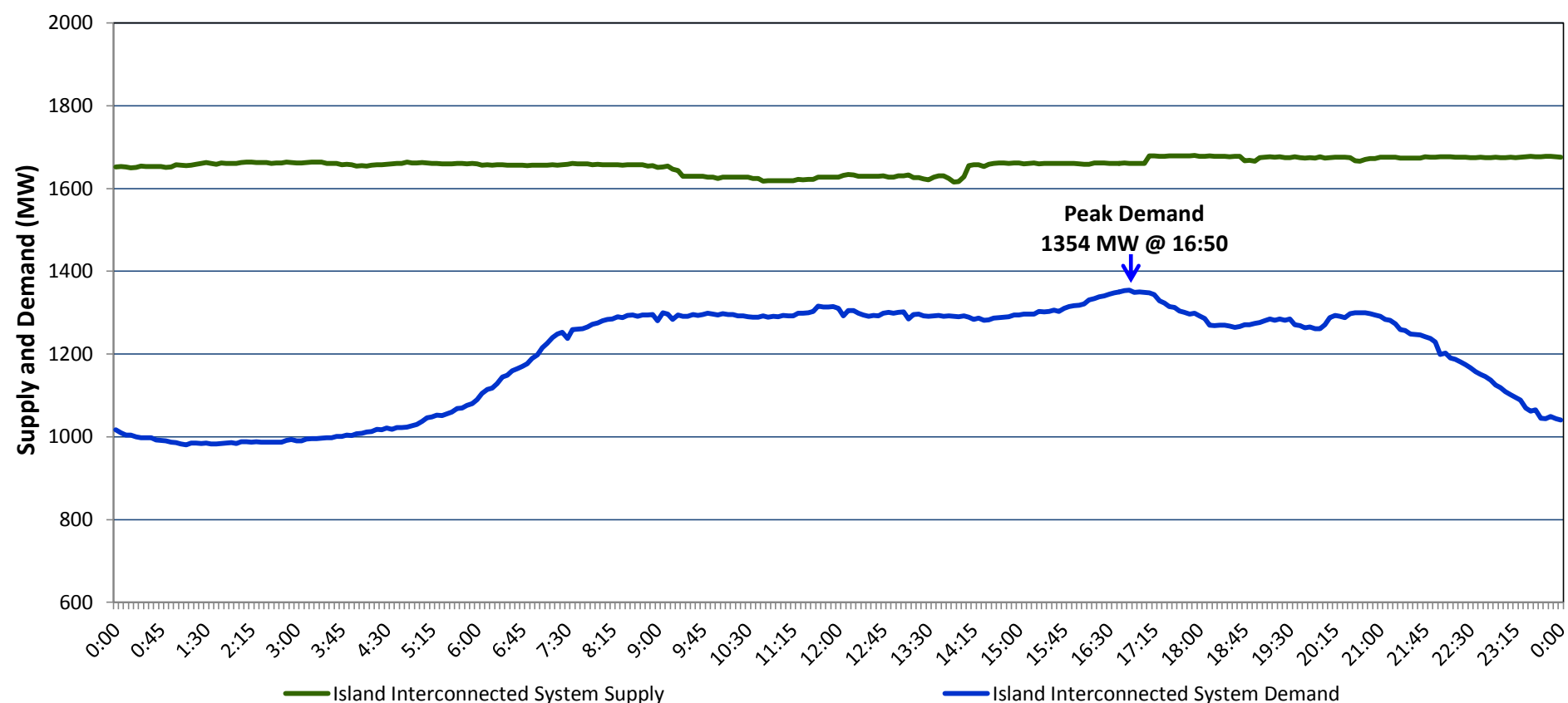
# Newfoundland Labrador Hydro (NLH)

## Supply and Demand Status Report Filed Thursday, April 21, 2016

### Section 1

#### Island Interconnected System Supply and Demand

#### Actual 24 Hour System Performance For Wednesday, April 20, 2016



#### Supply Notes For April 20, 2016

1,2

- 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 2010 hours, February 26, 2016, Holyrood Unit 1 derated to 120 MW (170 MW).
- C** As of 0732 hours, February 29, 2016, Hardwoods Gas Turbine derated to 38 MW (50 MW). End A 19 MW, End B 25 MW.
- D** As of 1100 hours, March 16, 2016, St. Anthony Diesel Unit 546 unavailable (2 MW).
- E** As of 1526 hours, March 26, 2016, Stephenville Gas Turbine End A unavailable (25 MW).
- F** As of 1335 hours, April 02, 2016, Holyrood Unit 2 derated to 120 MW (170 MW).
- G** As of 0848 hours, April 03, 2016, Bay d'Espoir Unit 1 unavailable (76.5 MW).
- H** As of 1029 hours, April 15, 2016, Holyrood Unit 3 unavailable (150 MW).

### Section 2

#### Island Interconnected Supply and Demand

Thu, Apr 21, 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>5</sup>	1,655 MW	Thursday, April 21, 2016	0	0	1,280
NLH Generation: <sup>4</sup>	1,325 MW	Friday, April 22, 2016	3	3	1,185
NLH Power Purchases: <sup>6</sup>	125 MW	Saturday, April 23, 2016	2	4	1,075
Other Island Generation:	205 MW	Sunday, April 24, 2016	4	4	1,020
Current St. John's Temperature:	-3 °C	Monday, April 25, 2016	2	0	1,155
Current St. John's Windchill:	-5 °C	Tuesday, April 26, 2016	-2	3	1,230
7-Day Island Peak Demand Forecast:	1,280 MW	Wednesday, April 27, 2016	8	1	1,055

#### Supply Notes For April 21, 2016

3

- 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, Apr 20, 2016	Actual Island Peak Demand <sup>8</sup>	16:50	1,354 MW
Thu, Apr 21, 2016	Forecast Island Peak Demand		1,280 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).