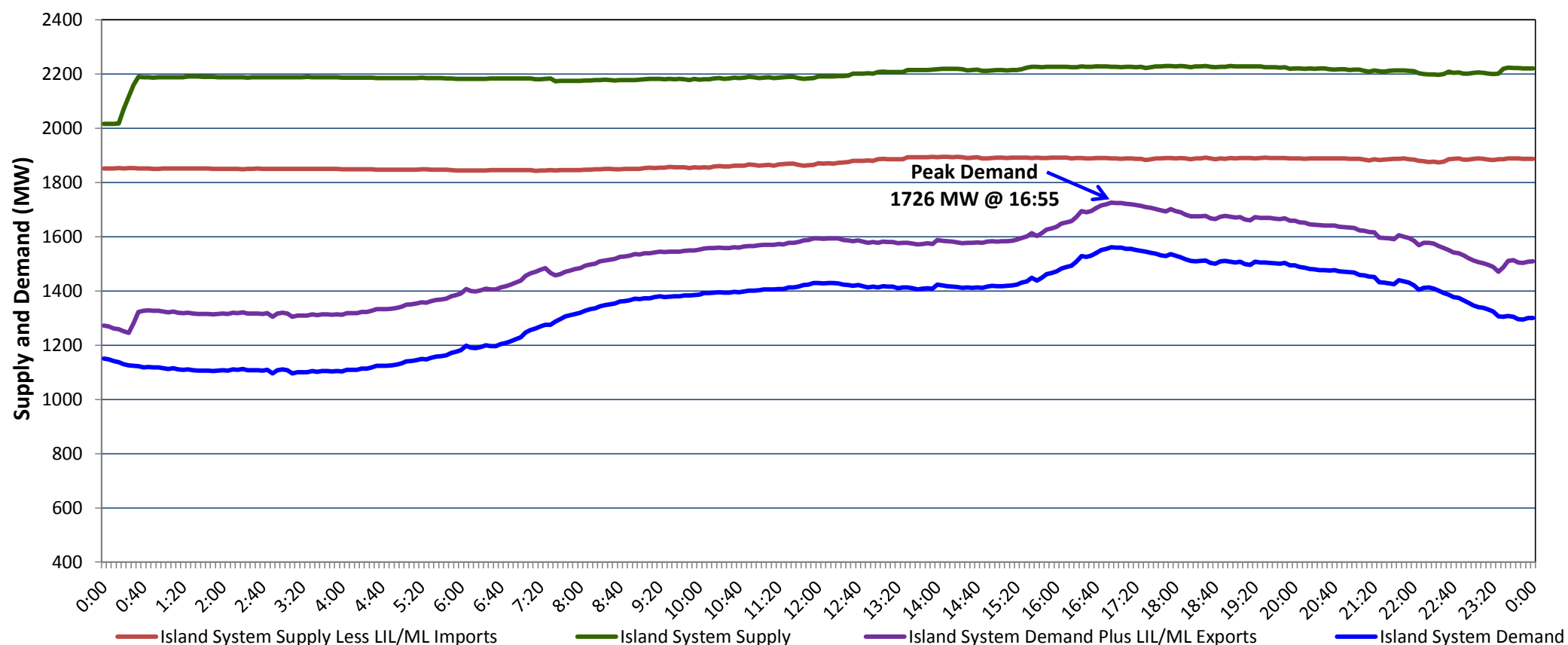


## Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Wednesday, January 05, 2022

### Section 1 Island Interconnected System Supply, Demand & Exports Actual 24 Hour System Performance For Tuesday, January 04, 2022



#### Supply Notes For January 04, 2022

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A As of 0830 hours, November 12, 2021, Holyrood Unit 2 unavailable (170 MW).

### Section 2 Island Interconnected Supply and Demand

Wed, Jan 05, 2022	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>	2,210	MW	Wednesday, January 05, 2022	-8	0	1,655	1,548	
NLH Island Generation: <sup>4,8</sup>	1,525	MW	Thursday, January 06, 2022	5	5	1,250	1,148	
NLH Island Power Purchases: <sup>6</sup>	125	MW	Friday, January 07, 2022	-4	-3	1,410	1,306	
Other Island Generation:	220	MW	Saturday, January 08, 2022	5	-3	1,470	1,365	
ML/LIL Imports:	340	MW	Sunday, January 09, 2022	-9	-4	1,460	1,355	
Current St. John's Temperature & Windchill:	-8 °C	-17 °C	Monday, January 10, 2022	3	4	1,325	1,222	
7-Day Island Peak Demand Forecast:	1,655	MW	Tuesday, January 11, 2022	-7	-11	1,565	1,459	

#### Supply Notes For January 05, 2022

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- 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 system having no synchronous connections to the larger North American grid, when there is a sudden loss of large generating units there may be a requirement for some customer's load to 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 (UFLS), is necessary to ensure the integrity and reliability of system equipment. Under frequency events have typically occurred 5 to 8 times per year on the Island Interconnected System and the resultant customer load interruptions are generally less than 30 minutes. With the activation of the Maritime Link frequency controller during the winter of 2018, UFLS events have occurred less frequently.
  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 Island Power Purchases include: CBPP Co-Gen, Nalcor Exploits, Rattle Brook, Star Lake, Wind Generation and capacity assistance (when applicable).
  7. Adjusted for curtailable load, market activities and the impact of voltage reduction when applicable.
  8. Due to limitations inherent in the design of combustion turbines, the output of combustion turbines may be reduced in the event that ambient temperatures exceed the threshold required for full rated output. This threshold is dependent on the design of each turbine.

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

Tue, Jan 04, 2022	Actual Island Peak Demand <sup>9</sup>	16:55	1,726 MW
Wed, Jan 05, 2022	Forecast Island Peak Demand		1,655 MW

Notes: 9. Island Demand / LIL / ML Exports (where applicable) is supplied by NLH generation and purchases, plus generation owned and operated by Newfoundland Power and Corner Brook Pulp & Paper (Deer Lake Power, DLP).