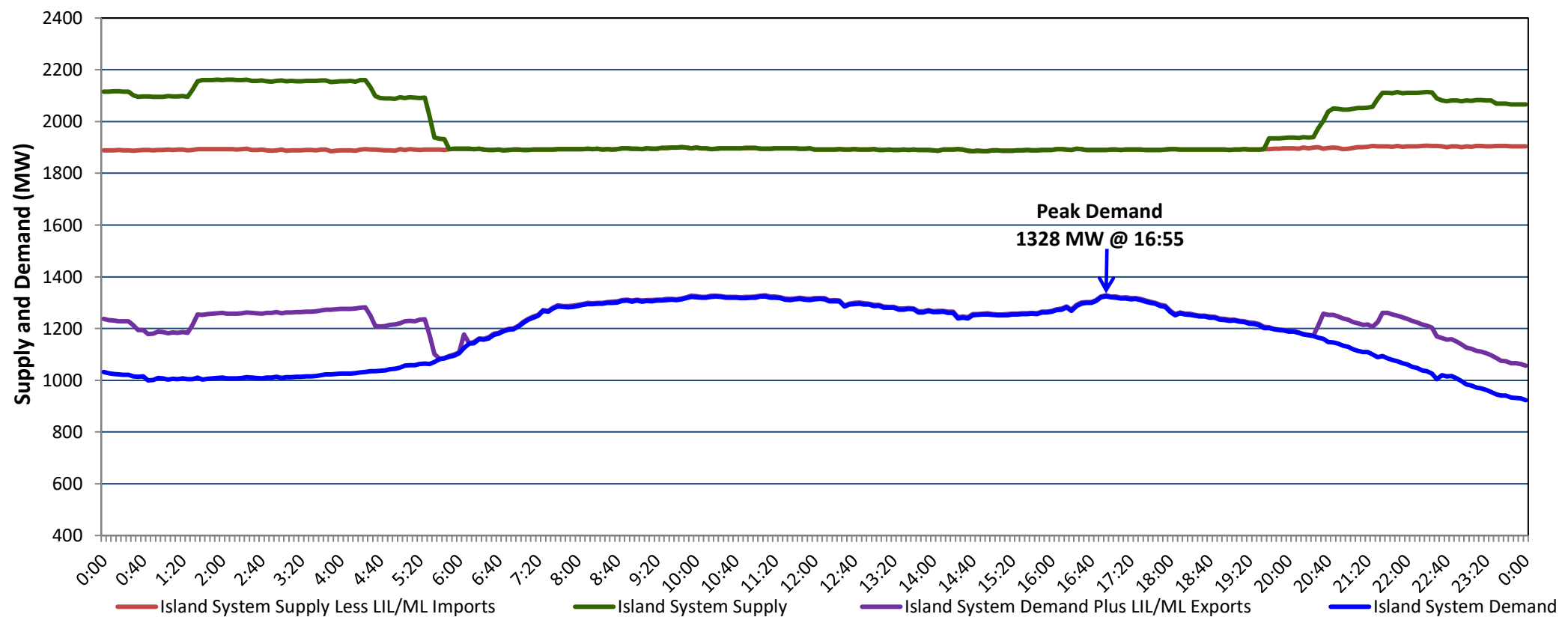


Newfoundland Labrador Hydro (NLH) Supply and Demand Status Report Filed Tuesday, January 17, 2023

Section 1 Island Interconnected System Supply, Demand & Exports Actual 24 Hour System Performance For Monday, January 16, 2023



Supply Notes For January 16, 2023

1,2

A As of 1200 hours, January 15, 2023, Holyrood Unit 2 available but not operating (170 MW).

Section 2 Island Interconnected Supply and Demand

Tue, Jan 17, 2023	Island System Outlook ³		Seven-Day Forecast		Temperature (°C)		Island System Daily Peak Demand (MW)	
					Morning	Evening	Forecast	Adjusted ⁷
Available Island System Supply: ⁵	1,795	MW	Tuesday, January 17, 2023		6	6	1,215	1,121
NLH Island Generation: ^{4,8}	1,440	MW	Wednesday, January 18, 2023		4	2	1,240	1,146
NLH Island Power Purchases: ⁶	130	MW	Thursday, January 19, 2023		2	1	1,335	1,240
Other Island Generation:	225	MW	Friday, January 20, 2023		0	-1	1,395	1,299
ML/LIL Imports:	-	MW	Saturday, January 21, 2023		-2	-3	1,410	1,314
Current St. John's Temperature & Windchill:	7 °C	N/A °C	Sunday, January 22, 2023		-8	-4	1,445	1,348
7-Day Island Peak Demand Forecast:	1,445	MW	Monday, January 23, 2023		0	-2	1,350	1,254

Supply Notes For January 17, 2023

3

B At 0704 hours, January 17, 2023, Upper Salmon Unit unavailable due to planned outage (84 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 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

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

Mon, Jan 16, 2023	Actual Island Peak Demand ⁹	16:55	1,328 MW
Tue, Jan 17, 2023	Forecast Island Peak Demand		1,215 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).