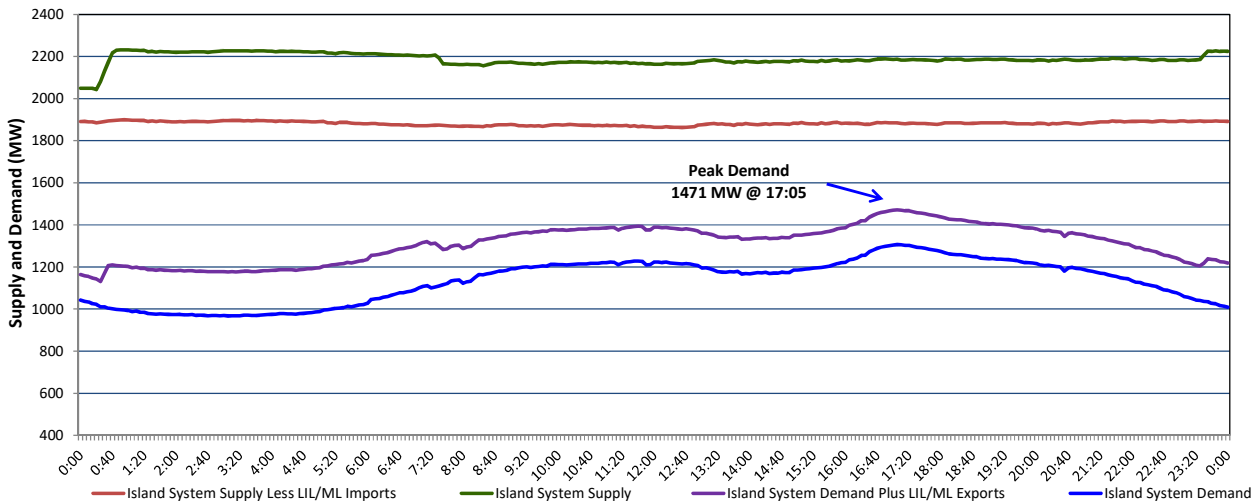


**Newfoundland Labrador Hydro (NLH)  
Supply and Demand Status Report Filed Thursday, December 30, 2021**

**Section 1  
Island Interconnected System Supply, Demand & Exports  
Actual 24 Hour System Performance For Wednesday, December 29, 2021**



**Supply Notes For December 29, 2021**

1,2

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

**Section 2  
Island Interconnected Supply and Demand**

Thu, Dec 30, 2021	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>	2,164	MW	Thursday, December 30, 2021	0	-1	1,570	1,464
NLH Island Generation: <sup>4,8</sup>	1,525	MW	Friday, December 31, 2021	-3	-4	1,410	1,306
NLH Island Power Purchases: <sup>6</sup>	115	MW	Saturday, January 1, 2022	-3	-3	1,310	1,207
Other Island Generation:	225	MW	Sunday, January 2, 2022	0	3	1,320	1,217
ML/LIL Imports:	299	MW	Monday, January 3, 2022	3	-2	1,380	1,276
Current St. John's Temperature & Windchill:	0	-6 °C	Tuesday, January 4, 2022	-4	-6	1,475	1,370
7-Day Island Peak Demand Forecast:	1,610	MW	Wednesday, January 5, 2022	-8	-9	1,610	1,503

**Supply Notes For December 30, 2021**

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 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**

Wed, Dec 29, 2021	Actual Island Peak Demand <sup>9</sup>	17:05	1,471 MW
Thu, Dec 30, 2021	Forecast Island Peak Demand		1,570 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).