

1 Q. **Reference: Application: Table 2-1 and Schedules A-I through A-III**

2 Provide a table that includes for each year from 2017 through 2025 broken down by each major
3 customer class and each electric system: (i) forecast energy requirements; (ii) actual energy
4 requirements; (iii) forecast peak demand; (iv) actual peak demand; and (v) the variance (GWh &
5 MW and %).

6 As part of the response, include a column that identifies the drivers of the material variances
7 and separately identifying the effect (GWh and MW) due to: customer growth; population
8 changes; industrial customer changes; electrification initiatives; electric heating; electric
9 vehicles; electricity price impacts; conservation and demand management; and other material
10 forecast adjustments.

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13 A. The requested information is provided in Table 1, Table 2, and Table 3, respectively.

**Table 1: Forecasted and Actual Demand and Energy by Customer Group
for the Island Interconnected System**

Newfoundland Power Inc.	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecasted Energy (GWh)	5,914.8	5,870.7	5,800.7	5,813.2	5,674.3	5,577.2	5,689.3	5,825.1	5,857.4
Actual Energy (GWh)	5,895.1	5,839.1	5,926.0	5,529.0	5,432.4	5,508.8	5,858.3	5,701.6	5,829.4
Difference (GWh)	(19.7)	(31.6)	125.3	(284.2)	(241.9)	(68.4)	169.0	(123.5)	(28.0)
Difference (%)	(0.3)	(0.5)	2.2	(4.9)	(4.3)	(1.2)	3.0	(2.1)	(0.5)
Forecasted Peak (MW)	1,337.9	1,339.3	1,322.7	1,334.6	1,315.1	1,280.8	1,336.8	1,366.9	1,394.0
Actual Peak (MW)	1,344.1	1,288.7	1,405.7	1,280.1	1,201.0	1,258.3	1,365.9	1,423.4	1,367.3
Difference (MW)	6.2	(50.6)	83.0	(54.5)	(114.1)	(22.5)	29.1	56.5	(26.7)
Difference (%)	0.5	(3.8)	6.3	(4.1)	(8.7)	(1.8)	2.2	4.1	(1.9)
Island Industrial	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecasted Energy (GWh)	619.9	658.1	647.3	663.2	699.3	683.9	493.4	664.5	584.2
Actual Energy (GWh)	586.6	622.6	617.9	452.1	421.9	387.4	334.3	448.8	506.7
Difference (GWh)	(33.3)	(35.5)	(29.4)	(211.1)	(277.4)	(296.5)	(159.1)	(215.7)	(77.5)
Difference (%)	(5.4)	(5.4)	(4.5)	(31.8)	(39.7)	(43.4)	(32.2)	(32.5)	(13.3)
Forecasted Peak (MW)	74.7	94.1	92.2	92.7	89.2	86.7	70.7	85.3	80.0
Actual Peak (MW)	95.7	97.5	92.0	90.0	71.3	68.2	66.8	91.0	97.5
Difference (MW)	21.0	3.4	(0.2)	(2.7)	(17.9)	(18.5)	(3.9)	5.7	17.5
Difference (%)	28.1	3.6	(0.2)	(2.9)	(20.1)	(21.3)	(5.5)	6.7	21.9
Island Rural Interconnected	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecasted Energy (GWh)	460.4	471.2	470.2	463.9	453.0	453.3	468.8	444.1	446.3
Actual Energy (GWh)	474.4	478.6	477.7	446.6	442.7	454.9	445.9	434.9	458.9
Difference (GWh)	14.0	7.4	7.5	(17.3)	(10.3)	1.6	(22.9)	(9.2)	12.6
Difference (%)	3.0	1.6	1.6	(3.7)	(2.3)	0.4	(4.9)	(2.1)	2.8
Forecasted Peak (MW)	96.6	99.9	98.5	97.3	95.2	94.1	96.9	91.2	91.5
Actual Peak (MW)	96.4	93.6	95.4	93.6	83.2	91.4	101.2	94.8	97.2
Difference (MW)	(0.2)	(6.3)	(3.1)	(3.7)	(12.0)	(2.7)	4.3	3.6	5.7
Difference (%)	(0.2)	(6.3)	(3.1)	(3.8)	(12.6)	(2.9)	4.4	3.9	6.2

**Table 2: Forecasted and Actual Demand and Energy by Customer Group
for the Labrador Interconnected System**

Labrador Rural Interconnected	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecasted Energy (GWh)	666.5	672.9	752.7	787.4	741.2	747.6	750.4	702.8	706.3
Actual Energy (GWh)	674.0	712.9	710.2	667.8	673.7	736.4	730.9	698.2	732.0
Difference (GWh)	7.5	40.0	(42.5)	(119.6)	(67.5)	(11.2)	(19.5)	(4.6)	25.7
Difference (%)	1	6	(6)	(15)	(9)	(1)	(3)	(1)	4
Forecasted Peak (MW)	157.3	159.0	171.0	166.9	166.3	167.1	167.2	161.7	161.8
Actual Peak (MW)	146.0	146.0	157.2	154.8	148.5	161.4	167.1	170.8	169.7
Difference (MW)	(11.3)	(13.0)	(13.8)	(12.1)	(17.8)	(5.7)	(0.1)	9.1	7.9
Difference (%)	(7.2)	(8.2)	(8.1)	(7.2)	(10.7)	(3.4)	(0.1)	5.6	4.9
Labrador Industrial	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecasted Energy (GWh)	1,767.7	1,765.0	1,741.5	2,074.1	2,065.4	2,050.5	2,028.3	1,991.0	1,956.9
Actual Energy (GWh)	1,753.0	1,457.6	1,818.3	2,002.9	1,902.2	1,960.6	1,798.0	1,864.1	1,838.6
Difference (GWh)	(14.7)	(307.4)	76.8	(71.2)	(163.2)	(89.9)	(230.3)	(126.9)	(118.3)
Difference (%)	(1)	(17)	4	(3)	(8)	(4)	(11)	(6)	(6)
Forecasted Peak (MW)	245.4	245.0	251.0	317.0	314.0	319.0	319.0	317.0	317.0
Actual Peak (MW)	266.7	273.8	301.1	298.8	299.0	297.0	297.7	310.1	303.6
Difference (MW)	21.3	28.8	50.1	(18.2)	(15.0)	(22.0)	(21.3)	(6.9)	(13.4)
Difference (%)	8.7	11.8	20.0	(5.7)	(4.8)	(6.9)	(6.7)	(2.2)	(4.2)

**Table 3: Forecasted and Actual Demand and Energy by Customer Group
for the Isolated Systems**

L'Anse au Loup	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecast Energy (MWh)	26,680.6	27,420.0	27,180.3	26,901.0	27,009.4	26,650.2	26,539.7	26,367.7	26,633.6
Actual Energy (MWh)	25,312.9	26,423.5	25,468.6	25,022.5	24,759.4	25,553.2	25,918.4	25,860.7	27,279.0
Difference (MWh)	(1,367.7)	(996.5)	(1,711.7)	(1,878.5)	(2,250.0)	(1,097.0)	(621.3)	(507.0)	645.4
Difference (%)	(5)	(4)	(6)	(7)	(8)	(4)	(2)	(2)	2
Forecast Demand (kW)	6,015.4	6,200.0	5,926.0	5,726.0	5,844.1	5,790.2	5,802.4	5,820.3	6,000.6
Actual Demand (kW)	5,400.0	5,824.0	5,650.0	5,440.0	5,754.0	5,693.0	5,996.0	5,765.0	6,418.0
Difference (kW)	(615.4)	(376.0)	(276.0)	(286.0)	(90.1)	(97.2)	193.6	(55.3)	417.4
Difference (%)	(10)	(6)	(5)	(5)	(2)	(2)	3	(1)	7
Labrador Isolated	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecast Energy (MWh)	45,717.1	45,950.0	45,495.5	45,469.0	45,365.4	45,246.2	44,460.1	44,275.9	44,582.8
Actual Energy (MWh)	43,012.6	43,599.4	43,467.9	41,953.8	41,419.1	43,141.6	43,207.6	42,411.6	44,872.0
Difference (MWh)	(2,704.5)	(2,350.6)	(2,027.6)	(3,515.2)	(3,946.3)	(2,104.6)	(1,252.5)	(1,864.3)	289.2
Difference (%)	(6)	(5)	(4)	(8)	(9)	(5)	(3)	(4)	1
Forecast Demand (kW)	10,750.2	10,930.0	10,715.4	10,608.0	10,593.9	10,421.2	10,488.9	10,193.9	10,217.7
Actual Demand (kW)	9,879.0	10,045.0	10,027.0	9,954.0	1,072.0	9,901.0	9,855.0	10,019.0	10,363.0
Difference (kW)	(871.2)	(885.0)	(688.4)	(654.0)	(9,521.9)	(520.2)	(633.9)	(174.9)	145.3
Difference (%)	(8)	(8)	(6)	(6)	(90)	(5)	(6)	(2)	1
Island Isolated	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecast Energy (MWh)	7,581.3	7,515.0	7,254.2	7,030.2	6,338.6	6,410.6	6,118.2	6,070.8	5,942.4
Actual Energy (MWh)	6,569.6	6,570.8	6,798.8	5,929.9	5,512.3	5,944.3	6,226.4	6,087.6	6,165.0
Difference (MWh)	(1,011.7)	(944.2)	(455.4)	(1,100.3)	(826.3)	(466.3)	108.2	16.8	222.6
Difference (%)	(13)	(13)	(6)	(16)	(13)	(7)	2	0	4
Forecast Demand (kW)	2,108.2	2,100.0	1,990.8	2,040.4	1,947.5	1,938.3	1,942.5	1,899.9	1,828.8
Actual Demand (kW)	N/A	2,029.0	2,006.4	1,717.1	1,836.0	2,001.0	1,810.0	1,844.0	2,027.0
Difference (kW)	-	(71.0)	15.6	(323.3)	(111.5)	62.7	(132.5)	(55.9)	198.2
Difference (%)	-	(3)	1	(16)	(6)	3	(7)	(3)	11

- 1 The primary driver of variances between forecast and actual energy and demand requirements
- 2 for the Island Rural Interconnected, Labrador Rural Interconnected, Newfoundland Power Inc.,
- 3 and Isolated systems is weather. Forecasts are developed using P50 weather assumptions, while

1 actual weather conditions vary from year to year. In addition, the effects of the COVID-19
2 pandemic impacted actuals compared to forecasts for the years 2020–2022.

3 Variances for Island and Labrador Industrial customers are primarily attributable to differences
4 in their actual operational requirements. Newfoundland and Labrador Hydro does not comment
5 on the operations of Industrial customers.