

1 Q. **Reference: Reference Application, para. 12**

2 It is stated

3 Due to the criticality of this penstock to the system and the necessity of
4 coordinating this work with other ongoing projects at Bay d'Espoir as well as
5 outage planning and ensuring works are completed before winter-load periods,
6 Hydro determined that work must begin earlier in 2026 ...

7 **a)** Please provide Hydro's schedule for work to be undertaken at the Bay d'Espoir hydro
8 facility in the years 2027 through 2032.

9 **b)** Please provide Hydro's schedule for projects to be undertaken on its existing and new
10 thermal and hydro generating facilities for the years 2027 through 2032.

11 **c)** Please provide load and capacity tables for the Island System showing the capacity
12 reserve margins for the winter peak periods from 2026/27 through 2031/32.

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15 A. **a & b)** Please refer to Newfoundland and Labrador Hydro's response to PUB-NLH-005 of this
16 proceeding.

17 **c)** Please refer to CA-NLH-001, Attachment 1.

PUB-NLH-001, Attachment 1
Bay d'Espoir Penstock 3 Weld Refurbishment and Section Replacement
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	2026	2027	2028	2029	2030	2031	2032
Bay d'Espoir - Unit 1	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Bay d'Espoir - Unit 2	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Bay d'Espoir - Unit 3	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Bay d'Espoir - Unit 4	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Bay d'Espoir - Unit 5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Bay d'Espoir - Unit 6	76.5	76.5	76.5	76.5	76.5	76.5	76.5
Bay d'Espoir - Unit 7	154.4	154.4	154.4	154.4	154.4	154.4	154.4
Cat Arm - Unit 1	67.0	67.0	67.0	67.0	67.0	67.0	67.0
Cat Arm - Unit 2	67.0	67.0	67.0	67.0	67.0	67.0	67.0
Granite Canal	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Hinds Lake	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Paradise River	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Upper Salmon	84.0	84.0	84.0	84.0	84.0	84.0	84.0
Subtotal Island Hydro	954.4	954.4	954.4	954.4	954.4	954.4	954.4
Holyrood Thermal - Unit 1 ¹	170.0	170.0	170.0	170.0	170.0	170.0	170.0
Holyrood Thermal - Unit 2 ¹	170.0	170.0	170.0	170.0	170.0	170.0	170.0
Holyrood Thermal - Unit 3 ¹	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Subtotal Holyrood Thermal Generating Station¹	490.0	490.0	490.0	490.0	490.0	490.0	490.0
Newfoundland Power - Avalon Hydro	39.5	39.5	39.5	39.5	39.5	39.5	39.5
Newfoundland Power - Off-Avalon Hydro	20.6	20.6	20.6	20.6	20.6	20.6	20.6
Newfoundland Power - Thermal	16.5	16.5	16.5	16.5	16.5	16.5	16.5
Newfoundland Power - Greenhill and Westleyville	28.0	28.0	28.0	28.0	28.0	0.0	0.0
Subtotal Newfoundland Power	104.6	104.6	104.6	104.6	104.6	76.6	76.6
Hardwoods Gas Turbine ¹	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Hawkes Bay Diesels	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Holyrood Diesels	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Holyrood Gas Turbine	123.5	123.5	123.5	123.5	123.5	123.5	123.5
St. Anthony Diesels	9.7	9.7	9.7	9.7	9.7	9.7	9.7
Stephenville Gas Turbine ¹	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Subtotal Thermal	246.2	246.2	246.2	246.2	246.2	246.2	246.2
Deer Lake G1-G7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
Bishop's Falls/Grand Falls	63.0	63.0	63.0	63.0	63.0	63.0	63.0
Corner Brook CoGen	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Fermuse Wind	12.0	12.0	12.0	12.0	0.0	0.0	0.0
New World Dairies	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rattle Brook	0.0	0.0	0.0	0.0	0.0	0.0	0.0
St. Lawrence Wind	12.0	12.0	12.0	12.0	0.0	0.0	0.0
Star Lake	18.0	18.0	18.0	18.0	18.0	18.0	18.0
Subtotal Non-Utility Generators	50.0	50.0	50.0	50.0	26.0	26.0	26.0
Total Island Generation Capacity	2,004.2	2,004.2	2,004.2	2,004.2	1,980.2	1,952.2	1,952.2
CBPP ² Capacity Assistance	90.0	90.0	90.0	90.0	90.0	90.0	90.0
Vale Capacity Assistance	7.6	7.6	7.6	7.6	7.6	7.6	7.6
MUN ³ Capacity Assistance	21.7	21.7	21.7	21.7	21.7	21.7	21.7
Newfoundland Power Capacity Assistance	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Subtotal Island Capacity Assistance	131.3	131.3	131.3	131.3	131.3	131.3	131.3
Emera Block	-158.0	-158.0	-158.0	-158.0	-158.0	-158.0	-158.0
Labrador-Island Link Capacity	642.2	642.2	642.2	642.2	642.2	642.2	642.2
Subtotal Firm Transmission Capacity - Base	484.2	484.2	484.2	484.2	484.2	484.2	484.2
Island Firm Capacity	2,135.5	2,135.5	2,135.5	2,135.5	2,111.5	2,083.5	2,083.5
Island Transmission Capacity	484.2	484.2	484.2	484.2	484.2	484.2	484.2
Total Island Capacity	2,619.7	2,619.7	2,619.7	2,619.7	2,595.7	2,567.7	2,567.7
Peak Load (MW) ^{4,5}	1744.0	1759.0	1773.0	1796.0	1814.0	1839.0	1858.0
Estimated Loss at Peak (MW)	47.0	47.0	47.0	47.0	47.0	47.0	47.0
Total Load (MW)	1791.0	1806.0	1820.0	1843.0	1861.0	1886.0	1905.0
Reserve Margin (%) ⁶	46%	45%	44%	42%	39%	36%	35%

¹ Assumes the extension of thermal generation beyond the Bridging Period, pending the approval of new generation projects before the Board.

² Corner Brook Pulp and Paper Limited ("CBPP").

³ Memorial University of Newfoundland ("MUN").

⁴ Does not included losses.

⁵ Based on 2025 Reference Case load forecast (managed Electric Vehicle load).

⁶ This is based on a deterministic calculation that does not account for unit performance. Calculation is determined by adding the Island Firm Capacity plus the Island Transmission Capacity divided by the total load. For example, in 2026: (2135.5 + 484.2 - 1791.0) / 1791.0.