

1 Q. Please quantify in megawatts the total amount of currently existing generation capacity that  
2 Hydro intends to retire by 2032. Please also quantify the total amount of firm generation  
3 capacity proposed or expected to be installed as part of the Minimum Investment Required  
4 Expansion Plan described in the *2024 Resource Adequacy Plan*.

5

6

7 A. As shown in the 2024 Resource Adequacy Plan,<sup>1</sup> Newfoundland and Labrador Hydro (“Hydro”)  
8 plans to retire 590 MW of its own firm generating capacity by 2030 and assumes that  
9 Newfoundland Power Inc. (“Newfoundland Power”) will retire 28 MW by 2030.<sup>2</sup> Hydro also  
10 assumes the expiration of two Power Purchase Agreements (“PPA”), and their corresponding  
11 total of 12 MW of Firm Capacity in 2029.<sup>3</sup> In total, this would result in 630 MW of firm  
12 generation being retired from the Island Interconnected System by 2032. As shown in the 2024  
13 Resource Adequacy Plan,<sup>4</sup> the total firm capacity additions in the recommended Minimum  
14 Investment Required Expansion Plan total 384 MW by 2034.

15 With the exception of the 12 MW of wind generation, the resources scheduled for retirement  
16 have a relatively high forced outage rate (“FOR”) (i.e., 20% for Holyrood Thermal Generating  
17 Station (“Holyrood TGS”) and 30% for the gas turbines at Hardwoods, Stephenville, Greenhill  
18 and Wesleyville). The new resources proposed as part of the recommended expansion plan are  
19 assumed to have significantly lower FORs. Hence a one-for-one replacement of retired capacity  
20 is not necessary to achieve the same level of reliability.

---

<sup>1</sup> “2024 Resource Adequacy Plan – An Update to the Reliability and Resource Adequacy Study,” Newfoundland and Labrador Hydro, rev. August 26, 2024 (originally filed July 9, 2024), app. B, sec. 5.1.6, p. 39, Table 8.

<sup>2</sup> In recent discussions, Newfoundland Power has identified that the addition of 25 MW combustion turbines could provide effective solutions to potentially resolve future violations. Specifically, consideration is being given to the installation of generators to replace existing thermal assets in Wesleyville, Greenhill, and the Port-aux-Basques region, totalling 75 MW.

<sup>3</sup> For generation purchased under a PPA, the generation is assumed to be available until the end of the contract period, which in this case is in 2029. However, this does not suggest there isn’t the potential for a mutually beneficial extension of any PPA that is due to expire within the planning horizon.

<sup>4</sup> “2024 Resource Adequacy Plan – An Update to the Reliability and Resource Adequacy Study,” Newfoundland and Labrador Hydro, rev. August 26, 2024 (originally filed July 9, 2024), app. C, sec. 8.1, p. 140, Table 54.