Q. **Reference: Reliability and Resource Adequacy Study – 2022 Update, Volume I: Study Methodology and Planning Criteria, October 3, 2022, page 5, lines 17-19.**

> Furthermore, the proposed Clean Electricity Standard has brought into question resource options that would traditionally have been recommended but are now uncertain as a future resource option (e.g., fossil fuel-burning combustion turbines).

Please provide the proportion of Hydro's annual energy production on the Island Interconnected System that would be from renewable sources versus the proportion that would be from non-renewable sources, during the 2023-2030 bridging period, for the following scenarios:

i. Continued use of Holyrood TGS as a backup facility.

ii. Replacement of Holyrood with an equivalent capacity of gas turbines.

A. Based on Newfoundland and Labrador Hydro's most recent planning assumptions, the percentage of Island Interconnected System generation from non-renewable and renewable sources in each scenario is represented in Table 1 and Table 2.

Table 1: Island Interconnected System Generation from Non-Renewable Sources

Scenario	2023	2024	2025	2026	2027	2028	2029	2030
Scenario 1: Holyrood TGS[1] In Service	5.2%	2.7%	2.0%	1.9%	1.9%	1.9%	1.9%	1.1%
Scenario 2: Equivalent Gas Turbines	1.6%	0.3%	0.4%	0.2%	0.2%	0.3%	0.3%	0.4%

Table 2: Island Interconnected System Generation from Renewable Sources

Scenario	2023	2024	2025	2026	2027	2028	2029	2030
Scenario 1: Holyrood TGS In Service	94.8%	97.3%	98.0%	98.1%	98.1%	98.1%	98.1%	98.9%
Scenario 2: Equivalent Gas Turbines	98.4%	99.7%	99.6%	99.8%	99.8%	99.7%	99.7%	99.6%

[1] Holyrood Thermal Generating Station ("Holyrood TGS").