

Generation

Q. Reference: “2024 Capital Budget Application,” Newfoundland Power Inc., June 22, 2023, Supporting Materials, Generation: 4.1, p. 1, f.n. 1.

In 2020, Newfoundland Power retained Hatch to conduct an updated Hydro Normal Production Review. The review was completed in April 2021, setting the annual production for the Lookout Brook Plant at 31.51 GWh.

- a) Please provide the annual production for the 5.6 MW Lookout Brook Plant for the last three years.**
- b) Please provide the derated adjusted forced outage rate (“DAFOR”) statistics for the LBK-G3 unit and the total DAFOR for the Lookout Brook Plant.**

A. a) The annual production for the Lookout Brook Plant for the last three years is provided in Table 1 below.

Table 1 Lookout Brook Plant Generation (2020-2022)	
Year	Production (GWh)
2020	28.53
2021	25.21
2022	32.17

b) Newfoundland Power does not maintain DAFOR statistics for the Lookout Brook Plant or any of its hydro plants.

Electricity Canada provides an annual report of equipment reliability information for participating Canadian utilities. While Newfoundland and Labrador Hydro is a participating member, Newfoundland Power is not and, therefore, the Company does not obtain this information. Further, DAFOR data collected by Electricity Canada is only for generators in excess of 5 MW output. As none of the Lookout Brook generators exceed this threshold, they would not qualify for inclusion in Electricity Canada’s report.

- 1 See Table 2 below for Lookout Brook G3 availability for the period 2020 to 2022.
- 2 Outages have been classified as forced, maintenance or planned.¹

Table 2 Lookout Brook G3 Availability (2020-2022)				
Year	Forced (%)	Maintenance (%)	Planned (%)	Availability (%)
2020	1.27	12.93	0.23	85.57
2021	4.51	0.33	0.00	95.16
2022	1.52	12.88	0.04	85.56

¹ Newfoundland Power classifies unit outages several ways: i) forced outages, which are caused by a failure requiring corrective action on the unit before it can be returned to service; ii) maintenance outages, which relate to planned maintenance activities being undertaken on the unit; and iii) planned outages, which pertain to planned capital work resulting in unit unavailability. Newfoundland Power also classifies outages as “system caused” when the unit is otherwise available but system conditions render the unit offline such as a transmission line fault or substation failure.