

1 Q. **Reference: 2023 Capital Budget Overview, Table 9: Prioritization by Risk Mitigated and**
2 **October 6, 2022 Technical Conference**

3 Please identify those projects in Table 9 whose justification is entirely or primarily driven by
4 reliability and resource adequacy (in the sense those terms are being used in the RRAS Review)
5 requirements, and those projects whose entire or primary justification is not driven by reliability
6 and resource adequacy. Please provide, in tabular form, a listing of the Table 9 projects if they
7 were to be prioritized based only upon reliability and resource adequacy requirements.

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10 A. The information originally provided in Table 9 of the 2023 Capital Budget Overview¹ is contained
11 in IC-NLH-014, Attachment 1 with the addition of the risk factor evaluated for each program or
12 project. For programs or projects justified and risk-evaluated on the basis of safety or
13 environment, there is no material reliability risk; therefore, Newfoundland and Labrador Hydro
14 is unable to prioritize these programs or projects solely on the basis of reliability.

¹ "2023 Capital Budget Application," Newfoundland and Labrador Hydro, July 13, 2022, vol. 1, sch. 1, table 9, pp. 36–37.

Table 1: Prioritization by Risk Mitigated

Priority Ranking	Program or Project	Risk Mitigated	Risk Factor
1	Overhaul Unit 2 Turbine and Valves (2023) - Holyrood	20.0	Reliability
2	Terminal Station Renewal Program (2023-2024)	15.0	Reliability
3	Refurbish Superstructure (2023-2024) - Salmon River Spillway	15.0	Reliability
4	Boiler Condition Assessment and Miscellaneous Upgrades (2023) - Holyrood	15.0	Reliability
5	Overhaul Pumps (2023) - Holyrood	15.0	Reliability
6	Circuit Breakers Renewal Program (2023-2024)	15.0	Reliability
7	Diesel Genset Replacement Program (2023-2025)	12.0	Reliability
8	Hydraulic Unit Overhauls Program (2023)	12.0	Reliability
9	Water System Condition Assessment and Upgrades (2023) - Bay d'Espoir	12.0	Environment
10	Hydraulic In-Service Failures (2023)	12.0	Reliability
11	Thermal In-Service Failures (2023)	12.0	Reliability
12	Replace Circuit Breaker Reclosing Controllers (2023-2024) - Hardwoods	12.0	Reliability
13	Terminal Station In-Service Failures (2023)	12.0	Reliability
14	Wood Pole Line Management Program (2023)	12.0	Reliability
15	Distribution System In-Service Failures, Miscellaneous Upgrades, and Street Lights (2023)	12.0	Reliability
16	Transmission In-Service Failures (2023)	12.0	Reliability
17	Overhaul Diesel Units (2023)	12.0	Reliability
18	Remove Safety Hazards (2023)	12.0	Safety
19	Upgrade Public Safety Around Dams and Waterways (2023)	10.0	Safety
20	Unit 7 Condition Assessment (2023) - Bay d'Espoir	10.0	Reliability
21	Install Breaker Failure Protection (2023-2024) - Sunnyside	10.0	Reliability
22	Major Condition Assessment and Miscellaneous Refurbishments Synchronous Condenser 1 and 2 (2023-2024) - Wabush Terminal Station	10.0	Reliability
23	Upgrade Cyber Security Infrastructure (2023)	10.0	Reliability
24	Refurbish BioGreen Sewage System (2023) - Holyrood	9.0	Environment
25	Replace Mobile Equipment (2023-2024)	9.0	Reliability
26	Replace Light- and Heavy-Duty Vehicles (2023-2025)	9.0	Reliability
27	Replace Powerhouse Station Service Panel (2023-2024) - Upper Salmon	8.0	Reliability
28	Upgrade of Worst-Performing Distribution Feeders (2023-2024)	8.0	Reliability
29	Replace Intermediate Fuel Storage Tanks (2023-2024) - Nain	8.0	Reliability
30	Replace 48 V Battery Banks and Chargers (2023)	8.0	Reliability
31	Replace Network Communications Equipment (2023)	8.0	Reliability
32	Replace Remote Terminal Units (2023)	8.0	Reliability
33	Replace Power Line Carrier (2023-2024) - TL223 and TL224	8.0	Reliability
34	Replace Diesel Genset 1 (2023-2024) - Ebbegunbaeg	6.0	Reliability
35	Replace Emergency Lift (2023) - Salmon River Spillway	6.0	Environment
36	Gas Turbine In-Service Failures (2023)	6.0	Reliability
37	Replace Oil Mist Separator (2023-2024) - Happy Valley Gas Turbine	6.0	Reliability
38	Replace Human-Machine Interface (2023) - Happy Valley Gas Turbine	6.0	Reliability
39	Replace Data Alarm System Annunciators (2023) - Buchans	6.0	Reliability
40	Install Oil Spill Containment Transformer T1S (2023-2024) - Cat Arm	6.0	Environment
41	Diesel In-Service Failures (2023)	6.0	Reliability
42	Upgrade Water and Fire Suppression Systems (2023-2024) - Bishop's Falls	6.0	Safety
43	Replace Diesel Shop Building (2023-2025) - Bishop's Falls	6.0	Reliability
44	Perform Software Upgrades and Minor Enhancements (2023)	6.0	Reliability
45	Purchase Personal Computers (2023)	6.0	Reliability
46	Replace Peripheral Infrastructure (2023)	6.0	Reliability
47	Upgrade Core OT Infrastructure (2023)	6.0	Reliability
48	Upgrade Site Facilities (2023)	6.0	Reliability
49	Purchase Mobile Devices (2023)	6.0	Reliability
50	Replace Standalone PBX Phone Systems (2023)	6.0	Reliability
51	Refurbish Workshop Roof (2023) - Holyrood	6.0	Reliability
52	Install Fire Protection in 230 kV Stations (2023-2024) - Deer Lake	5.0	Reliability
53	Replace Building Exterior (2023-2024) - Postville	5.0	Reliability
54	Purchase Tools and Equipment Less than \$50,000 (2023) - Hydraulic Plants	4.0	Reliability
55	Purchase Tools and Equipment Less than \$50,000 (2023) - Thermal Plants	4.0	Reliability
56	Purchase Tools and Equipment Less than \$50,000 (2023) - Gas Turbine	4.0	Reliability
57	Replace HVAC System (2023-2024) - Bishop's Falls	4.0	Environment
58	Purchase Tools and Equipment Less than \$50,000 (2023) - Central Region	4.0	Reliability
59	Purchase Tools and Equipment Less than \$50,000 (2023) - Northern Region	4.0	Reliability
60	Purchase Tools and Equipment Less than \$50,000 (2023) - Labrador Region	4.0	Reliability
61	Purchase Tools and Equipment Less than \$50,000 (2023) - Telecontrol	4.0	Reliability
62	Purchase Office Equipment Less Than \$50,000 (2023)	4.0	Reliability