Q. (Reference Application)

Regarding NP's hydro plants:

a) What is the value of those plants based on the cost of purchases from Hydro and the NP hydro generation credit included in Hydro's cost of service study?

b) Please provide a table listing all those plants giving their capacities and showing each one's monthly generation for the months January 2025 to June 2026.

c) Do any of NP's hydro plants have significant reservoirs or are they all run-of-the-river? Please provide quantitative information for any with significant reservoirs.

A. a) The total annual value of Newfoundland Power's hydro plants is approximately $31,059,000 based on the cost of energy purchases from Newfoundland and Labrador Hydro ("Hydro") and the hydro generation credit provided to Newfoundland Power from Hydro.[1]

b) Attachment A provides the capacities and monthly generation from January 2025 to June 2026 of Newfoundland Power's hydro plants.

c) Newfoundland Power's hydro plants vary from a run-of-river configuration to some level of dispatchability.[2] Dispatchability can be measured by considering the amount of storage available in a hydropower system.

Table 1 provides details on the quantity of storage available for each of Newfoundland Power's hydroelectric systems.

[1] Based on Hydro's *Schedule of Rates, Rules and Regulations*, updated July 1, 2026. Energy Charges are based on winter (December-March) and non-winter (April-November) second block energy charges from Hydro to Newfoundland Power.

[2] A fully dispatchable hydro plant has sufficient storage to allow it to produce at its full rated capacity for all potential periods of need. A run-of-river plant has very little storage and provides minimum flexibility to schedule production for periods of greatest value. The value of capacity from a fully dispatchable plant is normally higher than the value of capacity from a run-of-river plant.

Table 1
Hydroelectric System Storage

Plant	Capacity (MW)	System Storage (MWh)	System Storage (Days)
New Chelsea/Pittman's Pond	5.13	8,914	72
Pierre's Brook	4.10	5,752	58
Victoria	0.55	762	58
Cape Broyle/Horsechops	14.48	19,789	57
Mobile/Morris	11.60	15,804	57
Rattling Brook	15.00	16,523	46
Lockston	3.00	2,716	38
Lookout Brook	5.60	4,064	30
Tors Cove/Rocky Pond	9.80	6,770	29
Topsail	2.55	1,718	28
Petty Harbour	5.25	2,232	18
Sandy Brook	6.50	2,563	16
Heart's Content	2.70	463	7
Seal Cove	3.75	639	7
Rose Blanche	5.60	776	6
Fall Pond	0.35	42	5
Port Union	0.52	35	3
West Brook	0.72	0	0
Lawn	0.60	0	0

ATTACHMENT A:

Historical Monthly Generation Data

Table 1
Monthly Generation in MWh
(2025)

Plant	Capacity (MW)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Petty Harbour	5.25	2,002	904	2,168	1,625	1,169	197	180	70	291	51	2,163	1,988
Pierre's Brook	4.10	2,567	1,503	2,720	2,117	1,761	476	503	332	1,262	131	1,902	2,681
Tors Cove	6.55	2,860	1,988	3,295	2,420	1,931	1,197	401	128	247	311	2,883	3,298
Rocky Pond	3.25	1,517	1,224	1,733	1,485	1,134	779	386	125	171	165	1,549	1,725
Mobile	10.50	0	0	0	0	0	0	0	0	0	0	0	4,835
Cape Broyle	6.28	4,235	3,426	4,208	3,805	2,151	2,291	1.829	1,526	333	27	1,707	3,859
Horsechops	8.20	5,353	4,945	5,521	5,605	2,986	3,646	2.854	2,316	357	0	999	3,978
Topsail	2.55	0	0	0	0	0	6	28	0	0	0	672	483
Seal Cove	3.75	1,337	685	1,312	1,001	749	152	36	30	74	233	1,335	960
Hearts Content	2.70	934	355	1,283	810	641	131	84	59	115	215	1,506	1,224
Victoria	0.55	0	0	0	0	0	0	0	0	0	0	0	0
New Chelsea	4.50	2,164	2,088	2,656	2,370	589	732	0	0	0	0	191	1,791
Pittmans	0.63	284	455	497	445	104	143	0	0	0	0	0	370
Morris	1.10	690	617	695	139	0	0	0	0	0	0	0	122
West Brook	0.72	128	157	272	326	162	103	5	0	31	83	184	291
Fall Pond	0.35	66	40	174	122	62	54	15	14	28	18	183	118
Lawn	0.60	193	54	344	276	114	107	0	0	0	0	0	0
Rattling Brook	15.00	7,756	6,088	10,119	7,754	5,384	4,032	6,170	407	730	3,611	3,351	9,290
Sandy Brook	6.50	3,593	1,342	4,558	4,071	1,887	742	501	1,066	977	336	2,895	3,334
Lockston	3.00	1,032	1,102	1,735	1,183	664	79	62	30	62	76	536	611
Port Union	0.52	44	0	115	125	18	0	0	0	0	17	143	3
Lookout Brook	5.60	3,062	2,165	2,809	1,183	1,332	1,688	1,765	1,643	815	200	779	1,989
Rose Blanche	5.60	1,841	75	2,205	3,415	2,729	1,282	308	588	757	750	3,580	2,104

Table 2
Monthly Generation in MWh
(2026)

Plant	Capacity (MW)	Jan	Feb	Mar	Apr	May	Jun
Petty Harbour	5.25	2,495	1,122	2,598	2,618	1,902	657
Pierre's Brook	4.10	2,783	2,126	2,625	2,804	2,776	1,798
Tors Cove	6.55	3,035	1,785	3,514	3,191	2,237	1,180
Rocky Pond	3.25	1,492	981	1,914	1,759	1,229	752
Mobile	10.50	5,595	5,666	6,090	6,365	6,293	4,199
Cape Broyle	6.28	4,147	3,610	4,491	4,503	3,983	2,990
Horsechops	8.20	5,293	4,975	5,599	5,209	5,532	4,432
Topsail	2.55	0	0	0	0	0	0
Seal Cove	3.75	701	610	1,794	1,446	642	509
Hearts Content	2.70	1,413	440	1,516	1,492	891	346
Victoria	0.55	0	0	0	0	0	0
New Chelsea	4.50	1,803	1,026	2,663	2,444	2,222	1,372
Pittmans	0.63	320	229	479	479	458	325
Morris	1.10	437	395	469	369	333	321
West Brook	0.72	300	71	270	249	151	18
Fall Pond	0.35	137	10	127	118	23	54
Lawn	0.60	0	0	0	0	0	0
Rattling Brook	15.00	9,030	7,053	8,592	9,174	8,547	5,276
Sandy Brook	6.50	3,670	1,997	3,504	4,227	4,609	3,123
Lockston	3.00	1,306	840	1,161	1,706	1,635	112
Port Union	0.52	68	0	93	98	177	26
Lookout Brook	5.60	1,782	1,769	2,332	2,382	2,993	2,653
Rose Blanche	5.60	1,480	265	2,142	1,592	4,144	1,721