

1 Q. **Reference Application**

2 How much would it cost to retire Hydro’s smaller hydro generation facilities? Please provide for
3 the small hydro plants: age, capacity, annual energy production, storage capacity and levelized
4 cost.

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7 A. Tables 1 and 2 provide information on each of Newfoundland and Labrador Hydro’s (“Hydro”)
8 small hydro units.

Table 1: Small Hydro Generation Parameters by Plant

Facility	Unit	Age	Capacity (MVA) ¹	Annual Energy Production (GWh)	Storage Capacity
Snooks Arm	1	63	0.54	10 years of data provided in Table 2	Run-of-River ²
Venams Bight	1	63	0.36		Run-of-River
Roddickton	1	40	0.531		Run-of-River

Table 2: Small Hydro Generation Annual Energy Production (GWh) by Plant (2009–2019)

Facility	Annual Energy Production (GWh)										
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Snook's Arm	5.1	1.8	4.2	3.5	3.5	2.2	3.9	3.2	3.2	2.5	1.7
Venam's Bight											
Roddickton	0.4	0.1	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.5	0.4

9 Hydro is in the process of evaluating the retirement costs, as well as the costs associated with
10 continued operation, of its small hydro units³ to inform future investment considerations.

¹ Megavolt Ampere (“MVA”).

² A Run-of-River facility is considered to have little or no water storage provided meaning that production is dictated by the water available in the river at the generating facilities and is subject to seasonal river flows.

³ Hydro defines its small hydro units as Snook’s Arm, Venam’s Bight, and Roddickton hydro generation facilities.