1	Q.	Further to IIC-NLH-28, please provide marginal capacity cost estimates in the format provided in
2		Figure 7 of CA Consulting Marginal Cost Study Update – 2018 [November 15, 2018], which was
3		Appendix A to the Hydro's November 15, 2018 application on Marginal Cost Study and Rate
4		Structure Review.
5		
6		
7	Α.	Please refer to Table 1 for the marginal generation capacity cost in comparative format to Figure
8		7 of the 2018 Marginal Cost Study Update.

Table 1: 2021 Marginal Cost of Generating Capacity Newfoundland and Labrador Hydro

GENERATION

	Devenue have	Investment	Charges on Capital (\$/kW-
Investment Cost (\$/kW)	Parameters	Costs per kW	year)
Direct Facility Investment		2,531.79	98.40
General/Common	8.53%	215.86	13.63
Materials and Supplies	1.19%	30.10	1.17
Fuel Inventory		24.04	0.93
Working Capital (%/FOM)	2.52%	1.41	0.05

			Cost Elements
Charge Rates (%)	Parameters		(\$/kW-year)
Carrying Charges, Direct	3.89%		100.56
Carrying Charges, Gen/Com	6.31%		13.63
Insurance Costs	0.11%		3.11
FOM Rate (\$/kW-year)	\$35.64		35.64
A&G Cost Rate (% OM)	56.35%		20.08
	All-In Cost/kW-y	ear:	173.02
Costs of Reserves (%	6 of Supply)	6.00%	27.68
Cost Effect of E(Forc	ed Outage)	2.09%	4.28
Adjusted All-Inj tota	l Cost/kW-year:		204.99

Please refer to Table 2 for the marginal transmission capacity cost in comparative format to
 Figure 7 of the 2018 Marginal Cost Study Update.

Table 2: 2021 Marginal Cost of Transmission Capacity Newfoundland and Labrador Hydro

ISLAND TRANSMISSION

		Investment Costs	Charges on Capital
Investment Cost (\$/kW)	Parameters	per kW	(\$/kW-year)
Direct Facility Investment		520.20	22.74
General/Common	3.15%	16.41	1.04
Materials and Supplies	1.06%	5.53	0.24
Working Capital (% OM)	7.27%	0.72	0.05

		Cost Elements
Charge Rates (%)	Parameters	(\$/kW-year)
Carrying Charges, Direct	4.37%	23.03
Carrying Charges, Gen/Com	6.31%	1.04
Insurance Costs	0.03%	0.18
FOM Rate (\$/kW-year)	1.03%	5.34
A&G Cost Rate (% OM)	85.33%	4.56
	All-In Costs (\$/kW-year)	34.14

Please refer to Table 3 for the marginal distribution capacity cost in comparative format to
 Figure 7 of the 2018 Marginal Cost Study Update.

	_	2017 Dollars per kW
(1)	Marginal Investment per kW	\$199.68
(2)	With General Plant Loading (1) x 1.0796	215.57
(3)	Annual Economic Carrying Charge Related to Capital Investment	6.48%
(4)	A&G Loading (plant related)	0.78%
(5)	Total Annual Carrying Charge (3) + (4)	7.26%
(6)	Annualized Costs (2) x (5)	15.65
(7)	O&M Expenses	3.00
(8)	With A&G Loading (7) x 1.6981 (Non-plant)	5.09
(9)	Subtotal (6) + (8)	20.74
	Working Capital	
(10)	Material and Supplies (2) x 0.39%	0.84
(11)	Prepayments (2) x 0.12%	0.26
(12)	Cash Working Capital Allowance (8) x 6.219	6 0.32
(13)	Total Working Capital (10) + (11) + (12)	1.42
(14)	Revenue Requirement for Working	
	Capital (13) x 9.50%	0.13
(15)	Total Distribution Substation Costs (9) + (14)	20.87

Table 3: Marginal Distribution Capacity Cost1Newfoundland Power Inc.

Please refer to Newfoundland and Labrador Hydro's response to IIC-NLH-028 for further detail
 regarding the marginal energy and capacity costs as they relate to the Electrification, Demand
 and Conservation Management Plan.

¹ Table 3 was provided in Newfoundland Power's response to PUB-NP-079, att. B, p. 3 of 3 of the Rate Mitigation Options and Impacts Reference.