Per Schedule 1, page 4, please provide a table showing a full summary of each CA Energy 1 Q. 2 Consulting marginal cost estimate prepared for Hydro (e.g., 2015 report, 2018 report, 2021 3 Update, etc.) for each of the marginal cost of Island Interconnected Energy, Demand, and 4 blended Energy/Demand, including any estimates prepared of seasonal, off-peak, on-peak, 5 shoulder period or other period. 6 7 A. Table 1 provides a summary of each Christensen Associates Energy Consulting ("CA Energy") 8 9 marginal cost estimate prepared for Newfoundland and Labrador Hydro.

Table 1: Summary of CA Energy Consulting Marginal Cost Updates<sup>1</sup>

Update for the Year		Energy and Reserves (\$/MWh)		Capacity Costs (\$/MWh)		All-in Marginal Costs (\$/MWh)	
<b>2019</b> <sup>2,3</sup>		NEISO	NY, Zone A	Gen	Trans	NEISO	NY, Zone A
	All Hours	39.7	41.4	8.2	4.5	51.1	52.8
	Peak Hours	45.9	46.3	9.8	6.7	60.8	61.3
	Off Peak Hours	34.0	36.8	6.7	2.4	42.3	45.1

2018 Marginal Cost Update for the Year 2021 <sup>4</sup>		Energy and Reserves (\$/MWh)	Capacity Costs (\$/MWh)		All-in Marginal Costs (\$/MWh)
			Gen	Trans	
2-Period Model Winter <sup>5</sup>	All Hours	59.9	116.5	11.8	188.2
2-Perioa Wiodei Winter	Peak Hours	61.8	174.5	17.9	254.2
3-Period Model Winter <sup>5</sup>	Off Peak Hours	56.6	19.8	1.6	78.0
	All Hours	59.9	116.5	11.8	188.2
	Peak Hours	56.1	216.3	23.0	295.4
	Shoulder Hours	69.5	109.6	10.2	189.3
	Off Peak Hours	56.4	19.8	1.6	77.8
2-Period Broad Peak	All Hours	24.9	1.9	0.1	26.9
Model 6 Non-Winter	Peak Hours	25.5	2.5	0.1	28.1
	Off Peak Hours	24.1	1.0	0.0	25.2
2-Period Narrow Peak	All Hours	24.9	1.9	0.1	26.9
Model <sup>7</sup> Non-Winter	Peak Hours	29.2	3.4	0.2	32.8
	Off Peak Hours	23.1	1.2	0.1	24.4

2021 Marginal Cost		Energy and Reserves (\$/MWh)	Capacity Costs (\$/MWh)		All-in Marginal Costs (\$/MWh)
Update for the year 2024 <sup>8</sup>			Gen	Trans	
Winter <sup>5</sup>	All Hours	55.0	109.0	13.0	177.0
Non-Winter	All Hours	14.0	2.0	0.0	16.0

<sup>&</sup>lt;sup>1</sup> In each of the CA Energy Consulting marginal cost updates noted in the table, the underlying marginal cost of energy is based on the opportunity cost of the market value of export sales.

<sup>&</sup>lt;sup>2</sup> "Marginal Cost Study - Part I," Newfoundland and Labrador Hydro, December 29, 2015.

<sup>&</sup>lt;sup>3</sup> "Marginal Cost Study - Part II," Newfoundland and Labrador Hydro, February 26, 2016.

<sup>&</sup>lt;sup>4</sup> "Marginal Cost Study and Rate Structure Review," Newfoundland and Labrador Hydro, November 15, 2018.

<sup>&</sup>lt;sup>5</sup> December to March.

<sup>&</sup>lt;sup>6</sup> The Broad Peak Model incorporates a broad peak period of hours ending 9-22.

<sup>&</sup>lt;sup>7</sup> The Narrow Peak Model incorporates a narrow peak period of hours ending 14-20.

<sup>&</sup>lt;sup>8</sup> "Marginal Cost Study Update - 2021, Summary Report," Newfoundland and Labrador Hydro, March 7, 2022.