1	Volume 2: Cost of Service Study	
2 3	Q.	Please explain whether the demand charge paid by Memorial University is higher
4		than the demand charge that would be paid if the University funded the cost of
5		transformation. Please explain why.
6		
7	A.	Service to Newfoundland Power's customers is normally provided at secondary voltages
8		ranging from 120V to 600V. ¹ Delivery of service to customers at secondary voltages
9		requires transmission (i.e. 33 kV to 138 kV) and primary distribution (i.e. 4 kV to 25 kV)
10		transformers. The cost of providing the necessary transmission and primary distribution
11 12		transformers is included in determining Newfoundland Power's customer rates.
12		Customers that have their own transmission or primary distribution transformers are less
13		costly to serve than customers that require Newfoundland Power to provide the necessary
15		transformers. As a result, customers with their own transmission and primary distribution
16		transformers receive a lower demand charge than customers that do not have their own
17		transformers.
18		
19		Where a customer's service is at a transmission voltage (i.e. 33 kV to 138 kV), the
20		customer's demand charges are reduced by \$0.90 per kVA. Where a customer's service is
21		at a primary distribution voltage (i.e. 4 kV to 25 kV), the customer's demand charges are
22		reduced by \$0.40 per kVA. ² These lower demand charges reflect lower costs of providing
23		service to customers who have their own high-voltage equipment and power
24		transformers.
25		
26		Memorial University owns and maintains 12.5 kV primary distribution equipment and
27		transformers that serve load throughout the university campus. As a result, Memorial
28 29		University's demand charges are currently reduced by \$0.40 per kVA. If Memorial University were to fund the cost of all 66 kV transformation serving the university, its
29 30		demand charges would be reduced by \$0.90 per kVA.
50		demand enarges would be reduced by \$0.70 per K VA.

¹ See Newfoundland Power's *Schedule of Rates, Rules and Regulations, Effective July 1, 2023, 5. Service Standards – Metered Services,* page 3.

² See Newfoundland Power's *Schedule of Rates, Rules and Regulations, Effective July 1, 2023, 9. Charges,* paragraph (k), page 9.