

Request to Appear as a Delegation

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Name of Delegation:	Richard Maddock
Name of Primary Contact Person:	Richard Maddock
Name(s) of Delegation Member(s) in Attendance:	Richard Maddock
Purpose of Delegation:	<p>To discuss the newly implemented fee structure for electric vehicle charging on city operated chargers in Port Moody with a view to creating a more equitable and sustainable plan.</p>
Details of Request:	<p>The new fee structure for electric vehicle charging in the city of Port Moody makes charging an EV more expensive than filling up on gas.</p> <p>It is the most expensive in the surrounding area, costing as much as four times what other cities are charging, as it fails to take into account when a charger is being shared and therefore charging at half the normal rate. It is a disincentive to EV ownership, particularly for those living in condo buildings with no access to home charging.</p> <p>The current fee structure charges for the amount of time spent charging, rather than the amount of electricity delivered. It is more logical to charge by the kilowatt hour (kWh) than by time, and at a rate which is closer to a home electricity bill. Alternatively, it may be more helpful to follow cities like North Vancouver in only applying fees during peak times (9am - 6pm), thereby making chargers available for free to local residents in the evening. This discourages all day parking in EV spots, whilst still allowing residents of Port Moody to choose greener methods of transport without incurring unreasonable financial consequences.</p>
Additional Information in Support of Request:	

EV Charging in Port Moody

1.



2.



3.

City	Level 2 \$/hour	Hours of operation
Port Moody	\$2	24 hours
North Vancouver	\$2/\$1	9am - 6pm
Burnaby	\$1/Free	
Coquitlam	\$1	24 hours

4. \$5.90 for 11.06kWh means a fee of \$0.53 per kWh

18kWh needed to travel 100km so:

$\$0.53 \times 18 = \9.60 for 18kWh or 100km of range

Gas powered Kia Soul gets 7.9L/100km so divide \$9.60 by 7.9 to get the equivalent cost per L = \$1.215/L equivalent.

5. Based on 2017 Kia Soul - 18kW/100km (EV) and 7.9L/100km (gas) where gas is at \$1.405/L (average price in Vancouver, November 2019)

Charging speed	Charging fee per hour	Price per kWh	Cost of 100km (18kWh)	Gas price equivalent
3kW	\$2	\$0.67	\$12	\$1.519/L
6kW	\$2	\$0.33	\$6	\$0.759/L
3kW	\$1	\$0.33	\$6	\$0.759/L
6kW	\$1	\$0.17	\$3	\$0.380/L