REQUESTOR NAME: **Adam Pommer – Suncor Energy**
INFORMATION REQUEST ROUND NO: **1**
TO: BRITISH COLUMBIA HYDRO & POWER AUTHORITY
DATE: **April 26, 2021**
PROJECT NO: **1599190**
APPLICATION NAME: **British Columbia Hydro and Power Authority (BC Hydro) Public Electric Vehicle (EV) Fast Charging Rate Application**

1.0 Network details:

1.1 In order to assess the total cost of ownership and return on investment consistent with the application, Suncor request that the applicant provide additional details related to the following:

1.1.1 The number of planned EV charging locations;

1.1.2 the number of electric vehicle charging posts – the maximum number of EVs that can be charged at any point in time per location;

1.1.3 The proposed equipment including the brand, make, model number and specification, particularly the maximum power capability of each electric vehicle charging post and what the applicant intends to set them at recognizing that the active power going to the EV supply equipment can be limited by the operator.

1.2 Suncor request that the applicant provide cost details pertaining to the utility service, including but not limited to permitting, equipment upgrades, labour cost required to energize each location.

1.3 Can the applicant provide a response to whether the utility service upgrades and equipment deployed will be the bare minimum (not to exceed 150 kW) necessary to meet the Medium General Service designation. If additional capacity is built in, please provide a rationale for why and details as to the number of additional EV charging posts that can be added based on the maximum capacity of the utility service proposed at each location.

1.4 Suncor asks that the applicant provide details explaining how each charging site is metered. For example, will the applicant use the site host's meter or, will each of the applicant's charging location be separately metered on a site basis, or individually metered at each charge post.

1.5 Does the applicant intend to apply for a rate review to allow for a higher charging tariff to be applied to consumers in the event that a current or future charging location is later designated as a Large General Service?

2.0 Suncor seeks further details related to section 4.2 (Cost Recovery Calculations

2.1 Utilization rate: Proponent suggests 3.7% utilization (50kW) – please provide details on assumptions related to number of EV vehicles, time spent at the charger, and kWh delivered in each charge post

2.2 Maintenance (associated with metering, repair and other station maintenance work) of $8,000 per year per station – please provide documentation proving this cost structure

2.2.1 Does this cost include customer service, software, payment and fees?

2.2.2 Does the cost include spare parts inventory?

2.2.3 Is maintenance of the EV charging network completed by BC Hydro employees, or a 3rd party maintenance provider?

2.3 Please provide details on what share of the on-the-go/fast charging market (non-residential charging) the applicant assumes, when predicting a 3.7% utilization and 6.5% for their 100kW units

3.0 Regarding 100kW service outlined in section 4.2 – proposed rate of 27 cents per minute

3.1 Please provide details on the locations that will have 100kW chargers? – E.g. number of charge posts per location, combination of 50kW and 100kW, separation of metering (metered at host vs. by location vs. by charge post)

3.2 Can the applicant provide a breakdown of the cost recovery calculation used to establish the 27 cents per minute recovery, which is designed to recover their utility costs at this charging rate?

3.3 Please provide details on the expected maintenance, capital, utility, and other costs related to the higher power chargers

4.0 Please provide details around the 6.5% utilization expectation in the BC market to recover utility costs at a rate of 27 cents per minute – as outlined in the case developed for 50kW chargers

5.0 Capital cost calculations

5.1 Please provide details on the presented $85,000 per dual station as compared to the gross of $235,000 per duel station prior to NRCan funding

5.2 Can you please break down the funding contributions that have been provided, or anticipated to be provided, by third party entities (including, but not limited to municipal, provincial, federal, or private foundations)?

6.0 Re: NRCan funding obligations: Section 8: REPAYMENT OF CONTRIBUTION – 8.1 For a period of ten (10) years commencing on the day immediately following the Project Completion, the Proponent shall pay to Canada annually the Profit arising from the Project in the same ratio as that of Canada's Contribution

to the Total Project Costs, except that Canada's share shall not exceed its Contribution.

6.1 To fully assess the cost recovery expectations as established in the application, please provide your expectations for the 10-year business model – pricing, utilization, and costs

6.2 Please outline at what year, using your proposed rate structure, you will be profitable, and therefore begin to make repayment of the federal loan provided, as outlined in section 8 of your agreement with Natural Resources Canada