

November 7, 2019

Sent via email/eFile

Mr. Fred James  
Chief Regulatory Officer  
Regulatory & Rates Group  
British Columbia Hydro and Power Authority  
16<sup>th</sup> Floor – 333 Dunsmuir Street  
Vancouver, BC V6B 5R3  
[bchydoregulatorygroup@bchydro.com](mailto:bchydoregulatorygroup@bchydro.com)

**RE: Project Number 1599004 - British Columbia Hydro and Power Authority – Application to Amend Net Metering Service under Rate Schedule 1289 – Intervenor Evidence**

Dear Mr. James:

As per the Regulatory Timetable, the City of Fort St. John is providing Intervenor Evidence to support the City's intervenor status in the above noted BCUC application.

BC Hydro's responses to Intervenor and BCUC Information Requests have continually referenced a load offset for customers.

The City of Fort St. John is a large customer, with many meters under their corporate account, with only a single meter (the City's Micro-Hydro Project) with a surplus energy. This surplus energy is a small percentage of the overall energy consumed by the City.

The following provides a summary of 2018 energy consumption and production by the City:

Total Corporate Electricity Consumption	15,765,764 kWh
Net Energy Outflow – Micro Hydro Meter	397,680 kWh
Net Corporate Electricity Consumption	15,368,084 kWh
Energy production as a percentage of overall consumption	2.5%

Further, the City has many single meters that have a greater individual annual consumption than the production by the Micro-Hydro Meter. One example is the Wastewater Treatment Plant (2018 figures below):

Total Wastewater Treatment Plant Electricity Consumption	1,299,420 kWh
Net Energy Outflow – Micro Hydro Meter	397,680 kWh

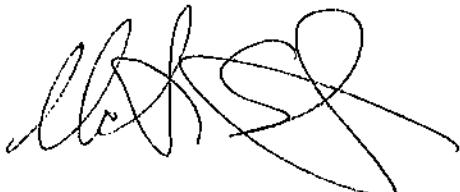
Net Corporate Electricity Consumption	900,840 kWh
Energy production as a percentage of overall consumption	30%

As demonstrated, the energy production at this station is a very small percentage (2.5%) of the City's annual consumption. Further, it is still less than 50% of other major energy consumption accounts. From an overall perspective, the City's project is meeting the program objectives of a load off-set project.

The nature of the City's project represents consistent power. The Micro-Hydro project relies on effluent outflow from the wastewater treatment plant, which has a consistent annual base flow. For January 2018 – August 2019, the average energy outflow was 102,450 kWh/two month billing period. The standard deviation is 8,000 kWh, or approximately 8% of the energy produced. This low variability, especially when considering seasonal impacts of most net metering projects, provides evidence that the power could be considered firm. In 2019, the energy outflow was the same in August and February (differing by 120 kWh), demonstrating that winter and summer energy production is relatively consistent.

The above information is presented to provide BC Hydro and the BCUC an understanding of the City's overall energy consumption and generation profiles.

Sincerely,



Victor Shopland

General Manager of Integrated Services