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**Date Submitted:** June 01, 2019

**Proceeding name:** BC Hydro Net Metering Service Amendment Application

**Are you currently registered as an intervener or interested party:** Yes, Interested Party

**Name (first and last):** Rahul Chander

**City:** [REDACTED]

**Province:** British Columbia

**Email:** [REDACTED]

**Phone number:** [REDACTED]

**Comment:**

I am building a energy efficient Energy Step Code 5 compliant home. A significant way for me to offset cost and care for the environment is by reducing reliance on fossil fuels (natural gas, gasoline, etc.). I intend to have two EV L2 chargers at home and am heavily counting on fair rates as a net-metering solar customer. I expect to produce lots of electricity during the day, feed it into the grid while I am at work with my car, and then when I come home at night, recoup that electricity to charge my car. To sell energy at a lower cost to BC Hydro during the day and then be forced to buy it at higher cost at night just seems so unfair. BC Hydro should be looking at storage mechanism to store excess energy from solar customers and also from mega producers such as California. Did you know, that California is forced to get rid of their excess solar power during the day, and in order to stabilize their grid, they need to cut production for solar arrays instead of natural gas turbines. Furthermore, because California has so much excess power during the day, they are forced to dump it to Arizona. In fact, California pays Arizona to consume the excess power which is mind-boggling! It doesn't end there! Arizona is happy to receive power and corresponding \$\$ incoming from California, however, to prevent destabilization of their own grid, Arizona then cuts off solar production within Arizona. This is all because neither California nor Arizona have enough storage capacity and they are unable to throttle down coal/natural gas turbines fast enough when solar power peaks. I really, BC Hydro is able to learn from California's example and avoid their mistakes. I have the following recommendations which can be applied as small incremental steps, policy decisions, and large investment: 1) BC Hydro to heavily invest in storage capacity - either reservoir pumping, batteries, or molten salt technology. 2) Consider buying excess power from California during the day so that California doesn't have to turn off solar producers, nor cause Arizona solar producers to turn off. A solar producer being asked to throttle down is like shooting yourself in the foot. 3) Ensure rates remain identical for all BC customers whether buying or selling power. Do not apply arbitrary rules to profit from tax-payers. 4) Improve relations with Alberta and start exporting excess solar power to them. so that Albertans can get off their non-renewable power sources. 5) Consider diversifying energy generation sources to wind, geothermal to smooth-out ebbs/valleys due to solar output. 6) Provide robust and easily accessible charging infrastructure. Provide incentive for development of EV-back-to-grid technologies where EVs can

store excess electricity during the day, and discharge during the driving rush-hour. 7) Allow net-metering consumers with excess solar power to use those credits to charge their EVs anywhere in BC and not just at consumer's net-metering location. A classic use-case can be: I supply excess power to the grid during the day from my net-metering location at my home collecting X credits. Then when I am at work, EV charging infrastructure allows me to spend those X credits to charge my EV at work-location, (i.e. independent of net-metering location). I really hope BC Hydro is able to make some smart decisions that work towards incentivizing folks to get renewable sources of power and help our environment, Canada's commitment to Paris Agreement.