

From: Jock Gill
To: [PUC - Clerk](#)
Subject: Petition to be included as an interested party
Date: Thursday, July 12, 2018 9:04:25 AM

Ms. Whitney,

“Vermont has taken another step toward increasing the number of electric vehicles on its roads.

The state’s Public Utility Commission said this week that it has began a formal investigation into how the state and its public utility companies can promote electric vehicle ownership without adverse impacts on non-electric vehicle ratepayers.

The investigation is a feature of the general transportation bill, H.917, which was signed into law this May. It will culminate in a report to the legislature in July 2019, and will include recommendations for legislation to address barriers to electric vehicle usage.”

On the question of increasing EV use in Vermont, I have a few points I would like the PUC to consider:

1. The notion that EVs impose burdens on others is a canard, a hoax or fabrication if you prefer. People who insist on burning fossil fuel for transportation impose very significant burdens on the rest of us — ie health issues and environmental dangers. Is this reasonable?
2. EV’s with many fewer moving parts are cheaper to operate, so we should be making them available to ALL income levels. My Bolt, using GMP residential rates, costs me less than 4 cents per mile.
3. When my PV is installed next month, my average cost per kWh for the next 25 years will be less than 12 cents. This means I will drive for less than 3 cents per mile for energy. This will save me over \$1,000 per year. All Vermonters should be able to benefit from such savings.
4. Both EVs and PV should be broadly encouraged by the state to reduce costs, improve quality of the grid, and improve environmental outcomes.
4. EVs will be integrated into the grid. An EV battery is typically about 4X the size of a Tesla Powerwall. Since GMP likes Tesla Powerwalls, they should like EV batteries even more. This should be planned for and encouraged.
5. EV range will, in the next few years, exceed 400 miles.
6. EV batteries will, in the next few years, be able to fully charge in less than 10 minutes, perhaps less than 5 minutes.
7. All rebates for EVs should be applied at the time of acquisition, as Peter Welch is

proposing. If possible, a way should be found to apply PV rebates at the time of installation.

All in all, we should look at the bigger picture. How will EVs, PV, batteries, and artificial intelligence be integrated such that the results are greater than the sum of the parts? The futurist Tony Seba has a very interesting presentation of this subject. It will be a mistake to only focus on a single element of this emerging game changing system. This new energy system will also include heat pumps, hybrid hot water heaters, bi-directional level II chargers, smarter electric service devices, smart home controllers such as Nest thermostats, and things not yet imagined.

Regards,

Jock

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Regenerate the commons!