

RE: [WG Listserv] For Your Information - Pepco EV Charging Stations

Keith Gillis <keith.gillis@verizon.net>

Tue 1/11/2022 10:26 PM

To: Washington Grove Neighborhood Listserv <wgrove@googlegroups.com>

Cc: Dennis Kirschbaum <dennisk600@me.com>; Rebekka Popov <rebeekapopov@icloud.com>; Christine Dibble <christinedibble@outlook.com>; PATRICE KLEIN <patriceklein@hotmail.com>; John Compton <johncompton@me.com>; Darrell Anderson <deanderson47@verizon.net>; Barbara Raimondo <baraimondo@me.com>; Gray Yachup <gyachup@gmail.com>; David Cosson <dcosson@rcn.com>; Tom Land <thomasland@outlook.com>; bruce rothrock <brucerothrock@msn.com>

As a driver of an electric car (Nissan Leaf), my question is what type of charging equipment and how many stations is PEPCO proposing to install?

Level 2 (240 volt AC, typically 30 amp, 7 kW) can charge at a rate of 25 miles of range for every hour of charge. An EV with a range of 225 miles will take about 9 hrs to fully charge. The most common Level 2 chargers use a J2772 connector, same as Level 1 (115 Vac). Some businesses offer Level 2 charging for free. We have a Level 2 station installed in our garage.

A DC Fast Chargers (sometimes called Level 3) are typically 50 kW. DC Fast Charge can charge a vehicle from 30% to 80% full charge in 20 to 30 minutes. (Charging beyond 80% with DC is not recommended because the charging regulator in the car slows down the charging rate to Level 2 rates to prevent damage to the battery.) Fast Charging is useful for travelers, because they can quickly charge and get back in the road. The most common DC Fast Chargers use a CHAdeMO connector or a Tesla connector. They are not compatible. Fast Chargers are expensive to install, so there will be an incentive to maximize use to pay for it. DC Fast Charging costs more than Level 2 charging per minute for obvious reasons.

Why is this important? If only Level 2 stations are installed, then expect there to be EVs plugged in for several hours at a time or overnight. We would want to have more than one station available to ensure that a Town resident who needs to charge can do so. Since this will be on public property, I don't think charging can be limited to only Town residents.

If DC Fast Chargers are available, the charging time per vehicle will be significantly less, but expect more out-of-town visitors wanting to charge.

I think a good choice would be to have both Level 2 and Fast Chargers available.

I fully support having EV charging stations installed. Whether PEPCO is the best choice is debatable. The Town will have to decide if the Town Hall is the best location. I think the commercial corner would make more sense because there is more space and more parking available, and there is already commercial traffic.

Keith Gillis
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On Jan 10, 2022 5:48 PM, bruce rothrock <brucerothrock@msn.com> wrote: