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Charging at home is crucial to EV Adoption

This Electric Vehicle Infrastructure Project Funding solicitation preview from the CEC is a much-needed part of California's goal for Electric Vehicle Adoption. The problem is that while \$8.5 million is a generous amount of money, it will not go far in its broad reach. I suggest there be a tighter theme for this project. Since the goal is to provide charging at multi-unit dwellings, which are long dwell time locations, the focus should be for providing level 2 EVSE with J1772 plugs and/or charging capability at level 1 through electric outlets. (Tesla cars are sold equipped with adaptors for J1772 plugs).

One of the major impediments to apartment dwellers adopting the EV lifestyle is the inability to "charge at home". Charging at home for single family dwellings is with either level 2 chargers (240 volts) that are installed or plugging into an available outlet with the charger that comes with every EV (most at level 1 or 120 volts). Limiting this solicitation to mimic home charging is also the most affordable for EV drivers.

DC Fast Charging is a very important component of Transportation Electrification, however, not all electric vehicles are equipped for DC Fast Charging and it can be very expensive as a source of energy. DC Fast Chargers are also more expensive to procure and require 3-phase power that is not usually available in residential neighborhoods. DC Fast Charging is also, as its name says, fast compared to level 1 and 2 charging. Some of the first commercially available pure battery electric vehicles can charge from near empty to near full in as little as 30 minutes. This could lead to problems at apartments where people plug in and walk away from their vehicles for long periods of time. DC Fast Charging mimics gas stations, and they don't necessarily belong where people live.

In order to have the biggest impact for the project budget, please focus on the long dwell time of multi-unit dwellings and limit this project to level 2 EVSE and/or outlets for level 1 charging.