**Topic 1: Public (City provided) EV Charging Infrastructure (Catherine)**

A. Provide recommendations for the design of a **Public EV Charging Program** that considers:

**GUIDANCE ON UPFRONT FUNDING**

* alternative funding such as advertising-funded charging stations to assist in offsetting the costs of EV charger installations.
* collaborative multi-city EV charger buy programs across US and/or Valley to lower up front equipment cost (i.e, leverage driveevfleets.org)
* Grant and federal funding options (particularly in light of infrastructure bill)
* Partnerships

**GUIDANCE ON INSTALLATION**:

* EV siting criteria to help in identifying a list of recommended areas for additional charging infrastructure installations on City-managed properties—including the potential for charging infrastructure in the right-of-way/curbside/on-street.
* Equity considerations for mobility needs (also being discussed in Equity sub-committee)
* Potential allocation of L1/L2/DCFC
* local utility coordination and collaboration on EV charger installs to assist with utility goals and leverage economies of scale.
* Annual Deployment targets to coincide (or proceed) 2030 EV growth projections
* pilot EVSE programs to demo new EVSE providers
* street light right-of-way charging to assist with grid efficiency and equity issues to provide more access to multi-family residences

**GUIDANCE ON OPERATION** :

* alternative charging rate models- cost-sharing/user-fees (no cost vs paid, and other variations) for public EV charging sessions.
* other charging recommendations such as streetlight right-of-way charging, vehicle to grid, equity issues, and support for nearby multi-family residents.
* optimization for the grid considering time-of-use loads and demand charges considering use cases for Level 1 EV charging infrastructure.

**Recommendations from other Roadmaps:**

* EQUITY has to be embedded in EVSE siting and deployment decisions
* Develop EVSE siting criteria and deployment strategies
* Identify targets for EVSE installs (L1/L2/DCFC) to coincide with 2030 EV growth projections
* Expand curbside/on-street parking EVSE installations
* Offer targeted incentives for customer/public EVSE and installs
* Implement pilot EVSE programs to demo new EVSE providers

**Workplan:**

* What could be defined by next meeting:
* What this will look like? How will it be organized?
* Who would do it?
* Overview of sub-committee steps in Dec & January
* What information resources are available?

**Topic 2: Workplace and Business EV Charging Infrastructure:** (LEADS: Court Rich, Autumn Johnson)

1. **Produce a recommendation for potential incentives and requirements for EV Ready Building Codes or zoning ordinances considering:**
   * recommendations to businesses on the cost and design of EV charger installs
   * streamlining or expedited permitting to use as an incentive
   * Safety or design considerations to be included in the permitting process
2. **Provide recommendations that will strongly encourage daytime/workplace charging hosted by existing employers including:**
   * a strategy on how to coordinate education and outreach efforts to small, medium, large scale businesses (funding, benefits, incentives); including leveraging commercial property owners/management companies to reach multiple businesses.
   * a value proposition to include daytime/off peak incentives for promoting daytime/workplace charging highlighting benefits such as the lower carbon intensity of daytime electricity, lower cost of daytime energy, reduction of range anxiety, and mitigation of “duck curve” impacts by shifting loads from the early evening to the daytime.
   * types of incentives that would influence businesses.
   * coordination with businesses to provide additional charging along transit corridors and city and/or federal funding incentives.
   * shovel-ready ideas if funding available through infrastructure bill.
   * use cases for Level 1 uses for longer term charging

**Workplace and Business EV Charging Infrastructure Recommendations from Roadmaps:**

* Develop employee survey to identify EV ownership and charging needs
* Create EVSE installation guide for use by business owners
* Launch an employee and business workplace EVSE awareness and education program
* Designate dedicated employee/workplace charging areas
* Provide incentives to business for EVSE and installations to offset the costs

**Committee Comments in Meeting 1**

* Committee Member Sprague requested that a clearinghouse information repository be developed specifically for property owners and businesses to identify types of EV charging infrastructure, installation process and financing options.
* Committee Member Johnson suggested to review options to incentive business and employees to charge during certain times of the day which would help to manage the electric grid during peak periods.
* Committee Member O’Brien suggested that education and outreach efforts to businesses is crucial for fleet transition, EV charging and economic benefits. Provide business outreach on incentives, funding opportunities, and utility offerings.
* Committee Member Potter suggested to consider developing different business education and outreach strategies based on business size and outreaching to the business property owner and tenants to meet the needs of multiple business owners at once.
* Committee Member Johnson suggested to consider providing incentives for people that work during nighttime hours as well as for those employees that work during day-time hours.
* Councilwoman Ansari suggested identifying a local business that has been successful in the deployment of EV charging stations to request feedback and input to the subcommittee.

**Workplan:**

* What could be defined by next meeting:
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**Topic 3: Home Charging Infrastructure (Caryn, Tim)**

A. **Produce a recommendation for potential incentives and requirements for EV Ready Building Codes or zoning ordinances including:**

* + streamlining the EV charger permitting process for new construction, retrofit and major upgrades of multi-family, single-family, and commercial properties.
  + opportunities/incentives to developers and builders to provide for future proofing.
  + an education and outreach program for residential builders, developers highlighting the benefits of EV charging and funding sources.
  + a list of building and development stakeholders (home builders, multi-family and commercial developers) to use in communicating and coordinating with to gain their support and gather input regarding best practices for EV charging implementations.
  + funding strategies for EV Ready Building Codes and zoning ordinances to be used to help incentivize building communities and reduce barriers to MF residents.

B. Identify the content for a clearinghouse/central data/information source for multi-family installation that could provide information on how to find right product for their property and financing options.

**Home Charging Recommendations from other Roadmaps**:

* Develop EV Ready Building Codes for new construction at single-family and multi-family buildings
* Provide incentives to home builders and/or electricians to offset the cost of electrical conduits on new single-family and multi-family developments
* Provide incentives to homeowners for the purchase of EVSE and assist in offsetting installation costs
* Streamline the EVSE installation permitting process
* Produce an EVSE installation guide identifying the process

**Committee Member Comments:**

* Committee Member Rich requested to separate out EV ready building codes, and he commented that utility companies should lead the discussion on rate design and managing electrical demand—those topics not be a focus of the subcommittee.
* Committee Member Rich suggested recommending EV ready building codes and incentives to deploy EV chargers and reviewing approaches to streamlining the permit process.
* Committee Member Sprague commented EV charging education is important to provide to the building community and association groups to further assist in the advancement of EV charging installations. Multi-family residents are restricted and lack access to EV charging and alternative funding sources should be reviewed to assist in the EV charging deployment to these residents and properties.

**Workplan:**

* What could be defined by next meeting:
* What this will look like? How will it be organized?
* Who would do it?
* Overview of sub-committee steps in Dec & January
* What information resources are available?