



C2C: Clean Energy to Communities

U.S. DEPARTMENT OF ENERGY

Planning and Funding for Electric Vehicle Infrastructure Deployment



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Workshop schedule for the 6-month cohort



The Role of Local Government in Accelerating EV Charging Infrastructure Deployment

July



Equitable Deployment of EV Charging Infrastructure

September



Contracting with EV Charging Providers and Setting Fee Structures

November



August

Funding EV Charging Infrastructure



October

Local Municipal Codes for EV Charging Infrastructure



December

Peer Showcase with Consulting and Coaching

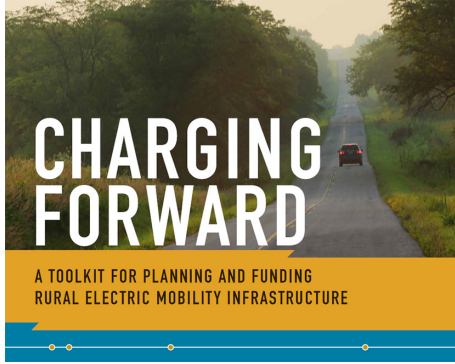


1:1 TA Session

Local governments have multiple tools and strategies in their toolbox to prepare for transportation electrification.



There are various federal funding opportunities out there, CFI and beyond!



<https://www.transportation.gov/rural/ev/toolkit/ev-infrastructure-funding-and-financing/federal-funding-programs>



<https://www.transportation.gov/urban-e-mobility-toolkit/e-mobility-infrastructure-funding-and-financing/funding-table-dataset>

Community engagement to understand local context, challenges, and needs is the first step to overcoming barriers to access.

Seattle City Light

- Municipal utility launched community-wide survey to ask residents where they wanted EV chargers

Watts Rising

- Neighborhood plan for community-led infrastructure development addresses multiple community needs at once and includes 10 electric buses, electric vanpool and carshare, plus solar, trees, bike paths, affordable housing, and more

Contra Costa EV Readiness Blueprint

- Community engagement materials, presentations, toolkits, and best practices for the plan are all available online

Portland Equity Toolkit

- Guiding questions and activities for applying an equity lens to local government decision making

Clear municipal codes and processes can streamline station installation times

Building Codes

- EV-ready building codes can require new developments or major renovations to incorporate EV chargers

Zoning Codes

- Zoning codes should include specific definitions and uses for various levels of EV chargers to clarify where chargers are permitted

Permitting Processes

- Permitting processes should incorporate best practices to reduce the time it takes to permit and install charging stations

Parking Codes

- Parking codes should clarify station design guidelines and set guidelines (parking time, vehicle type) for usage of station-installed spaces

Tips to Improve Procurement of EV Charging Stations

Project scope should be written as guidelines rather than requirements if you don't intend to own the infrastructure. Third party EVSE providers will likely want to make decisions around which sites, technology, and configuration would provide the optimal return on their investment.

Local governments should provide a list of installation sites and request installation cost for each site. Vendors are more likely to choose sites that have lower cost of installation and higher expected utilization.

It is a good idea to include a map, construction drawings, and/ or photos of the proposed EVSE installation site as an appendix to the RFP. You can also add available information about things like transformer capacity and voltage.

Local governments should be clear with any expectations of a low/no cost proposal as well as how the budget will be evaluated.

Local governments should provide any information on funding sources (and any associated requirements, such as NEVI compliance for projects using federal dollars). They should also specify if they have preferences related to revenue sharing and consider whether to charge providers for use of public land.

Local governments can specify how they prefer technical and maintenance issues to be resolved, who will be responsible for resolving them, and timelines for repair. These may impact cost, and may be a separate contract.

Effective fee structures can help recuperate installation and operations costs

Electricity Rate

- May fluctuate
- May be under an EV-specific rate

Equipment and Installation Costs

- Amortized over length of station usage

Operations and Maintenance Costs

- Maintenance (labor and parts)
- Projected staff time

Networking Costs

- Should be included; often on annual basis

Estimated Usage

- Can significantly impact the planned fee structure

Demand Charges

- Can be significant for DCFC

Still trying to determine next steps?

Potential next steps for your community

- Engage with residents to understand their needs and interests
- Engage with COGs and regional MPOS to understand your region's approach(es) to planning
- Create a formal EV plan to address existing barriers to readiness in your region or jurisdiction
- Create a stakeholder working group to inform plan development and socialize results of the planning process
- Educate stakeholders and private entities on available charging solutions, costs, and incentives