



Drive Forward Infrastructure meeting

Navigating a Charging Infrastructure Project with Eye on Funding
August 10, 2026 1:00-3:00 PDT

Agenda

- Introduction
- Group Presentation - Path to Charging Infrastructure Project Completion
 - A. Initial project concept
 - B. Moving project forward
 - C. Detailed project preparation
 - D. Projects in action
 - E. Meeting funding program requirements
- Q&A and Sharing Project Experiences
- Upcoming meetings and events
- Recap of key take-aways from this meeting

Path to Charging Infrastructure Project Completion

A. Initial Project Concept	B. Moving Project Forward	C. Detailed Project Preparation	D. Projects in Action	E. Meeting Funding Program Requirements
1. Evaluate fleet and charging needs 2. Initiate utility contact 3. Investigate available funding 4. Acquisition planning and initial site assessment	1. Get organizational approval 2. Develop Project Roadmap that aligns timing of procurements, site activities, utility upgrades and budget/funding 3. Apply for funding	1. Submit utility service request 2. Contracting and procurement - develop RFPs that align with Roadmap and incorporate utility, permitting, and funding program requirements 3. Revisit funding for stacking	1. Plan ahead for change by building contingencies into contracts and budgets, and document along the way 2. Site commissioning and testing	1. Data collection and reporting 2. Documentation for reimbursement 3. Public outreach requirements 4. Final report/final invoice for reimbursement

A.1. Capacity and Load Evaluation

Example fleet composition

Truck Class and type	EV fuel efficiency (mi/kWh)	Minimum demand - kWh/day @25 mi/day*	Peak demand - kWh/day @100 mi/day*	Number of trucks in fleet	Minimum demand fleetwide (kWh/day)	Peak demand fleet wide (kWh/day)
Class 1 pickup truck	4	6.25	25	1	6.25	25
Class 2b Cargo Van	3	8.3	33.3	10	83	333
Class 3 service truck	2	12.5	50	10	125	500
Class 5 dump body	1	25	100	1	25	100
Class 8 dump body	0.5	50	200	1	50	200
-	-	-	Totals	23	289	1,158

* Minimum and peak daily demand=mi/day÷mi/kWh

A.2. First Contact with Electrical Utility

Commercial TE Program Websites

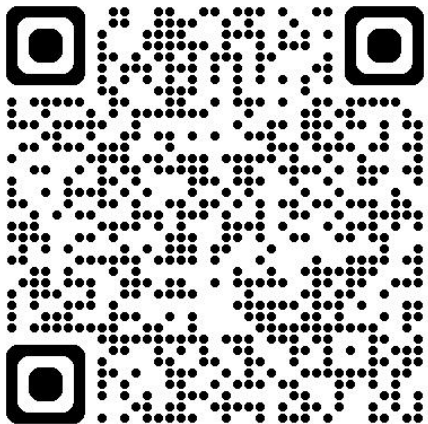
- Pacific Gas & Electric (PG&E) - [EV Advisory Services | PG&E](#)
- Southern California Edison (SCE) - [TE Advisory Services \(sce.com\)](#)
- San Diego Gas & Electric (SDG&E) - <https://teas.sdge.com/>
- Los Angeles Department of Water and Power (LADWP)
 - [Electric Transportation | Los Angeles Department of Water and Power](#)
 - [Commercial EV Service Request & Design Process](#) webinar
- Sacramento Municipal Utility District (SMUD) - [Business electric vehicles](#)

Transportation Electrification (TE) Advisory Services

TE Advisory Services is Available to Support Customers Early in the Electrification Planning Phase

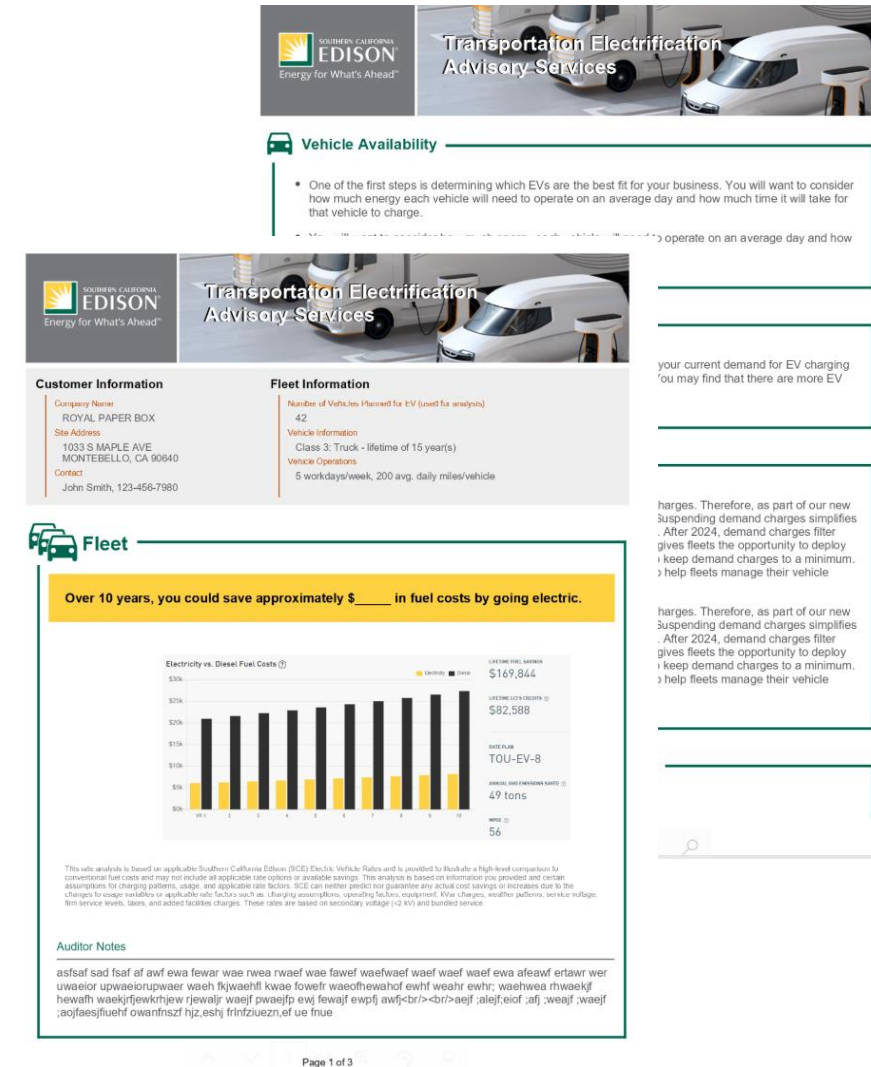
EV Readiness Studies *(No Cost Project Site Study)*

- Helps multifamily property owners, tribal communities, businesses and medium- and heavy-duty fleet owners determine the feasibility of their specific electrification project. **Customers will receive the following:**
 - Consultation call with a TE Advisor**
 - High-level study of their site**



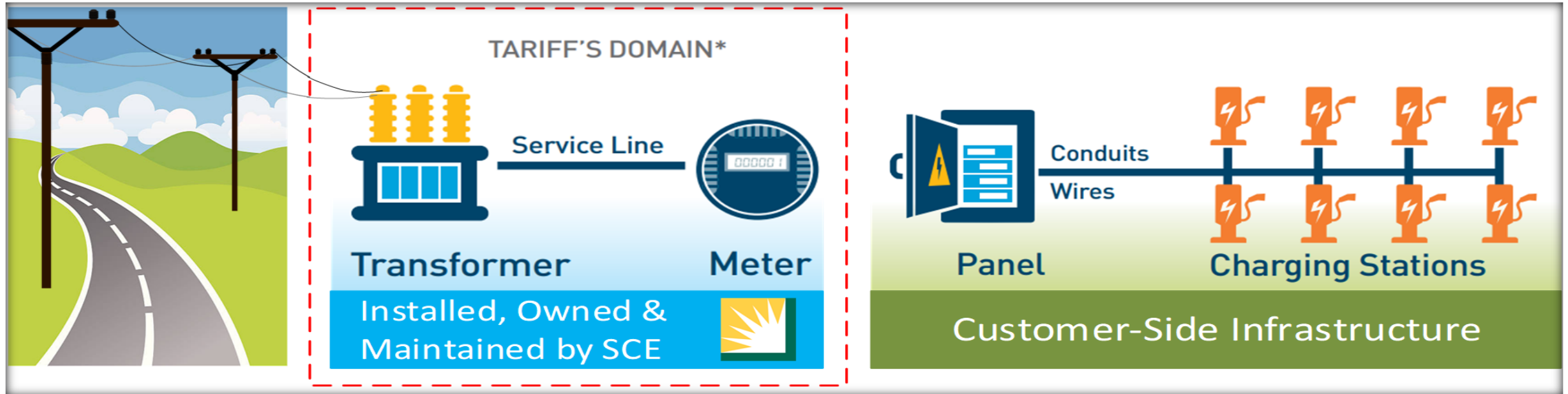
Request Your Study

www.sce.com/teas



Tariff Rule 29- EV Infrastructure

Utility-Side (before-the-meter) EV Infrastructure



Under Rule 29, SCE would cover the following costs:

- Planning, design, and engineering
- Electrical distribution infrastructure costs, including:
 - Conduit and substructures for service extension
 - Protective structures
 - Underground service (when required)
 - Riser materials
 - Civil work
- Overhead service
- Metering
- Transformer
- Materials
- Trenching and excavation for service
- Utility-side permitting, rights checks, & easements

SCE Rule 29 Project Overview

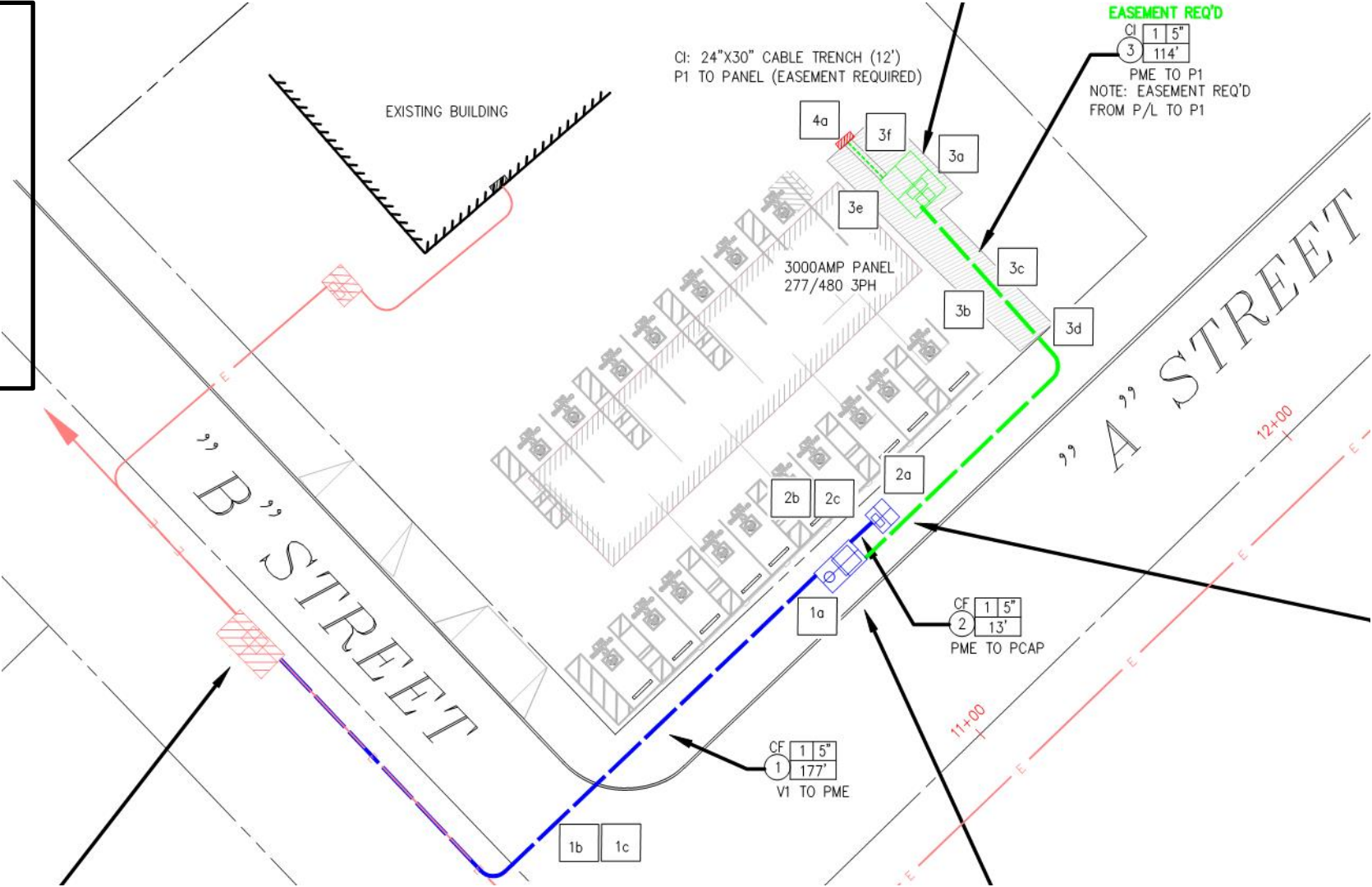
MAP LEGEND

RULE 15

RULE 29

RULE 16

SCE EASEMENT



A.2. Preparing for First Utility Consultation (beginner)

- If you are new to fleet electrification, come to the first meeting with your TE advisor prepared with:
 - Location of site(s): address or intersection
 - Fleet composition (types and weight classes) – see Slide 4
 - Daily mileage of vehicles you plan to electrify and dwell times
 - Rough timeline for fleet and infrastructure deployments
- Advisor will help you:
 - Help fill knowledge gaps and distinguish ideas from actual plans
 - Identify available funding and other considerations
 - Assist in developing electrification plans for your fleet

A.2. Preparing for the First Consultation (advanced)

- If you are experienced with charging infrastructure, reach out to your account manager and be prepared with:
 - Number and types of vehicles, daily mileage, dwell times
 - Deployment timing and target date(s) for electrification including future fleet expansion plans
 - Initial project plans
 - Number of chargers and preferred charger locations
 - Anticipated load requirements and charger ratings (kW)
 - Civil and electrical site considerations – panel size and site voltage
 - Project budget
 - Grants, regulations or deadlines influencing the project
- Account manager can:
 - Identify circuit capacity and need for new service connection, if applicable
 - Identify funding opportunities, TOU rates and other resources

A.3. Investigate Available Funding

- Get familiar with funding resources
 - For programs that seem like a good fit, dig in and get the details
 - Revisit funding finder - programs and other opportunities come and go
- Multiple resources support ZEV infrastructure for public and private fleets:
 - CEC - EnergIZE program, competitive grants (Statewide)
 - Air Districts - Carl Moyer, AB 617, other local programs (jurisdictions)
- Electrical utility programs support for EVs and EV charging (territories)
- Port funding supporting both technologies (ports and drayage)
- Funding for commercial ZEVs class 2b-8
 - [HVIP](#) (statewide), air districts (regional) - both ZEV types
 - [California Clean Fuel Reward](#) - battery electric only

Funding Finder Tool

- Tool to find funding for ZE vehicles and infrastructure in California and nation wide
- Funding descriptions include brief descriptions, contact information and program links
- Searches can be refined to target locations, vehicle classes and technologies



<https://fundingfindertool.org/>

A.4. Acquisition Planning and Site Assessment

- Develop preliminary project plan including:
 - Initial concept for charging infrastructure placement considering where vehicles will park and proximity to utility connection
 - Existing panel capacity and transformer rating
 - Property easements, egress and site security
 - Approach to fleet asset management and strategy for pairing vehicles with charging infrastructure
 - Could automated load management (ALM) software help?
 - General timelines and rough costs for ordering vehicles and charging equipment

Suggested resource: Slides and recording from May 12, 2025, Infrastructure meeting: <https://ww2.arb.ca.gov/drive-forward-truck-forum-infrastructure-workgroup>

Determining Existing Available Capacity

Electrical panel capacity



Available Amperage = Main Panel Breaker – sum of Load Breakers
Available Power Capacity = Available Amperage * Panel Voltage (208/480)

Transformer rating (SCE & SDGE)



Contact an electrician for more accurate information and your utility for service upgrade information (see Utility TEAS slides)

B.1 Approval to Proceed

Internal approvals may be needed to pursue next steps. This due diligence will:

- Show management that you have thought through procurements, timelines, contracting and other activities, and costs associated with executing and completing the project.
- Identify funding sources to support procurements and project activities

B.2. Develop Project Roadmap

- Evaluate charging equipment, software and network providers
 - Is the equipment you want to use on the APL list?
 - Is additional equipment needed like switchgear or panel upgrades?
 - Do you have an electrician?
 - How will you approach managed charging?
- Coordinate planned site activities with equipment manufacturer, fleet/site manager and utility
- Prepare for contracting
 - Timelines - plan for sequence of events and funding program constraints
 - Set clear communication expectations among project stakeholders
 - Plan for procurements - long lead items, vehicle deliveries
- Consult with utility and other trusted resources

B.3. Apply for Funding

- Successful funding applications include:
 - Quotes and bids from suppliers and subcontractors
 - Documentation from utility affirming available power and timeline
 - Ties to a fleet committing to use the infrastructure
 - Commitment to share infrastructure, if required for higher score
- Complete applications make it through the initial screen
- Thorough applications have a better chance of success
 - Refer to EnergllZE lane materials and requirements
- Try again if unsuccessful the first time

C.1. Submit Utility Service Request

- Components of a complete utility service request include:
 - Final project scope and detailed site plans (90-100% design)
 - Charger specifications and final load calculations
 - Meter locations
 - Supporting engineering documentation
 - Switchgear specifications
 - Utility service equipment drawings
 - Grading plans
 - Easement information
 - Other civil and electrical design documents
- Each utility has a specific portal for submitting service requests

C.2. Contracting and Procurement

- Going out to bid – request for bids should:
 - Expand on elements of Project Roadmap (See B.2.)
 - Incorporate inputs and requirements from electrical utility, permitting authorities and funding agencies into RFP(s)
 - Align project phases and deliverables with those required for reimbursements
 - Specify timelines for deliverable of each completed phase
- Procurement
 - Understand delivery timelines for all equipment and vehicles to be purchased
 - Order infrastructure components such that their delivery and installation can be completed before vehicle deliveries (when possible)
 - EVSE cooperative agreements for SLG

C.3. Revisit Funding and Stacking

- Are there other funding programs that can be stacked?
 - Most infrastructure funding can be paired with vehicle funding
 - Plus-ups and increased incentives available to drayage trucks and small businesses
 - Vehicle incentive stacking allowed with some programs
- Understand which costs should be covered by each incentive program
 - Plan how to allocate project costs accordingly for reimbursement purposes
- Back-up plan for funding – keep abreast using the Funding Finder Tool

D.1. Projects in Action and Planning Ahead

- Things will change once you start so plan for change
 - Plan and build contingencies into project budgets and contracts to minimize need for change orders
 - Surprises happen - an agile plan will minimize delays and cost overruns
 - Communication with funding program - understanding common roadblocks may help prevent them
- Document and organize documentation along the way
 - Photographs help recall stages of project and where lines are buried
 - Photographs often required to prove a project phase is complete for reimbursements
 - Save all communications, photographs, invoices in one place

D.2. Site Commissioning and Activation

Site has been energized and commissioning starts

- Charging hardware and software OEMs
 - Test functionality for vehicle charging and operation before manufacturer activates and create accounts
 - Test charging systems -are they working as designed
 - Set up costing/pricing profiles
- Set parameters for charging schedules
 - Managed charging, load sharing profiles
 - Driver and staff training, includes data collection requirements
- Charger access and security - who can use chargers and when
- Tax and timing considerations
 - Be aware of timing of site commissioning and IRS and PTC tax benefits
 - Warranty timing - may start before you start using

E. Meeting Funding Program Requirements

1. What must accompany each reimbursement request?
 - Photographs, invoices, status reports
2. Who is responsible for data collection and reporting?
 - Are data collection systems set up to collect required data and have staff been trained?
 - What are the expectations for project status meetings/reporting?
3. Are there public outreach requirements?
4. What are the requirements for a Final Report?
5. What milestones and deliverables are needed for the Final Invoice?

Q&A and Sharing Experiences

- Questions for presenters – panelists and audience
 - Zoom Q&A function
 - Ask questions verbally
 -  Use the raised hand function or #2 if calling in by phone
 -  Please state your name and affiliation before asking a question or making a comment
- Panelists share your experiences, if time

Key Take-aways

- Build a realistic and sequenced project roadmap based on data
 - Accurate fleet load requirements are needed to size infrastructure
 - Prepare ahead for meetings with utilities, funding entities and management
- Engage with utilities early
 - Critical to understanding capacity and developing timelines
- Use the no cost education and advisory services of utilities and funding programs
 - Submit thorough and complete applications, reapply if unsuccessful the first time
- Site assessment may require changes to your existing layout
 - Design for optimal vehicle movement and charger access
- Gain management approval
 - Show management timelines, procurement process, costs, locations, etc.
- Be ready for change, plan, and communicate
 - Include contingencies in budgets and contracts
- Site commissioning requires thorough testing, configuration, and training
- Documentation is critical for reimbursement and reporting

Next Meeting

- Final 2026 Drive Forward Truck Forum Infrastructure Meetings
 - Changed to **November 2, 1:00 - 3:00**
 - Cancelled December 7 meeting
- Co-chairs seeking input on topics for November
 - Leslie Goodbody: leslie.goodbody@arb.ca.gov
 - Lisa McGhee: lmcghee@ttruck.com
 - Bradley Northrop: bradley.northup@carlsbadca.gov

Upcoming 2026 Meetings & Events

arb.ca.gov/Events-TruckStop

Event	Date
Clean Truck Check Webinar	Aug. 18
*Evening Community Meeting	Aug. 18
Clean Truck Check Webinar	Sept. 22
Drive Forward Heavy-duty Manufacturer Workshop	TBD
Drive Forward Heavy-duty Engine and Automaker Workshop	TBD
Drive Forward Infrastructure Workgroup meeting	Nov. 2
Zero-Emission Vehicle Showcase and Ride & Drive (Fresno)	Nov. 18

***Evening Community Meetings are held the third Tuesday of every month:**
arb.ca.gov/CleanTransportationMeetings