California Fleet Compliance Regulatory Updates



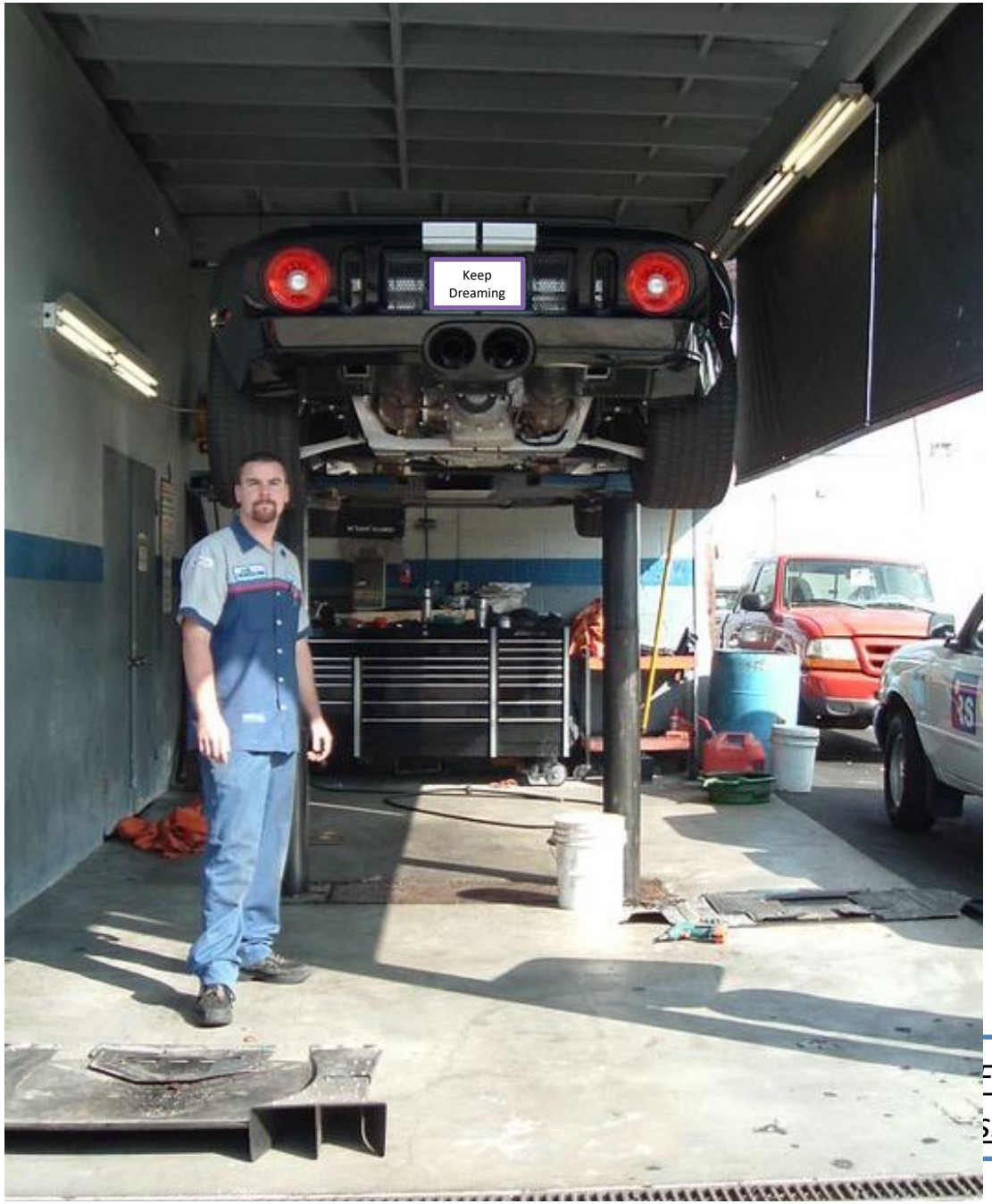
PROGRAM HIGHLIGHTS

- Understand California's Regulatory Environment & Impacts to your Fleets & Facilities
- Evaluate the Impacts of Regulations on the Design, Construction and Operations of Future Public Infrastructure
- Learn about Funding Opportunities & Their Performance/ Reporting Requirements
- Identify New Technologies to Enhance Existing Infrastructure

TODAY'S PRESENTATION

- Introduction & Background
- California Regulations (Old, New & Amended)
- Future Infrastructure Planning
- Funding, Incentives & Support Programs
- New Technology & Fleet Enhancements

City of Carlsbad



County of San Diego – 11 years

Master Fleet Technician
- Sheriff & Light Duty Fleet

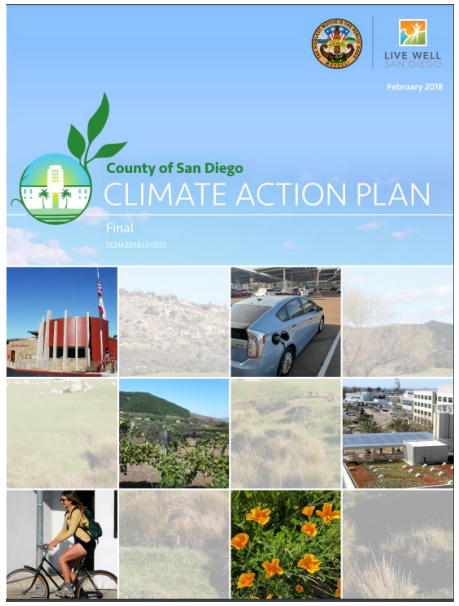
Fleet Team Leader – BA Business (SDSU)
- PW Division 1 & County Operations Center
- Medium/Heavy Trucks & Equipment
- Work Management
- Productivity & Safety Programs, Shop Re-Model

Fleet Coordinator – CAFM (NAFA)
- Acquisition & Asset Mgmt ~ 4,200 vehicles
- Contract, Policy, Procurement & Spec
- Fund Management, Rate Development
- Climate Action, Green Fleet, New Facility Construction

City of Carlsbad – 6 years

Public Works Superintendent
- All City Fleet Operations ~ 500 vehicles
- Climate Action & ZEV Regulations
- Ongoing Projects
  - EV Charging
  - Motor Pool
  - Shop Remodel

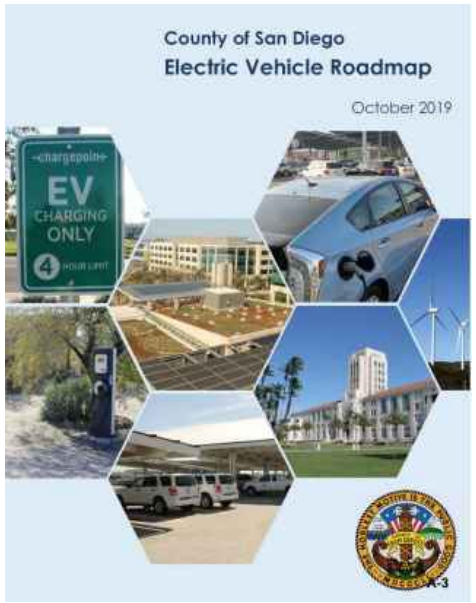
Fleet & APWA #1 Small Fleet in America
sional Manager of the Year - Fleet















@ County of San Diego









@ City of Carlsbad

- California Regulations (Old, New & Amended)

City of Carlsbad

California's Air Resources Board

What is it?

- State Board of appointed officials
- Charged with protecting the public from the harmful effects of air pollution (mobile sources)

Where did it come from?

- Mulford-Carrel Air Resources Act – Gov. Reagan (Aug 30th, 1967)
- Merged Bureau of Air Sanitation & CA Motor Vehicle Pollution Control Board

Authority

- Federal Air Quality Act of 1967
  - Ability to set its own more stringent air quality rules in CA
- Federal Clean Air Act of 1970
  - Authorized California to create its own separate and stricter emission regulations.
  - Resulted in Nox emission standards for motor vehicles (Catalytic Converters, OBD, ZEV, GHG standards)







California Fleet Regulations

Advanced Clean Cars/Trucks *Fed Block
- Manufacturer CA sales targets

Advanced Clean Fleets *Amended
- Fleet purchase/conversion requirement
- Reporting & Duty to Hire

In Use Off Road Diesel *Active
- Reporting & Duty to Hire
- Engine Tier Eliminations

Zero Emission Forklift *Active
- 2026 Zero Emission Sales & Purchases
- Forced to retire 13yr & older

Zero Emission Airport Shuttle *Active
- Fleet purchase/conversion

Innovative Clean Transit *Active
- Fleet purchase %

Sustainable Freight & Transportable Refrigeration Units *HOLD*

HD/IM (Clean Truck Check)*Active



REGULATORY SPOTLIGHT

Advanced Clean Fleets: How We Got Here

Jan 2024

ACF takes effect; state/local government fleets begin phased ZEV purchase requirements

Jan 13, 2025

CARB withdraws its EPA Clean Air Act waiver request covering high-priority & drayage fleet provisions

Sep 25, 2025

CARB Board adopts resolution to amend extending ZEV purchase timelines and expanding public-fleet exemption pathways

2025 Settlement

CARB agrees with 16 states to formally repeal high-priority & drayage requirements; OAL filing due Aug 31, 2026

Today

Repeal process & Amendments approved by OAL; state & local government agency fleet requirements remain in force, repealed portions and new amendments to take effect Jan 1, 2027

REGULATORY SPOTLIGHT

What's Repealed vs. What Remains in Force

REPEALED (needed federal waiver)

- High-priority fleet ZEV mandate (50+ trucks or $50M+ annual revenue)
- Drayage truck ZEV requirement (new registrations after 1/1/2024)
- Retroactive enforcement waived back to Nov 1, 2023

REMAINS IN FORCE (no waiver needed)

- State & local government agency ZEV purchase requirements, phased through 2030
- Small fleet (≤10 vehicles) / low-population county exemption until 2030
- Annual TRUCRS compliance reporting through 2045; 5-year recordkeeping
- Separate ACT manufacturer sales mandate, phasing to 100% ZEV sales by 2036

WHAT PROCUREMENT SHOULD WATCH

Contracts & Contracted Fleets

1. Proposed amendments make clear that a public agency's fleet includes vehicles it directly owns as well as vehicles it rents, leases, or contracts to operate on its behalf.

2. Amendments include Section 2049 - Hiring Compliant Fleets *** (Defines Requirement to Hire)
"The requirements specified in this section apply to any motor carrier, broker, governmental agency, person, or entity that hires a State or local government agency or dispatches State or local government agency vehicles with a GVWR greater than 8,500 lbs. in California

3. Track expanding exemption pathways: mutual aid use, ZEV-purchase timing exemptions, and daily-usage exemptions
Review RFP and contract language for ZEV purchase, reporting, and recordkeeping responsibilities before renewal or re-solicitation

4. CARB has stated that during this phase under the amended regulation it will focus on compliance assistance, education, and good-faith efforts rather than aggressive enforcement.

Action item: confirm which active contracts need ZEV compliance language updates before fiscal year close.

https://ww2.arb.ca.gov/resources/fact-sheets/ACF-2025-Amendments-Guidance

Don’t Panic: California’s Aftermarket Tire ‘Ban’ Explained

California's new efficiency rules will give enthusiasts more hoops to jump through when buying aftermarket tires.

BYRON HURD / UPDATED AUG 18, 2026 5:31 PM EDT / 204 / ADD THE DRIVE





TRENDIN



AFTERMARKET

New Flat-Ei
Vintage 911s
Nicely

JERRY PEREZ

CEC - Replacement Tire Efficiency Program

- Bans the sale of non-compliant tires
- Phase 1 – Jan.1 2029
- Phase 2 – Jan.1 2033
- Exemptions for Emergency Vehicles, Specialty, HD & Off-Road Types
- Could limit supply & increase prices

California Fleet Regulations & Industry Shift

Advanced Clean Cars/Trucks *Fed Block
- Manufacturer CA sales targets

Advanced Clean Fleets *Amended
- Fleet purchase/conversion requirement
- Reporting & Duty to Hire

In Use Off Road Diesel *Active
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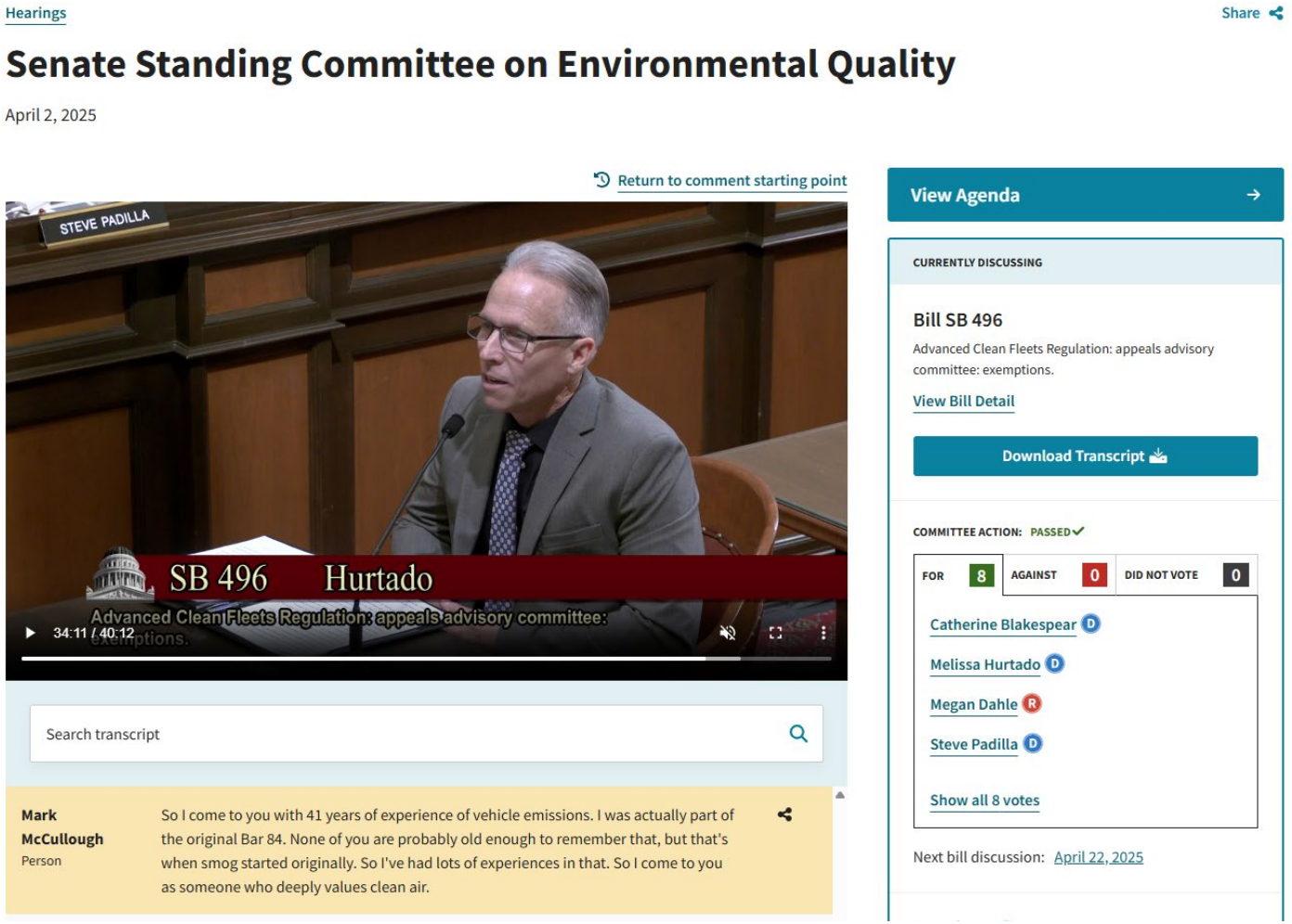
HD/IM (Clean Truck Check)*Active



California Fleet Advocacy & Legislative Efforts

PUBLIC WORKS

FIRST RESPONDER





Public Works Are First Responders!

To mark National First Responders Day on October 28 beginning at 11 a.m. ET, join APWA President Robert Garland, Government Affairs Committee Chair Adisa Aarons, Emergency Management Technical Committee Vice Chair Tyler Hill and other public works peers for a virtual town hall, **"Public Works Are First Responders!"**

This is your opportunity to hear from colleagues and share examples and experiences. You'll also learn how APWA chapters are working to get formal recognition from states and municipalities for public works first responders.

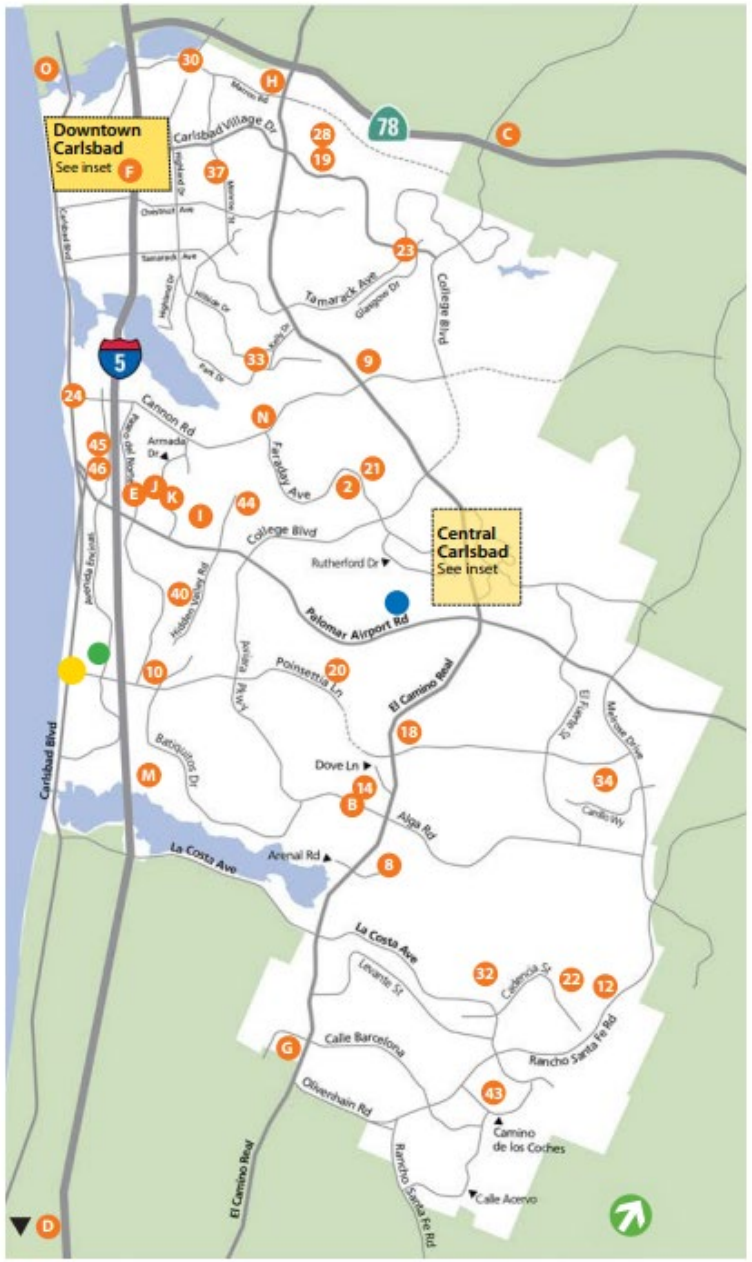
To attend the webinar, RSVP to Government Affairs Specialist Jeff Finegan at **jfinegan@apwa.org** or Sr. Government Affairs Manager Marty Williams at **mwilliams@apwa.org** by 5 p.m. ET, October 24.

- Future Infrastructure Planning

City of Carlsbad

Where Do I Start?

Know Your Site(s) & Your City



Downtown Carlsbad



Central Carlsbad



City of Carlsbad

Where Do I Start?

Know Your Site(s) & Your City

Potential new EVSE Site Candidate?

Interconnection Map from your Utility Provider

- Insights into capacity of a circuit
- Locations of existing components

**Does NOT usually show future or planned capacity by others*



What is in your Fleet?

What types of vehicle are they?

What is their mission?

What does each vehicle NEED to do?



Home Base?

Weight Class?

Stays close to home base?

Return to Base?

Parked at Base >8hrs?

Standard Route?

Does it Tow?

Daily Miles Traveled?

Emergency Response?

Daily Schedule

Body Type

Special Equipment

Typical Lifespan?

Payload & Cargo

ELECTRIC VEHICLE EFFICIENCY

GVWR	MILES PER KWH	MILES PER DAY Min/Max	MIN KWH (25 ÷ m/KWH)	MAX KWH (100 ÷ m/KWH)
Class 1	4	25/100	6	25
Class 2	3		8	33
Class 2b-3	2		12.5	50
Class 4-6	1		25	100
Class 7-8	0.5		50	200

Location 1

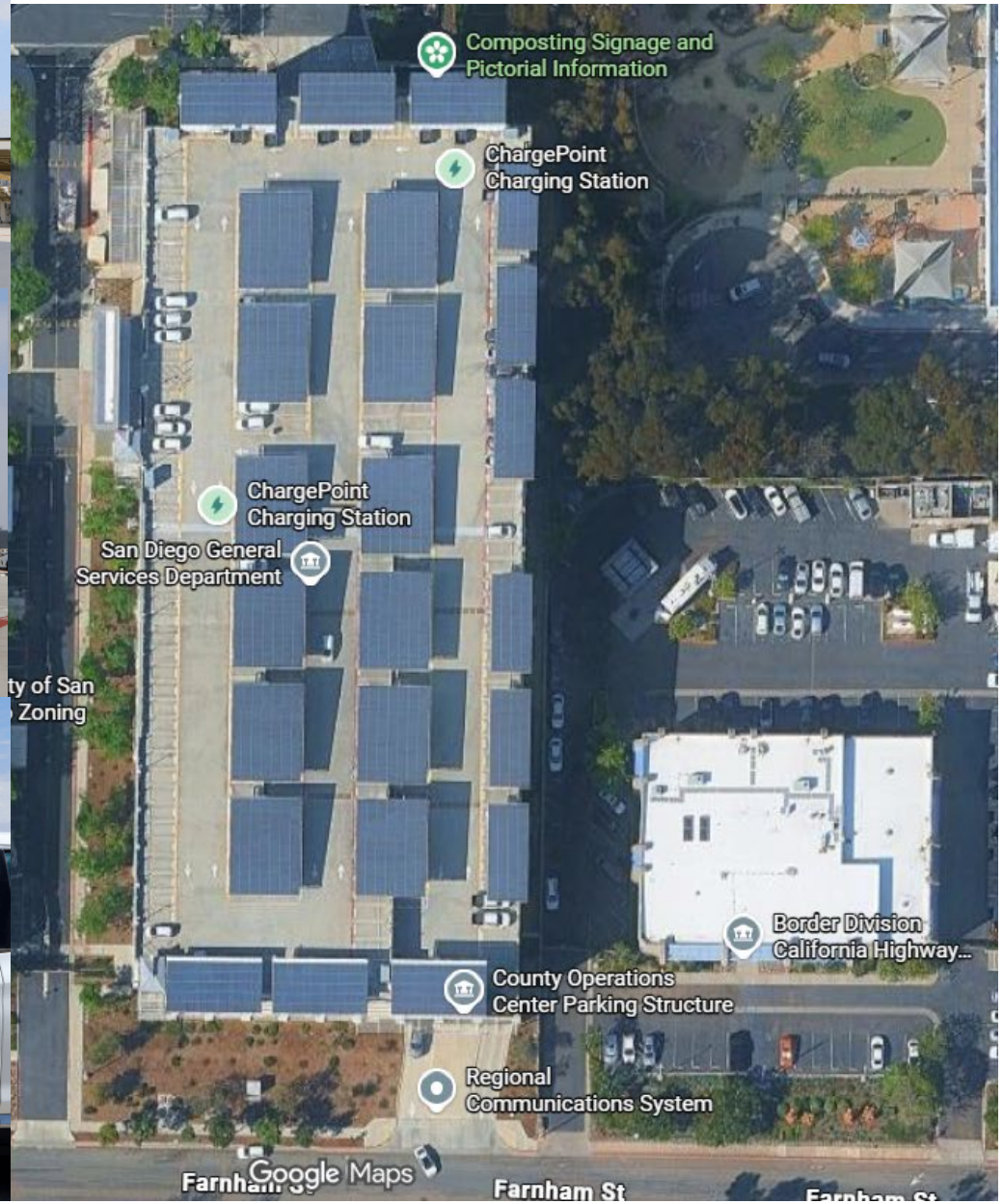
	FLEET COMPOSITION QUANTITY	QUANTITY	MILES PER DAY	MIN DEMAND	PEAK DEMAND
	Class 1 – Pickup Truck	1	25/100	6	25
	Class 2b - Cargo Van	10	25/100	80	330
	Class 3 – Service Trucks	10	25/100	125	500
	Class 5 – Dump Body	1	25/100	25	100
	Class 8 – Dump Body	1	25/100	50	200
		YARD #1 TOTAL DEMAND		286	1,155

EV Infrastructure









ELECTRIC VEHICLE EFFICIENCY

GVWR	MILES PER KWH	MILES PER DAY Min/Max	MIN KWH (25 ÷ m/KWH)	MAX KWH (100 ÷ m/KWH)
Class 1	4	25/100	6	25
Class 2	3		8	33
Class 2b-3	2		12.5	50
Class 4-6	1		25	100
Class 7-8	0.5		50	200

Location 2

	FLEET COMPOSITION QUANTITY	QUANTITY	MILES PER DAY	MIN DEMAND	PEAK DEMAND
	Class 1 – Pickup Truck	1	25/100	6	25
	Class 2b - Cargo Van	10	25/100	80	330
	Class 3 – Service Trucks	10	25/100	125	500
	Class 5 – Dump Body	1	25/100	25	100
	Class 8 – Dump Body	1	25/100	50	200
		YARD #1 TOTAL DEMAND		286	1,155

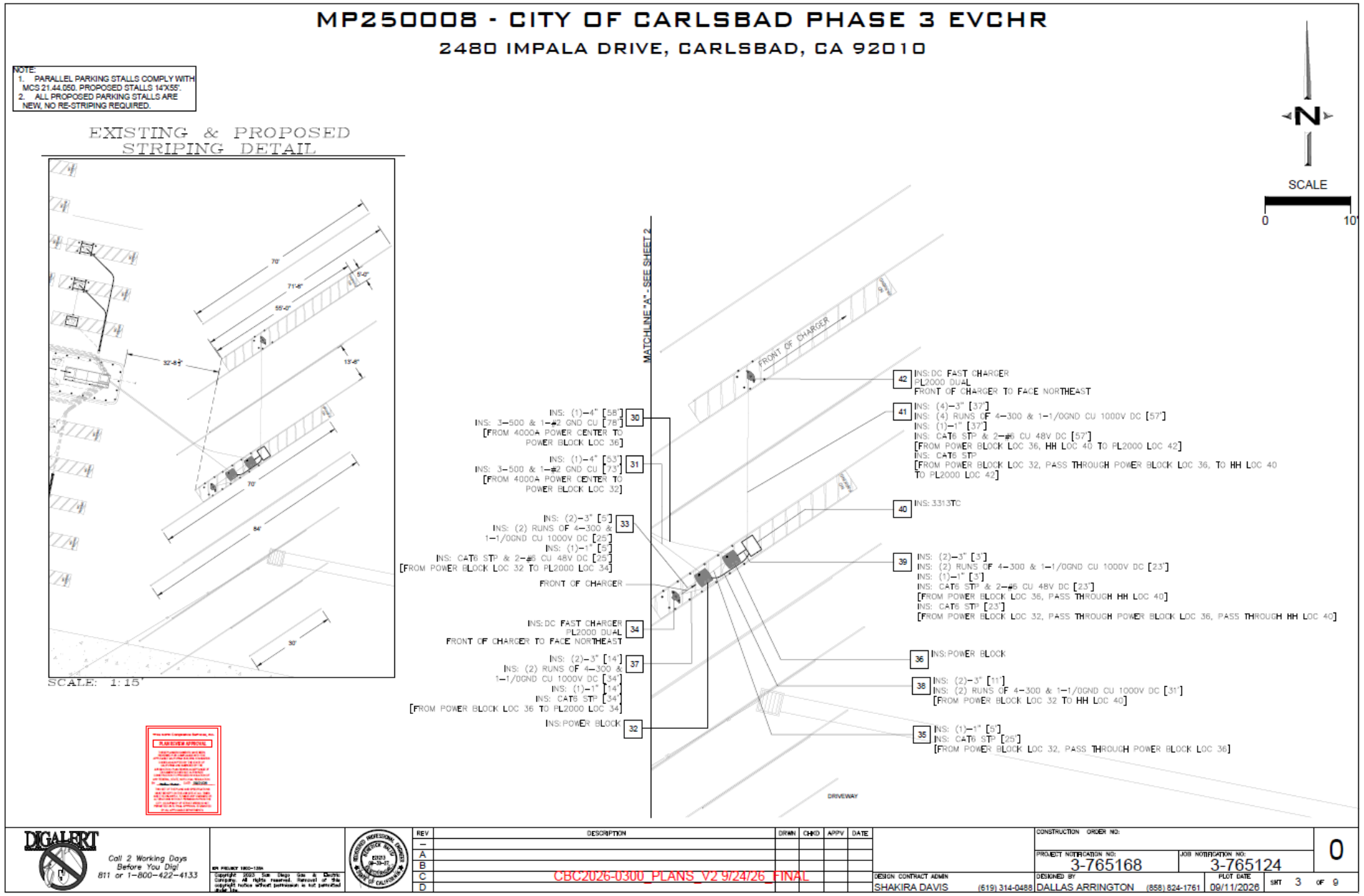
EV Infrastructure

Infrastructure & Design



EV Infrastructure

Infrastructure & Design



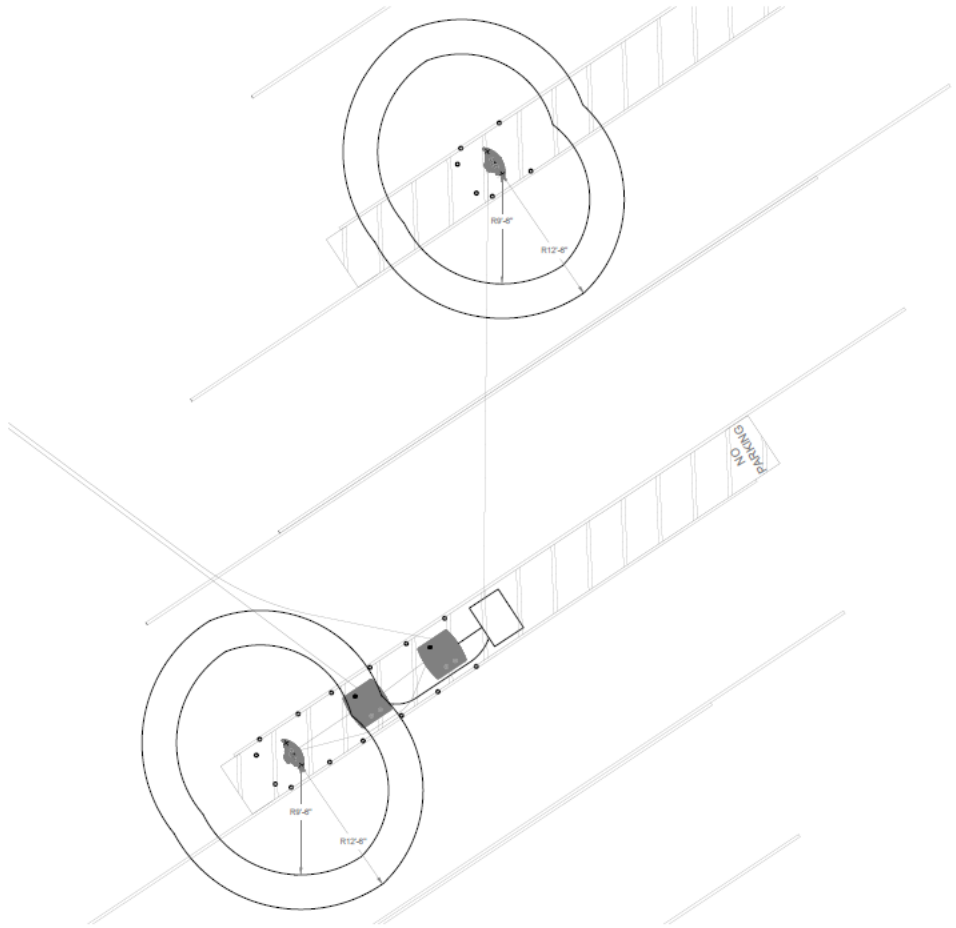
EV Infrastructure

Infrastructure & Design

MP250008 - CITY OF CARLSBAD PHASE 3 EVCHR

2480 IMPALA DRIVE, CARLSBAD, CA 92010

POWER LINK 2000 CORD REACH DETAIL



N

SCALE

0 5'

Call 2 Working Days Before You Dig! 811 or 1-800-422-4133

REV	DESCRIPTION	DRWN	CHKD	APPV	DATE
–					
A					
B					
C	CBC2026-0300_PLANS_V2 9724726_FINAL				
D					

DESIGN CONTRACT ADMIN: SHAKIRA DAVIS (619) 314-0488

CONSTRUCTION ORDER NO:

PROJECT NOTIFICATION NO: 3-765168

JOB NOTIFICATION NO: 3-765124

DESIGNED BY: DALLAS ARRINGTON (858) 824-1761

PLOT DATE: 09/11/2026

SHT 9 OF 9

0

ELECTRIC VEHICLE EFFICIENCY

GVWR	MILES PER KWH	MILES PER DAY Min/Max	MIN KWH (25 ÷ m/KWH)	MAX KWH (100 ÷ m/KWH)
Class 1	4	25/100	6	25
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Class 4-6	1		25	100
Class 7-8	0.5		50	200

Location 3

	FLEET COMPOSITION QUANTITY	QUANTITY	MILES PER DAY	MIN DEMAND	PEAK DEMAND
	Class 1 – Pickup Truck	1	25/100	6	25
	Class 2b - Cargo Van	10	25/100	80	330
	Class 3 – Service Trucks	10	25/100	125	500
	Class 5 – Dump Body	1	25/100	25	100
	Class 8 – Dump Body	1	25/100	50	200
		YARD #1 TOTAL DEMAND		286	1,155

EV Infrastructure

Infrastructure & Design



- Funding, Incentives & Support Programs

City of Carlsbad

Funding Finder

For Advanced Vehicle Technology and Infrastructure

The Funding Finder is designed to help stakeholders search and filter for medium- and heavy-duty advanced-technology vehicle and infrastructure programs.

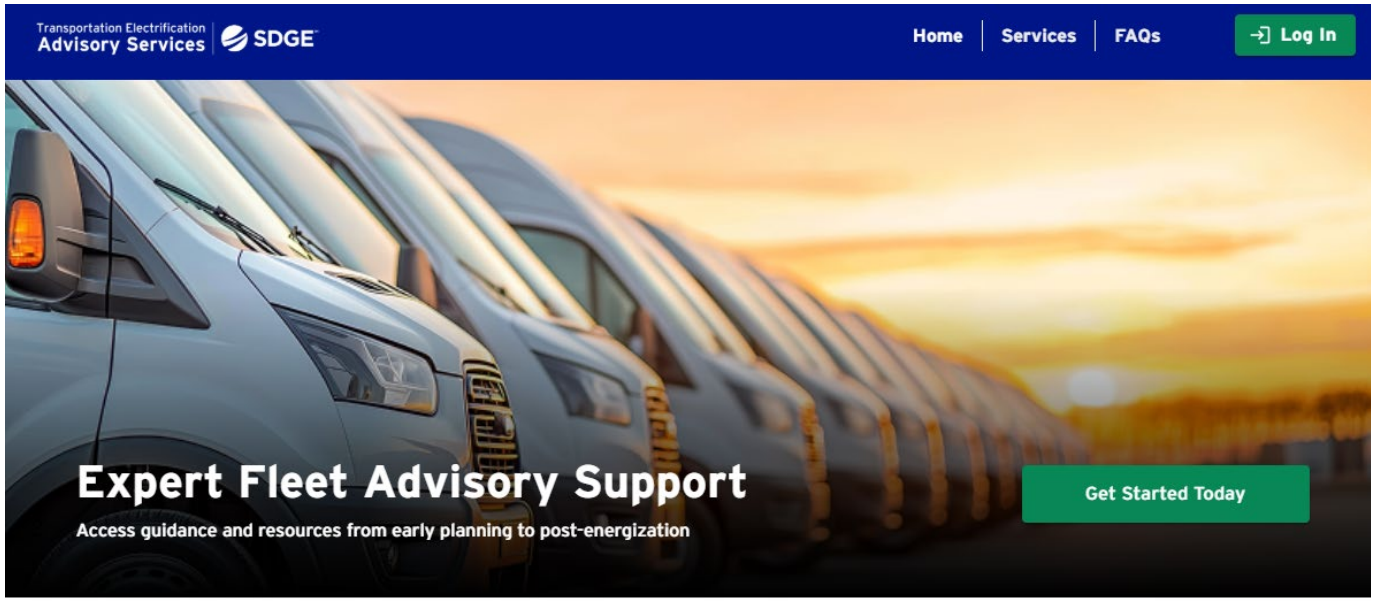
Start by selecting one of the four categories below.

Please note that for the most accurate and up-to-date information about each program, you should visit the website and/or speak with the agency directly.



Select a Funding Category

- **Vehicles**
- **Infrastructure**
- **Tribal**
- **Federal Funding**



[SDGE EV Charging Programs]
[Transportation Electrification Advisory Services (TEAS) Program]
[TEAS Customer Portal]



Deana Gutierrez
Customer Solutions Advisor
P: (619) 676-2037
E: DGutier2@sdgecontractor.com

EV Infrastructure & Alternative Fuel Vehicle Incentives



CLEAN FUEL REWARD PROGRAM –

Rebates vary based on the vehicle weight class

- Class 2b (8,501–10,000 lbs): $7,500
- Class 3–4 (10,001–16,000 lbs): $15,000
- Class 5 (16,001–19,500 lbs): $60,000
- Class 6–7 (19,501–33,000 lbs): $85,000
- Class 8 (>33,000 lbs): $120,000

CAL eVIP

BUILDING EV INFRASTRUCTURE

Implemented by CSE for the California Energy Commission

Fast Charge California Project Window 2

Application Window: October 7, 2026–January 14, 2027

STATEWIDE | DC FAST CHARGERS (DCFC) | UP TO $100,000 PER CHARGING PORT

SDGE A Sempra Energy utility®

SDG&E's **Power Your Drive for Fleets** program that helps fleet owners and operators reduce operating costs, eliminate emissions, and simplify vehicle maintenance by transitioning to electric vehicles. The program connects fleets with resources and financial incentives to easily and cost-effectively design and install the charging infrastructure needed to power medium- and heavy-duty electric fleets.

OFF-ROAD

Forklifts (Class 2 or higher) >6,000 LBs

MEDIUM DUTY

Delivery & shuttle (Class 2-6) >6,000 LBs

- New Technology & Fleet Enhancements

City of Carlsbad


ELECTRIC VEHICLE
e18M


ELECTRIC VEHICLE
e18M


e18M

City of Carlsbad

Memorandum

June 1, 2026

To: Geoff Patnoe, City Manager
From: John Maashoff, Public Works Manager
Via: Paz Gomez, Deputy City Manager
Sheila Cobian, Assistant City Manager
Re: **XOS Hub All-Electric Portable EV Charger Demonstration Agreement (Districts – All)**

This memorandum requests City Manager approval of a Vehicle Demonstration Agreement with XOS Fleet, Inc.

Background

In April 2026, The City of Carlsbad was contacted by XOS, Fleet Inc. regarding the availability of an All-Electric Portable EV charging solution that could potentially serve a vital infrastructure resiliency element for the City's existing EV charging infrastructure. XOS, Fleet Inc. is offering the temporary use of one trailer-mounted portable EV charging system: Serial# Xos HUB - MC02-ZA-A0003 for a maximum of 5 days at a no cost obligation to the city.

Discussion

The Advanced Clean Fleets regulation was adopted April 28, 2023, and became effective

XOS

XOS FLEET, INC.
PRODUCT EVALUATION AGREEMENT

In order to evaluate products listed below ("Product(s)") the Company (described below) agrees to the terms of this Product Evaluation Agreement (the "Agreement"), including the Terms and Conditions set forth on Exhibit A, which are hereby incorporated into the Agreement, as of _May 29th, 2026.

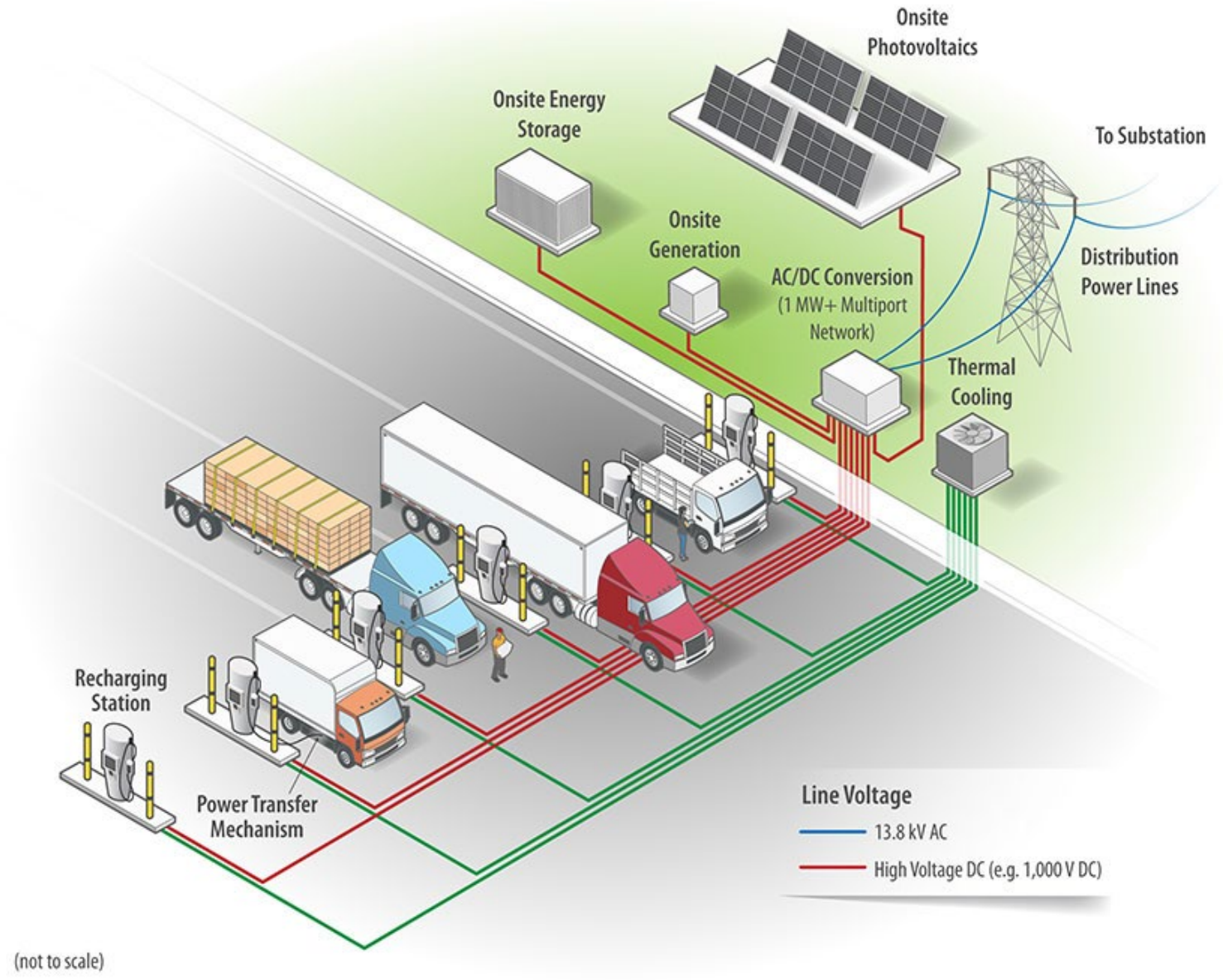
Full Company Name: [City of Carlsbad]			
Street Address: [2480 Impala Drive]			
City: [Carlsbad]	**State:** [CA]	**ZIP:** [92010]	
Company Contact Name: [Bradley Northup]	**Title:** [Public Works Superintendent]		
Contact Phone: [760-437-1267]	**Contact Email:** [bradley.northup@carlsbadca.gov]		
Evaluation Period Begin Date: **July 13, 2026**			
Product Return Date: **July 17, 2026**			
Pickup or Delivery Location Address: [2480 Impala Drive, Carlsbad CA 92010]			
Return Location Address: XOS - Glendale, CA			
Additional Instructions: *Company shall, and shall cause each of its agents and representatives to, adhere to all instructions and guidance provided by Xos related to each Product, including, without limitation, all instructions set forth in the applicable Product Operator's Manual (the "Operator's Manual"). Each Product must remain at the Pickup or Delivery Location described herein. The Product Evaluation Agreement is governed by, and Company agrees to adhere to, the Terms and Conditions set forth on Exhibit A hereto.*			

Product(s)

Product Description	Quantity	Model/Year	Serial Number (if applicable)
MC02-ZA-A0001-B	1	2026	[ ]

EV Infrastructure

Infrastructure & Design







Bradley Northup

Bradley.Northup@Carlsbadca.gov
760-473-1267

City of Carlsbad

San Diego & Imperial Counties Chapter APWA AMERICAN PUBLIC WORKS ASSOCIATION

SAN DIEGO REGIONAL CLEAN CITIES COALITION

MAINTENANCE SUPERINTENDENTS ASSOCIATION MSA 1966
San Diego Area Chapter

NAFA FLEET MANAGEMENT ASSOCIATION

MEMA MUNICIPAL EQUIPMENT MAINTENANCE ASSOCIATION